Jefferson Municipal Airport

Pavement Management Report

PREPARED BY

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JEFFERSON MUNICIPAL AIRPORT
PAVEMENT MANAGEMENT REPORT

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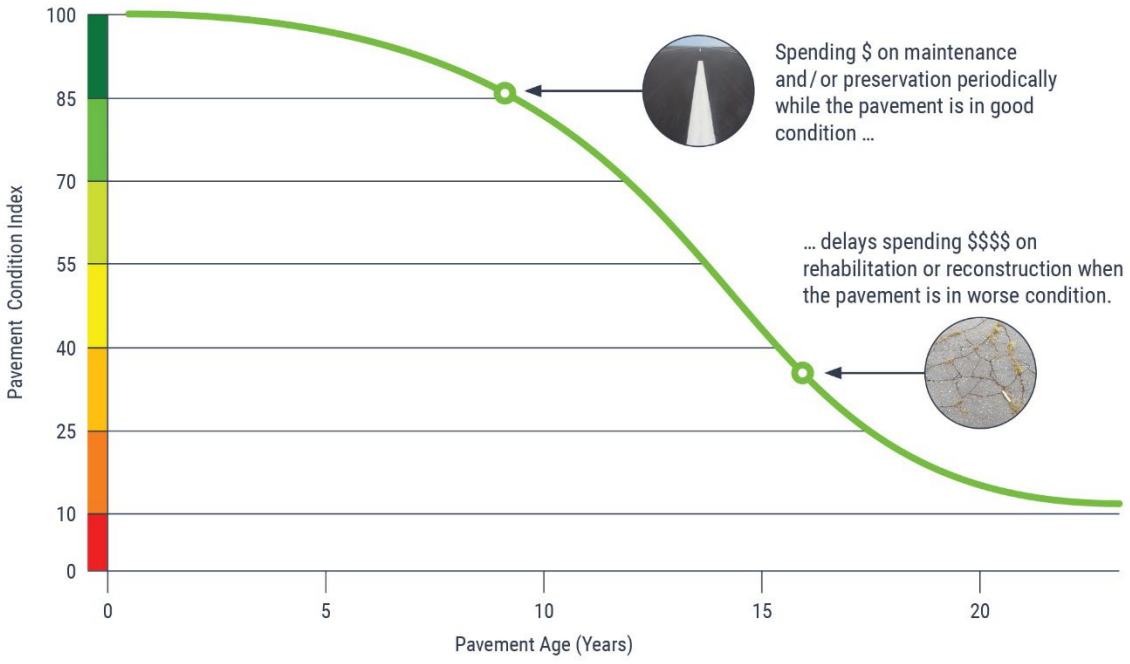
INTRODUCTION

Applied Pavement Technology, Inc. (APTech), with assistance from Robinson Engineering Company Consulting Engineers (Robinson), updated the Airport Pavement Management System (APMS) for the Iowa Department of Transportation, Modal Transportation Bureau (Iowa DOT). The APMS provides a means to monitor the condition of the pavements within the State of Iowa and to proactively plan for their preservation.

As part of this project, pavement conditions at Jefferson Municipal Airport were visually assessed in March 2025 using the Pavement Condition Index (PCI) procedure. During a PCI inspection, the types, severities, and amounts of distress present on the pavement surface are 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 provides an overall measure of condition and an indication of the level of work that will be required to maintain or repair a pavement. The distress information also provides insight into what is causing the pavement to deteriorate, which is the first step in selecting the appropriate repair action to correct the problem.

Programmed into an APMS, PCI data and results are used to determine when preventive maintenance actions (such as crack or joint sealing) are advisable and to identify the most cost-effective time to perform major rehabilitation (such as an overlay or whitetopping). Delaying maintenance and rehabilitation (M&R) until a pavement structure has seriously degraded can cost many times more than if M&R was applied earlier in a pavement's life cycle, as shown in Figure 1. From a safety perspective, pavement distresses, such as cracks and loose debris, may pose risks in terms of the potential for aircraft tire damage and the ability of a pilot to safely control aircraft.

Figure 1. Pavement condition versus cost of repair.



The pavement evaluation results for Jefferson Municipal Airport are presented within this report and can be used by Jefferson Municipal Airport, the Iowa DOT, and the Federal Aviation Administration (FAA) to identify, prioritize, and schedule pavement M&R actions at the airport. In addition to this report, the web-based interactive pavement data visualization tool IDEA, containing the information collected during this project, was updated and may be accessed from the Iowa DOT's website or directly (Iowa APMS IDEA).

PAVEMENT INVENTORY

The project began with a review of the existing inventory information pertaining to the pavements at Jefferson Municipal Airport. The date of original construction, along with the date of any subsequent rehabilitation; the location of completed work; and the type of work undertaken were gathered. The information was used to update the pavement management database and associated maps, as necessary, to account for pavement-related work that had been undertaken since the last time the airport was evaluated in 2021.

The pavement network at Jefferson Municipal Airport was then divided into 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, aprons, and T-hangars are also separate branches.

Each branch was further divided into sections. Traditionally, sections are defined as parts of the branch that share common attributes, such as cross section, date of last construction, traffic level, and performance. Using this approach, if a runway was built in 1968 and then extended in 1984, it would contain two separate sections.

To estimate the overall condition of a pavement section, each section was subdivided into sample units. Portions of these sample units were evaluated during the pavement inspection, and the collected information was extrapolated to predict the overall section condition and quantities of distress.

Approximately 556,600 square feet of pavement were evaluated at Jefferson Municipal Airport, as illustrated in Figure 2. This figure also shows the area-weighted age in years of the pavements at the time of the inspection. Figure 3 provides a map that details how the pavement network was divided into management units and identifies the sample units that were evaluated during the pavement inspection at Jefferson Municipal Airport.

Figure 2. Pavement area by branch use at Jefferson Municipal Airport.

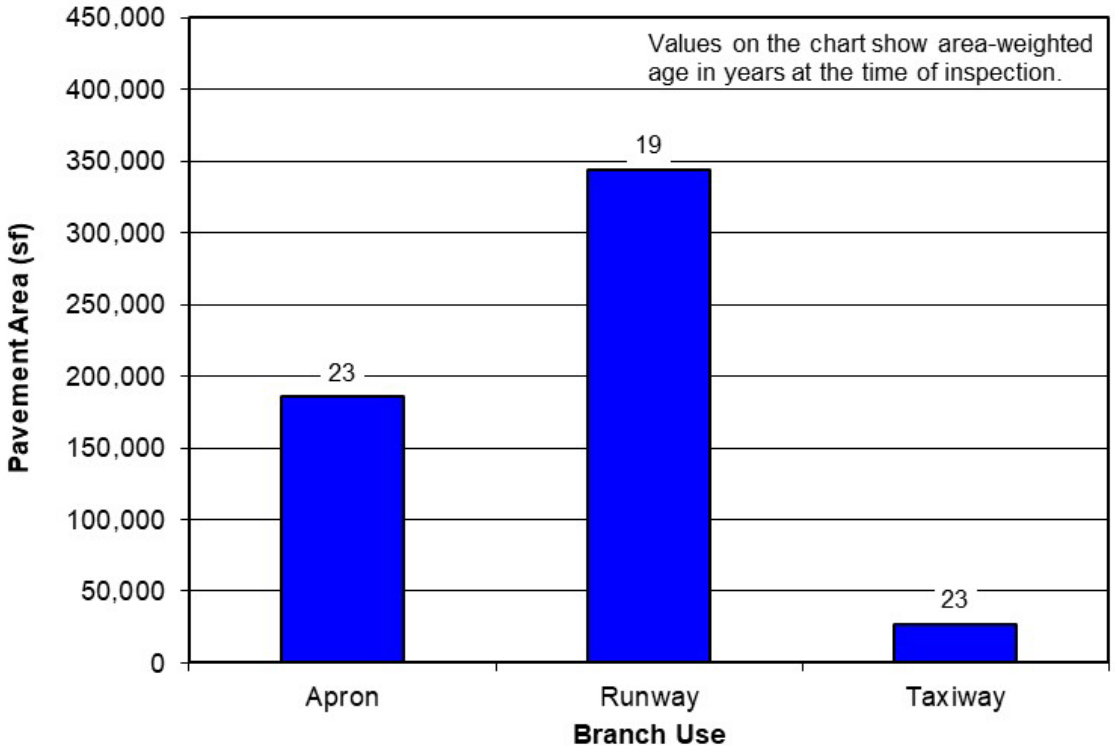
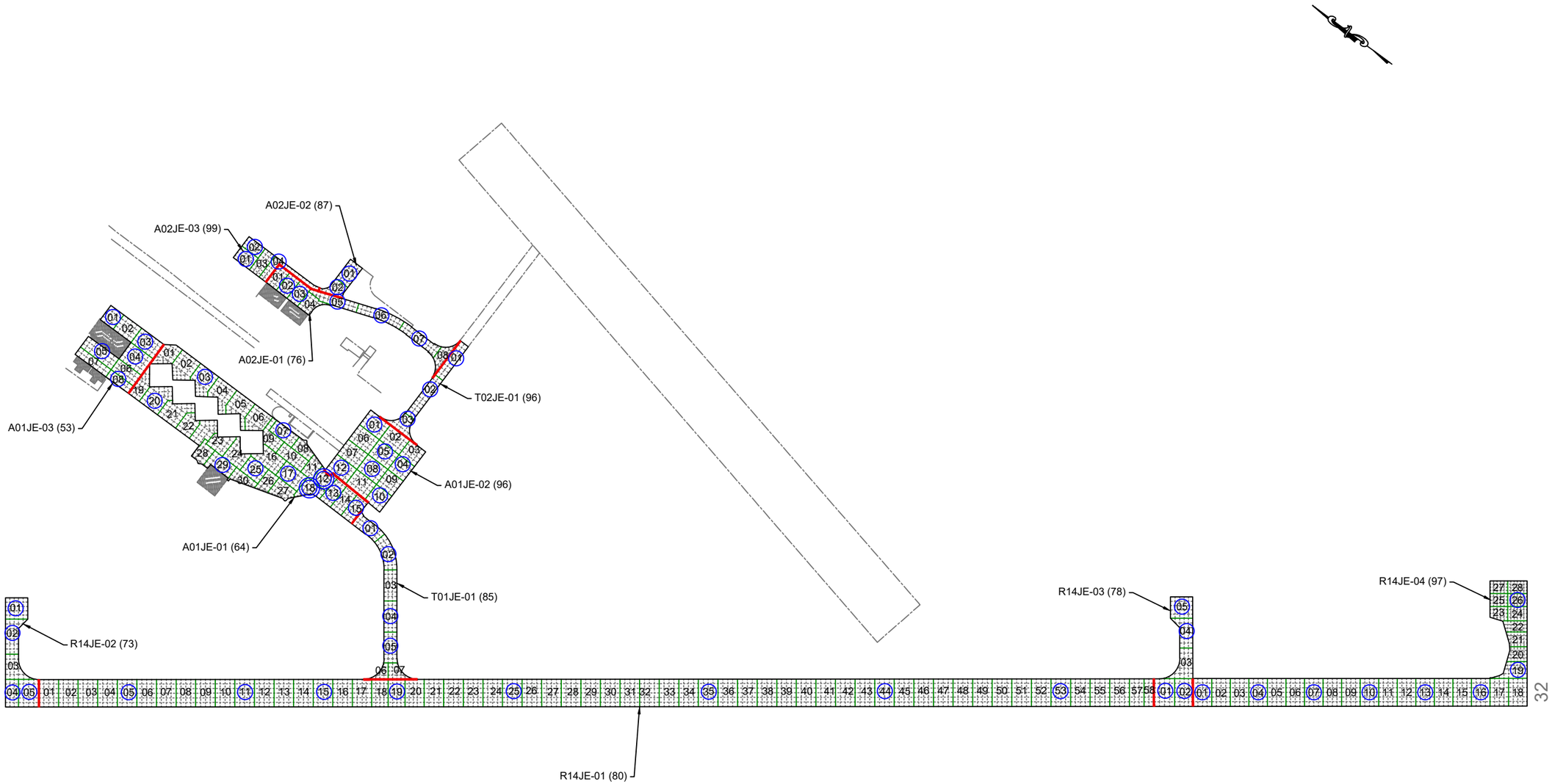


FIGURE 3. NETWORK DEFINITION MAP.



NETWORK DEFINITION LEGEND

R18AL-01 (71)
BRANCH IDENTIFIER
SECTION IDENTIFIER
PCI VALUE

SECTION BREAK LINE
SAMPLE UNIT BREAK LINE
SLAB JOINT
03 SAMPLE UNIT NUMBER
03 SAMPLE UNIT INSPECTED
03 ADDITIONAL SAMPLE UNIT

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AGENCY: Iowa Department of Transportation, Modal Transportation Bureau - Aviation			
LOCATION: Jefferson Municipal Airport, Jefferson, Iowa			
PAGE TITLE: Network Definition Map			
PROJECT DATE: NOV. 2024	CREATION DATE: NOV. 2024	PROJECT MANAGER: LJR	JOB NUMBER: 2021-125-AM03
DRAWING SCALE: 1"=300'	LAST MODIFIED DATE: JUN. 2025	REVISED BY: KEW	DRAWN BY: KEW
FILENAME: Jefferson.dwg		LAYOUT NAME/NUMBER: NET. DEF.	PAGE NUMBER: 5

PAVEMENT EVALUATION

Pavement Evaluation Procedure

APTech visually inspected the pavements at Jefferson Municipal Airport using the PCI procedure described in:

- FAA Advisory Circular 150/5380-6C, *Guidelines and Procedures for Maintenance of Airport Pavements*.
- FAA Advisory Circular 150/5380-7B, *Airport Pavement Management Program (PMP)*.
- ASTM D5340, *Standard Test Method for Airport Pavement Condition Index Surveys*.

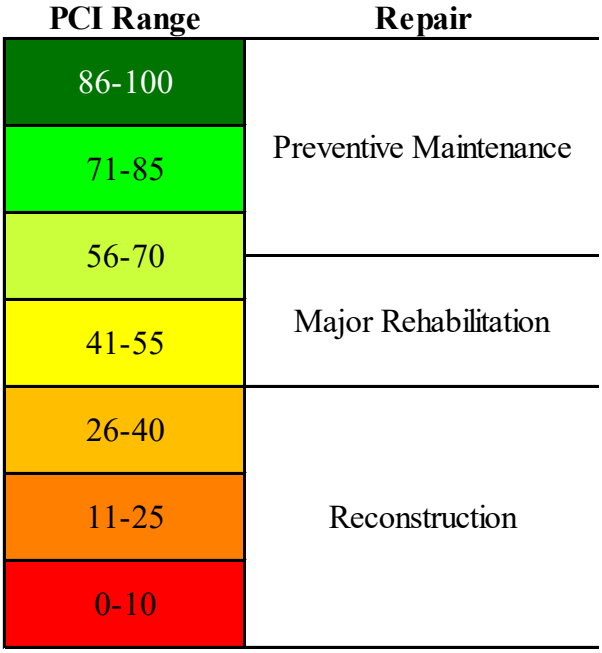
During the PCI inspection, a cursory inspection of the entirety of a pavement section was performed. Sample units identified for more detailed inspection were verified, and adjustments to the selected sample units for inspection were made as needed to ensure an accurate assessment of the pavement's condition. Data pertaining to the types, severities, and quantities of observed pavement distresses were then collected within each sample unit. These data were then used to calculate the composite PCI of each pavement section. The PCI provides a numerical indication of overall pavement condition, as illustrated in Figure 4. The PCI ranges from a value of 0, which represents a pavement in a *Failed* condition, to a value of 100, which represents a pavement in *Excellent* condition with no visible signs of deterioration. It is important to note that factors other than overall PCI need to be considered when identifying the appropriate type of repair, including types of distress present and rate of deterioration. Also, since the PCI does not assess the structural integrity or capacity of the pavement structure, further testing may be needed to validate and refine the treatment strategy.

Figure 4. Visual representation of PCI scale on typical pavement surfaces.

Note: Photographs shown are not specific to Jefferson Municipal Airport.

Generally, pavements with relatively high PCIs that are not exhibiting significant load-related distress will benefit from preventive maintenance actions, such as crack sealing or joint resealing. As the PCI drops, the pavements may require major rehabilitation, such as an overlay or whitetopping. In some situations where the PCI has dropped low enough, reconstruction may be the only viable alternative due to the substantial damage to the pavement structure. Figure 5 illustrates how the appropriate repair type varies with the PCI of a pavement section and provides the corresponding colors used for the maps and charts in this report for each range of PCIs.

Figure 5. PCI versus repair type.



The types of distress identified during the PCI inspection provide insight into the cause of pavement deterioration, which is useful when selecting M&R strategies. Understanding the cause of distress helps in selecting a rehabilitation alternative that corrects the cause and thus eliminates or delays its recurrence. PCI distress types are characterized as:

- Load-related—These distress types are defined as being caused by aircraft or vehicular traffic and may indicate a structural deficiency. Examples of load-related distress include alligator cracking on asphalt-surfaced pavements and corner breaks on portland cement concrete (PCC) pavements.
- Climate/durability-related—These distress types often signify the presence of aged or environmentally susceptible (or both) material and include durability-related issues. Examples of climate/durability-related distress include weathering on asphalt-surfaced pavements, which is climate-related, and durability cracking on PCC pavements, which is durability-related.
- 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 asphalt-surfaced pavements and shrinkage cracking on PCC pavements.

Appendix A identifies the distress types considered during a PCI inspection and describes the likely cause of each distress type. It should be noted that a PCI is based on visual signs of pavement deterioration and does not provide a measure of structural capacity.

Pavement Evaluation Results

The pavements at Jefferson Municipal Airport were inspected in March 2025. The 2025 area-weighted condition of Jefferson Municipal Airport is 80, with conditions ranging from 53 to 99 (on a scale of 0 [failed] to 100 [excellent]). During the previous pavement inspection in 2021, the area-weighted PCI of the airport was 83.

Figure 6 summarizes the overall condition of the pavements at Jefferson Municipal Airport, and Figure 7 presents area-weighted condition (average PCI adjusted to account for the relative size of the pavement sections) by branch use. Figure 8 is a map that displays the condition of the evaluated pavements. Table 1 summarizes the results of the pavement evaluation. Appendix B presents photographs taken during the PCI inspection, and Appendix C contains detailed information on the distress types observed during the visual survey. Appendix D includes detailed work history information that was collected during the record review process.

Figure 6. Pavement area by PCI range at Jefferson Municipal Airport.

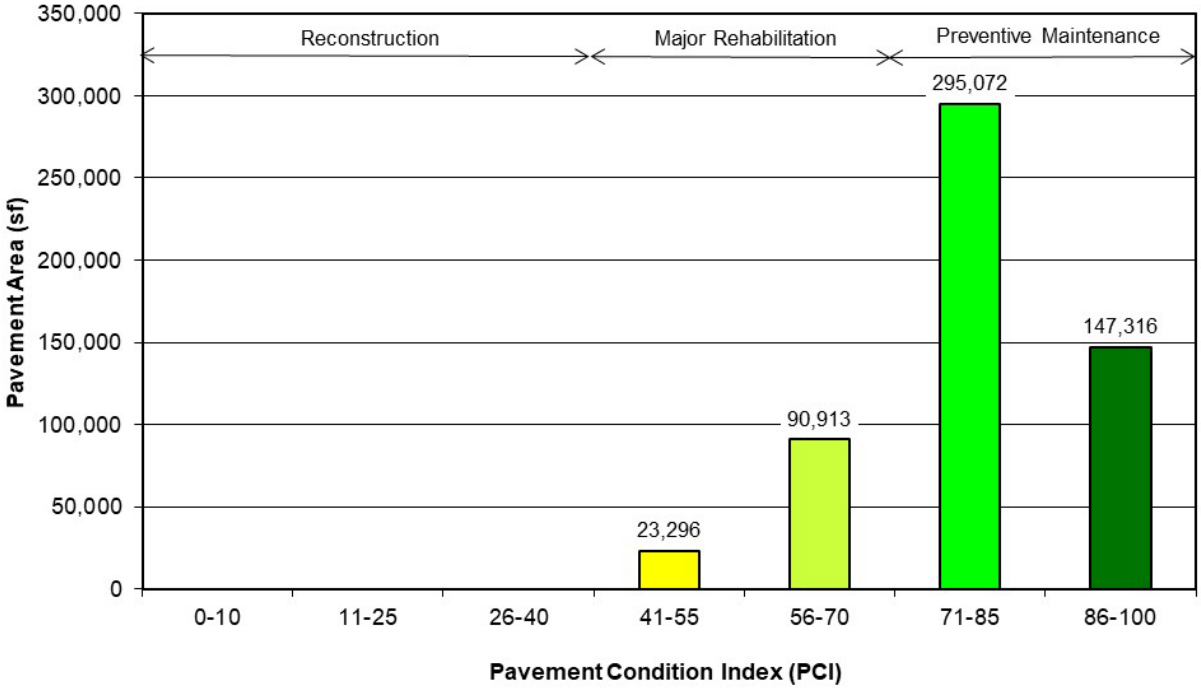


Figure 7. Area-weighted PCI by branch use at Jefferson Municipal Airport.

(Values on chart are area weighted.)

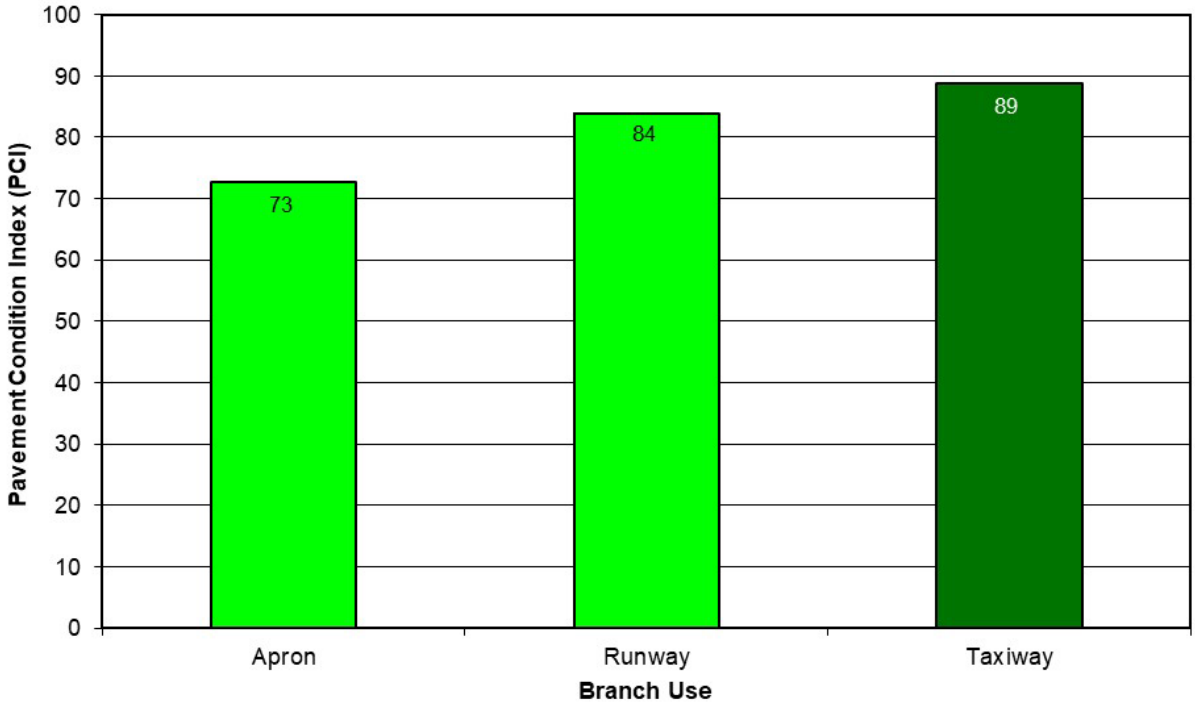
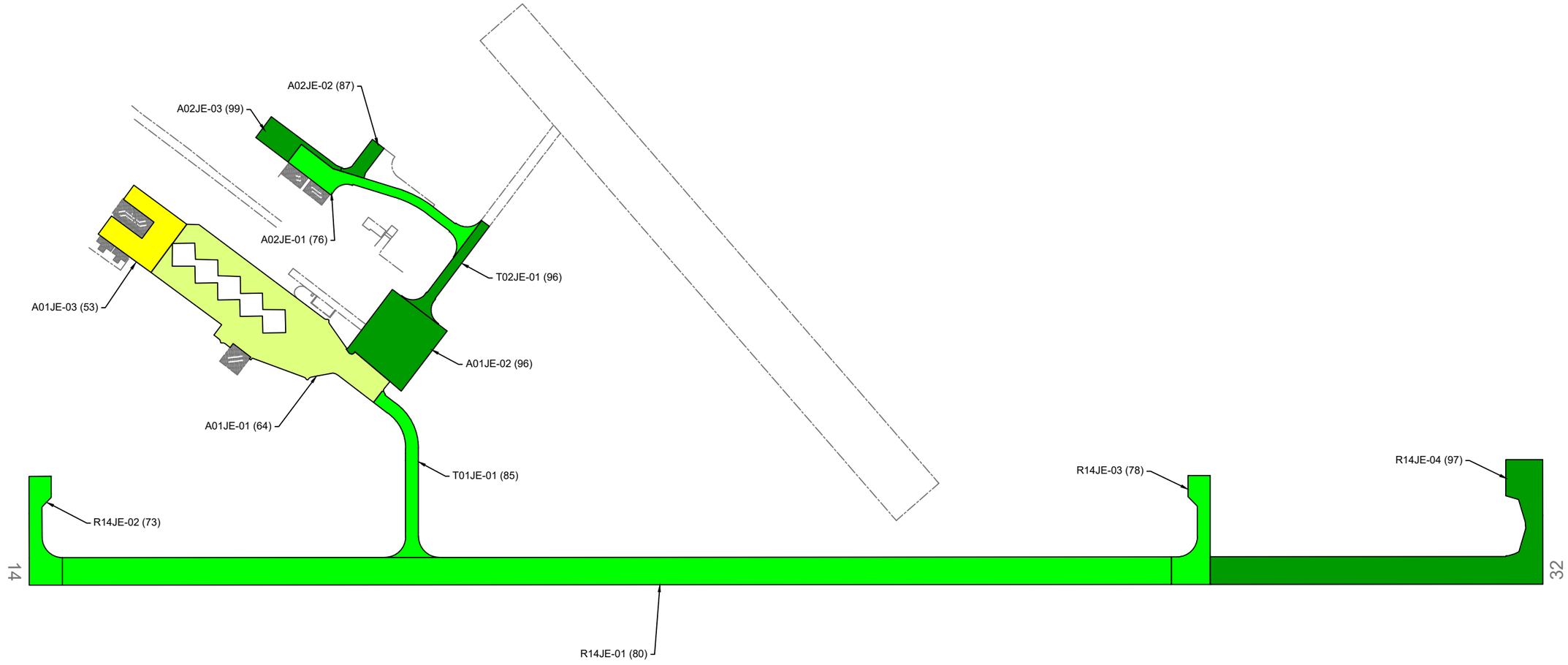


FIGURE 8. PCI MAP.



LEGEND

RW927GL-10 (74)

BRANCH IDENTIFIER
SECTION IDENTIFIER
PCI VALUE
SECTION BREAK LINE

PAVEMENT CONDITION INDEX

PCI

86-100
71-85
56-70
41-55
26-40
11-25
0-10

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AGENCY: Iowa Department of Transportation
Modal Transportation Bureau - Aviation

LOCATION: Jefferson Municipal Airport
Jefferson, Iowa

PAGE TITLE: 2025 Pavement Condition Index Map

PROJECT DATE:	CREATION DATE:	PROJECT MANAGER:	JOB NUMBER:
NOV. 2024	NOV. 2024	LJR	2021-125-AM03
DRAWING SCALE:	LAST MODIFIED DATE:	REVISED BY:	DRAWN BY:
1"=300'	JUN. 2025	KEW	KEW
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Jefferson.dwg		PCI	10

Table 1. 2025 pavement evaluation results.

Branch	Section	Surface Type	Section Area (sf)	LCD	2025 PCI	% Distress Due to Load	% Distress Due to Climate/ Durability	% Distress Due to Other	Type of Distress
A01JE	01	PCC	90,913	6/1/2001	64	51	28	21	Corner Break, Corner Spalling, Faulting, Joint Spalling, Joint Seal Damage, Large Patch, LTD Cracking, Shattered Slab, Shrinkage Cracking, Small Patch
A01JE	02	PCC	37,530	12/2/2005	96	18	44	38	Corner Break, Faulting, Joint Seal Damage
A01JE	03	PCC	23,296	1/1/1994	53	92	3	5	Corner Break, Corner Spalling, Faulting, Joint Spalling, Joint Seal Damage, LTD Cracking, Shattered Slab, Shrinkage Cracking
A02JE	01	PCC	20,178	6/1/2001	76	59	23	18	Corner Break, Corner Spalling, Faulting, Joint Spalling, Joint Seal Damage, LTD Cracking, Small Patch
A02JE	02	PCC	4,524	7/28/2010	87	11	40	49	Faulting, Joint Seal Damage, LTD Cracking
A02JE	03	PCC	9,232	5/3/2024	99	0	0	100	Joint Spalling
R14JE	01	PCC	222,373	6/3/2001	80	37	45	18	Faulting, Joint Seal Damage, LTD Cracking
R14JE	02	PCC	16,783	6/3/2001	73	54	32	14	Corner Break, Corner Spalling, Faulting, Joint Spalling, Joint Seal Damage, LTD Cracking, Shattered Slab
R14JE	03	PCC	17,893	6/3/2001	78	12	44	44	Corner Spalling, Faulting, Joint Spalling, Joint Seal Damage, LTD Cracking, Shrinkage Cracking
R14JE	04	PCC	87,054	9/3/2020	97	35	65	0	Joint Seal Damage, LTD Cracking
T01JE	01	PCC	17,845	6/1/2000	85	13	73	14	Corner Break, Faulting, Joint Seal Damage, LTD Cracking
T02JE	01	PCC	8,976	12/2/2005	96	42	45	13	Joint Spalling, Joint Seal Damage, LTD Cracking

Table 1. 2025 pavement evaluation results (continued).

Table Notes:

1. See Figure 3 for the location of the branch and section.
2. Surface Type: AC = asphalt cement concrete; AAC = asphalt overlay on AC; PCC = portland cement concrete; APC = asphalt overlay on PCC.
3. LCD = last construction date.
4. Distress due to load includes distress types that are attributed to a structural deficiency in the pavement, such as alligator cracking or rutting on asphalt-surfaced pavements or shattered slabs on PCC pavements.
5. Distress due to climate or durability includes distress types that are attributed to either the aging of the pavement and the effects of the environment (such as weathering, raveling, or block cracking on asphalt-surfaced pavements) or to a materials-related problem (such as durability cracking or alkali-silica reaction [ASR] on PCC pavements). If materials-related distresses were recorded during the inspection, further laboratory testing is required to definitively determine the type present.
6. Distress due to other refers to distress types that are not attributed to one factor but rather may be caused by a combination of factors.
7. Distress types are defined by ASTM D5340. L&T cracking = longitudinal and transverse cracking; LTD cracking = longitudinal, transverse, and diagonal cracking; ASR = alkali-silica reaction.

Inspection Comments

Jefferson Municipal Airport was inspected on March 14, 2025. There were 12 pavement sections defined during the inspection.

Runway

Runway 14/32 contained four sections. Section 01 contained most of the runway. Areas of low-severity faulting and low- and medium-severity longitudinal, transverse, and diagonal (LTD) cracking were recorded along with high-severity joint seal damage throughout. In Section 02, low-severity corner break and faulting, medium-severity corner spalling and shattered slab, high-severity joint seal damage, and low- and medium-severity joint spalling and LTD cracking were observed. Low-severity corner spalling, faulting and LTD cracking; high-severity joint seal damage; all severities of joint spalling; and shrinkage cracking were noted in Section 03. Small quantities of low-severity LTD cracking were identified in Section 04 along with low-severity joint seal damage that was observed throughout.

Taxiways

Taxiway 01 was defined by one section with high-severity joint seal damage and low-severity corner break, faulting, and LTD cracking.

Taxiway 02 consisted of one section. Low-severity joint seal damage, joint spalling, and LTD cracking were observed in Section 01.

Aprons

Apron 01 contained three sections. Various distresses were recorded in Section 01 including low- and medium-severity corner break, LTD cracking, joint spalling, shattered slab, small patching and corner spalling; low-severity faulting and large patching; all severities of joint seal damage; and shrinkage cracking. Atypical areas with high-severity joint spalling were inspected as additional sample units according to ASTM D5340. Section 02 contained low-severity corner break, faulting, and joint seal damage during the inspection. In Section 03, low- and medium-severity corner break, corner spalling, shattered slab, and LTD cracking; low-severity faulting, joint seal damage, and joint spalling; and shrinkage cracking were identified.

Apron 02 consisted of three sections. Section 01 was identified with medium-severity corner break and small patching; low-severity corner spalling and faulting; and low- and medium-severity joint seal damage, joint spalling, and LTD cracking. In Section 02, low-severity LTD cracking and low- and medium-severity faulting and joint seal damage were observed. Section 03 was recently constructed and in *Excellent* condition. Only low-severity joint spalling was noted.

PAVEMENT MAINTENANCE AND REHABILITATION PROGRAM

Using the information collected during the pavement inspection, the PAVER pavement management software was used to develop a 5-year M&R program for Jefferson Municipal Airport. In addition, a 1-year plan for localized preventive maintenance (such as crack sealing and patching) was prepared.

Analysis Parameters

Critical PCIs

PAVER uses critical PCIs to determine whether localized preventive maintenance or major rehabilitation is the appropriate repair action. Above the critical PCI, localized preventive maintenance activities are recommended. Below the critical PCI, major rehabilitation actions, such as an overlay or reconstruction, are recommended. The Iowa DOT set the critical PCIs at 65 for runways, 60 for taxiways, and 55 for aprons and T-hangars.

Localized Preventive Maintenance Policies and Unit Costs

Localized preventive maintenance policies were developed for asphalt-surfaced and PCC pavements. These policies, shown in Appendix E, identify the localized preventive maintenance actions that the Iowa DOT considered appropriate to correct the different distress types and severities. The Iowa DOT provided unit costs for each of the localized preventive maintenance actions included in these policies, and these costs are detailed in Appendix E. Please note that this information is of a general nature for the entire State. The localized preventive maintenance policies and unit costs may require adjustments to reflect specific conditions at Jefferson Municipal Airport.

Major Rehabilitation Unit Costs

PAVER estimates the cost of major rehabilitation based on the predicted PCI of the pavement section. The Iowa DOT provided the costs for major rehabilitation, and they are presented in Appendix E. If major rehabilitation is recommended in the 5-year program, further engineering investigation will be needed to identify the most appropriate rehabilitation action and to estimate the cost of such work more accurately.

Budget and Inflation Rate

An unlimited budget with a start date of July 1, 2025, and an inflation rate of 2.3 percent was used during the analysis.

Analysis Approach

The 5-year M&R program was prepared with the goal of maintaining the pavements above established critical PCIs. During this analysis, major rehabilitation was recommended for pavements in the year they dropped below their critical PCI. For the first year (2025) of the analysis only, a localized preventive maintenance plan was developed for those pavement sections that were above their critical PCI. If major rehabilitation was triggered for a section in 2026 or 2027, then localized preventive maintenance was not recommended for 2025. While localized preventive maintenance should be an annual undertaking at Jefferson Municipal Airport, it is not possible to accurately predict the propagation of cracking and other distress types. Therefore, the airport should budget for maintenance every year and can use the 2025 localized preventive maintenance plan as a baseline for that work. As the pavements age, it can be assumed that the amount of localized preventive maintenance required will increase.

Analysis Results

A summary of the M&R program for Jefferson Municipal Airport is presented in Table 2. Detailed information on the recommended localized preventive maintenance plan for 2025 is provided in Appendix F.

Table 2. 5-year M&R program under an unlimited funding analysis scenario.

Year	Branch	Section	Surface Type	Type of Repair	Estimated Cost
2025	A01JE	01	PCC	Preventive Maintenance	$55,903
2025	A01JE	02	PCC	Preventive Maintenance	$53
2025	A01JE	03	PCC	Major Rehabilitation	$207,791
2025	A02JE	01	PCC	Preventive Maintenance	$4,448
2025	A02JE	02	PCC	Preventive Maintenance	$921
2025	R14JE	01	PCC	Preventive Maintenance	$105,388
2025	R14JE	02	PCC	Preventive Maintenance	$12,374
2025	R14JE	03	PCC	Preventive Maintenance	$7,973
2025	T01JE	01	PCC	Preventive Maintenance	$8,237
				Total Estimated Cost:	**$403,000**

Table Notes:

1. See Figure 3 for the location of the branch and section.
2. Surface Type: AC = asphalt cement concrete; AAC = asphalt overlay on AC; PCC = portland cement concrete; APC = asphalt overlay on PCC.
3. Type of Repair: Major Rehabilitation, such as pavement reconstruction or an overlay; Localized Preventive Maintenance, such as crack sealing or patching.
4. The estimated costs provided are of a general nature for the entire State and may require adjustments to reflect specific conditions at Jefferson Municipal Airport.

The recommendations made in this report are based on a broad network-level analysis and meant to provide Jefferson Municipal Airport with an indication of the type of pavement-related work required during the next 5 years. Further engineering investigation may be necessary to identify which repair action is most appropriate. In addition, the cost estimates provided are based on overall unit costs for the entire State, and Jefferson Municipal Airport should adjust the plan to reflect local costs.

Because an unlimited budget was used in the analysis, it is possible that the pavement repair program may need to be adjusted to consider economic or operational constraints. The identification of a project need does not necessarily mean that State or Federal funding will be available in the year it is indicated. It is important to remember that regardless of the recommendations presented within this report, Jefferson Municipal Airport is responsible for repairing pavements where existing conditions pose a hazard to safe operations.

General Maintenance Recommendations

In addition to the specific maintenance actions presented in Appendix F, it is recommended that the following strategies be considered for prolonging pavement life:

1. Regularly inspect all safety areas of the airport and document all inspection activity. A sample form that can be used to perform these inspections is provided in Table 3 of this report.

2. Provide a method of tracking all maintenance activities that occur because of these inspections. This documentation needs to be reported to the FAA and the Iowa DOT. This information is used to update the APMS records and is required to remain in compliance with Public Law 103-305 (see the next section of this report for further information on this law).
3. Conduct an aggressive campaign against weed growth through timely herbicide applications and mowing programs of the safety areas. Vegetation growth in pavement cracks is destructive and significantly increases the rate of pavement deterioration.
4. Implement a periodic crack and joint sealing program. Keeping water and debris out of the pavement system by sealing cracks and joints is a proven and cost-effective method for extending the life of the pavement system.
5. Ensure all edges of pavement maintain the required 1.5-inch lip. This enables the water to drain away from the pavement system.
6. Closely monitor the movement of heavy equipment (particularly farming, construction, mowing, and fueling equipment) to make sure it is only operating on pavements that are designed to accommodate heavy loads. Failure to restrict heavy equipment to appropriate areas may result in the premature failure of airport pavements.

FAA Requirements (Public Law 103-305)

Because Jefferson Municipal Airport is in the National Plan of Integrated Airport Systems (NPIAS), the airport sponsor is required to keep the airport in a viable operating condition. This includes maintaining airport pavements in accordance with Public Law 103-305. Public Law 103-305 states that after January 1, 1995, NPIAS 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 Federal funding of pavement replacement or reconstruction projects. To be in full compliance with the Federal law, the PMMS must include the following components at minimum: pavement inventory, pavement inspections, record keeping, information retrieval, and program funding.

This report serves as a complete pavement inventory and detailed inspection. To remain in compliance with the law, Jefferson Municipal Airport will also need to undertake monthly drive-by inspections of pavement conditions and track pavement-related maintenance activities.

FAA Advisory Circular 150/5380-7B provides detailed guidance pertaining to the requirements for an acceptable pavement management program. Appendix A of the FAA Advisory Circular 150/5380-7B outlines what needs to be included in a PMP to remain in compliance with this law and Grant Assurance #11. The following is a copy of this appendix, along with instructions for supplementing this report so that all requirements are met. Note that the italicized text is a direct quotation from the FAA Advisory Circular.

FAA Advisory Circular 150/5830-7B, Appendix A. Pavement Management Program

A-1.0. *An effective PMP specifies the procedures to follow to assure that proper preventative and remedial pavement maintenance is performed. The program should identify funding or anticipated funding and other resources available to provide remedial and preventive maintenance activities. An airport sponsor may use any format deemed appropriate, but the program needs to, as a minimum, include the following:*

A-1.1. Pavement Inventory. *The following must be depicted:*

a. Identification of all runways, taxiways, and aprons with pavement broken down into sections each having similar properties.

The network definition map provided in Figure 3 of this report shows the location of all runways, taxiways, and aprons at Jefferson Municipal Airport. If any new pavements are constructed or any pavement areas are permanently closed, this map must be updated. Project plans should be submitted to the Iowa DOT after project completion.

b. *Dimensions of pavement sections.*

   The dimensions of all runways, taxiways, and aprons are stored in the PAVER database. Appendix C provides information on length, width, and area. In addition, the network definition map provided in Figure 3 is drawn to scale. Any changes to pavement dimensions must be recorded.

c. *Type of pavement surface.*

   The type of pavement for each section at Jefferson Municipal Airport is listed in Table 1 of this report and is also stored in the PAVER database. Any changes to the pavement type (through an overlay or reconstruction) must be recorded.

d. *Year of construction and/or most recent major rehabilitation.*

   Dates for pavement construction, rehabilitation, or reconstruction must be recorded. The current pavement history for Jefferson Municipal Airport is provided in Appendix D of this report.

e. *Whether AIP [Airport Improvement Program] or PFC [Passenger Facility Charge] funds were used to construct, reconstruct, or repair the pavement.*

   Funding sources for all pavement projects should be recorded.

A-1.2. PMP Pavement Inspection Schedule. *Airports must perform a detailed inspection of airfield pavements at least once a year for the PMP. If a pavement condition index (PCI) survey is performed, as set forth in ASTM D5340, "Standard Test Method for Airport Pavement Condition Index Surveys," the frequency of the detailed inspection by PCI surveys may be extended to three years. Less comprehensive routine daily, weekly, and monthly maintenance inspections required for operations should be addressed.*

This report consists of a detailed inspection that will extend the inspection period to 3 years. It is the airport sponsor's responsibility to perform monthly drive-by inspections. A sample pavement inspection report form is provided in Table 3 of this report.

A-1.3. Record Keeping. *The airport must record and keep on file complete information about all detailed inspections and maintenance performed until the pavement system is replaced. The types of distress, their locations, and remedial action, scheduled or performed, must be documented. The minimum information recorded includes:*

a. *Inspection date*
b. *Location*
c. *Distress types*
d. *Maintenance scheduled or performed*

Items A through C are satisfied by this inspection report. Item D is the responsibility of the airport, as is record keeping of the monthly drive-by inspections.

A-1.4. Information Retrieval. *An airport sponsor may use any form of record keeping it deems appropriate so long as the information and records from the pavement survey can generate required reports, as necessary.*

Keep this report, monthly drive-by inspection reports, construction updates, and all records of maintenance activities in a readily accessible location so that they can be easily retrieved as requested by the FAA.

Table 3. Pavement inspection report.

Inspected By: _____

Date Inspected: _____

Branch	Section	Distress Description/Dimensions/Severity/ Recommended Action	Description of Repair	Date Performed	Cost	Funding Source
A01JE	01					
A01JE	02					
A01JE	03					
A02JE	01					
A02JE	02					
A02JE	03					

Table 3. Pavement inspection report (continued).

Inspected By: _____

Date Inspected: _____

Branch	Section	Distress Description/Dimensions/Severity/ Recommended Action	Description of Repair	Date Performed	Cost	Funding Source
R14JE	01					
R14JE	02					
R14JE	03					
R14JE	04					
T01JE	01					
T02JE	01					

Table Note: See Figure 3 for the location of the branch and section.

SUMMARY

This report documents the results of the pavement evaluation conducted at Jefferson Municipal Airport. A visual inspection of the pavements in 2025 found that the overall condition of the pavement network is a PCI of 80. A 5-year pavement repair program, shown in Table 2, was generated for Jefferson Municipal Airport, which revealed that approximately $403,000 needs to be expended on M&R. Jefferson Municipal Airport should utilize these study results to assist in planning for future maintenance needs as part of the airport CIP planning process.

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APPENDIX A

CAUSE OF DISTRESS TABLES

Table A-1. Cause of pavement distress, asphalt-surfaced pavements (USACE 2009a).

Distress Type	Probable Cause of Distress
Alligator Cracking	Fatigue failure of the asphalt surface under repeated traffic loading.
Bleeding	Excessive amounts of asphalt cement or tars in the mix or low air void content, or both.
Block Cracking	Shrinkage of the asphalt and daily temperature cycling; it is not load associated.
Corrugation	Traffic action combined with an unstable pavement layer.
Depression	Settlement of the foundation soil or can be “built up” during construction.
Jet-Blast Erosion	Bituminous binder has been burned or carbonized.
Joint Reflection Cracking	Movement of the concrete slab beneath the asphalt surface due to thermal and moisture changes.
L&T Cracking	Cracks may be caused by (1) a poorly constructed paving lane joint, (2) shrinkage of the asphalt surface due to low temperatures or hardening of the asphalt, or (3) reflective cracking caused by cracks in an underlying PCC slab.
Oil Spillage	Deterioration or softening of the pavement surface caused by the spilling of oil, fuel, or other solvents.
Patching	N/A
Polished Aggregate	Repeated traffic applications.
Raveling	Asphalt binder may have hardened significantly, causing coarse aggregate pieces to dislodge.
Rutting	Usually caused by consolidation or lateral movement of the materials due to traffic loads.
Shoving	Where PCC pavements adjoin flexible pavements, PCC “growth” may shove the asphalt pavement.
Slippage Cracking	Low-strength surface mix or poor bond between the surface and the next layer of the pavement structure.
Swelling	Usually caused by frost action or by swelling soil.
Weathering	Asphalt binder and/or fine aggregate may wear away as the pavement ages and hardens.

Table A-2. Cause of pavement distress, PCC pavements (USACE 2009b).

Distress Type	Probable Cause of Distress
ASR	Chemical reaction of alkalis in the cement with certain reactive silica minerals. ASR may be accelerated by the use of chemical pavement deicers.
Blowup	Incompressible materials in the joints.
Corner Break	Load repetition combined with loss of support and curling stresses.
Durability Cracking	Concrete's inability to withstand environmental factors, such as freeze-thaw cycles.
Faulting	Upheaval or consolidation.
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 the joint.
LTD Cracking	Combination of load repetition, curling stresses, and shrinkage stresses.
Patching (Small and Large)	N/A
Popouts	Freeze-thaw action in combination with expansive aggregates.
Pumping	Poor drainage, poor joint sealant.
Scaling	Over finishing of concrete, deicing salts, improper construction, freeze-thaw cycles, and poor aggregate.
Shattered Slab	Load repetition.
Shrinkage Cracking	Setting and curing of the concrete.
Spalling (Joint and Corner)	Excessive stresses at the joint caused by infiltration of incompressible materials or traffic loads; weak concrete at the joint combined with traffic loads.

APPENDIX B

INSPECTION PHOTOGRAPHS

A01JE-01. Overview.

A01JE-01. Faulting (Sample Unit No. 20).

A01JE-01. Joint Seal Damage (Sample Unit No. 15) (1).

A01JE-01. Joint Seal Damage (Sample Unit No. 15) (2).

A01JE-01. Joint Spalling (Additional Sample Unit No. 12).

A01JE-01. Joint Spalling (Additional Sample Unit No. 18).

A01JE-01. Large Patching (Sample Unit No. 03).

A01JE-02. Overview.

A01JE-02. Corner Break (Sample Unit No. 12).

A01JE-02. Joint Seal Damage (Sample Unit No. 01).

A01JE-03. Overview.

A01JE-03. Corner Break (Sample Unit No. 05).

A01JE-03. Joint Seal Damage (Sample Unit No. 01).

A01JE-03. Shattered Slab (Sample Unit No. 03).

A02JE-01. Overview.

A02JE-01. Faulting (Sample Unit No. 05).

A02JE-01. LTD Cracking (Sample Unit No. 07).

A02JE-02. Overview.

A02JE-02. Faulting (Sample Unit No. 02).

A02JE-02. Joint Seal Damage (Sample Unit No. 02).

A02JE-03. Overview.

A02JE-03. Joint Spalling (Sample Unit No. 04).

R14JE-01. Overview (1).

R14JE-01. Overview (2).

R14JE-01. Faulting (Sample Unit No. 11).

R14JE-01. Joint Seal Damage (Sample Unit No. 44).

R14JE-01. LTD Cracking (Sample Unit No. 05).

R14JE-02. Overview.

R14JE-02. Faulting (Sample Unit No. 04).

R14JE-02. Shattered Slab (Sample Unit No. 04).

R14JE-03. Overview.

R14JE-03. Joint Seal Damage (Sample Unit No. 02).

R14JE-03. Joint Spalling (Sample Unit No. 05).

R14JE-03. LTD Cracking (Sample Unit No. 02).

R14JE-04. Overview.

R14JE-04. Joint Seal Damage (Sample Unit No. 04).

R14JE-04. Joint Seal Damage (Sample Unit No. 10).

R14JE-04. LTD Cracking (Sample Unit No. 19).

T01JE-01. Overview.

T01JE-01. Joint Seal Damage (Sample Unit No. 02).

T01JE-01. LTD Cracking (Sample Unit No. 05).

T02JE-01. Overview.

T02JE-01. Joint Seal Damage (Sample Unit No. 01).

T02JE-01. LTD Cracking (Sample Unit No. 03).

APPENDIX C

INSPECTION REPORT

RE-INSPECTION REPORT
JEFFERSON MUNICIPAL AIRPORT

Pavement Database: IA 2024 | Generate Date: 8/11/2025

Network ID: EFW |

Branch - Section ID: A01JE - 001

Branch Name: APRON 01 | Use: APRON

LCD: 6/1/2001
Surface Type: PCC
Rank: P
Section Area (sf): 90,913.00
Length (ft): 583.00
Width (ft): 183.00
From: HANGERS
To: TAXIWAY 01

PCI Family: IowaPCCAP_NC_BasicLocal

Slabs: 582
Slab Length (ft): 12.50
Slab Width (ft): 12.50
Joint Length (ft): 13,893.35

Section Comments:

Last Insp Date: 3/14/2025
PCI: 64
Total Samples: 30
Surveyed: 10

Inspection Comments:

Sample Number: 03

Sample Type: R
Sample PCI: 51
Sample Area (Slabs): 26.00

Sample Comments:

62 CORNER BREAK	M	1.00	Slabs
63 LINEAR CR	M	5.00	Slabs
65 JT SEAL DMG	L	26.00	Slabs
66 SMALL PATCH	L	2.00	Slabs
67 LARGE PATCH	L	6.00	Slabs
74 JOINT SPALL	M	2.00	Slabs
75 CORNER SPALL	M	1.00	Slabs

Sample Number: 07

Sample Type: R
Sample PCI: 47
Sample Area (Slabs): 24.00

Sample Comments:

63 LINEAR CR	L	1.00	Slabs
63 LINEAR CR	M	8.00	Slabs
65 JT SEAL DMG	L	24.00	Slabs
66 SMALL PATCH	L	1.00	Slabs
67 LARGE PATCH	L	1.00	Slabs
72 SHAT. SLAB	L	1.00	Slabs
75 CORNER SPALL	L	2.00	Slabs

Sample Number: 12

Sample Type: A
Sample PCI: 65
Sample Area (Slabs): 19.00

Sample Comments:

63 LINEAR CR	L	1.00	Slabs
65 JT SEAL DMG	L	19.00	Slabs
74 JOINT SPALL	H	2.00	Slabs
74 JOINT SPALL	L	1.00	Slabs
74 JOINT SPALL	M	3.00	Slabs

RE-INSPECTION REPORT
JEFFERSON MUNICIPAL AIRPORT

Sample Number: 13

Sample Type: R
Sample PCI: 77
Sample Area (Slabs): 21.00
Sample Comments:

65 JT SEAL DMG	H	21.00	Slabs
71 FAULTING	L	2.00	Slabs
74 JOINT SPALL	M	1.00	Slabs
75 CORNER SPALL	L	1.00	Slabs

Sample Number: 15

Sample Type: R
Sample PCI: 85
Sample Area (Slabs): 21.00
Sample Comments:

65 JT SEAL DMG	H	21.00	Slabs
74 JOINT SPALL	L	2.00	Slabs

Sample Number: 17

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 14.00
Sample Comments:

65 JT SEAL DMG	L	14.00	Slabs

Sample Number: 18

Sample Type: A
Sample PCI: 64
Sample Area (Slabs): 21.00
Sample Comments:

62 CORNER BREAK	L	1.00	Slabs
63 LINEAR CR	L	2.00	Slabs
65 JT SEAL DMG	L	21.00	Slabs
66 SMALL PATCH	M	2.00	Slabs
73 SHRINKAGE CR	N	1.00	Slabs
73 SHRINKAGE CR	N	1.00	Slabs
74 JOINT SPALL	H	1.00	Slabs
74 JOINT SPALL	M	1.00	Slabs
75 CORNER SPALL	L	1.00	Slabs

Sample Number: 20

Sample Type: R
Sample PCI: 31
Sample Area (Slabs): 26.00
Sample Comments:

62 CORNER BREAK	L	1.00	Slabs
62 CORNER BREAK	M	1.00	Slabs
63 LINEAR CR	L	4.00	Slabs
63 LINEAR CR	M	5.00	Slabs
65 JT SEAL DMG	M	26.00	Slabs
71 FAULTING	L	4.00	Slabs
72 SHAT. SLAB	M	3.00	Slabs
73 SHRINKAGE CR	N	1.00	Slabs
74 JOINT SPALL	L	1.00	Slabs

RE-INSPECTION REPORT
JEFFERSON MUNICIPAL AIRPORT

Sample Number: 25

Sample Type: R
Sample PCI: 88
Sample Area (Slabs): 20.00

Sample Comments:

63 LINEAR CR	L	2.00	Slabs
65 JT SEAL DMG	L	20.00	Slabs
74 JOINT SPALL	L	1.00	Slabs

Sample Number: 29

Sample Type: R
Sample PCI: 65
Sample Area (Slabs): 20.00

Sample Comments:

63 LINEAR CR	L	1.00	Slabs
63 LINEAR CR	M	2.00	Slabs
65 JT SEAL DMG	L	20.00	Slabs
74 JOINT SPALL	L	3.00	Slabs
75 CORNER SPALL	M	2.00	Slabs

RE-INSPECTION REPORT
JEFFERSON MUNICIPAL AIRPORT

Branch - Section ID: A01JE - 002

Branch Name: APRON 01 Use: APRON

LCD: 12/2/2005
Surface Type: PCC
Rank: P
Section Area (sf): 37,530.00
Length (ft): 200.00
Width (ft): 185.00
From: A01JE-01
To: T02JE-01

PCI Family: IowaPCCAP_NC_BasicLocal

Slabs: 227
Slab Length (ft): 12.50
Slab Width (ft): 13.20
Joint Length (ft): 5,455.07

Section Comments:

Last Insp Date: 3/14/2025
PCI: 96
Total Samples: 12
Surveyed: 6

Inspection Comments:

Sample Number: 01

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 20.00

Sample Comments:

65 JT SEAL DMG	L	20.00	Slabs

Sample Number: 04

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 16.00

Sample Comments:

65 JT SEAL DMG	L	16.00	Slabs

Sample Number: 05

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 20.00

Sample Comments:

65 JT SEAL DMG	L	20.00	Slabs

Sample Number: 08

Sample Type: R
Sample PCI: 90
Sample Area (Slabs): 20.00

Sample Comments:

65 JT SEAL DMG	L	20.00	Slabs
71 FAULTING	L	2.00	Slabs

Sample Number: 10

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 16.00

Sample Comments:

65 JT SEAL DMG	L	16.00	Slabs

Sample Number: 12

Sample Type: R
Sample PCI: 94
Sample Area (Slabs): 22.00

Sample Comments:

62 CORNER BREAK	L	1.00	Slabs
65 JT SEAL DMG	L	22.00	Slabs

Branch - Section ID: A01JE - 003

Branch Name: APRON 01 Use: APRON

LCD: 1/1/1994
Surface Type: PCC
Rank: P
Section Area (sf): 23,296.00
Length (ft): 330.00
Width (ft): 50.00
From: SEE MAP
To: SEE MAP

PCI Family: IowaPCCAP_NC_BasicLocal

Slabs: 129
Slab Length (ft): 15.00
Slab Width (ft): 12.00
Joint Length (ft): 2,957.89

Section Comments:

Last Insp Date: 3/14/2025
PCI: 53
Total Samples: 8
Surveyed: 5

Inspection Comments:

Sample Number: 01

Sample Type: R
Sample PCI: 50
Sample Area (Slabs): 12.00

Sample Comments:

63 LINEAR CR	L	1.00	Slabs
63 LINEAR CR	M	2.00	Slabs
65 JT SEAL DMG	L	12.00	Slabs
72 SHAT. SLAB	L	2.00	Slabs
74 JOINT SPALL	L	1.00	Slabs

Sample Number: 03

Sample Type: R
Sample PCI: 57
Sample Area (Slabs): 24.00

Sample Comments:

62 CORNER BREAK	L	1.00	Slabs
63 LINEAR CR	L	3.00	Slabs
63 LINEAR CR	M	2.00	Slabs
72 SHAT. SLAB	M	2.00	Slabs
75 CORNER SPALL	L	1.00	Slabs

Sample Number: 04

Sample Type: R
Sample PCI: 45
Sample Area (Slabs): 24.00

Sample Comments:

62 CORNER BREAK	L	1.00	Slabs
62 CORNER BREAK	M	1.00	Slabs
63 LINEAR CR	L	2.00	Slabs
63 LINEAR CR	M	3.00	Slabs
72 SHAT. SLAB	M	2.00	Slabs
73 SHRINKAGE CR	N	2.00	Slabs
75 CORNER SPALL	M	1.00	Slabs

RE-INSPECTION REPORT
JEFFERSON MUNICIPAL AIRPORT

Sample Number: 05

Sample Type: R
Sample PCI: 70
Sample Area (Slabs): 21.00

Sample Comments:

62 CORNER BREAK	L	2.00	Slabs
63 LINEAR CR	L	3.00	Slabs
63 LINEAR CR	M	2.00	Slabs
65 JT SEAL DMG	L	21.00	Slabs

Sample Number: 08

Sample Type: R
Sample PCI: 32
Sample Area (Slabs): 12.00

Sample Comments:

62 CORNER BREAK	M	1.00	Slabs
63 LINEAR CR	L	1.00	Slabs
71 FAULTING	L	1.00	Slabs
72 SHAT. SLAB	L	1.00	Slabs
72 SHAT. SLAB	L	2.00	Slabs
72 SHAT. SLAB	M	2.00	Slabs

Branch - Section ID: A02JE - 001

Branch Name: APRON 02 Use: APRON

LCD: 6/1/2001
Surface Type: PCC
Rank: P
Section Area (sf): 20,178.00
Length (ft): 530.00
Width (ft): 25.00
From: HANGER
To: TAXIWAY 01

PCI Family: IowaPCCAP_NC_BasicLocal

Slabs: 161
Slab Length (ft): 12.50
Slab Width (ft): 10.00
Joint Length (ft): 2,786.85

Section Comments:

Last Insp Date: 3/14/2025
PCI: 76
Total Samples: 8
Surveyed: 5

Inspection Comments:

Sample Number: 02

Sample Type: R
Sample PCI: 92
Sample Area (Slabs): 18.00

Sample Comments:

65 JT SEAL DMG	L	18.00	Slabs
74 JOINT SPALL	L	1.00	Slabs
74 JOINT SPALL	M	1.00	Slabs

Sample Number: 03

Sample Type: R
Sample PCI: 85
Sample Area (Slabs): 18.00

Sample Comments:

65 JT SEAL DMG	M	18.00	Slabs
74 JOINT SPALL	L	1.00	Slabs
74 JOINT SPALL	M	1.00	Slabs
75 CORNER SPALL	L	1.00	Slabs

Sample Number: 05

Sample Type: R
Sample PCI: 72
Sample Area (Slabs): 18.00

Sample Comments:

63 LINEAR CR	L	3.00	Slabs
65 JT SEAL DMG	L	18.00	Slabs
66 SMALL PATCH	M	1.00	Slabs
71 FAULTING	L	2.00	Slabs
74 JOINT SPALL	M	2.00	Slabs

Sample Number: 06

Sample Type: R
Sample PCI: 68
Sample Area (Slabs): 22.00

Sample Comments:

63 LINEAR CR	L	9.00	Slabs
63 LINEAR CR	M	2.00	Slabs
65 JT SEAL DMG	L	22.00	Slabs

Sample Number: 07

Sample Type: R

Sample PCI: 68

Sample Area (Slabs): 26.00

Sample Comments:

62 CORNER BREAK	M	1.00	Slabs
63 LINEAR CR	L	9.00	Slabs
63 LINEAR CR	M	1.00	Slabs
65 JT SEAL DMG	L	26.00	Slabs
75 CORNER SPALL	L	1.00	Slabs

Branch - Section ID: A02JE - 002

Branch Name: APRON 02 Use: APRON

LCD: 7/28/2010
Surface Type: PCC
Rank: P
Section Area (sf): 4,524.00
Length (ft): 107.00
Width (ft): 40.00
From: SEE MAP
To: SEE MAP

PCI Family: IowaPCCAP_NC_BasicLocal

Slabs: 40
Slab Length (ft): 11.20
Slab Width (ft): 10.00
Joint Length (ft): 700.95

Section Comments: avg slab length

Last Insp Date: 3/14/2025
PCI: 87
Total Samples: 2
Surveyed: 2

Inspection Comments:

Sample Number: 01

Sample Type: R
Sample PCI: 94
Sample Area (Slabs): 24.00

Sample Comments:

63 LINEAR CR	L	1.00	Slabs
65 JT SEAL DMG	L	24.00	Slabs

Sample Number: 02

Sample Type: R
Sample PCI: 76
Sample Area (Slabs): 16.00

Sample Comments:

65 JT SEAL DMG	M	16.00	Slabs
71 FAULTING	L	3.00	Slabs
71 FAULTING	M	1.00	Slabs

Branch - Section ID: A02JE - 003

Branch Name: APRON 02 Use: APRON

LCD: 5/3/2024
Surface Type: PCC
Rank: P
Section Area (sf): 9,232.00
Length (ft): 110.00
Width (ft): 70.00
From: SEE MAP
To: SEE MAP

PCI Family: IowaPCCAP_NC_BasicLocal

Slabs: 109
Slab Length (ft): 11.00
Slab Width (ft): 10.00
Joint Length (ft): 2,007.71

Section Comments:

Last Insp Date: 3/14/2025
PCI: 99
Total Samples: 4
Surveyed: 3

Inspection Comments:

Sample Number: 01

Sample Type: R
Sample PCI: 100
Sample Area (Slabs): 20.00

Sample Comments:

NO DISTRESS

Sample Number: 02

Sample Type: R
Sample PCI: 100
Sample Area (Slabs): 20.00

Sample Comments:

NO DISTRESS

Sample Number: 04

Sample Type: R
Sample PCI: 99
Sample Area (Slabs): 26.00

Sample Comments:

74 JOINT SPALL	L	1.00	Slabs

Branch - Section ID: R14JE - 001

Branch Name: RUNWAY 14/32 Use: RUNWAY

LCD: 6/3/2001
Surface Type: PCC
Rank: P
Section Area (sf): 222,373.00
Length (ft): 3,005.00
Width (ft): 75.00
From: RUNWAY END 14
To: RUNWAY END 32

PCI Family: IowaPCCRW_NC_Basic

Slabs: 1,348
Slab Length (ft): 13.20
Slab Width (ft): 12.50
Joint Length (ft): 31,597.31

Section Comments:

Last Insp Date: 3/13/2025
PCI: 80
Total Samples: 58
Surveyed: 8

Inspection Comments:

Sample Number: 05

Sample Type: R
Sample PCI: 79
Sample Area (Slabs): 24.00

Sample Comments:

63 LINEAR CR	L	2.00	Slabs
65 JT SEAL DMG	H	24.00	Slabs
71 FAULTING	L	1.00	Slabs

Sample Number: 11

Sample Type: R
Sample PCI: 63
Sample Area (Slabs): 24.00

Sample Comments:

63 LINEAR CR	M	4.00	Slabs
65 JT SEAL DMG	H	24.00	Slabs
71 FAULTING	L	4.00	Slabs

Sample Number: 15

Sample Type: R
Sample PCI: 64
Sample Area (Slabs): 24.00

Sample Comments:

63 LINEAR CR	L	1.00	Slabs
63 LINEAR CR	M	3.00	Slabs
65 JT SEAL DMG	H	24.00	Slabs
71 FAULTING	L	2.00	Slabs

Sample Number: 19

Sample Type: R
Sample PCI: 82
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	H	24.00	Slabs
71 FAULTING	L	3.00	Slabs

Sample Number: 25

Sample Type: R
Sample PCI: 88
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	H	24.00	Slabs

Sample Number: 35

Sample Type: R
Sample PCI: 88
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	H	24.00	Slabs

Sample Number: 44

Sample Type: R
Sample PCI: 88
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	H	24.00	Slabs

Sample Number: 53

Sample Type: R
Sample PCI: 88
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	H	24.00	Slabs

Branch - Section ID: R14JE - 002

Branch Name: RUNWAY 14/32 Use: RUNWAY

LCD: 6/3/2001
Surface Type: PCC
Rank: P
Section Area (sf): 16,783.00
Length (ft): 295.00
Width (ft): 35.00
From: R14JE-01
To: ..

PCI Family: IowaPCCRW_NC_Basic

Slabs: 104
Slab Length (ft): 13.80
Slab Width (ft): 11.66
Joint Length (ft): 2,119.12

Section Comments:

Last Insp Date: 3/14/2025
PCI: 73
Total Samples: 5
Surveyed: 4

Inspection Comments:

Sample Number: 01

Sample Type: R
Sample PCI: 83
Sample Area (Slabs): 25.00

Sample Comments:

65 JT SEAL DMG	H	25.00	Slabs
74 JOINT SPALL	L	1.00	Slabs
75 CORNER SPALL	M	1.00	Slabs

Sample Number: 02

Sample Type: R
Sample PCI: 81
Sample Area (Slabs): 24.00

Sample Comments:

63 LINEAR CR	L	1.00	Slabs
65 JT SEAL DMG	H	24.00	Slabs
74 JOINT SPALL	L	2.00	Slabs

Sample Number: 04

Sample Type: R
Sample PCI: 61
Sample Area (Slabs): 18.00

Sample Comments:

62 CORNER BREAK	L	1.00	Slabs
63 LINEAR CR	L	1.00	Slabs
65 JT SEAL DMG	H	18.00	Slabs
71 FAULTING	L	1.00	Slabs
72 SHAT. SLAB	M	1.00	Slabs

Sample Number: 05

Sample Type: R
Sample PCI: 64
Sample Area (Slabs): 24.00

Sample Comments:

62 CORNER BREAK	L	1.00	Slabs
63 LINEAR CR	M	2.00	Slabs
71 FAULTING	L	1.00	Slabs
72 SHAT. SLAB	M	1.00	Slabs
74 JOINT SPALL	M	1.00	Slabs

Branch - Section ID: R14JE - 003

Branch Name: RUNWAY 14/32 Use: RUNWAY

LCD: 6/3/2001
Surface Type: PCC
Rank: P
Section Area (sf): 17,893.00
Length (ft): 295.00
Width (ft): 35.00
From: R14JE-01
To: ..

PCI Family: IowaPCCRW_NC_Basic

Slabs: 109
Slab Length (ft): 13.80
Slab Width (ft): 11.90
Joint Length (ft): 2,228.32

Section Comments:

Last Insp Date: 3/13/2025
PCI: 78
Total Samples: 5
Surveyed: 4

Inspection Comments:

Sample Number: 01

Sample Type: R
Sample PCI: 81
Sample Area (Slabs): 24.00

Sample Comments:

63 LINEAR CR	L	1.00	Slabs
65 JT SEAL DMG	H	24.00	Slabs
73 SHRINKAGE CR	N	1.00	Slabs
75 CORNER SPALL	L	1.00	Slabs

Sample Number: 02

Sample Type: R
Sample PCI: 78
Sample Area (Slabs): 24.00

Sample Comments:

63 LINEAR CR	L	2.00	Slabs
65 JT SEAL DMG	H	24.00	Slabs
71 FAULTING	L	2.00	Slabs

Sample Number: 04

Sample Type: R
Sample PCI: 76
Sample Area (Slabs): 21.00

Sample Comments:

65 JT SEAL DMG	H	21.00	Slabs
71 FAULTING	L	2.00	Slabs
74 JOINT SPALL	L	2.00	Slabs
74 JOINT SPALL	M	1.00	Slabs

Sample Number: 05

Sample Type: R
Sample PCI: 76
Sample Area (Slabs): 25.00

Sample Comments:

65 JT SEAL DMG	H	25.00	Slabs
71 FAULTING	L	2.00	Slabs
74 JOINT SPALL	H	1.00	Slabs
75 CORNER SPALL	L	1.00	Slabs

Branch - Section ID: R14JE - 004

Branch Name: RUNWAY 14/32 Use: RUNWAY

LCD: 9/3/2020
Surface Type: PCC
Rank: P
Section Area (sf): 87,054.00
Length (ft): 1,065.00
Width (ft): 75.00
From: SEE MAP
To: SEE MAP

PCI Family: IowaPCCRW_NC_Basic

Slabs: 633
Slab Length (ft): 11.00
Slab Width (ft): 12.50
Joint Length (ft): 13,635.86

Section Comments:

Last Insp Date: 3/13/2025
PCI: 97
Total Samples: 28
Surveyed: 8

Inspection Comments:

Sample Number: 01

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	L	24.00	Slabs

Sample Number: 04

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	L	24.00	Slabs

Sample Number: 07

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	L	24.00	Slabs

Sample Number: 10

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	L	24.00	Slabs

Sample Number: 13

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	L	24.00	Slabs

Sample Number: 16

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	L	24.00	Slabs

Sample Number: 19

Sample Type: R
Sample PCI: 94
Sample Area (Slabs): 27.00

Sample Comments:

63 LINEAR CR	L	1.00	Slabs
65 JT SEAL DMG	L	27.00	Slabs

Sample Number: 26

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	L	24.00	Slabs

Branch - Section ID: T01JE - 001

Branch Name: TAXIWAY 01 Use: TAXIWAY

LCD: 6/1/2000
Surface Type: PCC
Rank: P
Section Area (sf): 17,845.00
Length (ft): 455.00
Width (ft): 35.00
From: APRON 01
To: RUNWAY 14/32

PCI Family: IowaPCCTW_NC_Basic

Slabs: 131
Slab Length (ft): 11.70
Slab Width (ft): 11.66
Joint Length (ft): 2,506.58

Section Comments:

Last Insp Date: 3/14/2025
PCI: 85
Total Samples: 7
Surveyed: 4

Inspection Comments:

Sample Number: 01

Sample Type: R
Sample PCI: 88
Sample Area (Slabs): 21.00

Sample Comments:

65 JT SEAL DMG	H	21.00	Slabs

Sample Number: 02

Sample Type: R
Sample PCI: 83
Sample Area (Slabs): 21.00

Sample Comments:

65 JT SEAL DMG	H	21.00	Slabs
71 FAULTING	L	2.00	Slabs

Sample Number: 04

Sample Type: R
Sample PCI: 88
Sample Area (Slabs): 21.00

Sample Comments:

65 JT SEAL DMG	H	21.00	Slabs

Sample Number: 05

Sample Type: R
Sample PCI: 80
Sample Area (Slabs): 23.00

Sample Comments:

62 CORNER BREAK	L	1.00	Slabs
63 LINEAR CR	L	1.00	Slabs
65 JT SEAL DMG	H	23.00	Slabs

Branch - Section ID: T02JE - 001

Branch Name: TAXIWAY 02 Use: TAXIWAY

LCD: 12/2/2005
Surface Type: PCC
Rank: P
Section Area (sf): 8,976.00
Length (ft): 295.00
Width (ft): 26.00
From: A01JE-02
To: A02JE-01

PCI Family: IowaPCCTW_NC_Basic

Slabs: 56
Slab Length (ft): 12.70
Slab Width (ft): 13.00
Joint Length (ft): 1,021.58

Section Comments: avg

Last Insp Date: 3/14/2025
PCI: 96
Total Samples: 3
Surveyed: 3

Inspection Comments:

Sample Number: 01

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 18.00

Sample Comments:

65 JT SEAL DMG	L	18.00	Slabs

Sample Number: 02

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 20.00

Sample Comments:

65 JT SEAL DMG	L	20.00	Slabs

Sample Number: 03

Sample Type: R
Sample PCI: 91
Sample Area (Slabs): 18.00

Sample Comments:

63 LINEAR CR	L	1.00	Slabs
65 JT SEAL DMG	L	18.00	Slabs
74 JOINT SPALL	L	1.00	Slabs

APPENDIX D

WORK HISTORY REPORT

WORK HISTORY

Pavement Database: IA 2024
Network ID: EFW

Generate Date: 6/30/2025

Network: JEFFERSON MUNICIPAL AIRPORT

Branch - Section ID: A01JE - 001

LCD: 6/1/2001
Use: APRON
Rank: P
Surface: PCC

Length (ft): 583.00
Width (ft): 183.00
True Area (sf): 90,913.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2023	JS-LC	Joint Seal (Localized)	$0.00	0.00	False	EST
06-01-2020	JS-LC	Joint Seal (Localized)	$0.00	0.00	False	EST
06-01-2001	CR-PC	Complete Reconstruction - PCC	$0.00	0.00	True	-
06-01-1986	NC-AC	New Construction - AC	$0.00	0.00	True	-

Branch - Section ID: A01JE - 002

LCD: 12/2/2005
Use: APRON
Rank: P
Surface: PCC

Length (ft): 200.00
Width (ft): 185.00
True Area (sf): 37,530.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2023	JS-LC	Joint Seal (Localized)	$0.00	0.00	False	EST
12-02-2005	CR-PC	Complete Reconstruction - PCC	$136,960.00	5.00	True	5" P501; Total Project Cost: $169,086
12-01-2005	SB-AG	Subbase - Aggregate	$0.00	6.00	False	6" P154 ASSUMED; COMPACTED GRANULAR SUBBASE
06-01-1997	NC-IN	New Construction - Initial	$0.00	0.00	True	-

Branch - Section ID: A01JE - 003

LCD: 1/1/1994
Use: APRON
Rank: P
Surface: PCC

Length (ft): 330.00
Width (ft): 50.00
True Area (sf): 23,296.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2023	JS-LC	Joint Seal (Localized)	$0.00	0.00	False	EST
06-01-2020	JS-LC	Joint Seal (Localized)	$0.00	0.00	False	EST
01-01-1994	NC-PC	New Construction - PCC	$0.00	0.00	True	EST. VIA GE

Branch - Section ID: A02JE - 001

LCD: 6/1/2001
Use: APRON
Rank: P
Surface: PCC

Length (ft): 530.00
Width (ft): 25.00
True Area (sf): 20,178.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2020	JS-LC	Joint Seal (Localized)	$0.00	0.00	False	EST
06-01-2001	CR-PC	Complete Reconstruction - PCC	$0.00	0.00	True	-
06-01-1986	NC-AC	New Construction - AC	$0.00	0.00	True	-

WORK HISTORY

Pavement Database: IA 2024
Network ID: EFW

Generate Date: 6/30/2025

Branch - Section ID: A02JE - 002

LCD: 7/28/2010
Use: APRON
Rank: P
Surface: PCC

Length (ft): 107.00
Width (ft): 40.00
True Area (sf): 4,524.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2020	JS-LC	Joint Seal (Localized)	$0.00	0.00	False	EST
07-28-2010	NC-PC	New Construction - PCC	$0.00	0.00	True	EST. VIA GE

Branch - Section ID: A02JE - 003

LCD: 5/3/2024
Use: APRON
Rank: P
Surface: PCC

Length (ft): 110.00
Width (ft): 70.00
True Area (sf): 9,232.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
05-03-2024	NC-PC	New Construction - PCC	$7,984,008.00	6.00	True	6" P-501 PCC CONCRETE PAVEMENT
05-02-2024	BA-AG	Base Course - Aggregate	$0.00	6.00	False	6" P-208 CRUSHED AGGREGATE BASE COURSE
05-01-2024	SG-CO	Subgrade - Compacted	$0.00	12.00	False	12" P-152 SUBGRADE PREPARATION

Branch - Section ID: R14JE - 001

LCD: 6/3/2001
Use: RUNWAY
Rank: P
Surface: PCC

Length (ft): 3,005.00
Width (ft): 75.00
True Area (sf): 222,373.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-03-2001	OL-PU	Overlay - PCC Unbonded	$0.00	6.00	True	6" P501 PCC (IDOT MOD.)
06-01-1986	OL-AC	Overlay - AC	$0.00	3.00	True	3" P401 AC OVERLAY
06-02-1962	NC-AC	New Construction - AC	$0.00	2.00	True	2" P401
06-01-1962	BA-AG	Base Course - Aggregate	$0.00	8.00	False	8" P209

Branch - Section ID: R14JE - 002

LCD: 6/3/2001
Use: RUNWAY
Rank: P
Surface: PCC

Length (ft): 295.00
Width (ft): 35.00
True Area (sf): 16,783.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-03-2001	CR-PC	Complete Reconstruction - PCC	$0.00	5.00	True	6" P501 (IDOT MOD.)
06-02-2001	BA-AG	Base Course - Aggregate	$0.00	6.00	False	6" P209 (ASSUMED)
06-02-1962	NC-AC	New Construction - AC	$0.00	2.00	True	2" P401 AC (ASSUMED MAT. TYPE)
06-01-1962	BA-AG	Base Course - Aggregate	$0.00	8.00	False	8" P209 CABC

WORK HISTORY

Pavement Database: IA 2024
Network ID: EFW

Generate Date: 6/30/2025

Branch - Section ID: R14JE - 003

LCD: 6/3/2001
Use: RUNWAY
Rank: P
Surface: PCC

Length (ft): 295.00
Width (ft): 35.00
True Area (sf): 17,893.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
09-01-2021	SL-PC	Slab Replacement - PCC	$0.00	0.00	False	-
06-03-2001	OL-PU	Overlay - PCC Unbonded	$0.00	6.00	True	6" P501 PCC (IDOT MOD)
06-02-2001	BA-AG	Base Course - Aggregate	$0.00	6.00	False	6" P209 (ASSUMED MAT.)
06-02-1962	NC-AC	New Construction - AC	$0.00	2.00	True	2" P401 AC (ASSUMED MAT. TYPE)
06-01-1962	BA-AG	Base Course - Aggregate	$0.00	8.00	False	8" P209 CABC

Branch - Section ID: R14JE - 004

LCD: 9/3/2020
Use: RUNWAY
Rank: P
Surface: PCC

Length (ft): 1,065.00
Width (ft): 75.00
True Area (sf): 87,054.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
09-03-2020	NC-PC	New Construction - PCC	$0.00	6.00	True	6" PCC P-501
09-02-2020	BA-AG	Base Course - Aggregate	$0.00	6.00	False	6" P-209 AGG BASE
09-01-2020	SG-CO	Subgrade - Compacted	$0.00	12.00	False	12" SUBGRADE

Branch - Section ID: T01JE - 001

LCD: 6/1/2000
Use: TAXIWAY
Rank: P
Surface: PCC

Length (ft): 455.00
Width (ft): 35.00
True Area (sf): 17,845.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2000	CR-PC	Complete Reconstruction - PCC	$0.00	5.00	True	5" P-501
05-31-2000	BA-AG	Base Course - Aggregate	$0.00	4.00	False	4" AGG BASE
05-30-2000	SB-AG	Subbase - Aggregate	$0.00	6.00	False	6" P154 ASSUMED, RECYCLED AC
06-01-1986	NC-AC	New Construction - AC	$0.00	0.00	True	-

Branch - Section ID: T02JE - 001

LCD: 12/2/2005
Use: TAXIWAY
Rank: P
Surface: PCC

Length (ft): 295.00
Width (ft): 26.00
True Area (sf): 8,976.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
05-01-2023	JS-LC	Joint Seal (Localized)	$0.00	0.00	False	EST
12-02-2005	CR-PC	Complete Reconstruction - PCC	$32,126.00	5.00	True	5" P501; Total Project Cost: $169,086
12-01-2005	SB-AG	Subbase - Aggregate	$0.00	6.00	False	6" P154 ASSUMED, COMPACTED GRANULAR SUBBASE
06-01-1997	NC-IN	New Construction - Initial	$0.00	0.00	True	-

APPENDIX E

LOCALIZED PREVENTIVE MAINTENANCE POLICIES AND UNIT COST TABLES

Table E-1. Localized preventive maintenance policy, asphalt-surfaced pavements.

Distress Type	Severity Level	Maintenance Action
Alligator Cracking	Low	Monitor
Alligator Cracking	Medium	Asphalt Patch
Alligator Cracking	High	Asphalt Patch
Bleeding	N/A	Monitor
Block Cracking	Low	Monitor
Block Cracking	Medium	Crack Seal—Asphalt
Block Cracking	High	Crack Seal—Asphalt
Corrugation	Low	Monitor
Corrugation	Medium	Asphalt Patch
Corrugation	High	Asphalt Patch
Depression	Low	Monitor
Depression	Medium	Monitor
Depression	High	Asphalt Patch
Jet-Blast Erosion	N/A	Asphalt Patch
Joint Reflection Cracking	Low	Monitor
Joint Reflection Cracking	Medium	Crack Seal—Asphalt
Joint Reflection Cracking	High	Crack Seal—Asphalt
L&T Cracking	Low	Monitor
L&T Cracking	Medium	Crack Seal—Asphalt
L&T Cracking	High	Crack Seal—Asphalt
Oil Spillage	N/A	Asphalt Patch
Patching	Low	Monitor
Patching	Medium	Asphalt Patch
Patching	High	Asphalt Patch
Polished Aggregate	N/A	Monitor
Raveling	Low	Monitor
Raveling	Medium	Asphalt Patch
Raveling	High	Asphalt Patch
Rutting	Low	Monitor
Rutting	Medium	Monitor
Rutting	High	Asphalt Patch
Shoving	Low	Monitor
Shoving	Medium	Asphalt Patch
Shoving	High	Asphalt Patch
Slippage Cracking	N/A	Asphalt Patch
Swelling	Low	Monitor
Swelling	Medium	Monitor
Swelling	High	Asphalt Patch
Weathering	Low	Monitor
Weathering	Medium	Monitor
Weathering	High	Asphalt Patch

Table E-2. Localized preventive maintenance policy, PCC pavements.

Distress Type	Severity Level	Maintenance Action
ASR	Low	Monitor
ASR	Medium	Slab Replacement
ASR	High	Slab Replacement
Blowup	Low	Slab Replacement
Blowup	Medium	Slab Replacement
Blowup	High	Slab Replacement
Corner Break	Low	Crack Seal—PCC
Corner Break	Medium	Full Depth PCC Patch
Corner Break	High	Full Depth PCC Patch
Durability Cracking	Low	Monitor
Durability Cracking	Medium	Full Depth Patch
Durability Cracking	High	Slab Replacement
Faulting	Low	Monitor
Faulting	Medium	Grinding
Faulting	High	Slab Replacement
Joint Seal Damage	Low	Monitor
Joint Seal Damage	Medium	Joint Seal
Joint Seal Damage	High	Joint Seal
LTD Cracking	Low	Monitor
LTD Cracking	Medium	Crack Seal—PCC
LTD Cracking	High	Slab Replacement
Patching (Small and Large)	Low	Monitor
Patching (Small and Large)	Medium	Full Depth PCC Patch
Patching (Small and Large)	High	Full Depth PCC Patch
Popouts	N/A	Monitor
Pumping	N/A	Monitor
Scaling	Low	Monitor
Scaling	Medium	Partial Depth PCC Patch
Scaling	High	Slab Replacement
Shattered Slab	Low	Crack Seal—PCC
Shattered Slab	Medium	Slab Replacement
Shattered Slab	High	Slab Replacement
Shrinkage Cracking	N/A	Monitor
Spalling (Joint and Corner)	Low	Monitor
Spalling (Joint and Corner)	Medium	Partial Depth PCC Patch
Spalling (Joint and Corner)	High	Partial Depth PCC Patch

Table E-3. 2025 unit costs for localized preventive maintenance actions.

Maintenance Action	Unit Cost
Asphalt Patch—Asphalt-Surfaced Pavement	$15.90/sf
Crack Sealing—Asphalt-Surfaced Pavement	$2.72/lf
Partial Depth PCC Patch—PCC Pavement	$40.74/sf
Full Depth PCC Patch—PCC Pavement	$18.19/sf
Crack Sealing—PCC Pavement	$3.27/lf
Joint Sealing—PCC Pavement	$3.27/lf
Grinding—PCC Pavement	$0.39/sf
Slab Replacement—PCC Pavement	$18.19/sf

Table Note: The unit cost estimates are based on broad statewide numbers and should be adjusted to reflect local costs.

Table E-4. 2025 unit costs (per square foot) based on pavement type and PCI ranges.

Pavement Type	PCI Range 0–40	PCI Range 40–50	PCI Range 50–60	PCI Range 60–70	PCI Range 70–80	PCI Range 80–90	PCI Range 90–100
Asphalt-surfaced	$11.29	$5.34	$5.34	$5.34	$0.00	$0.00	$0.00
PCC	$18.86	$8.92	$8.92	$8.92	$0.00	$0.00	$0.00

Table Notes:

- The unit cost estimates are based on broad statewide numbers and should be adjusted to reflect local costs.
- Pavement Type: Asphalt-surfaced = AC (asphalt cement concrete), AAC (asphalt overlay on AC), or APC (asphalt overlay on PCC); PCC = portland cement concrete

APPENDIX F

YEAR 2025 LOCALIZED PREVENTIVE MAINTENANCE DETAILS

Table F-1. Year 2025 localized preventive maintenance details.

Branch	Section	Distress Type	Severity	Distress Quantity	Distress Unit	Maintenance Action	Unit Cost	2025 Estimated Cost
A01JE	01	Corner Break	Low	4	Slabs	Crack Sealing - PCC	$3.27	$111
A01JE	01	Corner Break	Medium	6	Slabs	Patching - PCC Full Depth	$18.19	$3,702
A01JE	01	Corner Spalling	Medium	9	Slabs	Patching - PCC Partial Depth	$40.74	$1,036
A01JE	01	Joint Seal Damage	Medium	82	Slabs	Joint Seal (Localized)	$3.27	$6,395
A01JE	01	Joint Seal Damage	High	132	Slabs	Joint Seal (Localized)	$3.27	$10,331
A01JE	01	Joint Spalling	Medium	13	Slabs	Patching - PCC Partial Depth	$40.74	$3,540
A01JE	01	Joint Spalling	High	3	Slabs	Patching - PCC Partial Depth	$40.74	$987
A01JE	01	LTD Cracking	Medium	63	Slabs	Crack Sealing - PCC	$3.27	$2,576
A01JE	01	Shattered Slab	Low	3	Slabs	Crack Sealing - PCC	$3.27	$258
A01JE	01	Shattered Slab	Medium	9	Slabs	Slab Replacement - PCC	$18.19	$26,869
A01JE	01	Small Patch	Medium	2	Slabs	Patching - PCC Full Depth	$18.19	$98
A01JE	02	Corner Break	Low	2	Slabs	Crack Sealing - PCC	$3.27	$53
A02JE	01	Corner Break	Medium	2	Slabs	Patching - PCC Full Depth	$18.19	$927
A02JE	01	Joint Seal Damage	Medium	28	Slabs	Joint Seal (Localized)	$3.27	$1,608
A02JE	01	Joint Spalling	Medium	6	Slabs	Patching - PCC Partial Depth	$40.74	$1,661
A02JE	01	LTD Cracking	Medium	5	Slabs	Crack Sealing - PCC	$3.27	$174
A02JE	01	Small Patch	Medium	2	Slabs	Patching - PCC Full Depth	$18.19	$77
A02JE	02	Faulting	Medium	1	Slabs	Grinding (Localized)	$0.39	$4
A02JE	02	Joint Seal Damage	Medium	16	Slabs	Joint Seal (Localized)	$3.27	$917
R14JE	01	Joint Seal Damage	High	1,348	Slabs	Joint Seal (Localized)	$3.27	$103,323
R14JE	01	LTD Cracking	Medium	49	Slabs	Crack Sealing - PCC	$3.27	$2,065
R14JE	02	Corner Break	Low	2	Slabs	Crack Sealing - PCC	$3.27	$61

Table F-1. Year 2025 localized preventive maintenance details (continued).

Branch	Section	Distress Type	Severity	Distress Quantity	Distress Unit	Maintenance Action	Unit Cost	2025 Estimated Cost
R14JE	02	Corner Spalling	Medium	1	Slabs	Patching - PCC Partial Depth	$40.74	$125
R14JE	02	Joint Seal Damage	High	77	Slabs	Joint Seal (Localized)	$3.27	$5,102
R14JE	02	Joint Spalling	Medium	1	Slabs	Patching - PCC Partial Depth	$40.74	$301
R14JE	02	LTD Cracking	Medium	2	Slabs	Crack Sealing - PCC	$3.27	$95
R14JE	02	Shattered Slab	Medium	2	Slabs	Slab Replacement - PCC	$18.19	$6,690
R14JE	03	Joint Seal Damage	High	109	Slabs	Joint Seal (Localized)	$3.27	$7,287
R14JE	03	Joint Spalling	Medium	1	Slabs	Patching - PCC Partial Depth	$40.74	$305
R14JE	03	Joint Spalling	High	1	Slabs	Patching - PCC Partial Depth	$40.74	$381
T01JE	01	Corner Break	Low	2	Slabs	Crack Sealing - PCC	$3.27	$41
T01JE	01	Joint Seal Damage	High	131	Slabs	Joint Seal (Localized)	$3.27	$8,196

Table Notes:

1. See Figure 3 for the location of the branch and section.
2. Distress types are defined by ASTM D5340. L&T cracking = longitudinal and transverse cracking; LTD cracking = longitudinal, transverse, and diagonal cracking; ASR = alkali-silica reaction.
3. The costs provided are of a general nature for the entire State and may require adjustments to reflect specific conditions at Jefferson Municipal Airport.

PREPARED FOR

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AUGUST 2025