

Pella Municipal Airport



Pavement Management Report

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PELLA MUNICIPAL AIRPORT PAVEMENT MANAGEMENT REPORT

Prepared For:



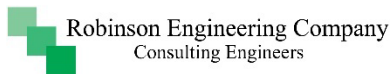
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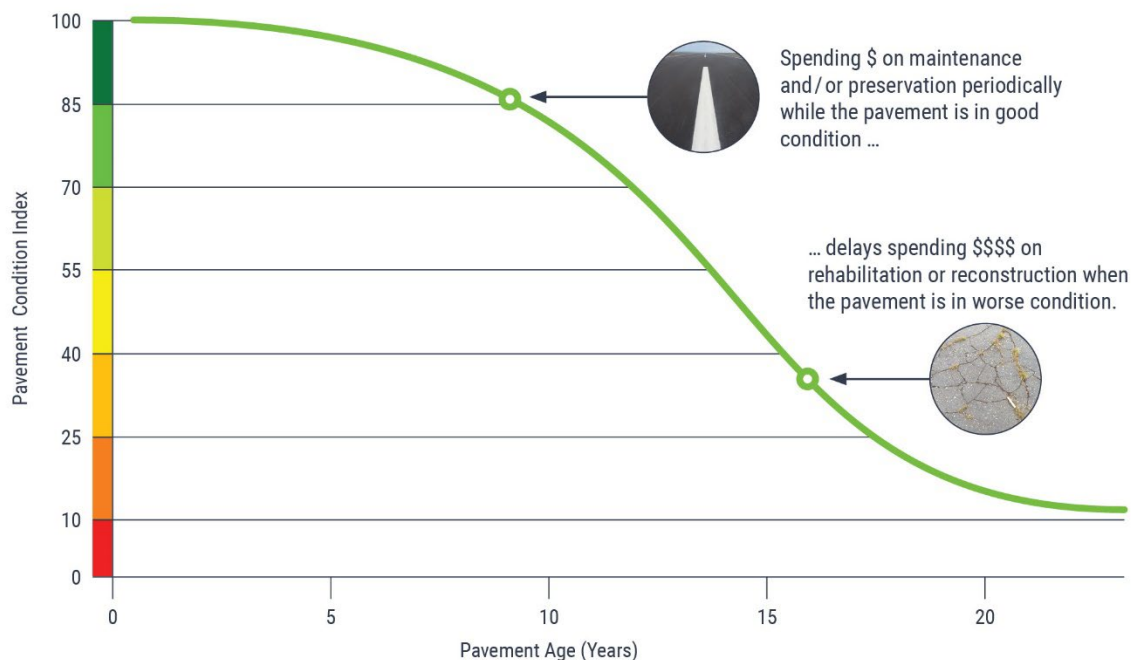
INTRODUCTION

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 Pella 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 Pella Municipal Airport are presented within this report and can be used by Pella 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 Pella 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 Pella 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 661,000 square feet of pavement were evaluated at Pella 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 Pella Municipal Airport.

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

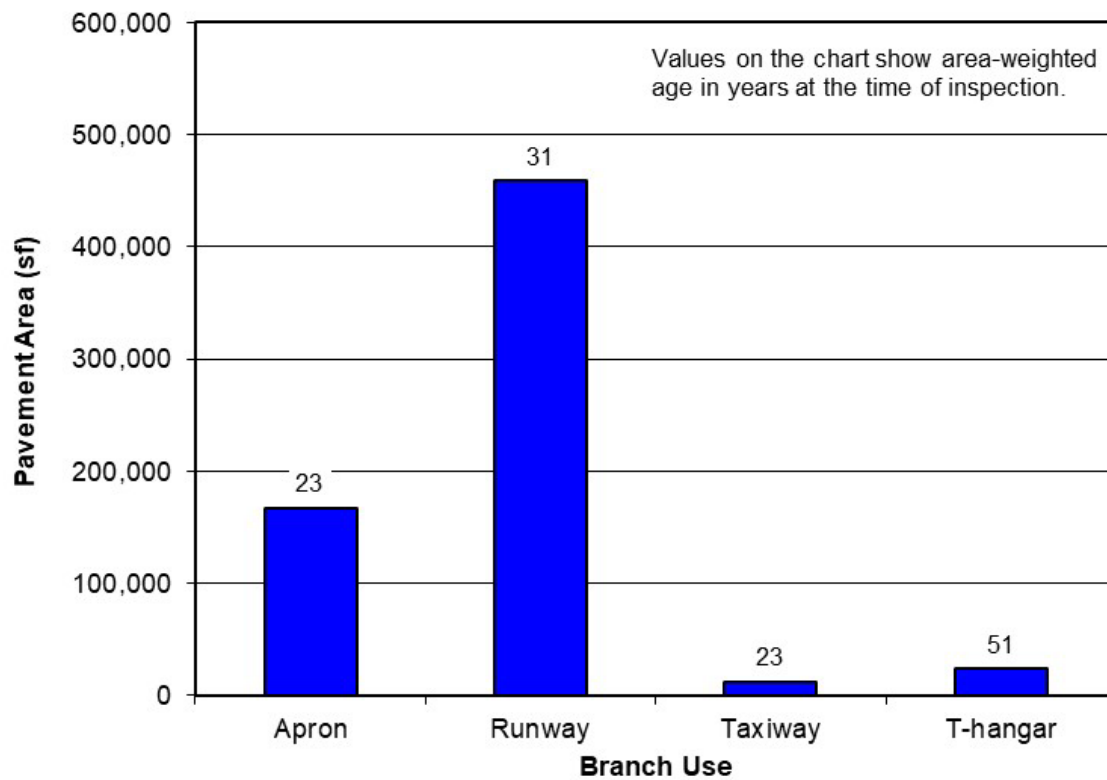
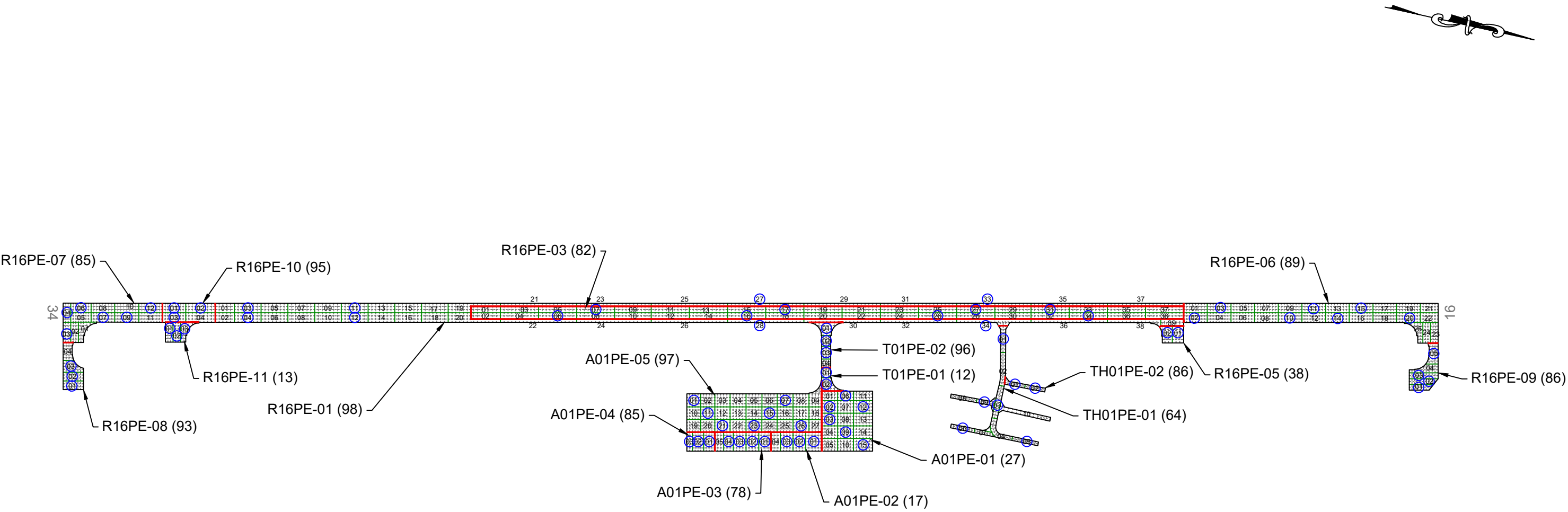


FIGURE 3. NETWORK DEFINITION MAP.



NETWORK DEFINITION LEGEND

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



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AGENCY: Iowa Department of Transportation Modal Transportation Bureau - Aviation			
LOCATION: Pella Municipal Airport Pella, 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"=400'	LAST MODIFIED DATE: JUN. 2025	REVISED BY: KEW	DRAWN BY: KEW
FILENAME: Pella.dwg		LAYOUT NAME/NUMBER: NET. DEF.	PAGE NUMBER: 5

PAVEMENT EVALUATION

Pavement Evaluation Procedure

APTech visually inspected the pavements at Pella 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 Pella 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.

PCI Range	Repair
86-100	Preventive Maintenance
71-85	
56-70	
41-55	Major Rehabilitation
26-40	
11-25	Reconstruction
0-10	

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 Pella Municipal Airport were inspected in March 2025. The 2025 area-weighted condition of Pella Municipal Airport is 82, with conditions ranging from 12 to 98 (on a scale of 0 [failed] to 100 [excellent]). During the previous pavement inspection in 2021, the area-weighted PCI of the airport was 85.

Figure 6 summarizes the overall condition of the pavements at Pella 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 Pella Municipal Airport.

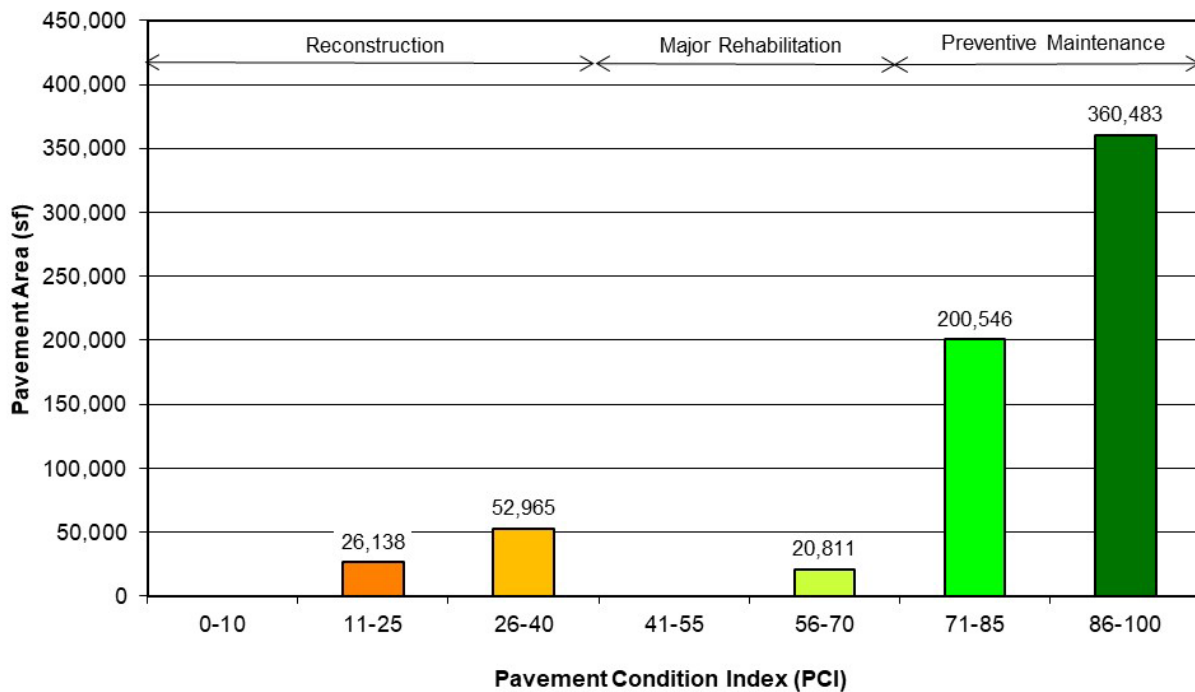


Figure 7. Area-weighted PCI by branch use at Pella Municipal Airport.

(Values on chart are area weighted.)

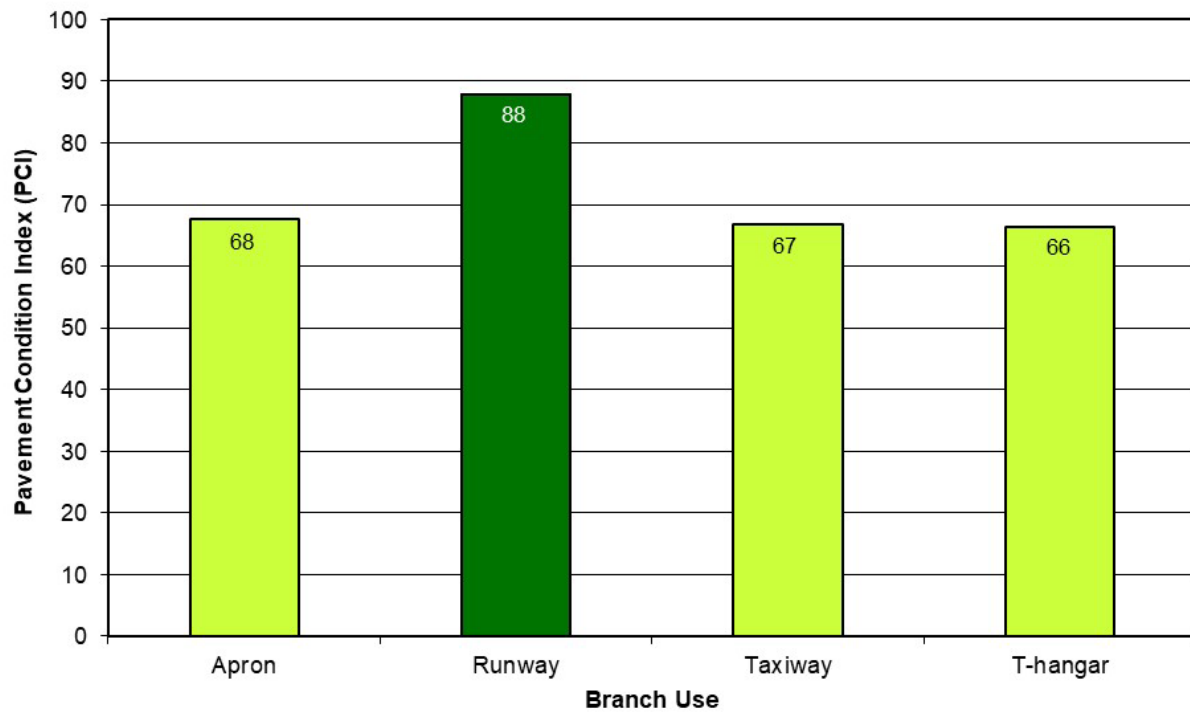
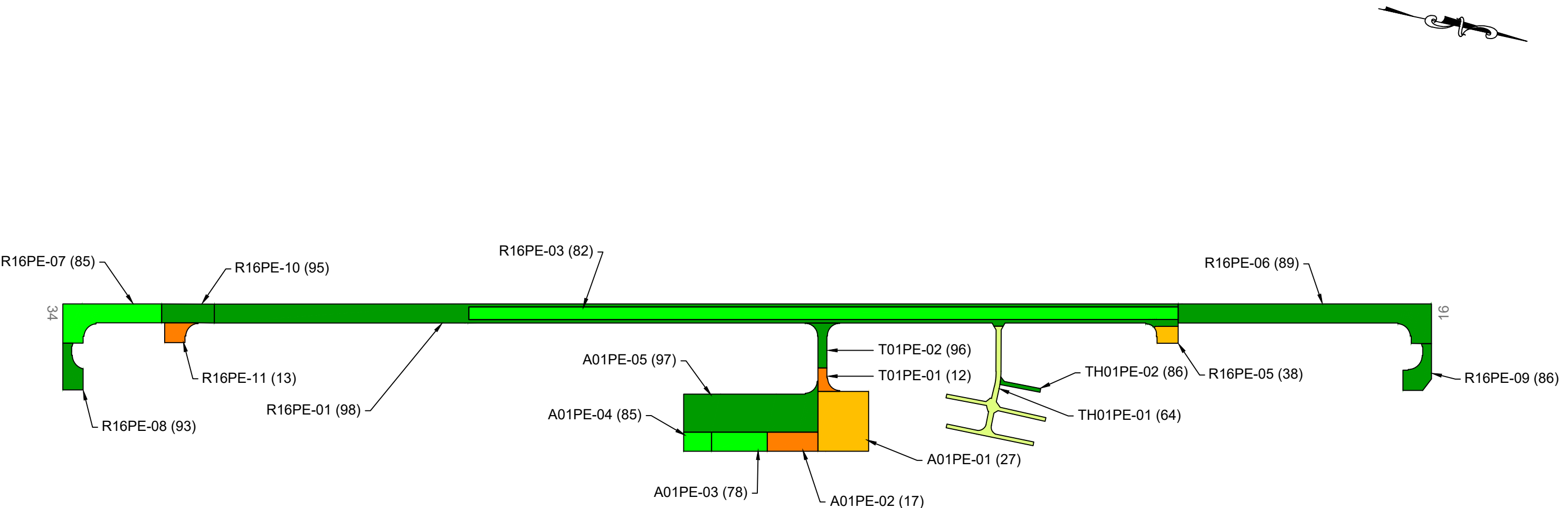


FIGURE 8. PCI MAP.



LEGEND

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

applied pavement
TECHNOLOGY

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LOCATION: **Pella Municipal Airport
Pella, Iowa**

PAGE TITLE: **2025 Pavement Condition Index Map**

PROJECT DATE: NOV. 2024	CREATION DATE: NOV. 2024	PROJECT MANAGER: LJR	JOB NUMBER: 2021-125-AM03
DRAWING SCALE: 1"=400'	LAST MODIFIED DATE: JUN. 2025	REVISED BY: KEW	DRAWN BY: KEW
FILENAME: Pella.dwg		LAYOUT NAME/NUMBER: PCI	PAGE NUMBER: 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
A01PE	01	PCC	47,200	6/3/1969	27	5	10	85	ASR, Joint Spalling, Joint Seal Damage, Large Patch, LTD Cracking, Popouts, Small Patch
A01PE	02	PCC	15,000	1/1/2000	17	0	10	90	ASR, Joint Seal Damage, Large Patch, Small Patch
A01PE	03	PCC	16,500	1/1/2000	78	26	41	33	Corner Spalling, Faulting, Joint Spalling, Joint Seal Damage, Large Patch, LTD Cracking
A01PE	04	PCC	8,230	1/1/2000	85	0	77	23	Corner Spalling, Joint Spalling, Joint Seal Damage, Small Patch
A01PE	05	PCC	80,309	7/3/2023	97	36	64	0	Corner Break, Joint Seal Damage
R16PE	01	PCC	148,196	11/3/2020	98	0	100	0	Joint Seal Damage
R16PE	03	PCC	139,475	10/2/1969	82	29	8	63	ASR, Corner Spalling, Joint Seal Damage, Large Patch, LTD Cracking, Shrinkage Cracking, Small Patch
R16PE	05	PCC	5,765	6/1/1989	38	11	13	76	ASR, Joint Seal Damage, Large Patch, LTD Cracking, Small Patch
R16PE	06	PCC	82,427	6/1/1989	89	6	47	47	Corner Spalling, Faulting, Joint Spalling, Joint Seal Damage, Large Patch, LTD Cracking, Small Patch
R16PE	07	PCC	36,341	6/1/1989	85	11	38	51	ASR, Corner Spalling, Faulting, Joint Spalling, Joint Seal Damage, Large Patch, LTD Cracking, Small Patch
R16PE	08	PCC	10,953	10/10/2004	93	0	100	0	Joint Seal Damage
R16PE	09	PCC	12,832	10/10/2004	86	0	85	15	Faulting, Joint Spalling, Joint Seal Damage
R16PE	10	PCC	15,600	10/1/2011	95	0	91	9	Joint Seal Damage, Large Patch
R16PE	11	PCC	7,089	10/2/1989	13	0	9	91	ASR, Joint Seal Damage, Large Patch

Table 1. 2025 pavement evaluation results (continued).

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
T01PE	01	PCC	4,049	6/1/1969	12	10	6	84	ASR, Corner Break, Joint Seal Damage, Large Patch, LTD Cracking, Popouts, Small Patch
T01PE	02	PCC	7,625	11/3/2020	96	0	51	49	ASR, Joint Seal Damage
TH01PE	01	PCC	20,811	1/1/1969	64	50	19	31	ASR, Corner Break, Corner Spalling, Faulting, Joint Spalling, Joint Seal Damage, LTD Cracking, Shattered Slab, Small Patch
TH01PE	02	PCC	2,541	6/10/2017	86	0	78	22	Corner Spalling, Joint Seal Damage

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

Pella Municipal Airport was inspected on March 12, 2025. There were 18 pavement sections defined during the inspection. Alkali-silica reaction (ASR) was recorded at this airport according to the PCI procedure. The ASR was recorded where evidence of a precipitate was observed within some of the cracking in the PCC surface. It should be noted that laboratory testing in the form of petrographic analysis is the only definitive way to validate the presence of ASR; however, the formation of a precipitate is evidence of a reaction consistent with this type of materials-related distress.

Runway

Runway 16/34 consisted of nine sections. Section 01 was in *Excellent* condition with only low-severity joint seal damage identified throughout. Various distresses were recorded in Section 03, including low-severity ASR, small patching, and joint seal damage; high-severity corner spalling; low- and medium-severity large patching and longitudinal, transverse, diagonal (LTD) cracking; and shrinkage cracking. Section 05 was in *Poor* condition with substantial amounts of low- and medium-severity ASR recorded along with high-severity joint seal damage, low-severity large patching and small patching, and low- and medium-severity LTD cracking. Low- and medium-severity joint seal damage and low-severity corner spalling, joint spalling, faulting, large patching, LTD cracking, and small patching were identified in Section 06. In Section 07, low-severity ASR, faulting, and joint spalling; medium-severity corner spalling and LTD cracking; and low- and medium-severity large patching, small patching, and joint seal damage were recorded. Only medium-severity joint seal damage was observed throughout Section 08. Low-severity faulting, high-severity joint seal damage, and medium-severity joint spalling were identified in Section 09. Section 10 was in *Excellent* condition and contained low- and medium-severity joint seal damage and low-severity large patching. Section 11 was in *Poor* condition with all severities of ASR, high-severity joint seal damage, and low-severity large patching recorded at the time of the inspection.

Taxiway

The taxiway contained two sections. Section 01 was in *Poor* condition with various distresses recorded that included all severities of ASR, low-severity corner break and large patching, high-severity joint seal damage, medium-severity LTD cracking, popouts, and low- and medium-severity small patching. In Section 02, low-severity ASR and joint seal damage were recorded.

Apron

The apron area consisted of five sections. Sections 01 and 02 were both in *Poor* condition. All severities of ASR, high-severity joint seal damage, medium-severity joint spalling and LTD cracking, low-severity large patching and small patching, and popouts were identified in Section 01. Distresses noted in Section 02 included all severities of ASR, high-severity joint seal damage, and low- and medium-severity large patching and small patching. Low- and medium-severity corner spalling, low-severity faulting and large patching, high-severity joint seal damage, low- and high-severity joint spalling, and medium-severity LTD cracking were identified in Section 03. In Section 04, medium-severity corner spalling and joint spalling, high-severity joint seal damage, and low-severity small patching were observed during the inspection. Section 05 was recently constructed and was in *Excellent* condition with low-severity joint seal damage noted throughout along with small amounts of low-severity corner break.

T-Hangar

The T-hangar area was defined by two sections. Section 01 consisted of most of the T-hangar area with multiple distresses recorded. These distresses include medium-severity ASR and shattered slab, medium- and high-severity corner break, all severities of corner spalling, low-

severity faulting, high-severity joint seal damage and small patching, and low- and medium-severity joint spalling and LTD cracking. High-severity corner spalling and joint seal damage were observed in Section 02.

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 Pella 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 Pella 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 Pella 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 Pella 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	A01PE	01	PCC	Major Rehabilitation	\$890,204
2025	A01PE	02	PCC	Major Rehabilitation	\$282,904
2025	A01PE	03	PCC	Preventive Maintenance	\$8,587
2025	A01PE	04	PCC	Preventive Maintenance	\$4,391
2025	A01PE	05	PCC	Preventive Maintenance	\$205
2025	R16PE	03	PCC	Preventive Maintenance	\$6,549
2025	R16PE	05	PCC	Major Rehabilitation	\$108,729
2025	R16PE	06	PCC	Preventive Maintenance	\$5,792
2025	R16PE	07	PCC	Preventive Maintenance	\$10,788
2025	R16PE	08	PCC	Preventive Maintenance	\$5,698
2025	R16PE	09	PCC	Preventive Maintenance	\$7,371
2025	R16PE	10	PCC	Preventive Maintenance	\$2,201
2025	R16PE	11	PCC	Major Rehabilitation	\$133,700
2025	T01PE	01	PCC	Major Rehabilitation	\$76,365
2025	TH01PE	01	PCC	Preventive Maintenance	\$31,765
2025	TH01PE	02	PCC	Preventive Maintenance	\$1,340
2028	TH01PE	01	PCC	Major Rehabilitation	\$198,740
Total Estimated Cost:					\$1,775,000

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 Pella Municipal Airport.

The recommendations made in this report are based on a broad network-level analysis and meant to provide Pella 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 Pella 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, Pella 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 Pella 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, Pella 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, aprons, and T-hangars at Pella 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, aprons, and T-hangars 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 Pella 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 Pella 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
A01PE	01					
A01PE	02					
A01PE	03					
A01PE	04					
A01PE	05					
R16PE	01					

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
R16PE	03					
R16PE	05					
R16PE	06					
R16PE	07					
R16PE	08					
R16PE	09					

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
R16PE	10					
R16PE	11					
T01PE	01					
T01PE	02					
TH01PE	01					
TH01PE	02					

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 Pella Municipal Airport. A visual inspection of the pavements in 2025 found that the overall condition of the pavement network is a PCI of 82. A 5-year pavement repair program, shown in Table 2, was generated for Pella Municipal Airport, which revealed that approximately \$1,775,000 needs to be expended on M&R. Pella 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

A01PE-01. ASR (Sample Unit No. 09).



A01PE-01. ASR (Sample Unit No. 15).



A01PE-01. Small Patching (Sample Unit No. 09).



A01PE-02. Overview.



A01PE-02. ASR (Sample Unit No. 01).



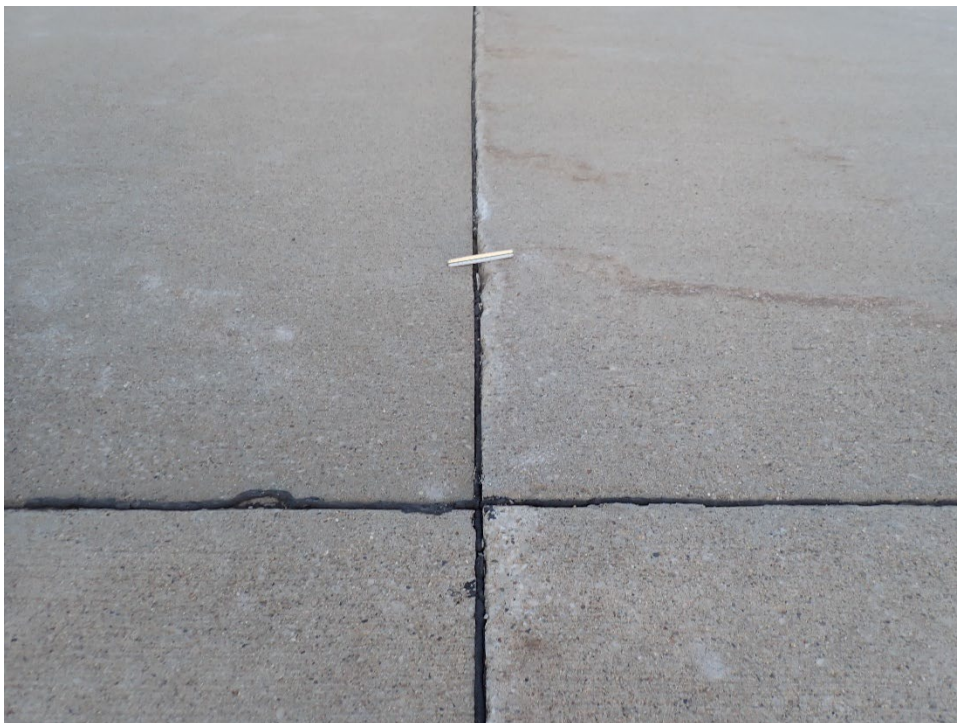
A01PE-02. Large Patching (Sample Unit No. 01).



A01PE-03. Overview.



A01PE-03. Faulting (Sample Unit No. 03).



A01PE-03. Joint Seal Damage (Sample Unit No. 03).



A01PE-03. Joint Spalling (Sample Unit No. 03).



A01PE-04. Overview.



A01PE-04. Joint Seal Damage (Sample Unit No. 02).



A01PE-05. Overview.



A01PE-05. Corner Break (Sample Unit No. 07).



A01PE-05. Joint Seal Damage (Sample Unit No. 01).



R16PE-01. Overview.



R16PE-01. Joint Seal Damage (Sample Unit No. 12).



R16PE-03. Overview.



R16PE-03. LTD Cracking (Sample Unit No. 31).



R16PE-03. Large Patching (Sample Unit No. 31).



R16PE-05. Overview.



R16PE-05. ASR (Sample Unit No. 01) (1).



R16PE-05. ASR (Sample Unit No. 01) (2).



R16PE-05. Large Patching (Sample Unit No. 01).



R16PE-06. Overview.



R16PE-06. Joint Seal Damage (Sample Unit No. 20).



R16PE-06. Large Patching (Sample Unit No. 20).



R16PE-07. Overview.



R16PE-07. Corner Spalling (Sample Unit No. 04).



R16PE-07. Large Patching (Sample Unit No. 04).



R16PE-08. Overview.



R16PE-08. Joint Seal Damage (Sample Unit No. 01).



R16PE-09. Overview.



R16PE-09. Faulting (Sample Unit No. 05).



R16PE-09. Joint Seal Damage (Sample Unit No. 05).



R16PE-10. Overview.



R16PE-10. Joint Seal Damage (Sample Unit No. 02).



R16PE-10. Large Patching (Sample Unit No. 02).



R16PE-11. Overview.



R16PE-11. ASR (Sample Unit No. 03).



R16PE-11. Large Patching (Sample Unit No. 03).



T01PE-01. Overview.



T01PE-01. ASR (Sample Unit No. 01).



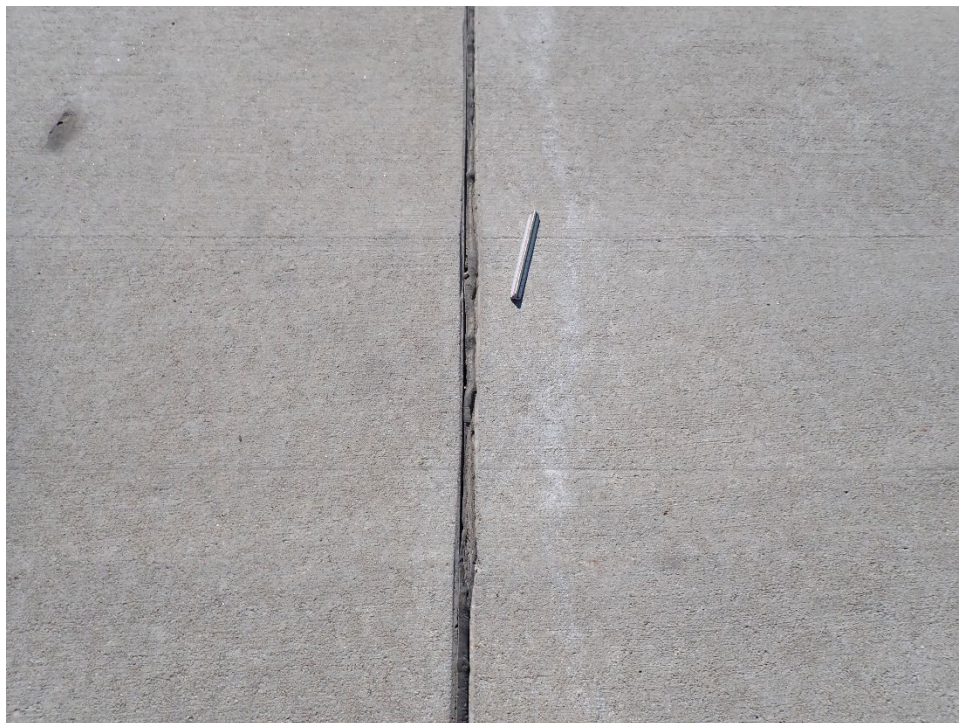
T01PE-02. Overview.



T01PE-02. ASR (Sample Unit No. 01).



T01PE-02. Joint Seal Damage (Sample Unit No. 01).



TH01PE-01. Overview.



TH01PE-01. Corner Break (Sample Unit No. 09).



TH01PE-01. Joint Seal Damage (Sample Unit No. 01).



TH01PE-01. Joint Seal Damage (Sample Unit No. 05).



TH01PE-01. Shattered Slab (Sample Unit No. 06).



TH01PE-02. Overview.



TH01PE-02. Corner Spalling (Sample Unit No. 02).



TH01PE-02. Joint Seal Damage (Sample Unit No. 01).



APPENDIX C

INSPECTION REPORT

RE-INSPECTION REPORT

PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
Network ID: PEA

Generate Date: 8/11/2025
Page 1

Branch - Section ID: A01PE - 001

Branch Name: APRON Use: APRON

LCD: 6/3/1969 PCI Family: IowaPCCAP_SE_General
Surface Type: PCC
Rank: P
Section Area (sf): 47,200.00
Length (ft): 200.00
Width (ft): 236.00
From: HANGER
To: TAXIWAY 01
Slabs: 286 Section Comments:
Slab Length (ft): 13.30
Slab Width (ft): 12.40
Joint Length (ft): 6,919.32
Last Insp Date: 3/12/2025 Inspection Comments:
PCI: 27
Total Samples: 15
Surveyed: 6

Sample Number: 02

Sample Type: R Sample Comments:
Sample PCI: 30
Sample Area (Slabs): 20.00
63 LINEAR CR M 2.00 Slabs
65 JT SEAL DMG H 20.00 Slabs
66 SMALL PATCH L 2.00 Slabs
68 POPOUTS N 20.00 Slabs
76 ASR L 4.00 Slabs
76 ASR M 10.00 Slabs

Sample Number: 03

Sample Type: R Sample Comments:
Sample PCI: 21
Sample Area (Slabs): 20.00
65 JT SEAL DMG H 20.00 Slabs
66 SMALL PATCH L 2.00 Slabs
67 LARGE PATCH L 10.00 Slabs
68 POPOUTS N 20.00 Slabs
76 ASR H 1.00 Slabs
76 ASR L 3.00 Slabs
76 ASR M 16.00 Slabs

Sample Number: 06

Sample Type: R Sample Comments:
Sample PCI: 32
Sample Area (Slabs): 15.00
65 JT SEAL DMG H 15.00 Slabs
67 LARGE PATCH L 2.00 Slabs
68 POPOUTS N 15.00 Slabs
76 ASR L 2.00 Slabs
76 ASR M 10.00 Slabs

RE-INSPECTION REPORT

PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
Network ID: PEA

Generate Date: 8/11/2025
Page 2

Sample Number: 09

Sample Type: R
Sample PCI: 27
Sample Area (Slabs): 20.00

Sample Comments:

65 JT SEAL DMG	H	20.00 Slabs
66 SMALL PATCH	L	8.00 Slabs
67 LARGE PATCH	L	11.00 Slabs
68 POPOUTS	N	16.00 Slabs
76 ASR	M	13.00 Slabs

Sample Number: 12

Sample Type: R
Sample PCI: 32
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	H	24.00 Slabs
67 LARGE PATCH	L	6.00 Slabs
68 POPOUTS	N	24.00 Slabs
76 ASR	L	2.00 Slabs
76 ASR	M	17.00 Slabs

Sample Number: 15

Sample Type: R
Sample PCI: 19
Sample Area (Slabs): 24.00

Sample Comments:

63 LINEAR CR	M	1.00 Slabs
65 JT SEAL DMG	H	24.00 Slabs
66 SMALL PATCH	L	3.00 Slabs
67 LARGE PATCH	L	15.00 Slabs
68 POPOUTS	N	6.00 Slabs
74 JOINT SPALL	M	1.00 Slabs
76 ASR	H	2.00 Slabs
76 ASR	M	7.00 Slabs

RE-INSPECTION REPORT

PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
Network ID: PEA

Generate Date: 8/11/2025
Page 3

Branch - Section ID: A01PE - 002

Branch Name: APRON

Use: APRON

LCD: 1/1/2000
Surface Type: PCC
Rank: P
Section Area (sf): 15,000.00
Length (ft): 200.00
Width (ft): 75.00
From: A01PE-01
To: A01PE-03
Slabs: 92
Slab Length (ft): 13.00
Slab Width (ft): 12.50
Joint Length (ft): 2,078.85
Last Insp Date: 3/12/2025
PCI: 17
Total Samples: 4
Surveyed: 3

PCI Family: IowaPCCAP_SE_General

Section Comments:

Inspection Comments:

Sample Number: 01

Sample Type: R
Sample PCI: 16
Sample Area (Slabs): 30.00

Sample Comments:

65 JT SEAL DMG	H	30.00 Slabs
66 SMALL PATCH	L	7.00 Slabs
67 LARGE PATCH	L	16.00 Slabs
76 ASR	H	3.00 Slabs
76 ASR	L	4.00 Slabs
76 ASR	M	21.00 Slabs

Sample Number: 02

Sample Type: R
Sample PCI: 17
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	H	24.00 Slabs
66 SMALL PATCH	L	3.00 Slabs
67 LARGE PATCH	L	9.00 Slabs
67 LARGE PATCH	M	1.00 Slabs
76 ASR	H	2.00 Slabs
76 ASR	L	2.00 Slabs
76 ASR	M	16.00 Slabs

Sample Number: 03

Sample Type: R
Sample PCI: 20
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	H	24.00 Slabs
66 SMALL PATCH	L	2.00 Slabs
66 SMALL PATCH	M	1.00 Slabs
67 LARGE PATCH	L	4.00 Slabs
76 ASR	H	2.00 Slabs
76 ASR	L	2.00 Slabs
76 ASR	M	14.00 Slabs

RE-INSPECTION REPORT

PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
Network ID: PEA

Generate Date: 8/11/2025
Page 4

Branch - Section ID: A01PE - 003

Branch Name: APRON Use: APRON

LCD: 1/1/2000 PCI Family: IowaPCCAP_SE_General
Surface Type: PCC
Rank: P
Section Area (sf): 16,500.00
Length (ft): 220.00
Width (ft): 75.00
From: A01PE-02
To: A01PE-04
Slabs: 106
Slab Length (ft): 12.50
Slab Width (ft): 12.50
Joint Length (ft): 2,345.00
Last Insp Date: 3/12/2025
PCI: 78
Total Samples: 5
Surveyed: 4

Section Comments:

Inspection Comments:

Sample Number: 01

Sample Type: R Sample Comments:
Sample PCI: 82
Sample Area (Slabs): 24.00
65 JT SEAL DMG H 24.00 Slabs
67 LARGE PATCH L 1.00 Slabs
75 CORNER SPALL M 1.00 Slabs

Sample Number: 02

Sample Type: R Sample Comments:
Sample PCI: 80
Sample Area (Slabs): 24.00
63 LINEAR CR M 1.00 Slabs
65 JT SEAL DMG H 24.00 Slabs
74 JOINT SPALL L 1.00 Slabs
75 CORNER SPALL L 1.00 Slabs

Sample Number: 03

Sample Type: R Sample Comments:
Sample PCI: 64
Sample Area (Slabs): 24.00
63 LINEAR CR M 2.00 Slabs
65 JT SEAL DMG H 24.00 Slabs
71 FAULTING L 2.00 Slabs
74 JOINT SPALL H 1.00 Slabs
75 CORNER SPALL M 2.00 Slabs

Sample Number: 04

Sample Type: R Sample Comments:
Sample PCI: 88
Sample Area (Slabs): 18.00
65 JT SEAL DMG H 18.00 Slabs

RE-INSPECTION REPORT

PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
Network ID: PEA

Generate Date: 8/11/2025
Page 5

Branch - Section ID: A01PE - 004

Branch Name: APRON Use: APRON

LCD: 1/1/2000 PCI Family: IowaPCCAP_SE_General
Surface Type: PCC
Rank: P
Section Area (sf): 8,230.00
Length (ft): 110.00
Width (ft): 75.00
From: A01PE-30
To: ..
Slabs: 60 Section Comments:
Slab Length (ft): 10.90
Slab Width (ft): 12.50
Joint Length (ft): 1,228.89
Last Insp Date: 3/12/2025 Inspection Comments:
PCI: 85
Total Samples: 3
Surveyed: 3

Sample Number: 01

Sample Type: R Sample Comments:
Sample PCI: 88
Sample Area (Slabs): 24.00
65 JT SEAL DMG H 24.00 Slabs

Sample Number: 02

Sample Type: R Sample Comments:
Sample PCI: 87
Sample Area (Slabs): 24.00
65 JT SEAL DMG H 24.00 Slabs
66 SMALL PATCH L 1.00 Slabs

Sample Number: 03

Sample Type: R Sample Comments:
Sample PCI: 76
Sample Area (Slabs): 12.00
65 JT SEAL DMG H 12.00 Slabs
66 SMALL PATCH L 1.00 Slabs
74 JOINT SPALL M 1.00 Slabs
75 CORNER SPALL M 1.00 Slabs

RE-INSPECTION REPORT PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024

Generate Date: 8/11/2025

Network ID: PEA

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Branch - Section ID: A01PE - 005

Branch Name: APRON

Use: APRON

LCD: 7/3/2023

PCI Family: IowaPCCAP_SE_General

Surface Type: PCC

Rank: P

Section Area (sf): 80,309.00

Length (ft): 530.00

Width (ft): 150.00

From: SEE MAP

To: SEE MAP

Slabs: 535

Section Comments:

Slab Length (ft): 12.00

Slab Width (ft): 12.50

Joint Length (ft): 12,430.22

Last Insp Date: 3/12/2025

Inspection Comments:

PCI: 97

Total Samples: 27

Surveyed: 7

Sample Number: 01

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 20.00

65 JT SEAL DMG

L

20.00 Slabs

Sample Number: 07

Sample Type: R

Sample Comments:

Sample PCI: 94

Sample Area (Slabs): 20.00

62 CORNER BREAK

L

1.00 Slabs

65 JT SEAL DMG

L

20.00 Slabs

Sample Number: 11

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 20.00

65 JT SEAL DMG

L

20.00 Slabs

Sample Number: 15

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 20.00

65 JT SEAL DMG

L

20.00 Slabs

Sample Number: 21

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 20.00

65 JT SEAL DMG

L

20.00 Slabs

Sample Number: 23

Sample Type: R

Sample Comments:

Sample PCI: 94

Sample Area (Slabs): 20.00

62 CORNER BREAK

L

1.00 Slabs

65 JT SEAL DMG

L

20.00 Slabs

RE-INSPECTION REPORT
PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
Network ID: PEA

Generate Date: 8/11/2025
Page 7

Sample Number: 26

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 20.00
65 JT SEAL DMG

Sample Comments:

L 20.00 Slabs

RE-INSPECTION REPORT PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024

Generate Date: 8/11/2025

Network ID: PEA

Page 8

Branch - Section ID: R16PE - 001

Branch Name: RUNWAY 16/34

Use: RUNWAY

LCD: 11/3/2020

PCI Family: IowaPCCRW_SE_General

Surface Type: PCC

Rank: P

Section Area (sf): 148,196.00

Length (ft): 1,000.00

Width (ft): 75.00

From: RUNWAY END 34

To: RUNWAY SECT 02

Slabs: 790

Section Comments:

Slab Length (ft): 15.00

Slab Width (ft): 12.50

Joint Length (ft): 19,611.27

Last Insp Date: 3/12/2025

Inspection Comments:

PCI: 98

Total Samples: 39

Surveyed: 8

Sample Number: 03

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 21.00

65 JT SEAL DMG

L

21.00 Slabs

Sample Number: 04

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 21.00

65 JT SEAL DMG

L

21.00 Slabs

Sample Number: 11

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 21.00

65 JT SEAL DMG

L

21.00 Slabs

Sample Number: 12

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 21.00

65 JT SEAL DMG

L

21.00 Slabs

Sample Number: 27

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 20.00

65 JT SEAL DMG

L

20.00 Slabs

Sample Number: 28

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 20.00

65 JT SEAL DMG

L

20.00 Slabs

RE-INSPECTION REPORT
PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
Network ID: PEA

Generate Date: 8/11/2025
Page 9

Sample Number: 33

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 20.00
65 JT SEAL DMG

Sample Comments:

L 20.00 Slabs

Sample Number: 34

Sample Type: R
Sample PCI: 98
Sample Area (Slabs): 20.00
65 JT SEAL DMG

Sample Comments:

L 20.00 Slabs

RE-INSPECTION REPORT

PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
Network ID: PEA

Generate Date: 8/11/2025
Page 10

Branch - Section ID: R16PE - 003

Branch Name: RUNWAY 16/34 Use: RUNWAY

LCD: 10/2/1969 PCI Family: IowaPCCRW_SE_General
Surface Type: PCC
Rank: P
Section Area (sf): 139,475.00
Length (ft): 2,800.00
Width (ft): 50.00
From: CENT 50' FROM SECT 01
To: RUNWAY END 16
Slabs: 744 Section Comments:
Slab Length (ft): 15.00
Slab Width (ft): 12.50
Joint Length (ft): 17,617.02
Last Insp Date: 3/12/2025 Inspection Comments:
PCI: 82
Total Samples: 38
Surveyed: 8

Sample Number: 06

Sample Type: R Sample Comments:
Sample PCI: 80
Sample Area (Slabs): 20.00
65 JT SEAL DMG L 20.00 Slabs
66 SMALL PATCH L 2.00 Slabs
67 LARGE PATCH L 1.00 Slabs
75 CORNER SPALL H 1.00 Slabs
76 ASR L 2.00 Slabs

Sample Number: 07

Sample Type: R Sample Comments:
Sample PCI: 75
Sample Area (Slabs): 20.00
63 LINEAR CR L 1.00 Slabs
65 JT SEAL DMG L 20.00 Slabs
66 SMALL PATCH L 3.00 Slabs
67 LARGE PATCH L 1.00 Slabs
73 SHRINKAGE CR N 3.00 Slabs
76 ASR L 3.00 Slabs

Sample Number: 16

Sample Type: R Sample Comments:
Sample PCI: 89
Sample Area (Slabs): 20.00
65 JT SEAL DMG L 20.00 Slabs
66 SMALL PATCH L 1.00 Slabs
67 LARGE PATCH L 2.00 Slabs
73 SHRINKAGE CR N 2.00 Slabs

Sample Number: 17

Sample Type: R Sample Comments:
Sample PCI: 89
Sample Area (Slabs): 20.00
65 JT SEAL DMG L 20.00 Slabs
67 LARGE PATCH L 3.00 Slabs

RE-INSPECTION REPORT

PELLA MUNICIPAL AIRPORT

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Sample Number: 26

Sample Type: R	Sample Comments:	
Sample PCI: 82		
Sample Area (Slabs): 20.00		
65 JT SEAL DMG	L	20.00 Slabs
67 LARGE PATCH	L	4.00 Slabs
67 LARGE PATCH	M	1.00 Slabs

Sample Number: 27

Sample Type: R	Sample Comments:	
Sample PCI: 86		
Sample Area (Slabs): 20.00		
63 LINEAR CR	M	1.00 Slabs
65 JT SEAL DMG	L	20.00 Slabs
66 SMALL PATCH	L	1.00 Slabs

Sample Number: 31

Sample Type: R	Sample Comments:	
Sample PCI: 64		
Sample Area (Slabs): 20.00		
63 LINEAR CR	M	3.00 Slabs
65 JT SEAL DMG	L	20.00 Slabs
66 SMALL PATCH	L	2.00 Slabs
67 LARGE PATCH	L	2.00 Slabs
73 SHRINKAGE CR	N	5.00 Slabs

Sample Number: 34

Sample Type: R	Sample Comments:	
Sample PCI: 91		
Sample Area (Slabs): 20.00		
65 JT SEAL DMG	L	20.00 Slabs
66 SMALL PATCH	L	1.00 Slabs
67 LARGE PATCH	L	2.00 Slabs

RE-INSPECTION REPORT

PELLA MUNICIPAL AIRPORT

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Branch - Section ID: R16PE - 005

Branch Name: RUNWAY 16/34 Use: RUNWAY

LCD: 6/1/1989 PCI Family: IowaPCCRW_SE_General
Surface Type: PCC
Rank: P
Section Area (sf): 5,765.00
Length (ft): 66.00
Width (ft): 88.00
From: R16PE-04
To: ..
Slabs: 33 Section Comments:
Slab Length (ft): 13.20
Slab Width (ft): 13.30
Joint Length (ft): 717.34
Last Insp Date: 3/12/2025 Inspection Comments:
PCI: 38
Total Samples: 2
Surveyed: 2

Sample Number: 01

Sample Type: R Sample Comments:
Sample PCI: 32
Sample Area (Slabs): 15.00
63 LINEAR CR L 1.00 Slabs
63 LINEAR CR M 1.00 Slabs
65 JT SEAL DMG H 15.00 Slabs
66 SMALL PATCH L 6.00 Slabs
67 LARGE PATCH L 4.00 Slabs
76 ASR L 6.00 Slabs
76 ASR M 5.00 Slabs

Sample Number: 02

Sample Type: R Sample Comments:
Sample PCI: 43
Sample Area (Slabs): 18.00
65 JT SEAL DMG H 18.00 Slabs
66 SMALL PATCH L 5.00 Slabs
76 ASR L 9.00 Slabs
76 ASR M 7.00 Slabs

RE-INSPECTION REPORT

PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
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Generate Date: 8/11/2025
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Branch - Section ID: R16PE - 006

Branch Name: RUNWAY 16/34 Use: RUNWAY

LCD: 6/1/1989 PCI Family: IowaPCCRW_SE_General
Surface Type: PCC
Rank: P
Section Area (sf): 82,427.00
Length (ft): 1,000.00
Width (ft): 75.00
From: R16PE-03
To: R16PE-09
Slabs: 559
Slab Length (ft): 11.80
Slab Width (ft): 12.50
Joint Length (ft): 12,398.05
Last Insp Date: 3/12/2025
PCI: 89
Total Samples: 25
Surveyed: 7

Section Comments:

Inspection Comments:

Sample Number: 02

Sample Type: R
Sample PCI: 93
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	L	24.00 Slabs
66 SMALL PATCH	L	1.00 Slabs
67 LARGE PATCH	L	1.00 Slabs
74 JOINT SPALL	L	1.00 Slabs

Sample Number: 03

Sample Type: R
Sample PCI: 85
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	M	24.00 Slabs
66 SMALL PATCH	L	1.00 Slabs
67 LARGE PATCH	L	3.00 Slabs
75 CORNER SPALL	L	1.00 Slabs

Sample Number: 10

Sample Type: R
Sample PCI: 97
Sample Area (Slabs): 24.00

Sample Comments:

65 JT SEAL DMG	L	24.00 Slabs
66 SMALL PATCH	L	1.00 Slabs

Sample Number: 11

Sample Type: R
Sample PCI: 89
Sample Area (Slabs): 24.00

Sample Comments:

63 LINEAR CR	L	1.00 Slabs
65 JT SEAL DMG	L	24.00 Slabs
67 LARGE PATCH	L	2.00 Slabs

RE-INSPECTION REPORT
PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
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Sample Number: 14

Sample Type: R	Sample Comments:	
Sample PCI: 88		
Sample Area (Slabs): 24.00		
65 JT SEAL DMG	L	24.00 Slabs
71 FAULTING	L	3.00 Slabs

Sample Number: 15

Sample Type: R	Sample Comments:	
Sample PCI: 81		
Sample Area (Slabs): 24.00		
65 JT SEAL DMG	L	24.00 Slabs
71 FAULTING	L	6.00 Slabs

Sample Number: 20

Sample Type: R	Sample Comments:	
Sample PCI: 93		
Sample Area (Slabs): 24.00		
65 JT SEAL DMG	L	24.00 Slabs
66 SMALL PATCH	L	1.00 Slabs
67 LARGE PATCH	L	1.00 Slabs
74 JOINT SPALL	L	1.00 Slabs

RE-INSPECTION REPORT

PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
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Branch - Section ID: R16PE - 007

Branch Name: RUNWAY 16/34 Use: RUNWAY

LCD: 6/1/1989 PCI Family: IowaPCCRW_SE_General
Surface Type: PCC
Rank: P
Section Area (sf): 36,341.00
Length (ft): 400.00
Width (ft): 75.00
From: R16PE-01
To: R16PE-08
Slabs: 255
Slab Length (ft): 11.40
Slab Width (ft): 12.50
Joint Length (ft): 5,519.69
Last Insp Date: 3/12/2025
PCI: 85
Total Samples: 12
Surveyed: 6

Section Comments:

Inspection Comments:

Sample Number: 03

Sample Type: R
Sample PCI: 84
Sample Area (Slabs): 18.00
65 JT SEAL DMG M 18.00 Slabs
67 LARGE PATCH M 1.00 Slabs

Sample Comments:

Sample Number: 04

Sample Type: R
Sample PCI: 76
Sample Area (Slabs): 18.00
65 JT SEAL DMG L 18.00 Slabs
66 SMALL PATCH L 3.00 Slabs
67 LARGE PATCH L 1.00 Slabs
67 LARGE PATCH M 1.00 Slabs
75 CORNER SPALL M 1.00 Slabs

Sample Comments:

Sample Number: 06

Sample Type: R
Sample PCI: 92
Sample Area (Slabs): 24.00
65 JT SEAL DMG M 24.00 Slabs
74 JOINT SPALL L 1.00 Slabs

Sample Comments:

Sample Number: 07

Sample Type: R
Sample PCI: 93
Sample Area (Slabs): 24.00
65 JT SEAL DMG L 24.00 Slabs
66 SMALL PATCH L 3.00 Slabs
66 SMALL PATCH M 1.00 Slabs

Sample Comments:

RE-INSPECTION REPORT
PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
Network ID: PEA

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Sample Number: 09

Sample Type: R	Sample Comments:	
Sample PCI: 89		
Sample Area (Slabs): 24.00		
65 JT SEAL DMG	L	24.00 Slabs
66 SMALL PATCH	L	3.00 Slabs
71 FAULTING	L	2.00 Slabs

Sample Number: 12

Sample Type: R	Sample Comments:	
Sample PCI: 74		
Sample Area (Slabs): 21.00		
63 LINEAR CR	M	1.00 Slabs
65 JT SEAL DMG	L	21.00 Slabs
66 SMALL PATCH	L	3.00 Slabs
66 SMALL PATCH	M	1.00 Slabs
67 LARGE PATCH	L	1.00 Slabs
76 ASR	L	2.00 Slabs

RE-INSPECTION REPORT
PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
Network ID: PEA

Generate Date: 8/11/2025
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Branch - Section ID: R16PE - 008

Branch Name: RUNWAY 16/34 Use: RUNWAY

LCD: 10/10/2004 PCI Family: IowaPCCRW_SE_General

Surface Type: PCC

Rank: P

Section Area (sf): 10,953.00

Length (ft): 185.00

Width (ft): 80.00

From: R16PE-07

To: ..

Slabs: 86 Section Comments:

Slab Length (ft): 11.30

Slab Width (ft): 11.30

Joint Length (ft): 1,742.47

Last Insp Date: 3/12/2025 Inspection Comments:

PCI: 93

Total Samples: 4

Surveyed: 3

Sample Number: 01

Sample Type: R Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 21.00

65 JT SEAL DMG M 21.00 Slabs

Sample Number: 02

Sample Type: R Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 21.00

65 JT SEAL DMG M 21.00 Slabs

Sample Number: 03

Sample Type: R Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 23.00

65 JT SEAL DMG M 23.00 Slabs

RE-INSPECTION REPORT
PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
Network ID: PEA

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Branch - Section ID: R16PE - 010

Branch Name: RUNWAY 16/34 Use: RUNWAY

LCD: 10/1/2011

Surface Type: PCC

Rank: P

Section Area (sf): 15,600.00

Length (ft): 208.00

Width (ft): 75.00

From: R16-07

To: R16-01

Slabs: 84

Slab Length (ft): 14.80

Slab Width (ft): 12.50

Joint Length (ft): 2,019.05

Last Insp Date: 3/12/2025

PCI: 95

Total Samples: 4

Surveyed: 3

PCI Family: IowaPCCRW_SE_General

Section Comments:

Inspection Comments:

Sample Number: 01

Sample Type: R

Sample PCI: 93

Sample Area (Slabs): 27.00

65 JT SEAL DMG

M

27.00 Slabs

Sample Comments:

Sample Number: 02

Sample Type: R

Sample PCI: 95

Sample Area (Slabs): 27.00

65 JT SEAL DMG

L

27.00 Slabs

67 LARGE PATCH

L

1.00 Slabs

Sample Comments:

Sample Number: 03

Sample Type: R

Sample PCI: 98

Sample Area (Slabs): 27.00

65 JT SEAL DMG

L

27.00 Slabs

Sample Comments:

RE-INSPECTION REPORT

PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024

Generate Date: 8/11/2025

Network ID: PEA

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Branch - Section ID: R16PE - 011

Branch Name: RUNWAY 16/34

Use: RUNWAY

LCD: 10/2/1989

PCI Family: IowaPCCRW_SE_General

Surface Type: PCC

Rank: P

Section Area (sf): 7,089.00

Length (ft): 78.00

Width (ft): 80.00

From: R16PE-10

To: END

Slabs: 55

Section Comments:

Slab Length (ft): 13.00

Slab Width (ft): 10.00

Joint Length (ft): 1,074.71

Last Insp Date: 3/12/2025

Inspection Comments:

PCI: 13

Total Samples: 3

Surveyed: 3

Sample Number: 01

Sample Type: R

Sample Comments:

Sample PCI: 13

Sample Area (Slabs): 18.00

65 JT SEAL DMG	H	18.00 Slabs
76 ASR	H	15.00 Slabs
76 ASR	M	3.00 Slabs

Sample Number: 02

Sample Type: R

Sample Comments:

Sample PCI: 13

Sample Area (Slabs): 18.00

65 JT SEAL DMG	H	18.00 Slabs
76 ASR	H	10.00 Slabs
76 ASR	L	1.00 Slabs
76 ASR	M	7.00 Slabs

Sample Number: 03

Sample Type: R

Sample Comments:

Sample PCI: 13

Sample Area (Slabs): 19.00

65 JT SEAL DMG	H	19.00 Slabs
67 LARGE PATCH	L	1.00 Slabs
76 ASR	H	8.00 Slabs
76 ASR	L	5.00 Slabs
76 ASR	M	6.00 Slabs

RE-INSPECTION REPORT

PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
Network ID: PEA

Generate Date: 8/11/2025
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Branch - Section ID: T01PE - 001

Branch Name: TAXIWAY 01 Use: TAXIWAY

LCD: 6/1/1969 PCI Family: IowaPCCTW_SE_General
Surface Type: PCC
Rank: P
Section Area (sf): 4,049.00
Length (ft): 93.00
Width (ft): 35.00
From: APRON 01
To: RUNWAY 16/34
Slabs: 34 Section Comments: avg slab length
Slab Length (ft): 13.80
Slab Width (ft): 9.25
Joint Length (ft): 571.91
Last Insp Date: 3/12/2025 Inspection Comments:
PCI: 12
Total Samples: 2
Surveyed: 2

Sample Number: 01

Sample Type: R Sample Comments:
Sample PCI: 18
Sample Area (Slabs): 12.00

63 LINEAR CR	M	2.00 Slabs
65 JT SEAL DMG	H	12.00 Slabs
66 SMALL PATCH	L	3.00 Slabs
67 LARGE PATCH	L	12.00 Slabs
68 POPOUTS	N	9.00 Slabs
76 ASR	L	2.00 Slabs
76 ASR	M	10.00 Slabs

Sample Number: 02

Sample Type: R Sample Comments:
Sample PCI: 9
Sample Area (Slabs): 22.00

62 CORNER BREAK	L	1.00 Slabs
63 LINEAR CR	M	1.00 Slabs
65 JT SEAL DMG	H	22.00 Slabs
66 SMALL PATCH	L	6.00 Slabs
66 SMALL PATCH	M	7.00 Slabs
67 LARGE PATCH	L	7.00 Slabs
68 POPOUTS	N	12.00 Slabs
76 ASR	H	6.00 Slabs
76 ASR	L	2.00 Slabs
76 ASR	M	11.00 Slabs

RE-INSPECTION REPORT

PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
Network ID: PEA

Generate Date: 8/11/2025
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Branch - Section ID: TH01PE - 001

Branch Name: T-HANGAR 01

Use: T-HANGAR

LCD: 1/1/1969
Surface Type: PCC
Rank: P
Section Area (sf): 20,811.00
Length (ft): 1,010.00
Width (ft): 20.00
From: SEE MAP
To: SEE MAP

PCI Family: IowaPCCTH_SE

Slabs: 208
Slab Length (ft): 10.00
Slab Width (ft): 10.00
Joint Length (ft): 3,101.05
Last Insp Date: 3/12/2025
PCI: 64
Total Samples: 10
Surveyed: 5

Section Comments:

Inspection Comments:

Sample Number: 01

Sample Type: R
Sample PCI: 45
Sample Area (Slabs): 18.00

Sample Comments:

62 CORNER BREAK	H	2.00 Slabs
63 LINEAR CR	L	2.00 Slabs
63 LINEAR CR	M	2.00 Slabs
65 JT SEAL DMG	H	18.00 Slabs
71 FAULTING	L	1.00 Slabs
75 CORNER SPALL	M	2.00 Slabs

Sample Number: 03

Sample Type: R
Sample PCI: 85
Sample Area (Slabs): 20.00

Sample Comments:

66 SMALL PATCH	H	1.00 Slabs
71 FAULTING	L	1.00 Slabs
74 JOINT SPALL	L	1.00 Slabs
75 CORNER SPALL	L	1.00 Slabs

Sample Number: 05

Sample Type: R
Sample PCI: 83
Sample Area (Slabs): 18.00

Sample Comments:

65 JT SEAL DMG	H	18.00 Slabs
75 CORNER SPALL	H	1.00 Slabs

Sample Number: 06

Sample Type: R
Sample PCI: 41
Sample Area (Slabs): 18.00

Sample Comments:

63 LINEAR CR	M	1.00 Slabs
65 JT SEAL DMG	H	18.00 Slabs
72 SHAT. SLAB	M	1.00 Slabs
74 JOINT SPALL	M	1.00 Slabs
75 CORNER SPALL	H	1.00 Slabs
76 ASR	M	3.00 Slabs

RE-INSPECTION REPORT
PELLA MUNICIPAL AIRPORT

Pavement Database: IA 2024
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Sample Number: 09

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

Sample Comments:

62 CORNER BREAK	H	1.00 Slabs
62 CORNER BREAK	M	1.00 Slabs
63 LINEAR CR	M	2.00 Slabs
65 JT SEAL DMG	H	18.00 Slabs

RE-INSPECTION REPORT PELLA MUNICIPAL AIRPORT

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Branch - Section ID: TH01PE - 002

Branch Name: T-HANGAR 01

Use: T-HANGAR

LCD: 6/10/2017

PCI Family: IowaPCCTH_SE

Surface Type: PCC

Rank: P

Section Area (sf): 2,541.00

Length (ft): 160.00

Width (ft): 15.00

From: SEE MAP

To: SEE MAP

Slabs: 30

Section Comments:

Slab Length (ft): 11.40

Slab Width (ft): 7.50

Joint Length (ft): 376.41

Last Insp Date: 3/12/2025

Inspection Comments:

PCI: 86

Total Samples: 2

Surveyed: 2

Sample Number: 01

Sample Type: R

Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 16.00

65 JT SEAL DMG

H

16.00 Slabs

Sample Number: 02

Sample Type: R

Sample Comments:

Sample PCI: 83

Sample Area (Slabs): 14.00

65 JT SEAL DMG

H

14.00 Slabs

75 CORNER SPALL

H

1.00 Slabs

APPENDIX D

WORK HISTORY REPORT

WORK HISTORY

Pavement Database: IA 2024

Generate Date: 6/30/2025

Network ID: PEA

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Network: PELLA MUNICIPAL AIRPORT

Branch - Section ID: A01PE - 001

LCD: 6/3/1969
Use: APRON
Rank: P
Surface: PCC

Length (ft): 200.00
Width (ft): 236.00
True Area (sf): 47,200.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2020	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	EST
06-09-2017	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	-
06-08-2017	CS-PC	Crack Sealing - PCC	\$0.00	0.00	False	-
10-01-2014	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	-
10-01-2011	SL-PC	Slab Replacement - PCC	\$0.00	0.00	False	Federal Funding - \$179,757
06-03-1969	NC-PC	New Construction - PCC	\$0.00	6.00	True	6" P501 PCC SURFACE
06-02-1969	SB-AG	Subbase - Aggregate	\$0.00	4.00	False	4" P154 SUBBASE
06-01-1969	SG-CO	Subgrade - Compacted	\$0.00	0.00	False	P152 COMPACTED SUBGRADE

Branch - Section ID: A01PE - 002

LCD: 1/1/2000
Use: APRON
Rank: P
Surface: PCC

Length (ft): 200.00
Width (ft): 75.00
True Area (sf): 15,000.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2020	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	EST
06-09-2017	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	-
06-08-2017	CS-PC	Crack Sealing - PCC	\$0.00	0.00	False	-
06-08-2017	JS-LC	Joint Seal (Localized)	\$0.00	0.00	False	PARTIAL
10-01-2014	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	-
01-01-2000	NC-IN	New Construction - Initial	\$0.00	0.00	True	-

Branch - Section ID: A01PE - 003

LCD: 1/1/2000
Use: APRON
Rank: P
Surface: PCC

Length (ft): 220.00
Width (ft): 75.00
True Area (sf): 16,500.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
10-01-2014	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	-
01-01-2000	NC-IN	New Construction - Initial	\$0.00	0.00	True	-

Branch - Section ID: A01PE - 004

LCD: 1/1/2000
Use: APRON
Rank: P
Surface: PCC

Length (ft): 110.00
Width (ft): 75.00
True Area (sf): 8,230.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
01-01-2000	NC-IN	New Construction - Initial	\$0.00	0.00	True	-

WORK HISTORY

Pavement Database: IA 2024

Generate Date: 6/30/2025

Network ID: PEA

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Branch - Section ID: A01PE - 005

LCD: 7/3/2023
Use: APRON
Rank: P
Surface: PCC

Length (ft): 530.00
Width (ft): 150.00
True Area (sf): 80,309.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
07-03-2023	NC-PC	New Construction - PCC	\$799,992.00	6.00	True	6" PCC PAVEMENT
07-02-2023	SB-AG	Subbase - Aggregate	\$0.00	6.00	False	6" MODIFIED SUBBASE (SPECIFICATION 2010 2.04 D. 3.)
07-01-2023	SG-CO	Subgrade - Compacted	\$0.00	6.00	False	6" SUBGRADE PREPARATION PER SPECIFICATION SECTION 2010

Branch - Section ID: R16PE - 001

LCD: 11/3/2020
Use: RUNWAY
Rank: P
Surface: PCC

Length (ft): 1,000.00
Width (ft): 75.00
True Area (sf): 148,196.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
11-03-2020	CR-PC	Complete Reconstruction - PCC	\$0.00	6.00	True	6" cement concrete pavement
11-02-2020	SG-ST	Subgrade - Stabilized	\$0.00	8.00	False	8" cement treated subgrade
11-01-2020	SG-CO	Subgrade - Compacted	\$0.00	0.00	False	Existing clay subgrade
06-09-2017	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	PATCHING, GIVEN EXISITNG CS: 6"P-501/ 4"P-208 (ASSUMED MAT.)
06-08-2017	JS-LC	Joint Seal (Localized)	\$0.00	0.00	False	PARTIAL
06-08-2017	CS-PC	Crack Sealing - PCC	\$0.00	0.00	False	-
10-01-2014	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	-
10-01-2011	SL-PC	Slab Replacement - PCC	\$0.00	0.00	False	Federal Funding - \$179,757
06-01-2007	PA-PP	Patching - PCC Partial Depth	\$10,163.00	0.00	False	Total Project Cost: \$44,187
10-02-1989	NC-PC	New Construction - PCC	\$0.00	6.00	True	6" P-501
10-01-1989	BA-AG	Base Course - Aggregate	\$0.00	4.00	False	4" P-208

Branch - Section ID: R16PE - 003

LCD: 10/2/1969
Use: RUNWAY
Rank: P
Surface: PCC

Length (ft): 2,800.00
Width (ft): 50.00
True Area (sf): 139,475.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
11-02-2021	JS-LC	Joint Seal (Localized)	\$0.00	0.00	False	-
11-01-2021	PA-PP	Patching - PCC Partial Depth	\$0.00	0.00	False	-
11-01-2021	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	-
06-09-2017	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	PATCHING, GIVEN EXISITNG CS: 6"P-501/ 4"P-208 (ASSUMED MAT.)
06-08-2017	CS-PC	Crack Sealing - PCC	\$0.00	0.00	False	-
10-01-2014	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	-
06-01-2007	PA-PP	Patching - PCC Partial Depth	\$14,582.00	0.00	False	Total Project Cost: \$44,187
10-02-1969	NC-PC	New Construction - PCC	\$0.00	6.00	True	6" P501
10-01-1969	BA-AG	Base Course - Aggregate	\$0.00	4.00	False	4" P-208

WORK HISTORY

Pavement Database: IA 2024

Generate Date: 6/30/2025

Network ID: PEA

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Branch - Section ID: R16PE - 005

LCD: 6/1/1989
Use: RUNWAY
Rank: P
Surface: PCC

Length (ft): 66.00
Width (ft): 88.00
True Area (sf): 5,765.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
11-01-2021	PA-PP	Patching - PCC Partial Depth	\$0.00	0.00	False	-
06-01-1989	NC-IN	New Construction - Initial	\$0.00	0.00	True	ESTIMATED CS: 6"P-501/ 4"P-208

Branch - Section ID: R16PE - 006

LCD: 6/1/1989
Use: RUNWAY
Rank: P
Surface: PCC

Length (ft): 1,000.00
Width (ft): 75.00
True Area (sf): 82,427.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
11-02-2021	JS-LC	Joint Seal (Localized)	\$0.00	0.00	False	-
11-01-2021	PA-PP	Patching - PCC Partial Depth	\$0.00	0.00	False	-
11-01-2021	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	-
11-13-2017	PA-PP	Patching - PCC Partial Depth	\$0.00	0.00	False	ESTIMATED CS: 6"P-501/ 4"P-208 (ASSUMED MAT.)
11-13-2017	JS-LC	Joint Seal (Localized)	\$0.00	0.00	False	PARTIAL
06-01-2007	PA-PP	Patching - PCC Partial Depth	\$8,396.00	0.00	False	Total Project Cost: \$44,187
06-01-1989	NC-IN	New Construction - Initial	\$0.00	6.00	True	6" P-501
05-31-1989	BA-AG	Base Course - Aggregate	\$0.00	4.00	False	4" P-208

Branch - Section ID: R16PE - 007

LCD: 6/1/1989
Use: RUNWAY
Rank: P
Surface: PCC

Length (ft): 400.00
Width (ft): 75.00
True Area (sf): 36,341.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
11-02-2021	JS-LC	Joint Seal (Localized)	\$0.00	0.00	False	-
11-01-2021	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	-
11-01-2021	PA-PP	Patching - PCC Partial Depth	\$0.00	0.00	False	-
10-01-2014	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	ESTIMATED CS CS: 6"P-501/ 4"P-208 (ASSUMED MAT.)
06-01-2007	PA-PP	Patching - PCC Partial Depth	\$3,977.00	0.00	False	Total Project Cost: \$44,187
06-01-1989	NC-IN	New Construction - Initial	\$0.00	6.00	True	6" P-501
05-31-1989	BA-AG	Base Course - Aggregate	\$0.00	4.00	False	4" P-208

Branch - Section ID: R16PE - 008

LCD: 10/10/2004
Use: RUNWAY
Rank: P
Surface: PCC

Length (ft): 185.00
Width (ft): 80.00
True Area (sf): 10,953.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
10-10-2004	NC-PC	New Construction - PCC	\$0.00	6.00	True	6" P-501 PCC SURFACE
10-09-2004	BA-AG	Base Course - Aggregate	\$0.00	4.00	False	4" P-208 ABC
10-08-2004	SG-CO	Subgrade - Compacted	\$0.00	12.00	False	12" P-152 COMPACTED SUBGRADE

WORK HISTORY

Pavement Database: IA 2024

Generate Date: 6/30/2025

Network ID: PEA

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Branch - Section ID: R16PE - 009

LCD: 10/10/2004
Use: RUNWAY
Rank: P
Surface: PCC

Length (ft): 185.00
Width (ft): 113.00
True Area (sf): 12,832.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
10-10-2004	NC-PC	New Construction - PCC	\$0.00	6.00	True	6" P-501 PCC SURFACE
10-09-2004	BA-AG	Base Course - Aggregate	\$0.00	4.00	False	4" P-208 ABC
10-08-2004	SG-CO	Subgrade - Compacted	\$0.00	12.00	False	12" P-152 COMPACTED SUBGRADE

Branch - Section ID: R16PE - 010

LCD: 10/1/2011
Use: RUNWAY
Rank: P
Surface: PCC

Length (ft): 208.00
Width (ft): 75.00
True Area (sf): 15,600.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
11-02-2021	JS-LC	Joint Seal (Localized)	\$0.00	0.00	False	-
11-01-2021	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	-
10-01-2011	CR-PC	Complete Reconstruction - PCC	\$0.00	0.00	True	ESTIMATED CS: 6"P-501/ 4"P-208
06-01-1989	NC-PC	New Construction - PCC	\$0.00	6.00	True	6" P-501
05-31-1989	BA-AG	Base Course - Aggregate	\$0.00	4.00	False	4" P-208

Branch - Section ID: R16PE - 011

LCD: 10/2/1989
Use: RUNWAY
Rank: P
Surface: PCC

Length (ft): 78.00
Width (ft): 80.00
True Area (sf): 7,089.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-09-2017	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	PATCHING, GIVEN EXISTING CS: 6"P-501/ 4"P-208 (ASSUMED MAT.)
06-08-2017	JS-LC	Joint Seal (Localized)	\$0.00	0.00	False	PARTIAL
06-08-2017	CS-PC	Crack Sealing - PCC	\$0.00	0.00	False	-
10-01-2014	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	-
10-01-2011	SL-PC	Slab Replacement - PCC	\$0.00	0.00	False	Federal Funding - \$179,757
06-01-2007	PA-PP	Patching - PCC Partial Depth	\$10,163.00	0.00	False	Total Project Cost: \$44,187
10-02-1989	NC-PC	New Construction - PCC	\$0.00	6.00	True	6" P-501
10-01-1989	BA-AG	Base Course - Aggregate	\$0.00	4.00	False	4" P-208

Branch - Section ID: T01PE - 001

LCD: 6/1/1969
Use: TAXIWAY
Rank: P
Surface: PCC

Length (ft): 93.00
Width (ft): 35.00
True Area (sf): 4,049.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
05-01-2022	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	EST
06-09-2017	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	-
06-08-2017	CS-PC	Crack Sealing - PCC	\$0.00	0.00	False	-
10-01-2014	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	-
06-01-1969	NC-PC	New Construction - PCC	\$0.00	0.00	True	6" P501/ 4" P208

WORK HISTORY

Pavement Database: IA 2024

Generate Date: 6/30/2025

Network ID: PEA

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Branch - Section ID: T01PE - 002

LCD: 11/3/2020
Use: TAXIWAY
Rank: P
Surface: PCC

Length (ft): 175.00
Width (ft): 35.00
True Area (sf): 7,625.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
11-03-2020	CR-PC	Complete Reconstruction - PCC	\$132,230.00	6.00	True	6" CEMENT CONCRETE PAVEMENT (P-501)
11-02-2020	SG-ST	Subgrade - Stabilized	\$0.00	6.00	False	8" CEMENT TREATED SUBGRADE (P-156);
11-01-2020	SG-CO	Subgrade - Compacted	\$0.00	0.00	False	EXISTING CLAY SUBGRADE
06-09-2017	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	-
06-08-2017	CS-PC	Crack Sealing - PCC	\$0.00	0.00	False	-
10-01-2014	PA-PF	Patching - PCC Full Depth	\$0.00	0.00	False	-
06-01-1969	NC-PC	New Construction - PCC	\$0.00	0.00	True	6" P501/ 4" P208

Branch - Section ID: TH01PE - 001

LCD: 1/1/1969
Use: T-HANGAR
Rank: P
Surface: PCC

Length (ft): 1,010.00
Width (ft): 20.00
True Area (sf): 20,811.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
01-01-1969	NC-PC	New Construction - PCC	\$0.00	0.00	True	DATE UNKNOWN

Branch - Section ID: TH01PE - 002

LCD: 6/10/2017
Use: T-HANGAR
Rank: P
Surface: PCC

Length (ft): 160.00
Width (ft): 15.00
True Area (sf): 2,541.00

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-10-2017	CR-PC	Complete Reconstruction - PCC	\$0.00	6.00	True	6" P-501 PCC SURFACE
06-09-2017	SB-AG	Subbase - Aggregate	\$0.00	4.00	False	4" P-154 SUBBASE
06-08-2017	SG-ST	Subgrade - Stabilized	\$0.00	0.00	False	STABILIZED SUBGRADE

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
A01PE	03	Corner Spalling	Medium	4	Slabs	Patching - PCC Partial Depth	\$40.74	\$387
A01PE	03	Joint Seal Damage	High	106	Slabs	Joint Seal (Localized)	\$3.27	\$7,668
A01PE	03	Joint Spalling	High	1	Slabs	Patching - PCC Partial Depth	\$40.74	\$387
A01PE	03	LTD Cracking	Medium	4	Slabs	Crack Sealing - PCC	\$3.27	\$144
A01PE	04	Corner Spalling	Medium	1	Slabs	Patching - PCC Partial Depth	\$40.74	\$110
A01PE	04	Joint Seal Damage	High	60	Slabs	Joint Seal (Localized)	\$3.27	\$4,018
A01PE	04	Joint Spalling	Medium	1	Slabs	Patching - PCC Partial Depth	\$40.74	\$263
A01PE	05	Corner Break	Low	8	Slabs	Crack Sealing - PCC	\$3.27	\$205
R16PE	03	Corner Spalling	High	5	Slabs	Patching - PCC Partial Depth	\$40.74	\$510
R16PE	03	Large Patch	Medium	5	Slabs	Patching - PCC Full Depth	\$18.19	\$5,203
R16PE	03	LTD Cracking	Medium	19	Slabs	Crack Sealing - PCC	\$3.27	\$836
R16PE	06	Joint Seal Damage	Medium	80	Slabs	Joint Seal (Localized)	\$3.27	\$5,792
R16PE	07	Corner Spalling	Medium	2	Slabs	Patching - PCC Partial Depth	\$40.74	\$217
R16PE	07	Joint Seal Damage	Medium	83	Slabs	Joint Seal (Localized)	\$3.27	\$5,877
R16PE	07	Large Patch	Medium	4	Slabs	Patching - PCC Full Depth	\$18.19	\$4,424
R16PE	07	LTD Cracking	Medium	2	Slabs	Crack Sealing - PCC	\$3.27	\$77
R16PE	07	Small Patch	Medium	4	Slabs	Patching - PCC Full Depth	\$18.19	\$194
R16PE	08	Joint Seal Damage	Medium	86	Slabs	Joint Seal (Localized)	\$3.27	\$5,698
R16PE	09	Joint Seal Damage	High	106	Slabs	Joint Seal (Localized)	\$3.27	\$7,031
R16PE	09	Joint Spalling	Medium	1	Slabs	Patching - PCC Partial Depth	\$40.74	\$340
R16PE	10	Joint Seal Damage	Medium	28	Slabs	Joint Seal (Localized)	\$3.27	\$2,201
TH01PE	01	ASR	Medium	7	Slabs	Slab Replacement - PCC	\$18.19	\$12,338

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
TH01PE	01	Corner Break	Medium	2	Slabs	Patching - PCC Full Depth	\$18.19	\$1,328
TH01PE	01	Corner Break	High	7	Slabs	Patching - PCC Full Depth	\$18.19	\$3,984
TH01PE	01	Corner Spalling	Medium	5	Slabs	Patching - PCC Partial Depth	\$40.74	\$496
TH01PE	01	Corner Spalling	High	5	Slabs	Patching - PCC Partial Depth	\$40.74	\$496
TH01PE	01	Joint Seal Damage	High	163	Slabs	Joint Seal (Localized)	\$3.27	\$7,936
TH01PE	01	Joint Spalling	Medium	2	Slabs	Patching - PCC Partial Depth	\$40.74	\$595
TH01PE	01	LTD Cracking	Medium	11	Slabs	Crack Sealing - PCC	\$3.27	\$370
TH01PE	01	Shattered Slab	Medium	2	Slabs	Slab Replacement - PCC	\$18.19	\$4,113
TH01PE	01	Small Patch	High	2	Slabs	Patching - PCC Full Depth	\$18.19	\$111
TH01PE	02	Corner Spalling	High	1	Slabs	Patching - PCC Partial Depth	\$40.74	\$110
TH01PE	02	Joint Seal Damage	High	30	Slabs	Joint Seal (Localized)	\$3.27	\$1,231

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 Pella Municipal Airport.



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