Newton Municipal Airport

- Earl Johnson Field

Pavement Management Report

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NEWTON MUNICIPAL AIRPORT - EARL JOHNSON FIELD PAVEMENT MANAGEMENT REPORT

Prepared For:



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Introduction August 2025

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 Newton Municipal Airport - Earl Johnson Field 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.

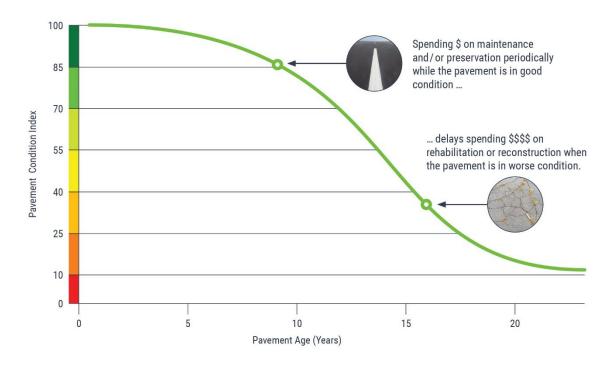


Figure 1. Pavement condition versus cost of repair.

Introduction August 2025

The pavement evaluation results for Newton Municipal Airport - Earl Johnson Field are presented within this report and can be used by Newton Municipal Airport - Earl Johnson Field, 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 <u>lowa DOT's website</u> or directly (<u>lowa APMS IDEA</u>).

Pavement Inventory August 2025

PAVEMENT INVENTORY

The project began with a review of the existing inventory information pertaining to the pavements at Newton Municipal Airport - Earl Johnson Field. 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 Newton Municipal Airport - Earl Johnson Field 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.

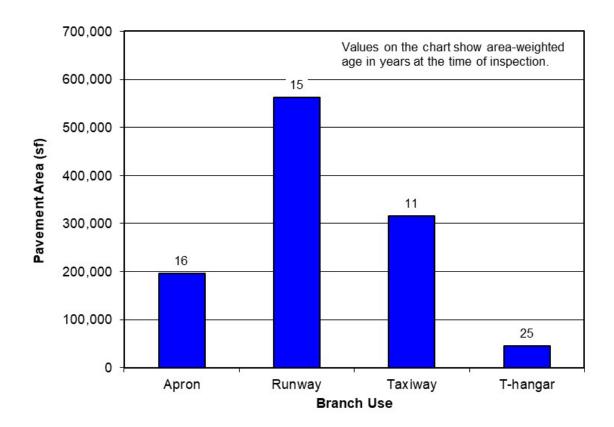
Each branch was further divided into sections. Traditionally, sections are defined as parts of the branch that share common attributes, such as cross section, date of last construction, traffic level, and performance. Using this approach, if a runway was built in 1968 and then extended in 1984, it would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

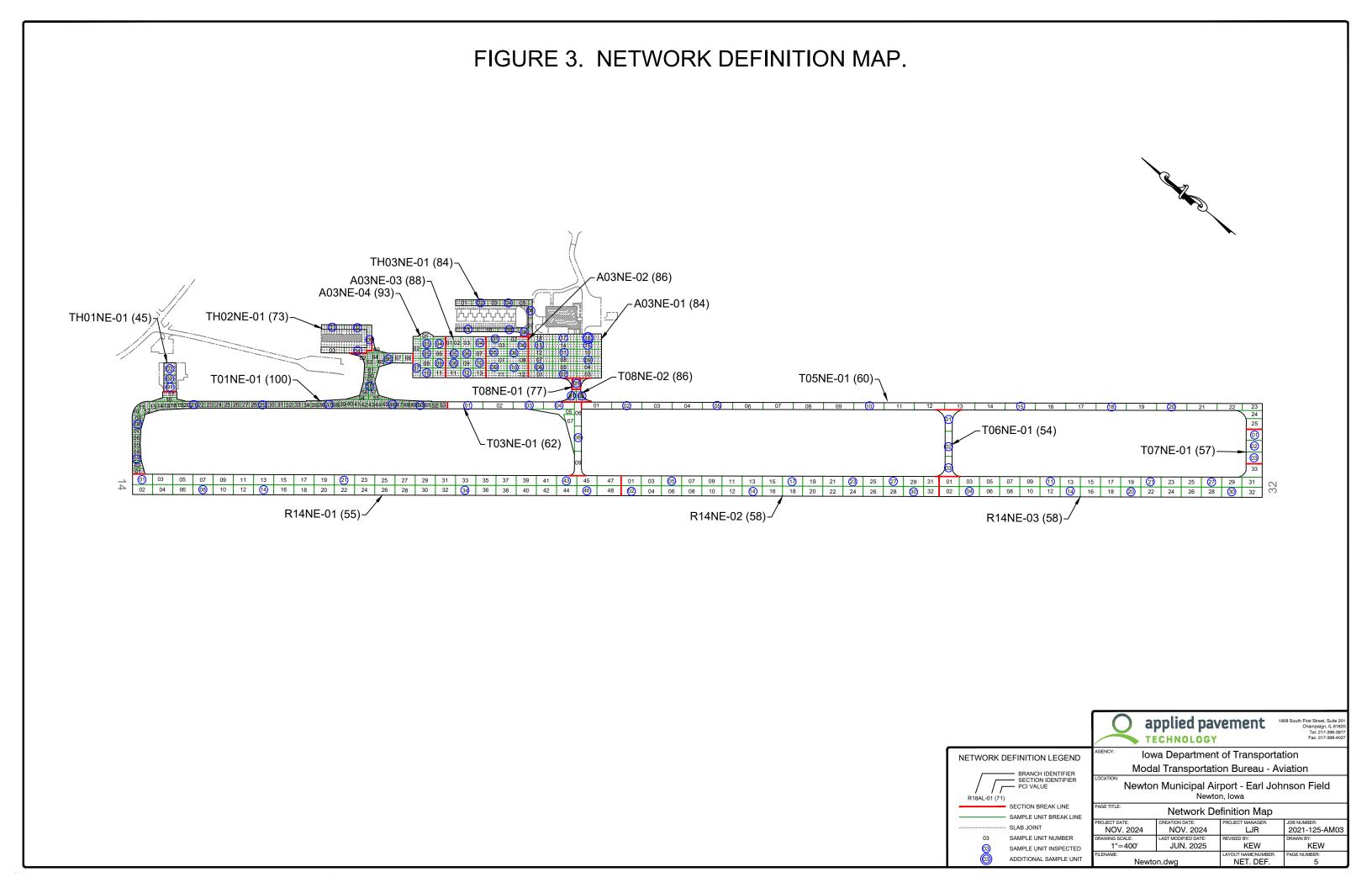
To estimate the overall condition of a pavement section, each section was subdivided into sample units. Portions of these sample units were evaluated during the pavement inspection, and the collected information was extrapolated to predict the overall section condition and quantities of distress.

Approximately 1,121,300 square feet of pavement were evaluated at Newton Municipal Airport - Earl Johnson Field, 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 Newton Municipal Airport - Earl Johnson Field.

Pavement Inventory August 2025

Figure 2. Pavement area by branch use at Newton Municipal Airport - Earl Johnson Field.





PAVEMENT EVALUATION

Pavement Evaluation Procedure

APTech visually inspected the pavements at Newton Municipal Airport - Earl Johnson Field using the PCI procedure described in:

- FAA Advisory Circular 150/5380-6C, <u>Guidelines and Procedures for Maintenance of Airport Pavements.</u>
- 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.

PCI: 100
PCI: 83

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

Note: Photographs shown are not specific to Newton Municipal Airport - Earl Johnson Field.

PCI: 66

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.

PCI Range

86-100

71-85

Preventive Maintenance

56-70

Major Rehabilitation

26-40

11-25

Reconstruction

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 asphaltsurfaced 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 Newton Municipal Airport - Earl Johnson Field were inspected in March 2025. The 2025 area-weighted condition of Newton Municipal Airport - Earl Johnson Field is 68, with conditions ranging from 45 to 100 (on a scale of 0 [failed] to 100 [excellent]). During the previous pavement inspection in 2021, the area-weighted PCI of the airport was 70.

Figure 6 summarizes the overall condition of the pavements at Newton Municipal Airport - Earl Johnson Field, 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 Newton Municipal Airport - Earl Johnson Field.

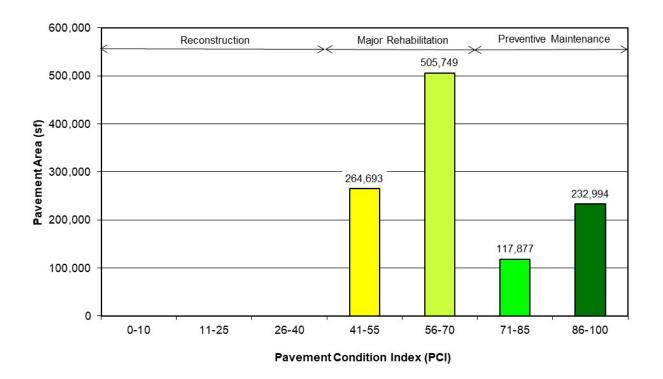
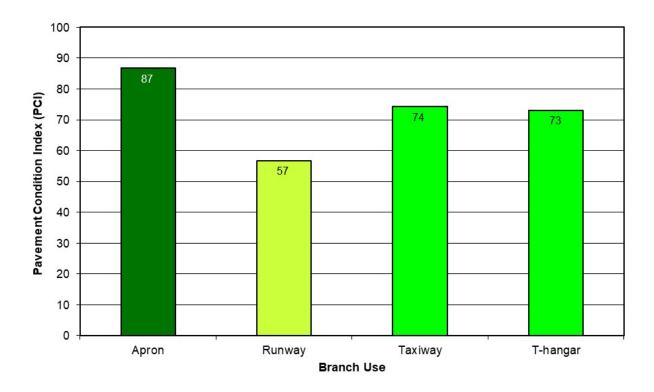
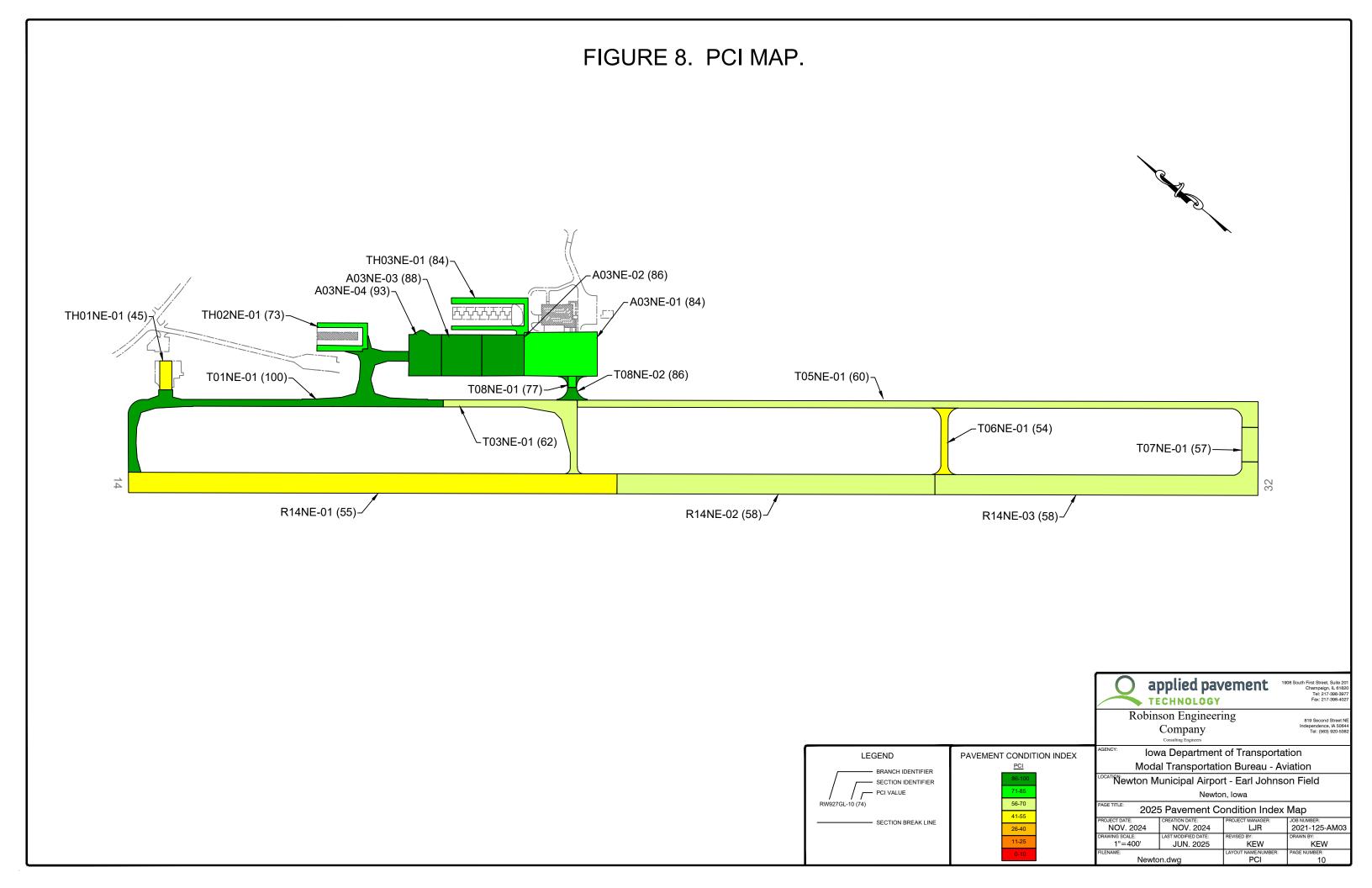


Figure 7. Area-weighted PCI by branch use at Newton Municipal Airport - Earl Johnson Field.

(Values on chart are area weighted.)





Pavement Evaluation

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
A03NE	01	PCC	78,796	6/1/2003	84	5	52	43	ASR, Corner Spalling, Joint Spalling, Joint Seal Damage, Large Patch, LTD Cracking, Small Patch
A03NE	02	PCC	42,840	6/3/2010	86	0	78	22	Faulting, Joint Spalling, Joint Seal Damage, Shrinkage Cracking
A03NE	03	PCC	40,800	6/3/2013	88	0	94	6	Corner Spalling, Joint Seal Damage
A03NE	04	PCC	34,110	5/3/2019	93	0	100	0	Joint Seal Damage
R14NE	01	AAC	242,000	5/1/2010	55	8	92	0	Alligator Cracking, L&T Cracking, Weathering
R14NE	02	AAC	155,807	5/1/2010	58	0	100	0	L&T Cracking, Weathering
R14NE	03	AAC	165,142	4/1/2010	58	11	89	0	Alligator Cracking, L&T Cracking, Raveling, Weathering
T01NE	01	PCC	109,150	4/3/2023	100	0	0	0	No Distress
T03NE	01	AAC	44,928	4/1/2010	62	17	83	0	Alligator Cracking, L&T Cracking, Raveling, Weathering
T05NE	01	AAC	126,127	4/1/2010	60	30	70	0	Alligator Cracking, L&T Cracking, Weathering
T06NE	01	AAC	14,033	4/1/2010	54	23	77	0	Alligator Cracking, L&T Cracking, Weathering
T07NE	01	AAC	13,745	4/1/2010	57	16	76	8	Alligator Cracking, Depression, L&T Cracking, Weathering
T08NE	01	PCC	2,200	6/1/2003	77	0	52	48	Corner Spalling, Joint Spalling, Joint Seal Damage, Shrinkage Cracking
T08NE	02	PCC	6,094	4/3/2010	86	12	88	0	Joint Seal Damage, LTD Cracking
TH01NE	01	PCC	8,660	1/1/1970	45	37	13	50	ASR, Corner Spalling, Joint Spalling, Joint Seal Damage, Large Patch, LTD Cracking
TH02NE	01	PCC	14,637	7/3/2011	73	44	32	24	Faulting, Joint Seal Damage, LTD Cracking

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
TH03NE	01	PCC	22,244	5/3/2005	84	0	69	31	Faulting, Joint Spalling, Joint Seal Damage, Shrinkage Cracking, Small Patch

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.
- 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

Newton Municipal Airport - Earl Johnson Field was inspected on March 11, 2025. There were 17 pavement sections defined during the inspection. Alkali-silica reaction (ASR) was recorded 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 14/32 contained three sections. All severities of longitudinal and transverse (L&T) cracking and medium-severity weathering were recorded in all sections. The low-severity L&T cracking was unsealed, while the medium-severity L&T cracking was recorded where either unsealed crack widths exceeded 1/4 inch, crack sealant was no longer preventing water from penetrating into underlying pavement layers, or secondary cracking associated with the primary crack was observed. The high-severity L&T cracking was recorded in areas where the cracking had deteriorated, producing areas of parallel secondary cracking wider than 1 foot. In addition, small areas of high-severity weathering were recorded in Section 01, and high-severity raveling was observed in Section 03. Additionally, both Sections 01 and 03 contained areas of low-severity alligator cracking located in the wheel path.

Taxiways

Taxiway 01 was defined by one section that was recently rehabilitated and in *Excellent* condition. No distress was noted in Section 01 at the time of the inspection.

Taxiway 03 consisted of one section. In Section 01, all severities of L&T cracking, low-severity alligator cracking located at the edge of the pavement, medium-severity weathering, and high-severity raveling were observed. The low-severity L&T cracking was both sealed and unsealed and the medium-severity L&T cracking was recorded where either unsealed crack widths exceeded 1/4 inch, crack sealant was no longer performing satisfactorily, or secondary cracking had developed. The high-severity L&T cracking was noted where secondary cracking pattern was wider than 1 foot.

Taxiway 05 was defined by one section with low-severity alligator cracking, all severities of L&T cracking, and low- and medium-severity weathering. The low-severity L&T cracking was unsealed, while the medium-severity L&T cracking was recorded where either unsealed crack widths exceeded 1/4 inch, crack sealant was no longer preventing water from penetrating into underlying pavement layers, or secondary cracking had developed. The high-severity L&T cracking was due to secondary cracking that was wider than 1 foot.

Taxiway 06 consisted of one section. In Section 01, areas of all severities of L&T cracking, medium-severity weathering, and low-severity alligator cracking that was located at the edge of the pavement were observed. The low-severity L&T cracking was unsealed, and the medium-severity L&T cracking was due to either unsealed crack widths that exceeded 1/4 inch, unsatisfactory crack sealant, or the development of secondary cracking. High-severity L&T cracking was identified where the secondary cracking pattern was greater than 1 foot.

Taxiway 07 contained one section that had areas of medium-severity weathering and all severities of L&T cracking noted at the time of inspection. The low-severity L&T cracking was unsealed, and the medium-severity L&T cracking was recorded where either unsealed crack widths exceeded 1/4 inch or secondary cracking had developed. In addition, small areas of

medium-severity depression were identified at the cracking, along with low-severity alligator cracking.

Taxiway 08 was defined by two sections. Low-severity corner spalling, high-severity joint seal damage, medium-severity joint spalling, and shrinkage cracking were recorded in Section 01. In Section 02, high-severity joint seal damage was observed throughout along with small amounts of low-severity longitudinal, transverse, diagonal (LTD) cracking.

Apron

The apron area consisted of four sections. Various distresses were identified in Section 01 including low-severity ASR, LTD cracking, and corner spalling; high-severity joint seal damage; and all severities of joint spalling. An atypical area with a low-severity small patching and a high-severity large patching was inspected as an additional sample unit according to ASTM D5340. In Section 02, high-severity joint seal damage was observed throughout in addition to smaller quantities of low-severity faulting, medium-severity joint spalling, and shrinkage cracking. Section 03 contained low- and medium-severity corner spalling along with medium- and high-severity joint seal damage. All severities of joint seal damage were identified in Section 04.

T-Hangars

T-hangar 01 contained one section. Various distresses were recorded, including low-severity ASR; medium- and high-severity corner spalling and joint spalling; high-severity joint seal damage; and low- and medium-severity large patching and LTD cracking.

T-hangar 02 was defined by one section with low-severity faulting, high-severity joint seal damage, and low- and medium-severity LTD cracking.

T-hangar 03 consisted of one section with low-severity faulting and small patching, mediumand high-severity joint seal damage, all severities of joint spalling, and shrinkage cracking.

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 Newton Municipal Airport - Earl Johnson Field. 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 lowa 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 Newton Municipal Airport - Earl Johnson Field.

Major Rehabilitation Unit Costs

PAVER estimates the cost of major rehabilitation based on the predicted PCI of the pavement section. The lowa 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 Newton Municipal Airport - Earl Johnson Field, 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 Newton Municipal Airport - Earl Johnson Field is presented in Table 2. Detailed information on the recommended localized preventive maintenance plan for 2025 is provided in Appendix F.

T-	1			í	T
Year	Branch	Section	Surface Type	Type of Repair	Estimated Cost
2025	A03NE	01	PCC	Preventive Maintenance	\$38,744
2025	A03NE	02	PCC	Preventive Maintenance	\$20,148
2025	A03NE	03	PCC	Preventive Maintenance	\$20,694
2025	A03NE	04	PCC	Preventive Maintenance	\$10,958
2025	R14NE	01	AAC	Major Rehabilitation	\$1,292,296
2025	R14NE	02	AAC	Major Rehabilitation	\$832,020
2025	R14NE	03	AAC	Major Rehabilitation	\$881,869
2025	T05NE	01	AAC	Major Rehabilitation	\$673,527
2025	T06NE	01	AAC	Major Rehabilitation	\$74,937
2025	T07NE	01	AAC	Major Rehabilitation	\$73,399
2025	T08NE	01	PCC	Preventive Maintenance	\$1,151
2025	T08NE	02	PCC	Preventive Maintenance	\$3,347
2025	TH01NE	01	PCC	Major Rehabilitation	\$131,048
2025	TH02NE	01	PCC	Preventive Maintenance	\$7,407
2025	TH03NE	01	PCC	Preventive Maintenance	\$12,822

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

Total Estimated Cost: \$4,320,000

\$245,434

Major Rehabilitation

Table Notes:

2026

T03NE

1. See Figure 3 for the location of the branch and section.

01

2. Surface Type: AC = asphalt cement concrete; AAC = asphalt overlay on AC; PCC = portland cement concrete; APC = asphalt overlay on PCC.

AAC

- 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 Newton Municipal Airport Earl Johnson Field.

The recommendations made in this report are based on a broad network-level analysis and meant to provide Newton Municipal Airport - Earl Johnson Field 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 Newton Municipal Airport - Earl Johnson Field 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, Newton Municipal Airport - Earl Johnson Field 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:

- 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.
- 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 lowa 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 Newton Municipal Airport - Earl Johnson Field 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, Newton Municipal Airport - Earl Johnson Field 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 *Newton Municipal Airport - Earl Johnson Field*. 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 lowa 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 *Newton Municipal Airport - Earl Johnson Field* 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 *Newton Municipal Airport Earl Johnson Field* 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.

Pavement Maintenance and Rehabilitation Program

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
A03NE	01					
A03NE	02					
A03NE	03					
A03NE	04					
R14NE	01					
R14NE	02					

Pavement Maintenance and Rehabilitation Program

Date Inspected:

Branch	Section	Distress Description/Dimensions/Severity/ Recommended Action	Description of Repair	Date Performed	Cost	Funding Source
R14NE	03					
T01NE	01					
T03NE	01					
T05NE	01					
T06NE	01					
T07NE	01					

Pavement Maintenance and Rehabilitation Program

Table 3.	Pavement	inspection	report	(continued).
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Inspected By:	
Date Inspected:	

Branch	Section	Distress Description/Dimensions/Severity/ Recommended Action	Description of Repair	Date Performed	Cost	Funding Source
T08NE	01					
T08NE	02					
TH01NE	01					
TH02NE	01					
TH03NE	01					

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

Summary August 2025

SUMMARY

This report documents the results of the pavement evaluation conducted at Newton Municipal Airport - Earl Johnson Field. A visual inspection of the pavements in 2025 found that the overall condition of the pavement network is a PCI of 68. A 5-year pavement repair program, shown in Table 2, was generated for Newton Municipal Airport - Earl Johnson Field, which revealed that approximately \$4,320,000 needs to be expended on M&R. Newton Municipal Airport - Earl Johnson Field should utilize these study results to assist in planning for future maintenance needs as part of the airport CIP planning process.

References August 2025

REFERENCES

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US Army Corps of Engineers (USACE). 2009. <u>Asphalt Surfaced Airfields</u>. PAVER Distress Identification Manual. USACE, Washington, DC.

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APPENDIX A CAUSE OF DISTRESS TABLES

Cause of Distress Tables August 2025

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.

Cause of Distress Tables August 2025

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

A03NE-01. Overview.



A03NE-01. ASR (Sample Unit No. 17).



A03NE-01. Joint Seal Damage (Sample Unit No. 15).



A03NE-01. LTD Cracking (Sample Unit No. 15).



A03NE-01. Large Patching (Additional Sample Unit No. 16).



A03NE-02. Overview.



A03NE-02. Faulting (Sample Unit No. 06).



A03NE-02. Joint Seal Damage (Sample Unit No. 10).



A03NE-03. Overview.



A03NE-03. Corner Spalling (Sample Unit No. 04).



A03NE-03. Joint Seal Damage (Sample Unit No. 10).



A03NE-04. Overview.



A03NE-04. Joint Seal Damage (Sample Unit No. 03).



R14NE-01. Overview.



R14NE-01. L&T Cracking (Sample Unit No. 01).



R14NE-01. L&T Cracking (Sample Unit No. 08).



R14NE-01. Weathering (Sample Unit No. 01).



R14NE-02. Overview.



R14NE-02. L&T Cracking (Sample Unit No. 02).



R14NE-02. Weathering (Sample Unit No. 02).



R14NE-03. Overview.



R14NE-03. Alligator Cracking (Sample Unit No. 04).



R14NE-03. L&T Cracking (Sample Unit No. 04).



R14NE-03. Weathering (Sample Unit No. 04) (1).



R14NE-03. Weathering (Sample Unit No. 04) (2).



T01NE-01. Overview.



T03NE-01. Overview.



T03NE-01. Alligator Cracking (Sample Unit No. 01).



T03NE-01. L&T Cracking (Sample Unit No. 01).



T03NE-01. Weathering (Sample Unit No. 01).



T05NE-01. Overview.



T05NE-01. Alligator Cracking (Sample Unit No. 10).



T05NE-01. L&T Cracking (Sample Unit No. 20).



T05NE-01. Weathering (Sample Unit No. 20).



T06NE-01. Overview.



T06NE-01. L&T Cracking (Sample Unit No. 01).



T06NE-01. Weathering (Sample Unit No. 01).



T07NE-01. Overview.



T07NE-01. L&T Cracking (Sample Unit No. 01).



T07NE-01. L&T Cracking (Sample Unit No. 02).



T07NE-01. Weathering (Sample Unit No. 01).



T08NE-01. Overview.



T08NE-01. Joint Seal Damage (Sample Unit No. 01).



T08NE-01. Joint Spalling (Sample Unit No. 01).



T08NE-02. Overview.



T08NE-02. LTD Cracking (Sample Unit No. 01).



TH01NE-01. Overview.



TH01NE-01. ASR (Sample Unit No. 03).



TH01NE-01. Joint Spalling (Sample Unit No. 03).



TH01NE-01. LTD Cracking (Sample Unit No. 03).



TH01NE-01. Large Patching (Sample Unit No. 03).



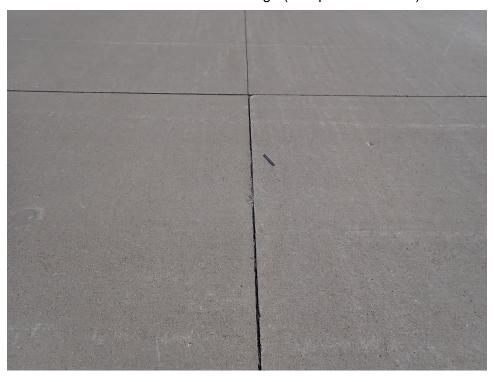
TH02NE-01. Overview.



TH02NE-01. Faulting (Sample Unit No. 04).



TH02NE-01. Joint Seal Damage (Sample Unit No. 04).



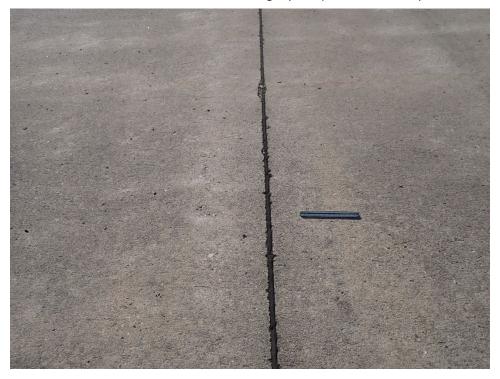
TH02NE-01. LTD Cracking (Sample Unit No. 04).



TH03NE-01. Overview.



TH03NE-01. Joint Seal Damage (Sample Unit No. 02).



TH03NE-01. Joint Spalling (Sample Unit No. 09).



APPENDIX C INSPECTION REPORT

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

Network ID: TNU Page 7

Network ID: TNU			Page 1
	Branch - Sect	ion ID: A03NE - 001	
Branch Name: APRON 03			Use: APRON
LCD: 6/1/2003 Surface Type: PCC Rank: P Section Area (sf): 78,796.00 Length (ft): 360.00 Width (ft): 220.00 From: T08NE-01 To:		PCI Family: lowaPCCAP_S	SE_CommEnhanced
Slabs: 432 Slab Length (ft): 15.00 Slab Width (ft): 12.00 Joint Length (ft): 11,094.55		Section Comments:	
Last Insp Date: 3/11/2025 PCI: 84 Total Samples: 18 Surveyed: 8		Inspection Comments:	
Sample Number: 02			
Sample Type: R Sample PCI: 81 Sample Area (Slabs): 24.00 65 JT SEAL DMG	н	Sample Comments:	Slahe
74 JOINT SPALL	 H		Slabs
Sample Number: 06			
Sample Type: R Sample PCI: 88 Sample Area (Slabs): 24.00		Sample Comments:	
65 JT SEAL DMG	Н	24.00	Slabs
Sample Number: 09			
Sample Type: R Sample PCI: 88 Sample Area (Slabs): 24.00		Sample Comments:	
65 JT SEAL DMG	Н	24.00	Slabs
Sample Number: 11			
Sample Type: R Sample PCI: 87 Sample Area (Slabs): 24.00		Sample Comments:	
65 JT SEAL DMG 74 JOINT SPALL	H L	24.00 1.00	Slabs Slabs
Sample Number: 13		00	

Sample Type: R Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 24.00

65 JT SEAL DMG H 24.00 Slabs

Pavement Database: IA 2024		Generate Date:	8/11/2025
Network ID: TNU			Page 2
Sample Number: 15			
Sample Type: R Sample PCI: 83 Sample Area (Slabs): 24.00	Sample	Comments:	
63 LINEAR CR 65 JT SEAL DMG 74 JOINT SPALL	L H L	1.00 Slabs 24.00 Slabs 1.00 Slabs	
Sample Number: 16			
Sample Type: A Sample PCI: 69 Sample Area (Slabs): 24.00	Sample	Comments:	
65 JT SEAL DMG 66 SMALL PATCH 67 LARGE PATCH 74 JOINT SPALL 74 JOINT SPALL	H L H H	24.00 Slabs 1.00 Slabs 1.00 Slabs 1.00 Slabs 1.00 Slabs	
Sample Number: 17			
Sample Type: R Sample PCI: 82 Sample Area (Slabs): 24.00	Sample	Comments:	
65 JT SEAL DMG	Н	24.00 Slabs	

L

1.00 Slabs

1.00 Slabs

75 CORNER SPALL

76 ASR

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

Network ID: TNU Page 3

Dranch	 Section 	ID:	ANONE	000
DIAIICII :	- Section	ID.	AUSINE -	· UUZ

Branch Name: APRON 03 Use: APRON

LCD: 6/3/2010 Surface Type: PCC

Rank: P

Section Area (sf): 42,840.00

Length (ft): 210.00 Width (ft): 204.00

From: . To: .

Slabs: 238

Slab Length (ft): 15.00 Slab Width (ft): 12.00 Joint Length (ft): 6,012.00

Last Insp Date: 3/11/2025

PCI: 86

Total Samples: 12 Surveyed: 6

Sample Number: 01

Sample Type: R

Sample PCI: 88

Sample Area (Slabs): 14.00

65 JT SEAL DMG

Sample Number: 04

Sample Type: R Sample PCI: 88

Sample Area (Slabs): 24.00

65 JT SEAL DMG

Sample Number: 05

Sample Type: R

Sample PCI: 88

Sample Area (Slabs): 21.00

65 JT SEAL DMG

Sample Number: 06

Sample Type: R Sample PCI: 83

Sample Area (Slabs): 24.00

65 JT SEAL DMG

71 FAULTING

Sample Number: 09 Sample Type: R

> Sample PCI: 88 Sample Area (Slabs): 21.00

65 JT SEAL DMG

PCI Family: IowaPCCAP SE CommEnhanced

Section Comments:

Inspection Comments:

Sample Comments:

Н

Н

Н

Н

L

Sample Comments:

24.00 Slabs

Sample Comments:

21.00 Slabs

Sample Comments:

24.00 Slabs 2.00 Slabs

14.00 Slabs

Sample Comments:

Н 21.00 Slabs

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

Network ID: TNU Page 4

Sample Number: 10

Sample Type: R Sample Comments:

Sample PCI: 80

Sample Area (Slabs): 24.00

 65 JT SEAL DMG
 H
 24.00 Slabs

 71 FAULTING
 L
 1.00 Slabs

 73 SHRINKAGE CR
 N
 1.00 Slabs

 74 JOINT SPALL
 M
 1.00 Slabs

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

Network ID: TNU Page 5

Hother I.B. 1110			, ago o
	Branch - Secti	on ID: A03NE - 003	
Branch Name: APRON 03			Use: APRON
LCD: 6/3/2013 Surface Type: PCC Rank: P Section Area (sf): 40,800.00 Length (ft): 204.00 Width (ft): 200.00 From: SEE MAP To: SEE MAP		PCI Family: lowaPCCAP_SE_CommEnhanced	
Slabs: 272 Slab Length (ft): 12.00 Slab Width (ft): 12.50 Joint Length (ft): 6,260.00		Section Comments:	
Last Insp Date: 3/11/2025 PCI: 88 Total Samples: 13 Surveyed: 6		Inspection Comments:	
Sample Number: 04			
Sample Type: R Sample PCI: 88 Sample Area (Slabs): 25.00		Sample Comments:	
65 JT SEAL DMG	M	25.00 Slabs	
75 CORNER SPALL	L	1.00 Slabs	
75 CORNER SPALL	M	1.00 Slabs	
Sample Number: 05			
Sample Type: R Sample PCI: 88 Sample Area (Slabs): 24.00		Sample Comments:	

Н

Н

Sample Comments:

Sample Comments:

Sample Comments:

24.00 Slabs

20.00 Slabs

24.00 Slabs

65 JT SEAL DMG

Sample Number: 06

Sample Type: R

Sample PCI: 88

Sample Area (Slabs): 20.00

65 JT SEAL DMG

Sample Number: 08

Sample Type: R Sample PCI: 88

Sample Area (Slabs): 24.00

65 JT SEAL DMG

Sample Number: 10

Sample Type: R

Sample PCI: 88

Sample Area (Slabs): 20.00

65 JT SEAL DMG

Н 20.00 Slabs

Sample Number: 12

Sample Type: R Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 20.00

65 JT SEAL DMG Н 20.00 Slabs

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

Network ID: TNU Page 6

Branch -	Section	ID:	VUSNE .	. 004
DIAIICII =	SECTION	IU.	AUSINE:	- UU4

Branch Name: APRON 03 Use: APRON

LCD: 5/3/2019

Surface Type: PCC

Rank: P

Section Area (sf): 34,110.00

Length (ft): 162.50 Width (ft): 204.00 From: A03NE-03

To: END

Slabs: 227

Slab Length (ft): 12.50 Slab Width (ft): 12.00 Joint Length (ft): 5,194.19

Last Insp Date: 3/11/2025

PCI: 93

Total Samples: 11 Surveyed: 6

Sample Number: 03

Sample Type: R

Sample PCI: 88

Sample Area (Slabs): 20.00

65 JT SEAL DMG

Sample Number: 04

Sample Type: R

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JT SEAL DMG

Sample Number: 05

Sample Type: R

Sample PCI: 88

Sample Area (Slabs): 20.00

65 JT SEAL DMG

Sample Number: 07 Sample Type: R

Sample PCI: 98

Sample Area (Slabs): 24.00

65 JT SEAL DMG

Sample Number: 09

Sample Type: R

Sample PCI: 98

Sample Area (Slabs): 20.00

65 JT SEAL DMG

Sample Number: 10

Sample Type: R

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JT SEAL DMG

Sample Comments:

Section Comments:

Inspection Comments:

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Sample Comments:

20.00 Slabs

20.00 Slabs

24.00 Slabs

PCI Family: IowaPCCAP SE CommEnhanced

Sample Comments:

20.00 Slabs

Sample Comments:

Sample Comments:

20.00 Slabs

Sample Comments:

20.00 Slabs

Pavement Database: IA 2024			Generate Date: 8/11/20
Network ID: TNU			Page
	Branch - Section ID	: R14NE - 001	
Branch Name: RUNWAY 14/32			Use: RUNWA
LCD: 5/1/2010 Surface Type: AAC Rank: P Section Area (sf): 242,000.00 Length (ft): 2,420.00 Width (ft): 100.00 From: RUNWAY END 14 To: RUNWAY SECTION 02	PCI Fa	amily: lowaAACRW_SE	
Slabs:	Section	n Comments:	
Slab Length (ft): Slab Width (ft): Joint Length (ft):			
Last Insp Date: 3/11/2025 PCI: 55 Total Samples: 49 Surveyed: 7	Inspec	tion Comments:	
Sample Number: 01			
Sample Type: R Sample PCI: 48 Sample Area (SF): 5,000.00	Sampl	e Comments:	
41 ALLIGATOR CR	L	30.00 SF	WP
48 L & T CR	Н	50.00 FT	1ft
48 L & T CR	L	39.00 FT	Lu Fa Ondrow
48 L & T CR 57 WEATHERING	M M	385.00 FT 5,000.00 SF	Fs 2ndy w
Sample Number: 08			
Sample Type: R Sample PCI: 51 Sample Area (SF): 5,000.00	Sampl	e Comments:	
48 L & T CR	Н	65.00 FT	1ft
48 L & T CR	L	10.00 FT	Lu
48 L & T CR	M	460.00 FT	fs w 2ndy
57 WEATHERING	M	5,000.00 SF	
Sample Number: 14			
Sample Type: R Sample PCI: 61 Sample Area (SF): 5,000.00	Sampl	e Comments:	
48 L & T CR	Н	35.00 FT	1ft
48 L & T CR	L	3.00 FT	Lu
48 L & T CR	M	268.00 FT	fs w 2ndy
57 WEATHERING	M	5,000.00 SF	
Sample Number: 21			
Sample Type: R Sample PCI: 49 Sample Area (SE): 5 000 00	Sampl	e Comments:	
Sample Area (SF): 5,000.00	11	05.00 ET	16
48 L & T CR 48 L & T CR	H M	25.00 FT 473.00 FT	1ft Fs w 2ndy
57 WEATHERING	H	120.00 SF	PR
EZ MEATHERING	 NA	4 000 00 05	

4,880.00 SF

57 WEATHERING

Pavement Database: IA 2024 Generate Date: 8/11/2025 Network ID: TNU Page 8 Sample Number: 34 Sample Type: R Sample Comments: Sample PCI: 59 Sample Area (SF): 5,000.00 48 L & T CR Н 50.00 FT 1ft 48 L & T CR L 40.00 FT Lu 228.00 FT Fs w 2ndy 48 L & T CR Μ 5,000.00 SF Μ 57 WEATHERING Sample Number: 43 Sample Type: R Sample Comments: Sample PCI: 59 Sample Area (SF): 5,000.00 48 L & T CR Н 60.00 FT 1ft 48 L & T CR L 10.00 FT Lu 48 L & T CR 240.00 FT Fs w 2ndy Μ 57 WEATHERING Μ 5,000.00 SF Sample Number: 46 Sample Type: R Sample Comments: Sample PCI: 58

Н

Μ

Μ

46.00 FT

330.00 FT

5,000.00 SF

1ft

Fs w 2ndy

Sample Area (SF):

48 L & T CR

48 L & T CR

57 WEATHERING

5,000.00

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

Network ID: TNU Page 9

THE THE THE				. ago o
Branch Name: RUNWAY 14/32	Branch - Section ID:	R14NE - 002		Use: RUNWAY
LCD: 5/1/2010 Surface Type: AAC Rank: P Section Area (sf): 155,807.00 Length (ft): 1,575.00 Width (ft): 100.00 From: RUNWAY SECT 01 To: RUNWAY SECTION 03	PCI Fan	nily: IowaAACRW_SE		USE. NORWAT
Slabs: Slab Length (ft): Slab Width (ft): Joint Length (ft):	Section	Comments:		
Last Insp Date: 3/11/2025 PCI: 58 Total Samples: 32 Surveyed: 7	Inspection	on Comments:		
Sample Number: 02				
Sample Type: R Sample PCI: 64 Sample Area (SF): 5,000.00		Comments:		
48 L & T CR 57 WEATHERING	M M	364.00 FT 5,000.00 SF	Fs w 2ndy	
Sample Number: 05	·	0,000.00 01		
Sample Type: R Sample PCI: 59 Sample Area (SF): 5,000.00	Sample	Comments:		
48 L & T CR 48 L & T CR 57 WEATHERING	H M M	32.00 FT 359.00 FT 5,000.00 SF	1ft Fs w 2ndy	
Sample Number: 14				
Sample Type: R Sample PCI: 55 Sample Area (SF): 5,000.00	Sample	Comments:		
48 L & T CR 48 L & T CR 48 L & T CR 57 WEATHERING	H L M M	50.00 FT 5.00 FT 370.00 FT 5,000.00 SF	1ft Lu Fs w 2ndy	
Sample Number: 17				
Sample Type: R Sample PCI: 55 Sample Area (SF): 5,000.00	Sample	Comments:		
48 L & T CR 48 L & T CR 57 WEATHERING	H M M	50.00 FT 410.00 FT 5,000.00 SF	1ft Fs w 2ndy	

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

Network ID: TNU Page 10

Sample Number: 23

Sample Type: R Sample Comments:

Sample PCI: 54

Sample Area (SF): 5,000.00

48 L & T CR H 50.00 FT 1ft

48 L & T CR M 440.00 FT Fs w 2ndy

57 WEATHERING M 5,000.00 SF

Sample Number: 27

Sample Type: R Sample Comments:

Sample PCI: 62

Sample Area (SF): 5,000.00

48 L & T CR L 5.00 FT Lu

48 L & T CR M 398.00 FT Fs 2ndy w

57 WEATHERING M 5,000.00 SF

Sample Number: 30

Sample Type: R Sample Comments:

Sample PCI: 58

Sample Area (SF): 5,000.00

48 L & T CR H 50.00 FT 1ft

48 L & T CR M 313.00 FT Fs w 2ndy

57 WEATHERING M 5,000.00 SF

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

Network ID: TNU Page 11

Network ID: I NU			Page 11
Branch Name: RUNWAY 14/32	Branch - Section ID:	R14NE - 003	Use: RUNWAY
LCD: 4/1/2010 Surface Type: AAC Rank: P Section Area (sf): 165,142.00 Length (ft): 1,650.00 Width (ft): 100.00 From: RUNWAY SECTION 02 To: RUNWAY END 32	PCI Far	nily: lowaAACRW_SE	
Slabs: Slab Length (ft): Slab Width (ft): Joint Length (ft):	Section	Comments:	
Last Insp Date: 3/11/2025 PCI: 58 Total Samples: 33 Surveyed: 7	Inspecti	on Comments:	
Sample Number: 04			
Sample Type: R Sample PCI: 62 Sample Area (SF): 5,000.00	Sample	Comments:	
41 ALLIGATOR CR 48 L & T CR 57 WEATHERING	L M M	32.00 SF 255.00 FT 5,000.00 SF	WP Fs w 2ndy
Sample Number: 11			
Sample Type: R Sample PCI: 64 Sample Area (SF): 5,000.00	Sample	Comments:	
48 L & T CR 48 L & T CR 57 WEATHERING	L M M	15.00 FT 345.00 FT 5,000.00 SF	Lu Fs w 2ndy
Sample Number: 14			
Sample Type: R Sample PCI: 53 Sample Area (SF): 5,000.00	Sample	Comments:	
48 L & T CR 48 L & T CR 52 RAVELING 57 WEATHERING	Н М Н М	45.00 FT 381.00 FT 4.00 SF 4,996.00 SF	
Sample Number: 20			
Sample Type: R Sample PCI: 51 Sample Area (SF): 5,000.00	Sample	Comments:	
41 ALLIGATOR CR 48 L & T CR	L H	33.00 SF 100.00 FT	WP 1ft

M

48 L & T CR

57 WEATHERING

FS, W, 2NDY

270.00 FT

5,000.00 SF

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

Network ID: TNU Page 12

5,000.00 SF

Sample Number: 21

Sample Type: R Sample Comments:

Sample PCI: 60

Sample Area (SF): 5,000.00

48 L & T CR L 20.00 FT Lu

48 L & T CR M 450.00 FT Fs w 2ndy

57 WEATHERING M

Sample Number: 27

Sample Type: R Sample Comments:

Sample PCI: 59

Sample Area (SF): 5,000.00

48 L & T CR H 50.00 FT 1ft

48 L & T CR M 275.00 FT Fs w 2ndy

57 WEATHERING M 5,000.00 SF

Sample Number: 30

Sample Type: R Sample Comments:

Sample PCI: 57

Sample Area (SF): 5,000.00

41 ALLIGATOR CR L 15.00 SF WP 48 L & T CR H 50.00 FT 1ft

48 L & T CR M 235.00 FT Fs w 2ndy

57 WEATHERING M 5,000.00 SF

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

Network ID: TNU Page 13

Branch - Section ID: T01NE - 001

Branch Name: TAXIWAY 01 Use: TAXIWAY

LCD: 4/3/2023

Surface Type: PCC

Rank: P

Section Area (sf): 109,150.00

Length (ft): 3,119.00 Width (ft): 35.00 From: RUNWAY END 14 To: APRON 01 SECT 01

Slabs: 1.426

Slab Length (ft): 8.75 Slab Width (ft): 8.75 Joint Length (ft): 21,795.00

Last Insp Date: 3/11/2025

PCI: 100 Total Samples: 68 Surveyed: 9

Sample Number: 03

Sample Type: R Sample PCI: 100

Sample Area (Slabs): 21.00 **NO DISTRESS**

Sample Number: 08

Sample Type: R Sample PCI: 100

Sample Area (Slabs): 24.00 **NO DISTRESS**

Sample Number: 21

Sample Type: R Sample PCI: 100

Sample Area (Slabs): 20.00 **NO DISTRESS**

Sample Number: 29

Sample Type: R Sample PCI: 100

Sample Area (Slabs): 20.00

NO DISTRESS

Sample Number: 37

Sample Type: R

Sample PCI: 100 Sample Area (Slabs): 20.00

NO DISTRESS

Sample Number: 46

Sample Type: R Sample PCI: 100

Sample Area (Slabs): 20.00

NO DISTRESS

PCI Family: IowaPCCTW SE Enhanced

Section Comments:

Inspection Comments:

Sample Comments:

Sample Comments:

Sample Comments:

Sample Comments:

Sample Comments:

Sample Comments:

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

Network ID: TNU Page 14

Sample Number: 50

Sample Type: R

Sample Comments:

Sample PCI: 100

Sample Area (Slabs): 20.00

NO DISTRESS

Sample Number: 58

Sample Type: R

Sample PCI: 100

Sample Area (Slabs): 25.00

NO DISTRESS

Sample Number: 66

Sample Type: R Sample PCI: 100

Sample Area (Slabs): 23.00

NO DISTRESS

Sample Comments:

Sample Comments:

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

Network ID: TNU			Page 1
	Branch - Section ID:	T03NE - 001	
Branch Name: TAXIWAY 03			Use: TAXIWA
LCD: 4/1/2010 Surface Type: AAC Rank: P Section Area (sf): 44,928.00 Length (ft): 1,271.00 Width (ft): 35.00 From: APRONS 01 & 02 To: RUNWAY 14/32	PCI Fan	nily: IowaAACTW_SE	
Slabs: Slab Length (ft): Slab Width (ft): Joint Length (ft):	Section	Comments:	
Last Insp Date: 3/11/2025 PCI: 62 Total Samples: 9 Surveyed: 4	Inspection	on Comments:	
Sample Number: 01			
Sample Type: R Sample PCI: 63 Sample Area (SF): 6,315.00	Sample	Comments:	
41 ALLIGATOR CR	L	68.00 SF	Edge
48 L & T CR	H	35.00 FT	1ft
48 L & T CR 57 WEATHERING	L M	61.00 FT 6,315.00 SF	Lu
Sample Number: 03	IVI	0,313.00 01	
Sample Type: R Sample PCI: 60 Sample Area (SF): 5,250.00	Sample	Comments:	
48 L & T CR	Н	25.00 FT	1ft
48 L & T CR	L	60.00 FT	Lu
48 L & T CR 48 L & T CR	L M	33.00 FT 78.00 FT	Ls fs w 2ndy
52 RAVELING	H	2.00 SF	10 W Zhay
57 WEATHERING	M	5,248.00 SF	
Sample Number: 04			
Sample Type: R Sample PCI: 59 Sample Area (SF): 5,250.00	Sample	Comments:	
48 L & T CR	L	15.00 FT	Lu
48 L & T CR	M	490.00 FT	Fs w
57 WEATHERING	M	5,250.00 SF	
Sample Number: 08	_	_	
Sample Type: R Sample PCI: 66 Sample Area (SF): 5,250.00	Sample	Comments:	
41 ALLIGATOR CR	L	25.00 SF	Edge
48 L & T CR	L	10.00 FT	Lu

Μ

216.00 FT

5,250.00 SF

Fs w 2ndy

48 L & T CR

57 WEATHERING

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

Pavement Database: IA 2024			Genera	te Date: 8/11/2025		
Network ID: TNU		Page				
	Branch - Section	ID: T05NE - 001				
Branch Name: TAXIWAY 05				Use: TAXIWAY		
LCD: 4/1/2010 Surface Type: AAC Rank: P Section Area (sf): 126,127.00 Length (ft): 3,390.00 Width (ft): 35.00 From: TAXIWAY 03NE-01 To: TAXIWAY 06NE-01	PC	I Family: IowaAACTW_SE				
Slabs: Slab Length (ft): Slab Width (ft): Joint Length (ft):	Sec	ction Comments:				
Last Insp Date: 3/11/2025 PCI: 60 Total Samples: 25 Surveyed: 6	Ins	pection Comments:				
Sample Number: 02						
Sample Type: R Sample PCI: 58 Sample Area (SF): 5,250.00	Sar	mple Comments:				
41 ALLIGATOR CR 48 L & T CR 48 L & T CR 57 WEATHERING 57 WEATHERING	L L M L	20.00 SF 30.00 FT 259.00 FT 4,200.00 SF 1,050.00 SF	Edge Iu Fs w 2ndy			
Sample Number: 05						
Sample Type: R Sample PCI: 59 Sample Area (SF): 5,250.00 41 ALLIGATOR CR 48 L & T CR	Sar L M	mple Comments: 92.00 SF 238.00 FT	Edge Fs w 2ndy			
57 WEATHERING 57 WEATHERING	L M	4,200.00 SF 1,050.00 SF	1 3 W Zhay			
Sample Number: 10						
Sample Type: R Sample PCI: 53 Sample Area (SF): 5,250.00	Sar	mple Comments:				
41 ALLIGATOR CR 48 L & T CR 48 L & T CR 57 WEATHERING 57 WEATHERING	L L M L M	166.00 SF 70.00 FT 156.00 FT 4,200.00 SF 1,050.00 SF	Edge Lu Fs w			
Sample Number: 15						
Sample Type: R Sample PCI: 59 Sample Area (SF): 5,250.00	Sar	mple Comments:				
41 ALLIGATOR CR 48 L & T CR	L M	90.00 SF 150.00 FT	Edge Fs w			

L

Μ

4,200.00 SF

1,050.00 SF

57 WEATHERING

57 WEATHERING

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

Network ID: TNU Page 17

Sample Type: R Sample Comments:

Sample PCI: 63

Sample Area (SF): 5,250.00

48 L & T CR 35.00 FT Н 1ft 48 L & T CR L 48.00 FT Lu 150.00 FT Fs w 48 L & T CR Μ 57 WEATHERING L 4,200.00 SF 57 WEATHERING Μ 1,050.00 SF

Sample Number: 20

Sample Type: R Sample Comments:

Sample PCI: 67

Sample Area (SF): 5,250.00

48 L & T CR Н 35.00 FT 1ft 48 L & T CR L 12.00 FT Lu 48 L & T CR Μ 118.00 FT Fs w **57 WEATHERING** L 4,200.00 SF 57 WEATHERING Μ 1,050.00 SF

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

Network ID: TNU Page 18

Network ID: TNU				Page 18
	Branch - Section ID:	T06NE - 001		
Branch Name: TAXIWAY 06				Use: TAXIWAY
LCD: 4/1/2010 Surface Type: AAC Rank: P Section Area (sf): 14,033.00 Length (ft): 340.00 Width (ft): 35.00 From: RUNWAY 14NE-02 To: TAXIWAY 05NE-01	PCI Fan	nily: IowaAACTW_SE		
Slabs: Slab Length (ft): Slab Width (ft): Joint Length (ft):	Section	Comments:		
Last Insp Date: 3/11/2025 PCI: 54 Total Samples: 3 Surveyed: 3	Inspection	on Comments:		
Sample Number: 01				
Sample Type: R Sample PCI: 60 Sample Area (SF): 5,404.00	Sample	Comments:		
41 ALLIGATOR CR 48 L & T CR 48 L & T CR 57 WEATHERING	L H M M	20.00 SF 6.00 FT 250.00 FT 5,404.00 SF	Edge 1ft Fs w	
Sample Number: 02				
Sample Type: R Sample PCI: 51 Sample Area (SF): 4,374.00	Sample	Comments:		
41 ALLIGATOR CR 48 L & T CR 57 WEATHERING	L M M	110.00 SF 280.00 FT 4,374.00 SF	Edge Fs w	
Sample Number: 03				
Sample Type: R Sample PCI: 50 Sample Area (SF): 4,255.00	Sample	Comments:		
48 L & T CR	L	60.00 FT	Lu	

L

Μ

71.00 FT

550.00 FT

4,255.00 SF

Ls at break

Fs w 2ndy

48 L & T CR

48 L & T CR

57 WEATHERING

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

Network ID: TNU Page 19

Network ID. TNO				rage is
Branch Name: TAXIWAY 07	Branch - Section ID:	T07NE - 001		Use: TAXIWAY
LCD: 4/1/2010 Surface Type: AAC Rank: P Section Area (sf): 13,745.00 Length (ft): 170.00 Width (ft): 80.00 From: RUNWAY 14NE-03 To: TAXIWAY 05NE-01	PCI Far	nily: lowaAACTW_SE		
Slabs: Slab Length (ft): Slab Width (ft): Joint Length (ft):		Comments:		
Last Insp Date: 3/11/2025 PCI: 57 Total Samples: 3 Surveyed: 3	Inspecti	on Comments:		
Sample Number: 01				
Sample Type: R Sample PCI: 68 Sample Area (SF): 4,421.00	Sample	Comments:		
48 L & T CR 48 L & T CR 57 WEATHERING	L M M	15.00 FT 225.00 FT 4,421.00 SF	Lu W 2ndy	
Sample Number: 02				
Sample Type: R Sample PCI: 48 Sample Area (SF): 4,620.00	Sample	Comments:		
45 DEPRESSION 48 L & T CR 48 L & T CR	M H L	35.00 SF 95.00 FT 27.00 FT	At Crack 1ft	
48 L & T CR 57 WEATHERING	M M	275.00 FT 4,620.00 SF	W 2ndy	
Sample Number: 03	IVI	1,020.00 01		
Sample Type: R Sample PCI: 55 Sample Area (SF): 4,704.00	Sample	Comments:		
41 ALLIGATOR CR 48 L & T CR	L L	65.00 SF 15.00 FT	Edge Lu	

M

Μ

290.00 FT

4,704.00 SF

W 2ndy

48 L & T CR

57 WEATHERING

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

Network ID: TNU Page 20

Branch - Section ID: T08NE - 001

Branch Name: TAXIWAY 08 Use: TAXIWAY

LCD: 6/1/2003

Surface Type: PCC

Rank: P

Section Area (sf): 2,200.00

Length (ft): 55.00 Width (ft): 40.00 From: T03NE-01 To: A03NE-01

Slabs: 16 Section Comments:

Slab Length (ft): 15.00 Slab Width (ft): 10.00 Joint Length (ft): 271.67

Last Insp Date: 3/11/2025

PCI: 77 Total Samples: 1 Surveyed: 1 Inspection Comments:

PCI Family: IowaPCCTW SE Enhanced

Sample Number: 01

Sample Type: R Sample Comments:

Sample PCI: 77

Sample Area (Slabs): 16.00

 65 JT SEAL DMG
 H
 16.00 Slabs

 73 SHRINKAGE CR
 N
 1.00 Slabs

 74 JOINT SPALL
 M
 1.00 Slabs

 75 CORNER SPALL
 L
 2.00 Slabs

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

Network ID: TNU Page 21

Branch - Section ID: T08NE - 002

PCI Family: IowaPCCTW SE Enhanced

Branch Name: TAXIWAY 08 Use: TAXIWAY

LCD: 4/3/2010

Surface Type: PCC

Rank: P

Section Area (sf): 6,094.00

Length (ft): 63.00 Width (ft): 60.00 From: APRON To: T08-01

Slabs: 65 Section Comments: avg slab size

Slab Length (ft): 10.50 Slab Width (ft): 9.50 Joint Length (ft): 1,023.56

Last Insp Date: 3/11/2025 Inspection Comments:

PCI: 86 Total Samples: 2 Surveyed: 2

Sample Number: 01

Sample Type: R Sample Comments:

Sample PCI: 85

Sample Area (Slabs): 31.00

63 LINEAR CR L 1.00 Slabs 65 JT SEAL DMG H 31.00 Slabs

Sample Number: 02

Sample Type: R Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 34.00

65 JT SEAL DMG H 34.00 Slabs

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

Network ID: TNU Page 22

Network ID: TNU			Page 22
	Branch - Section ID:	TH01NE - 001	
Branch Name: T-HANGAR 01			Use: T-HANGAR
LCD: 1/1/1970 Surface Type: PCC Rank: P Section Area (sf): 8,660.00 Length (ft): 143.00 Width (ft): 60.00 From: SEE MAP To: SEE MAP	PCI Fa	mily: lowaPCCTH_SE	
Slabs: 42 Slab Length (ft): 19.40 Slab Width (ft): 10.00 Joint Length (ft): 1,107.50	Section	n Comments: avg slab length	
Last Insp Date: 3/11/2025 PCI: 45 Total Samples: 3 Surveyed: 3	Inspec	tion Comments:	
Sample Number: 01			
Sample Type: R Sample PCI: 33 Sample Area (Slabs): 12.00	Sample	e Comments:	
63 LINEAR CR 63 LINEAR CR 65 JT SEAL DMG 67 LARGE PATCH 74 JOINT SPALL 75 CORNER SPALL 76 ASR	L M H L M M	2.00 Slabs 4.00 Slabs 12.00 Slabs 1.00 Slabs 2.00 Slabs 2.00 Slabs 3.00 Slabs	
Sample Number: 02			
Sample Type: R Sample PCI: 58 Sample Area (Slabs): 12.00	Sample	e Comments:	
63 LINEAR CR 65 JT SEAL DMG 67 LARGE PATCH 74 JOINT SPALL 75 CORNER SPALL 75 CORNER SPALL 76 ASR	L H L M H M	1.00 Slabs 12.00 Slabs 2.00 Slabs 1.00 Slabs 1.00 Slabs 1.00 Slabs 2.00 Slabs	
Sample Number: 03			
Sample Type: R Sample PCI: 44 Sample Area (Slabs): 18.00	Sample	e Comments:	
63 LINEAR CR 65 JT SEAL DMG 67 LARGE PATCH 67 LARGE PATCH 74 JOINT SPALL 74 JOINT SPALL	L H L M H	9.00 Slabs 18.00 Slabs 2.00 Slabs 1.00 Slabs 1.00 Slabs 1.00 Slabs	

L

6.00 Slabs

76 ASR

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

Network ID: TNU Page 23

Treatment 12.1.110			. a.g
Branch Name: T-HANGAR 02	Branch - Section ID: TH02N	NE - 001	Use: T-HANGAR
LCD: 7/3/2011 Surface Type: PCC Rank: P Section Area (sf): 14,637.00 Length (ft): 585.00 Width (ft): 25.00 From: SEE MAP To: SEE MAP	PCI Family: low	vaPCCTH_SE	
Slabs: 94 Slab Length (ft): 12.40 Slab Width (ft): 12.50 Joint Length (ft): 1,740.86	Section Comme	ents:	
Last Insp Date: 3/11/2025 PCI: 73 Total Samples: 5 Surveyed: 4	Inspection Com	nments:	
Sample Number: 01			
Sample Type: R Sample PCI: 63 Sample Area (Slabs): 18.00	Sample Commo	ents:	
63 LINEAR CR 63 LINEAR CR 65 JT SEAL DMG 71 FAULTING	L M H L	1.00 Slabs 2.00 Slabs 18.00 Slabs 3.00 Slabs	
Sample Number: 02			
Sample Type: R Sample PCI: 88 Sample Area (Slabs): 18.00 65 JT SEAL DMG	Sample Commo	ents: 18.00 Slabs	
Sample Number: 04			
Sample Type: R Sample PCI: 60 Sample Area (Slabs): 18.00	Sample Commo	ents:	
63 LINEAR CR 63 LINEAR CR 65 JT SEAL DMG 71 FAULTING	L M H L	1.00 Slabs 3.00 Slabs 18.00 Slabs 2.00 Slabs	
Sample Number: 05			
Sample Type: R Sample PCI: 81 Sample Area (Slabs): 20.00	Sample Commo	ents:	
65 JT SEAL DMG 71 FAULTING	H L	20.00 Slabs 3.00 Slabs	

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

Network ID: TNU Page 24

Network ID: TNU Page 24				
Branch Name: T-HANGAR 03	Branch - Section ID:	TH03NE - 001	Use: T-HANGAR	
LCD: 5/3/2005 Surface Type: PCC Rank: P Section Area (sf): 22,244.00 Length (ft): 875.00 Width (ft): 25.00 From: SEE MAP To: SEE MAP	PCI Fa	mily: lowaPCCTH_SE		
Slabs: 212 Slab Length (ft): 10.00 Slab Width (ft): 10.50 Joint Length (ft): 3,427.69	Section	Comments:		
Last Insp Date: 3/11/2025 PCI: 84 Total Samples: 11 Surveyed: 6	Inspect	ion Comments:		
Sample Number: 02				
Sample Type: R Sample PCI: 93 Sample Area (Slabs): 21.00		e Comments:		
65 JT SEAL DMG	M	21.00 Slabs		
Sample Number: 04 Sample Type: R Sample PCI: 90 Sample Area (Slabs): 21.00		Comments:		
65 JT SEAL DMG 74 JOINT SPALL	M L	21.00 Slabs 2.00 Slabs		
Sample Number: 06	_			
Sample Type: R Sample PCI: 83 Sample Area (Slabs): 18.00		e Comments:		
65 JT SEAL DMG 66 SMALL PATCH	H L	18.00 Slabs 1.00 Slabs		
74 JOINT SPALL	M	1.00 Slabs		
Sample Number: 08				
Sample Type: R Sample PCI: 82 Sample Area (Slabs): 19.00	·	Comments:		
65 JT SEAL DMG 71 FAULTING 73 SHRINKAGE CR	H L N	19.00 Slabs 1.00 Slabs 1.00 Slabs		
Sample Number: 09				
Sample Type: R Sample PCI: 69 Sample Area (Slabs): 20.00 65 JT SEAL DMG	Sample H	e Comments: 20.00 Slabs		
74 FALLITING	11	20.00 Slabs		

L

1.00 Slabs

2.00 Slabs

71 FAULTING

74 JOINT SPALL

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

Network ID: TNU Page 25

Sample Number: 11

Sample Type: R Sample Comments:

Sample PCI: 87

Sample Area (Slabs): 22.00

 65 JT SEAL DMG
 H
 22.00 Slabs

 73 SHRINKAGE CR
 N
 1.00 Slabs

APPENDIX D WORK HISTORY REPORT

Pavement Database: IA 2024 Generate Date: 6/30/2025

Network ID: TNU Page 1

Network: NEWTON MUNICIPAL AIRPORT - EARL JOHNSON FIELD

Branch - Section ID: A03NE - 001

 LCD: 6/1/2003
 Length (ft):
 360.00

 Use: APRON
 Width (ft):
 220.00

 Rank: P
 True Area (sf):
 78,796.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2003	NC-IN	New Construction - Initial	\$0.00	0.00	True	-

Branch - Section ID: A03NE - 002

 LCD: 6/3/2010
 Length (ft):
 210.00

 Use: APRON
 Width (ft):
 204.00

 Rank: P
 True Area (sf):
 42,840.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-03-2010	NC-IN	New Construction - Initial	\$0.00	0.00	True	State Funding - \$277,854

Branch - Section ID: A03NE - 003

 LCD: 6/3/2013
 Length (ft):
 204.00

 Use: APRON
 Width (ft):
 200.00

 Rank: P
 True Area (sf):
 40,800.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-03-2013	NC-PC	New Construction - PCC	\$0.00	8.00	True	8" P505 PCC
06-02-2013	SB-AG	Subbase - Aggregate	\$0.00	6.00	False	6" P154 SUBBASE
06-01-2013	SG-CO	Subgrade - Compacted	\$0.00	12.00	False	-

Branch - Section ID: A03NE - 004

 LCD: 5/3/2019
 Length (ft):
 162.50

 Use: APRON
 Width (ft):
 204.00

 Rank: P
 True Area (sf):
 34,110.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
05-03-2019	NC-PC	New Construction - PCC	\$8.00	9.00	True	9" PCC pavement, P-501
05-02-2019	BA-AG	Base Course - Aggregate	\$0.00	8.00	False	8" Crushed Aggregate Base (P-209)
05-01-2019	SG-ST	Subgrade - Stabilized	\$0.00	12.00	False	12" cement treated subgrade preparation (P-156)

Pavement Database: IA 2024 Generate Date: 6/30/2025

Network ID: TNU Page 2

Branch - Section ID: R14NE - 001

 LCD: 5/1/2010
 Length (ft):
 2,420.00

 Use: RUNWAY
 Width (ft):
 100.00

 Rank: P
 True Area (sf):
 242,000.00

Surface: AAC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
04-16-2025	SS-RE	Surface Seal - Rejuvenating	\$12,214.80	0.00	False	PER AIRPORT MANAGER
04-15-2025	CS-AC	Crack Sealing - AC	\$0.00	0.00	False	PER AIRPORT MANAGER
11-12-2014	CS-AC	Crack Sealing - AC	\$0.00	0.00	False	CRACK SEAL
05-01-2010	OL-AC	Overlay - AC	\$0.00	3.00	True	3" P401 AC OVERLAY, 2007 CORE: 10.5" avg AC/7.75" avg AGG BASE
06-01-1982	OL-AC	Overlay - AC	\$0.00	2.00	True	2" AC OVERLAY
06-01-1966	OL-AC	Overlay - AC	\$0.00	4.00	True	25' WIDENING: 5"-7" P154, 6" P209, 2"-3" AC
06-02-1958	NC-AC	New Construction - AC	\$0.00	2.00	True	2" P401 AC (ASSUMED MAT. TYPE)
06-01-1958	BA-AG	Base Course - Aggregate	\$0.00	6.00	False	6" P209 CABC

Branch - Section ID: R14NE - 002

 LCD: 5/1/2010
 Length (ft):
 1,575.00

 Use: RUNWAY
 Width (ft):
 100.00

 Rank: P
 True Area (sf):
 155,807.00

Surface: AAC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
04-16-2025	SS-RE	Surface Seal - Rejuvenating	\$7,790.35	0.00	False	PER AIRPORT MANAGER
04-15-2025	CS-AC	Crack Sealing - AC	\$0.00	0.00	False	PER AIRPORT MANAGER
11-12-2014	CS-AC	Crack Sealing - AC	\$0.00	0.00	False	-
05-01-2010	OL-AC	Overlay - AC	\$0.00	3.00	True	3" P401 AC OVERLAY; 2007 CORE: 11.5" AVG AC, 6.5" AVG AGG BASE
06-01-1982	OL-AC	Overlay - AC	\$0.00	4.00	True	4" P401 AC OVERLAY
06-04-1966	NC-AC	New Construction - AC	\$0.00	6.00	True	6" P401 AC
06-02-1966	BA-AG	Base Course - Aggregate	\$0.00	6.00	False	6" P209 CABC
06-01-1966	SB-AG	Subbase - Aggregate	\$0.00	5.00	False	5" P154

Branch - Section ID: R14NE - 003

 LCD: 4/1/2010
 Length (ft):
 1,650.00

 Use: RUNWAY
 Width (ft):
 100.00

 Rank: P
 True Area (sf):
 165,142.00

Surface: AAC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
04-16-2025	SS-RE	Surface Seal - Rejuvenating	\$8,257.10	0.00	False	PER AIRPORT MANAGER
04-15-2025	CS-AC	Crack Sealing - AC	\$0.00	0.00	False	PER AIRPORT MANAGER
11-12-2014	CS-AC	Crack Sealing - AC	\$0.00	0.00	False	-
04-01-2010	OL-AS	Overlay - AC Structural	\$0.00	5.00	True	5" AC OVERLAY; 2007 CORE 8" AVG AC/ 10" AGG BASE
06-02-1988	NC-AC	New Construction - AC	\$0.00	8.00	True	8" P-401 AC SURFACE
06-01-1988	BA-AG	Base Course - Aggregate	\$0.00	10.00	False	10" P-209 CABC

Pavement Database: IA 2024 Generate Date: 6/30/2025

Network ID: TNU Page 3

Branch - Section ID: T01NE - 001

 LCD: 4/3/2023
 Length (ft):
 3,119.00

 Use: TAXIWAY
 Width (ft):
 35.00

 Rank: P
 True Area (sf):
 109,150.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
04-03-2023	CR-PC	Complete Reconstruction - PCC	\$508,730.00	8.00	True	8" P-501 PCC SURFACE
04-02-2023	BA-AG	Base Course - Aggregate	\$0.00	8.00	False	8" P-209 BASE COURSE
04-01-2023	SG-CO	Subgrade - Compacted	\$0.00	12.00	False	12" TREATED SUBGRADE PREPARATION
07-01-1988	OL-AC	Overlay - AC	\$0.00	19.00	True	19" P401 AC OVERLAY
06-03-1967	NC-AC	New Construction - AC	\$0.00	3.00	True	3" P401 AC SURFACE
06-02-1967	BA-AG	Base Course - Aggregate	\$0.00	6.00	False	6" P209 CABC
06-01-1967	SB-AG	Subbase - Aggregate	\$0.00	7.00	False	7" P154 SUBBASE

Branch - Section ID: T03NE - 001

 LCD: 4/1/2010
 Length (ft):
 1,271.00

 Use: TAXIWAY
 Width (ft):
 35.00

 Rank: P
 True Area (sf):
 44,928.00

Surface: AAC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
04-16-2025	SS-RE	Surface Seal - Rejuvenating	\$2,880.90	0.00	False	PER AIRPORT MANAGER
04-15-2025	CS-AC	Crack Sealing - AC	\$0.00	0.00	False	PER AIRPORT MANAGER
11-12-2014	CS-AC	Crack Sealing - AC	\$0.00	0.00	False	-
04-01-2010	OL-AS	Overlay - AC Structural	\$0.00	5.00	True	5" P401 OVERLAY
01-02-1968	NC-AC	New Construction - AC	\$0.00	0.00	True	-
01-01-1968	BA-AG	Base Course - Aggregate	\$0.00	0.00	False	10.5" P209

Branch - Section ID: T05NE - 001

 LCD: 4/1/2010
 Length (ft):
 3,390.00

 Use: TAXIWAY
 Width (ft):
 35.00

 Rank: P
 True Area (sf):
 126,127.00

Surface: AAC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
04-16-2025	SS-RE	Surface Seal - Rejuvenating	\$6,306.35	0.00	False	PER AIRPORT MANAGER
04-15-2025	CS-AC	Crack Sealing - AC	\$0.00	0.00	False	PER AIRPORT MANAGER
11-12-2014	CS-AC	Crack Sealing - AC	\$0.00	0.00	False	-
04-01-2010	OL-AS	Overlay - AC Structural	\$0.00	5.00	True	5" P401 OVERLAY
03-02-1997	CR-AC	Complete Reconstruction - AC	\$0.00	7.50	True	7.5" P401 AC SURFACE
03-01-1997	BA-AG	Base Course - Aggregate	\$0.00	10.50	False	10.5" P209 CABC
01-01-1968	NC-AC	New Construction - AC	\$0.00	0.00	True	-

Pavement Database: IA 2024 Generate Date: 6/30/2025

Network ID: TNU Page 4

Branch - Section ID: T06NE - 001

 LCD: 4/1/2010
 Length (ft):
 340.00

 Use: TAXIWAY
 Width (ft):
 35.00

 Rank: P
 True Area (sf):
 14,033.00

Surface: AAC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
04-16-2025	SS-RE	Surface Seal - Rejuvenating	\$701.65	0.00	False	PER AIRPORT MANAGER
04-15-2025	CS-AC	Crack Sealing - AC	\$0.00	0.00	False	PER AIRPORT MANAGER
11-12-2014	CS-AC	Crack Sealing - AC	\$0.00	0.00	False	-
04-01-2010	OL-AS	Overlay - AC Structural	\$0.00	5.00	True	AIP 3-19-0065-11, -12, & -13
01-01-1997	NC-AC	New Construction - AC	\$0.00	0.00	True	-

Branch - Section ID: T07NE - 001

 LCD: 4/1/2010
 Length (ft):
 170.00

 Use: TAXIWAY
 Width (ft):
 80.00

 Rank: P
 True Area (sf):
 13,745.00

Surface: AAC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
04-16-2025	SS-RE	Surface Seal - Rejuvenating	\$687.25	0.00	False	PER AIRPORT MANAGER
04-15-2025	CS-AC	Crack Sealing - AC	\$0.00	0.00	False	PER AIRPORT MANAGER
11-12-2014	CS-AC	Crack Sealing - AC	\$0.00	0.00	False	-
04-01-2010	OL-AS	Overlay - AC Structural	\$0.00	5.00	True	AIP 3-19-0065-11, -12, & -13
01-01-1997	NC-AC	New Construction - AC	\$0.00	0.00	True	-

Branch - Section ID: T08NE - 001

 LCD: 6/1/2003
 Length (ft):
 55.00

 Use: TAXIWAY
 Width (ft):
 40.00

 Rank: P
 True Area (sf):
 2,200.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
06-01-2003	NC-IN	New Construction - Initial	\$0.00	0.00	True	-

Branch - Section ID: T08NE - 002

 LCD: 4/3/2010
 Length (ft):
 63.00

 Use: TAXIWAY
 Width (ft):
 60.00

 Rank: P
 True Area (sf):
 6,094.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
04-03-2010	NC-IN	New Construction - Initial	\$0.00	8.00	True	AIP 3-19-0065-11, -12, & -13

Branch - Section ID: TH01NE - 001

 LCD: 1/1/1970
 Length (ft):
 143.00

 Use: T-HANGAR
 Width (ft):
 60.00

 Rank: P
 True Area (sf):
 8,660.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
01-01-1970	NC-PC	New Construction - PCC	\$0.00	0.00	True	CONSTRUCTED PRIOR TO 1994 IMAGERY

Pavement Database: IA 2024 Generate Date: 6/30/2025

Network ID: TNU Page 5

Branch - Section ID: TH02NE - 001

 LCD: 7/3/2011
 Length (ft):
 585.00

 Use: T-HANGAR
 Width (ft):
 25.00

 Rank: P
 True Area (sf):
 14,637.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
07-03-2011	CR-PC	Complete Reconstruction - PCC	\$0.00	6.00	True	6" P-505 SURFACE
07-02-2011	SB-AG	Subbase - Aggregate	\$0.00	4.00	False	4" P-154 SUBBASE
07-01-2011	SG-CO	Subgrade - Compacted	\$0.00	8.00	False	8" P-152 SUBGRADE

Branch - Section ID: TH03NE - 001

 LCD: 5/3/2005
 Length (ft):
 875.00

 Use: T-HANGAR
 Width (ft):
 25.00

 Rank: P
 True Area (sf):
 22,244.00

Surface: PCC

Work Date	Work Code	Work Description	Cost	Thickness (in)	Major MR	Comments
05-03-2005	NC-PC	New Construction - PCC	\$0.00	5.00	True	5" P-501 SURFACE
05-02-2005	SB-AG	Subbase - Aggregate	\$0.00	4.00	False	4" P-154 SUBBASE
05-01-2005	SG-CO	Subgrade - Compacted	\$0.00	0.00	False	P-152 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/If		
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

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
A03NE	01	Joint Seal Damage	High	432	Slabs	Joint Seal (Localized)	\$3.27	\$36,279
A03NE	01	Joint Spalling	Medium	1	Slabs	Patching - PCC Partial Depth	\$40.74	\$263
A03NE	01	Joint Spalling	High	3	Slabs	Patching - PCC Partial Depth	\$40.74	\$1,128
A03NE	01	Large Patch	High	1	Slabs	Patching - PCC Full Depth	\$18.19	\$1,074
A03NE	02	Joint Seal Damage	High	238	Slabs	Joint Seal (Localized)	\$3.27	\$19,659
A03NE	02	Joint Spalling	Medium	2	Slabs	Patching - PCC Partial Depth	\$40.74	\$489
A03NE	03	Corner Spalling	Medium	2	Slabs	Patching - PCC Partial Depth	\$40.74	\$224
A03NE	03	Joint Seal Damage	Medium	51	Slabs	Joint Seal (Localized)	\$3.27	\$3,848
A03NE	03	Joint Seal Damage	High	221	Slabs	Joint Seal (Localized)	\$3.27	\$16,622
A03NE	04	Joint Seal Damage	Medium	73	Slabs	Joint Seal (Localized)	\$3.27	\$5,479
A03NE	04	Joint Seal Damage	High	73	Slabs	Joint Seal (Localized)	\$3.27	\$5,479
T08NE	01	Joint Seal Damage	High	16	Slabs	Joint Seal (Localized)	\$3.27	\$888
T08NE	01	Joint Spalling	Medium	1	Slabs	Patching - PCC Partial Depth	\$40.74	\$263
T08NE	02	Joint Seal Damage	High	65	Slabs	Joint Seal (Localized)	\$3.27	\$3,347
TH02NE	01	Joint Seal Damage	High	117	Slabs	Joint Seal (Localized)	\$3.27	\$7,085
TH02NE	01	LTD Cracking	Medium	8	Slabs	Crack Sealing - PCC	\$3.27	\$322
TH03NE	01	Joint Seal Damage	Medium	74	Slabs	Joint Seal (Localized)	\$3.27	\$3,891
TH03NE	01	Joint Seal Damage	High	138	Slabs	Joint Seal (Localized)	\$3.27	\$7,318
TH03NE	01	Joint Spalling	Medium	2	Slabs	Patching - PCC Partial Depth	\$40.74	\$461
TH03NE	01	Joint Spalling	High	4	Slabs	Patching - PCC Partial Depth	\$40.74	\$1,152

Year 2025 Localized Preventive Maintenance Details

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

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 Newton Municipal Airport Earl Johnson Field.



PREPARED FOR

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