

# Spencer Municipal Airport



## Pavement Management Report

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# SPENCER MUNICIPAL AIRPORT PAVEMENT MANAGEMENT REPORT

## Prepared For:



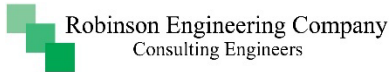
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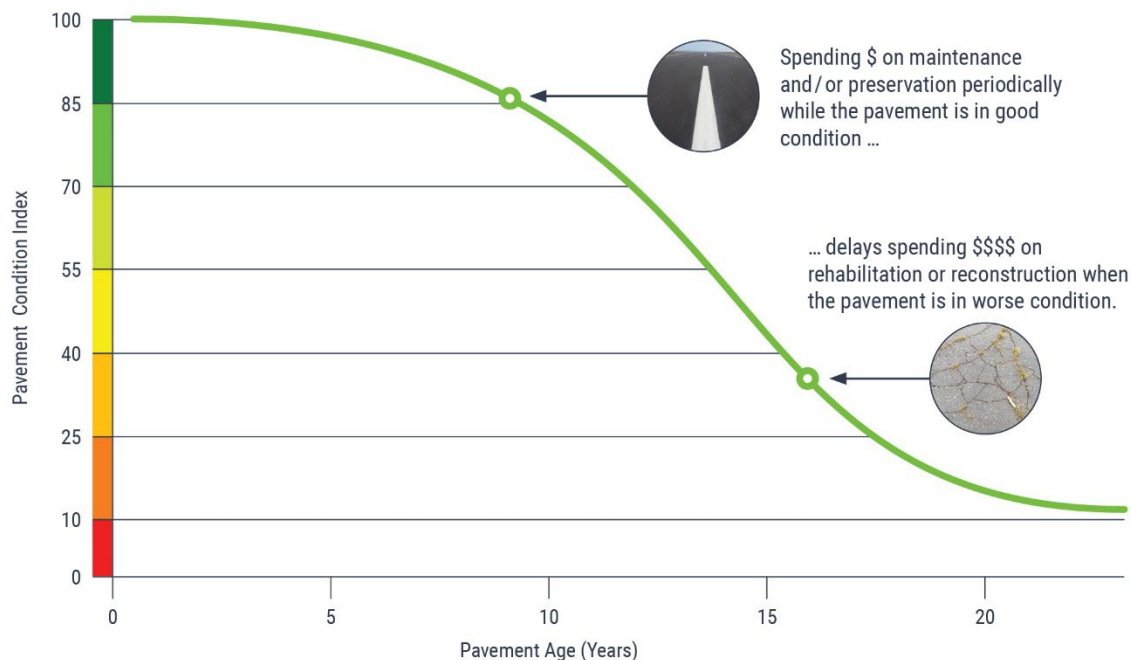
## INTRODUCTION

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 Spencer Municipal Airport were assessed in November 2022 using the Pavement Condition Index (PCI) procedure. During a PCI inspection, the types, severities, and amounts of distress present in a pavement 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 information is 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 Spencer Municipal Airport are presented within this report and can be used by Spencer 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 Spencer 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 2019.

The pavement network at Spencer 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 1,722,400 square feet of pavement were evaluated at Spencer 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 Spencer Municipal Airport.



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

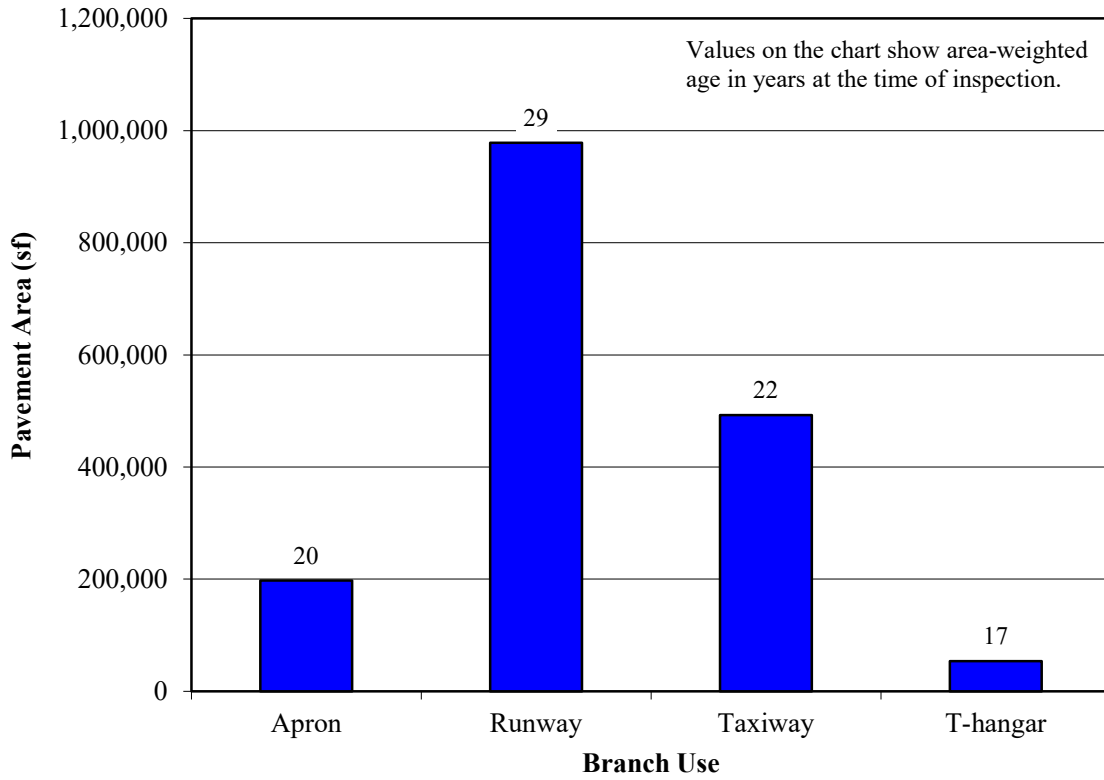
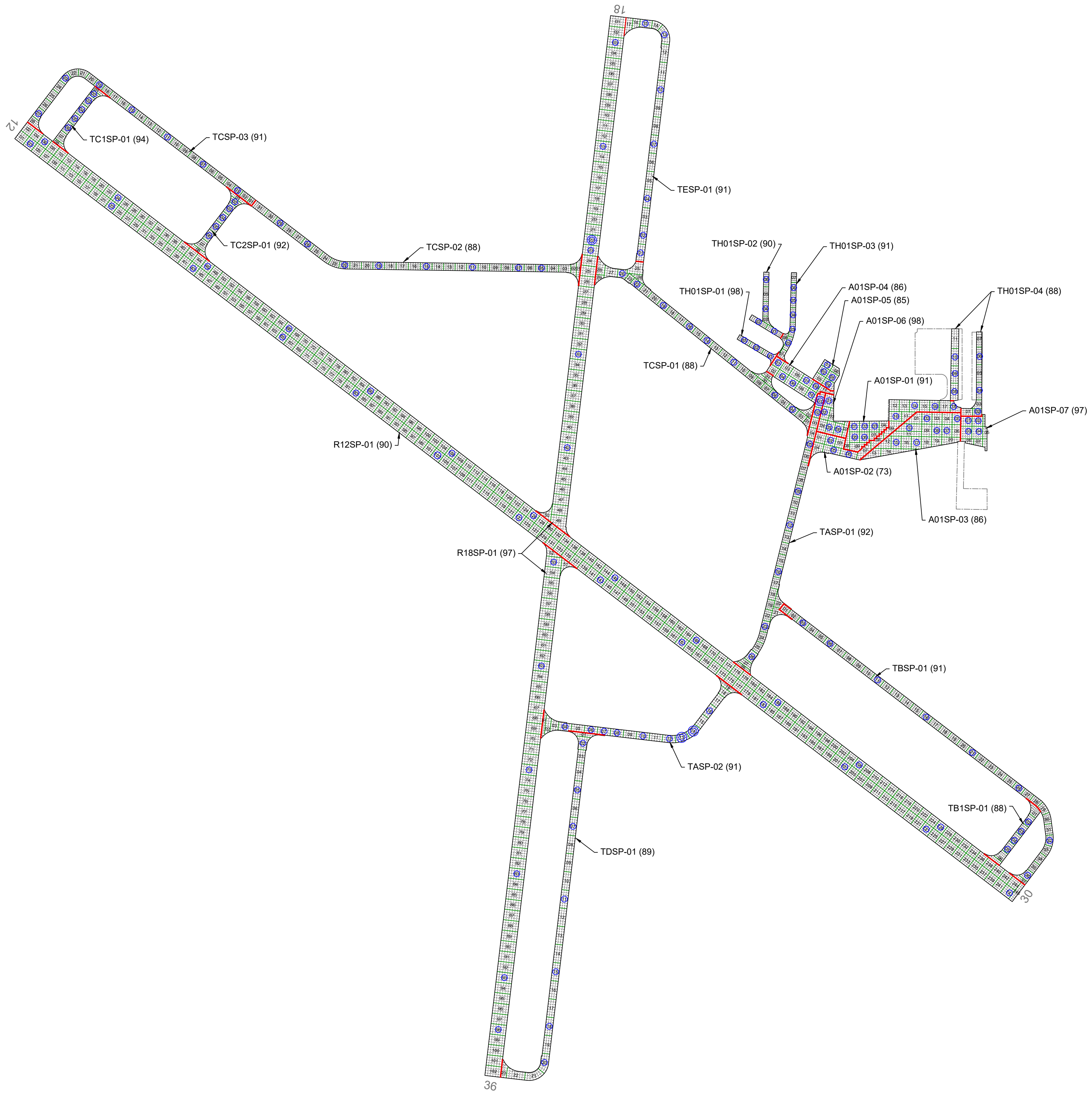


FIGURE 3. NETWORK DEFINITION MAP.



**NETWORK DEFINITION LEGEND**

|    |                        |
|----|------------------------|
|    | BRANCH IDENTIFIER      |
|    | SECTION IDENTIFIER     |
|    | PCI VALUE              |
|    | SECTION BREAK LINE     |
|    | SAMPLE UNIT BREAK LINE |
|    | SLAB JOINT             |
| 03 | SAMPLE UNIT NUMBER     |
|    | SAMPLE UNIT INSPECTED  |
|    | ADDITIONAL SAMPLE UNIT |

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|   |                                 |                                  |                              |
|---|---------------------------------|----------------------------------|------------------------------|
| AGENCY: Iowa Department of Transportation |                                 |                                  |                              |
| Modal Transportation Bureau               |                                 |                                  |                              |
| LOCATION: Spencer Municipal Airport       |                                 |                                  |                              |
| Spencer, Iowa                             |                                 |                                  |                              |
| PAGE TITLE: Network Definition Map        |                                 |                                  |                              |
| PROJECT DATE:<br>OCT. 2022                | CREATION DATE:<br>OCT. 2022     | PROJECT MANAGER:<br>LJR          | JOB NUMBER:<br>2021-125-AM01 |
| DRAWING SCALE:<br>1"=300'                 | LAST MODIFIED DATE:<br>MAY 2023 | REVISED BY:<br>DMS               | DRAWN BY:<br>KEW             |
| FILENAME:<br>Spencer.dwg                  |                                 | LAYOUT NAME/NUMBER:<br>NET. DEF. | PAGE NUMBER:<br>5            |

## PAVEMENT EVALUATION

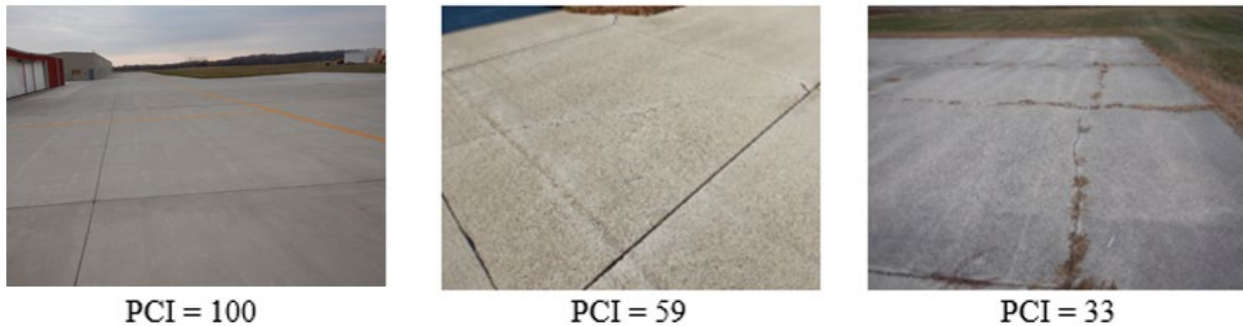
### Pavement Evaluation Procedure

APTech inspected the pavements at Spencer 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 D5340-20, *Standard Test Method for Airport Pavement Condition Index Surveys*.

The PCI provides a numerical indication of overall pavement condition, as illustrated in Figure 4. The types and amounts of deterioration are used to calculate the PCI of the section. 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. 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 Spencer 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     | Reconstruction         |
| 11-25     |                        |
| 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 Spencer Municipal Airport were inspected in November 2022. The 2022 area-weighted condition of Spencer Municipal Airport is 91, with conditions ranging from 73 to 98 (on a scale of 0 [failed] to 100 [excellent]). During the previous pavement inspection in 2019, the area-weighted PCI of the airport was 94.

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

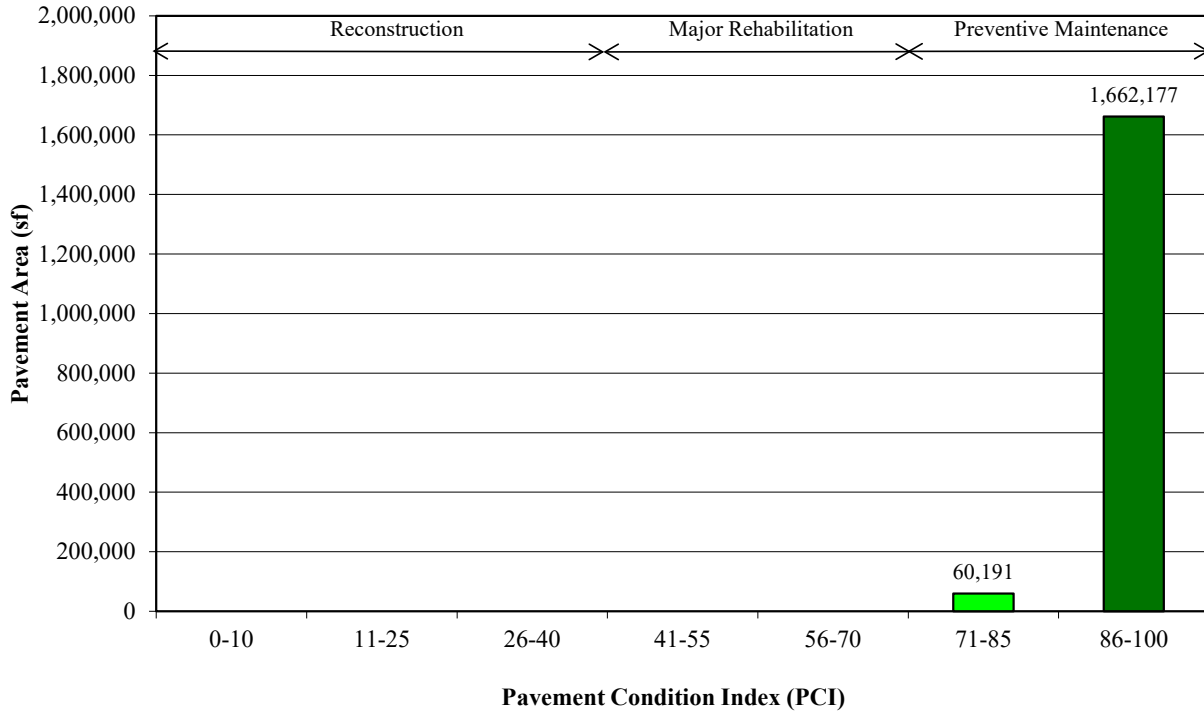


Figure 7. Area-weighted PCI by branch use at Spencer Municipal Airport.  
(Values on chart are area-weighted)

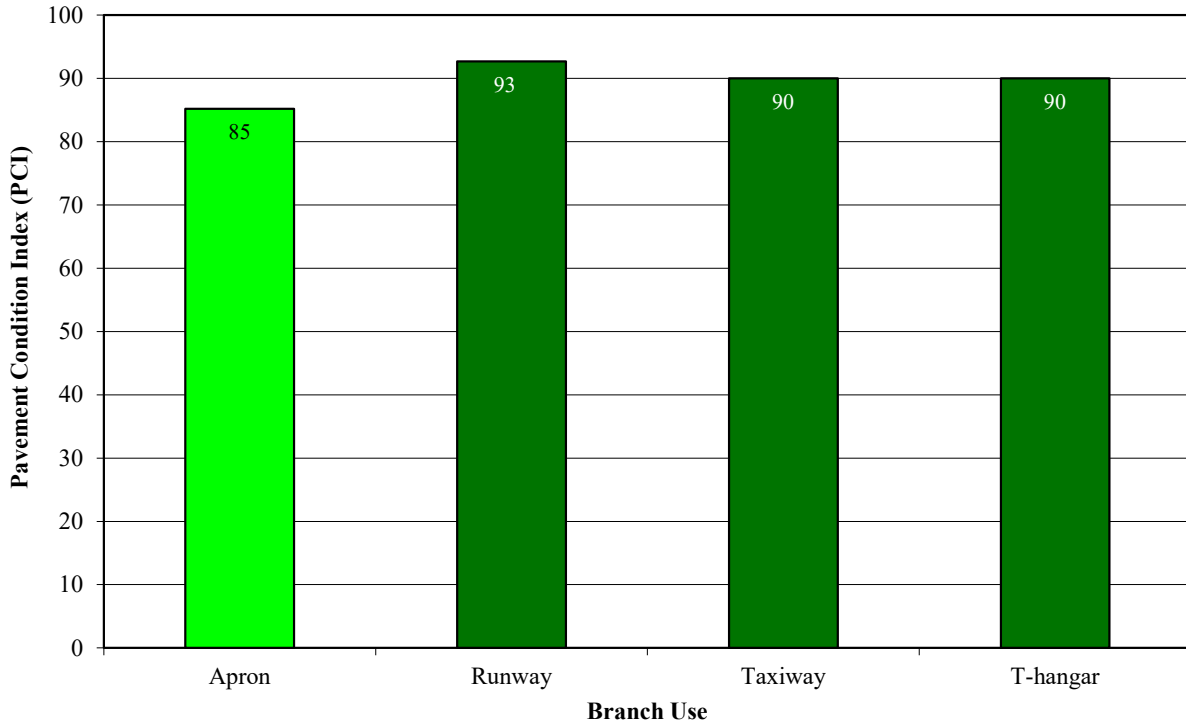
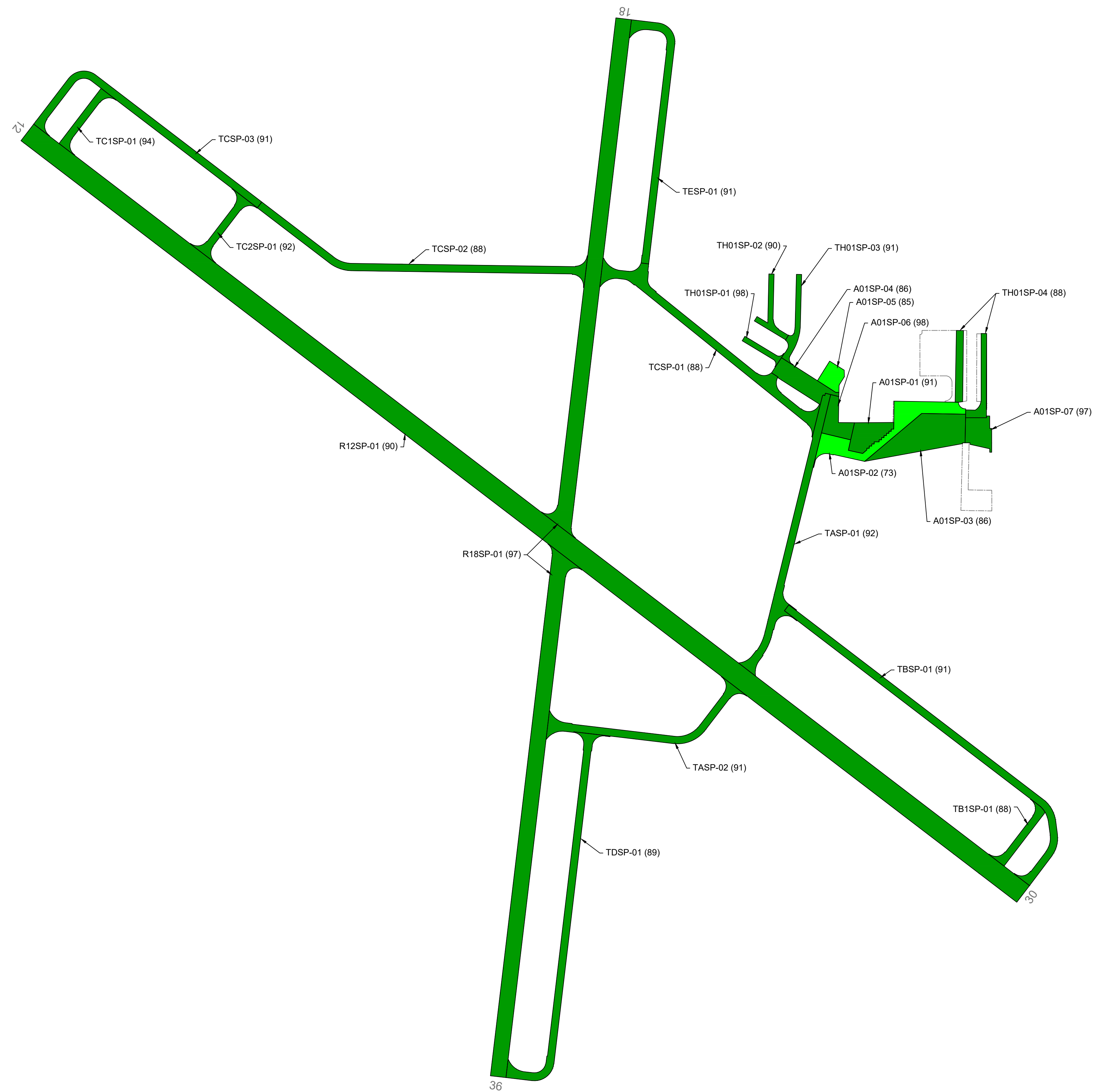


FIGURE 8. PCI MAP.



| 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   |

|  |                                 |   |                              |
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| Robinson Engineering Company<br>Consulting Engineers                     |                                 | 819 Second Street NE<br>Independence, Iowa 50644<br>319-334-7211                            |                              |
| AGENCY: Iowa Department of Transportation<br>Modal Transportation Bureau |                                 |   |                              |
| LOCATION: Spencer Municipal Airport<br>Spencer, Iowa                     |                                 |   |                              |
| PAGE TITLE: 2022 Pavement Condition Index Map                            |                                 |   |                              |
| PROJECT DATE:<br>OCT. 2022   | CREATION DATE:<br>OCT. 2022     | PROJECT MANAGER:<br>LJR   | JOB NUMBER:<br>2021-125-AM01 |
| DRAWING SCALE:<br>1"=300'  | LAST MODIFIED DATE:<br>MAY 2023 | REVISED BY:<br>DMS  | DRAWN BY:<br>KEW             |
| FILENAME:<br>Spencer.dwg   |                                 | LAYOUT NAME/NUMBER:<br>PCI  | PAGE NUMBER:<br>10           |

Table 1. 2022 pavement evaluation results.

| Branch | Section | Surface Type | Section Area (sf) | LCD       | 2022 PCI | % Distress Due to Load | % Distress Due to Climate/Durability | % Distress Due to Other | Type of Distress   |
|--------|---------|--------------|-------------------|-----------|----------|------------------------|--------------------------------------|-------------------------|--|
| A01SP  | 01      | PCC          | 20,474            | 1/1/2018  | 91       | 0                      | 89                                   | 11                      | Corner Spalling, Joint Spalling, Joint Seal Damage   |
| A01SP  | 02      | PCC          | 49,070            | 6/2/1997  | 73       | 35                     | 40                                   | 25                      | Corner Break, Corner Spalling, Faulting, Joint Spalling, Joint Seal Damage, LTD Cracking, Shrinkage Cracking |
| A01SP  | 03      | PCC          | 57,857            | 5/1/2001  | 86       | 0                      | 77                                   | 23                      | Faulting, Joint Spalling, Joint Seal Damage  |
| A01SP  | 04      | PCC          | 25,464            | 6/2/1997  | 86       | 41                     | 40                                   | 19                      | Corner Spalling, Joint Spalling, Joint Seal Damage, LTD Cracking   |
| A01SP  | 05      | PCC          | 11,121            | 5/1/2002  | 85       | 49                     | 36                                   | 15                      | Corner Break, Corner Spalling, Joint Seal Damage, LTD Cracking, Small Patch                                  |
| A01SP  | 06      | PCC          | 16,843            | 5/1/2003  | 98       | 0                      | 84                                   | 16                      | Joint Spalling, Joint Seal Damage  |
| A01SP  | 07      | PCC          | 16,935            | 6/1/2006  | 97       | 0                      | 100                                  | 0                       | Joint Seal Damage  |
| R12SP  | 01      | PCC          | 600,000           | 11/2/1992 | 90       | 31                     | 0                                    | 69                      | Corner Break, Corner Spalling, Faulting, Joint Spalling, Large Patch, LTD Cracking, Small Patch              |
| R18SP  | 01      | PCC          | 378,167           | 6/1/1994  | 97       | 19                     | 36                                   | 45                      | Corner Spalling, Joint Spalling, Joint Seal Damage, LTD Cracking   |
| TASP   | 01      | PCC          | 55,321            | 6/1/1997  | 92       | 18                     | 69                                   | 13                      | Corner Break, Corner Spalling, Joint Seal Damage, LTD Cracking   |
| TASP   | 02      | PCC          | 40,553            | 5/1/2003  | 91       | 14                     | 86                                   | 0                       | Corner Break, Joint Seal Damage  |
| TB1SP  | 01      | PCC          | 13,235            | 6/2/1991  | 88       | 0                      | 100                                  | 0                       | Joint Seal Damage  |
| TBSP   | 01      | PCC          | 70,125            | 6/1/1997  | 91       | 0                      | 98                                   | 2                       | Corner Spalling, Joint Seal Damage   |
| TC1SP  | 01      | PCC          | 13,339            | 6/1/2002  | 94       | 0                      | 100                                  | 0                       | Joint Seal Damage  |
| TC2SP  | 01      | PCC          | 15,151            | 6/1/2002  | 92       | 0                      | 90                                   | 10                      | Joint Spalling, Joint Seal Damage  |



Table 1. 2022 pavement evaluation results (continued).

| Branch | Section | Surface Type | Section Area (sf) | LCD      | 2022 PCI | % Distress Due to Load | % Distress Due to Climate/Durability | % Distress Due to Other | Type of Distress   |
|--------|---------|--------------|-------------------|----------|----------|------------------------|--------------------------------------|-------------------------|--|
| TCSP   | 01      | PCC          | 59,084            | 6/1/2001 | 88       | 24                     | 73                                   | 3                       | Corner Break, Corner Spalling, Joint Seal Damage, LTD Cracking                 |
| TCSP   | 02      | PCC          | 60,191            | 6/1/2002 | 88       | 45                     | 43                                   | 12                      | Corner Spalling, Joint Spalling, Joint Seal Damage, LTD Cracking, Popouts      |
| TCSP   | 03      | PCC          | 49,617            | 6/1/2002 | 91       | 0                      | 77                                   | 23                      | Corner Spalling, Joint Spalling, Joint Seal Damage                             |
| TDSP   | 01      | PCC          | 68,386            | 6/1/2003 | 89       | 31                     | 50                                   | 19                      | Corner Break, Corner Spalling, Joint Spalling, Joint Seal Damage, LTD Cracking |
| TESP   | 01      | PCC          | 47,529            | 6/1/2001 | 91       | 5                      | 93                                   | 2                       | Joint Spalling, Joint Seal Damage, LTD Cracking                                |
| TH01SP | 01      | PCC          | 5,445             | 6/1/2013 | 98       | 0                      | 81                                   | 19                      | Joint Spalling, Joint Seal Damage  |
| TH01SP | 02      | PCC          | 10,689            | 6/1/2001 | 90       | 0                      | 95                                   | 5                       | Corner Spalling, Joint Seal Damage   |
| TH01SP | 03      | PCC          | 12,161            | 6/1/2002 | 91       | 0                      | 80                                   | 20                      | Corner Spalling, Joint Seal Damage   |
| TH01SP | 04      | PCC          | 25,611            | 1/1/2006 | 88       | 0                      | 81                                   | 19                      | Corner Spalling, Faulting, Joint 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 D5340-20. L&T Cracking = Longitudinal and Transverse Cracking; LTD Cracking = Longitudinal, Transverse, and Diagonal Cracking; ASR = Alkali-Silica Reaction.

## Inspection Comments

Spencer Municipal Airport was inspected on November 21, 2022. There were twenty-four pavement sections defined during the inspection.

### *Runways*

Runway 12/30 was defined by one section. Section 01 contained areas of low- and medium-severity corner spalling and joint spalling and low-severity large patching, small patching, faulting, corner break, and longitudinal, transverse, and diagonal (LTD) cracking.

Runway 18/36 contained one section that was in excellent condition. Low- and medium-severity joint spalling and corner spalling and low-severity joint seal damage were recorded in Section 01. An atypical area of low-severity LTD cracking was observed and recorded as an additional sample unit in accordance with ASTM D5340-20.

### *Taxiways*

Taxiway A consisted of two sections. Low- and medium-severity corner spalling and medium-severity joint seal damage were found in Section 01 during the inspection. An atypical area of low-severity corner break and LTD cracking was observed and recorded as an additional sample unit in accordance with ASTM D5340-20. Medium- and high-severity joint seal damage were observed in Section 02. Atypical areas of high-severity corner break were observed and recorded as an additional sample unit in accordance with ASTM D5340-20.

Taxiway B was defined by one section. Section 01 contained areas of low-severity corner spalling and medium- and high-severity joint seal damage.

Taxiway B1 contained one section with only high-severity joint seal damage identified throughout.

Taxiway C was defined by three sections. Medium- and high-severity joint seal damage and medium-severity corner break, corner spalling, and LTD cracking were recorded in Section 01. Low-severity corner spalling and joint spalling, medium-severity joint seal damage and LTD cracking, and popouts were observed in Section 02. Section 03 contained areas of low-severity corner spalling and low- and medium-severity joint seal damage and joint spalling.

Taxiway C1 contained one section. Low- and medium-severity joint seal damage were identified throughout Section 01.

Taxiway C2 consisted of one section. Section 01 contained areas of medium-severity joint seal damage and joint spalling.

Taxiway D was defined by one section. Areas of medium-severity corner break, corner spalling, joint seal damage, joint spalling, and LTD cracking were observed in Section 01.

Taxiway E contained one section. Medium- and high-severity joint seal damage and low-severity joint spalling and LTD cracking were recorded in Section 01 during the inspection.

### *Apron*

The apron area was defined by seven sections. Section 01 contained areas of medium-severity joint spalling and corner spalling and all severities of joint seal damage. Low- and medium-

severity corner break, joint spalling, and LTD cracking; medium-severity corner spalling; low-severity faulting; medium- and high-severity joint seal damage; and shrinkage cracking were identified in Section 02. Areas of low-severity faulting, medium- and high-severity joint seal damage, and low- and medium-severity joint spalling were recorded in Section 03 at the time of inspection. Medium-severity corner spalling and joint seal damage and low- and medium-severity joint spalling and LTD cracking were observed in Section 04. Section 05 contained medium-severity small patching, corner spalling, and joint seal damage and low-severity corner break and LTD cracking at the time of inspection. Section 06 was in excellent condition with low-severity joint seal damage identified throughout along with an isolated amount of low-severity joint spalling. Section 07 was also in excellent condition with only low- and medium-severity joint seal damage observed throughout.

### *T-Hangar*

The T-hangar area consisted of four sections. Section 01 was in excellent condition with low-severity joint seal damage and joint spalling identified. Section 02 contained areas of medium-severity corner spalling and medium- and high-severity joint seal damage. Medium-severity corner spalling and joint seal damage were recorded in Section 03. Section 04 contained medium-severity corner spalling and joint spalling, low-severity faulting, and medium- and high-severity joint seal damage.

## 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 Spencer 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 adjustment to reflect specific conditions at Spencer 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, 2023 and an inflation rate of 4.0 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 (2023) 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 2024 or 2025, then localized preventive maintenance was not recommended for 2023. While localized preventive maintenance should be an annual undertaking at Spencer 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 2023 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 Spencer Municipal Airport is presented in Table 2. Detailed information on the recommended localized preventive maintenance plan for 2023 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 |
|------|--------|---------|--------------|------------------------|----------------|
| 2023 | A01SP  | 01      | PCC          | Preventive Maintenance | \$9,669        |
| 2023 | A01SP  | 02      | PCC          | Preventive Maintenance | \$31,775       |
| 2023 | A01SP  | 03      | PCC          | Preventive Maintenance | \$30,932       |
| 2023 | A01SP  | 04      | PCC          | Preventive Maintenance | \$13,681       |
| 2023 | A01SP  | 05      | PCC          | Preventive Maintenance | \$6,752        |
| 2023 | A01SP  | 07      | PCC          | Preventive Maintenance | \$1,995        |
| 2023 | R12SP  | 01      | PCC          | Preventive Maintenance | \$3,987        |
| 2023 | R18SP  | 01      | PCC          | Preventive Maintenance | \$3,242        |
| 2023 | TASP   | 01      | PCC          | Preventive Maintenance | \$30,574       |
| 2023 | TASP   | 02      | PCC          | Preventive Maintenance | \$18,468       |
| 2023 | TB1SP  | 01      | PCC          | Preventive Maintenance | \$6,917        |
| 2023 | TBSP   | 01      | PCC          | Preventive Maintenance | \$36,895       |
| 2023 | TC1SP  | 01      | PCC          | Preventive Maintenance | \$6,100        |
| 2023 | TC2SP  | 01      | PCC          | Preventive Maintenance | \$8,557        |
| 2023 | TCSP   | 01      | PCC          | Preventive Maintenance | \$36,588       |
| 2023 | TCSP   | 02      | PCC          | Preventive Maintenance | \$33,745       |
| 2023 | TCSP   | 03      | PCC          | Preventive Maintenance | \$25,227       |
| 2023 | TDSP   | 01      | PCC          | Preventive Maintenance | \$33,030       |
| 2023 | TESP   | 01      | PCC          | Preventive Maintenance | \$20,316       |
| 2023 | TH01SP | 02      | PCC          | Preventive Maintenance | \$6,117        |
| 2023 | TH01SP | 03      | PCC          | Preventive Maintenance | \$7,129        |
| 2023 | TH01SP | 04      | PCC          | Preventive Maintenance | \$12,336       |

**Total Estimated Cost: \$385,000**

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 adjustment to reflect specific conditions at Spencer Municipal Airport.

The recommendations made in this report are based on a broad network-level analysis and meant to provide Spencer 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 Spencer 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, Spencer 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 as a result of inspections. These need 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 of extending the life of the pavement system.
5. Ensure that dirt does not build up along the edges of the pavements. This can create a “bathtub” effect, reducing the ability of water to drain away from the pavement system.
6. Closely monitor the movement of heavy equipment (particularly farming, construction, 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 Spencer 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, Spencer 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 (PMP). 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 words are direct quotations from the FAA Advisory Circular.

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

***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 Spencer 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 Spencer 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 Spencer 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: \_\_\_\_\_

| <b>Branch</b> | <b>Section</b> | <b>Distress Description/Dimensions/Severity/<br/>Recommended Action</b> | <b>Description of<br/>Repair</b> | <b>Date<br/>Performed</b> | <b>Cost</b> | <b>Funding<br/>Source</b> |
|---------------|----------------|---|----------------------------------|---------------------------|-------------|---------------------------|
| A01SP         | 01             |   |                                  |                           |             |                           |
| A01SP         | 02             |   |                                  |                           |             |                           |
| A01SP         | 03             |   |                                  |                           |             |                           |
| A01SP         | 04             |   |                                  |                           |             |                           |
| A01SP         | 05             |   |                                  |                           |             |                           |
| A01SP         | 06             |   |                                  |                           |             |                           |

Table 3. Pavement inspection report (continued).

Inspected By: \_\_\_\_\_

Date Inspected: \_\_\_\_\_

| <b>Branch</b> | <b>Section</b> | <b>Distress Description/Dimensions/Severity/<br/>Recommended Action</b> | <b>Description of<br/>Repair</b> | <b>Date<br/>Performed</b> | <b>Cost</b> | <b>Funding<br/>Source</b> |
|---------------|----------------|---|----------------------------------|---------------------------|-------------|---------------------------|
| A01SP         | 07             |   |                                  |                           |             |                           |
| R12SP         | 01             |   |                                  |                           |             |                           |
| R18SP         | 01             |   |                                  |                           |             |                           |
| TASP          | 01             |   |                                  |                           |             |                           |
| TASP          | 02             |   |                                  |                           |             |                           |
| TB1SP         | 01             |   |                                  |                           |             |                           |

Table 3. Pavement inspection report (continued).

Inspected By: \_\_\_\_\_

Date Inspected: \_\_\_\_\_

| <b>Branch</b> | <b>Section</b> | <b>Distress Description/Dimensions/Severity/<br/>Recommended Action</b> | <b>Description of<br/>Repair</b> | <b>Date<br/>Performed</b> | <b>Cost</b> | <b>Funding<br/>Source</b> |
|---------------|----------------|---|----------------------------------|---------------------------|-------------|---------------------------|
| TBSP          | 01             |   |                                  |                           |             |                           |
| TC1SP         | 01             |   |                                  |                           |             |                           |
| TC2SP         | 01             |   |                                  |                           |             |                           |
| TCSP          | 01             |   |                                  |                           |             |                           |
| TCSP          | 02             |   |                                  |                           |             |                           |
| TCSP          | 03             |   |                                  |                           |             |                           |

Table 3. Pavement inspection report (continued).

Inspected By: \_\_\_\_\_

Date Inspected: \_\_\_\_\_

| <b>Branch</b> | <b>Section</b> | <b>Distress Description/Dimensions/Severity/<br/>Recommended Action</b> | <b>Description of<br/>Repair</b> | <b>Date<br/>Performed</b> | <b>Cost</b> | <b>Funding<br/>Source</b> |
|---------------|----------------|---|----------------------------------|---------------------------|-------------|---------------------------|
| TDSP          | 01             |   |                                  |                           |             |                           |
| TESP          | 01             |   |                                  |                           |             |                           |
| TH01SP        | 01             |   |                                  |                           |             |                           |
| TH01SP        | 02             |   |                                  |                           |             |                           |
| TH01SP        | 03             |   |                                  |                           |             |                           |
| TH01SP        | 04             |   |                                  |                           |             |                           |

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 Spencer Municipal Airport. A visual inspection of the pavements in 2022 found that the overall condition of the pavement network is a PCI of 91. A 5-year pavement repair program, shown in Table 2, was generated for Spencer Municipal Airport, which revealed that approximately \$385,000 needs to be expended on M&R. Spencer Municipal Airport should utilize these study results to assist in planning for future maintenance needs as part of the airport CIP planning process.

## **APPENDIX A**

### **CAUSE OF DISTRESS TABLES**

Table A-1. Cause of pavement distress, asphalt-surfaced pavements.

| <b>Distress Type</b>      | <b>Probable Cause of Distress</b>  |
|---------------------------|--|
| 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.

| <b>Distress Type</b>        | <b>Probable Cause of Distress</b>   |
|-----------------------------|---|
| ASR                         | Chemical reaction of alkalis in the portland cement with certain reactive silica minerals. ASR may be accelerated by the use of chemical pavement deicers.                    |
| 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**

A01SP-01. Overview.



A01SP-01. Corner Spalling (Sample Unit No. 05).



A01SP-02. Overview.



A01SP-02. Corner Break (Sample Unit No. 02).



A01SP-03. Overview.



A01SP-03. Joint Spalling (Sample Unit No. 05).



A01SP-04. Overview.



A01SP-04. LTD Cracking (Sample Unit No. 04).



A01SP-05. Overview.



A01SP-05. LTD Cracking (Sample Unit No. 05).



A01SP-06. Overview.



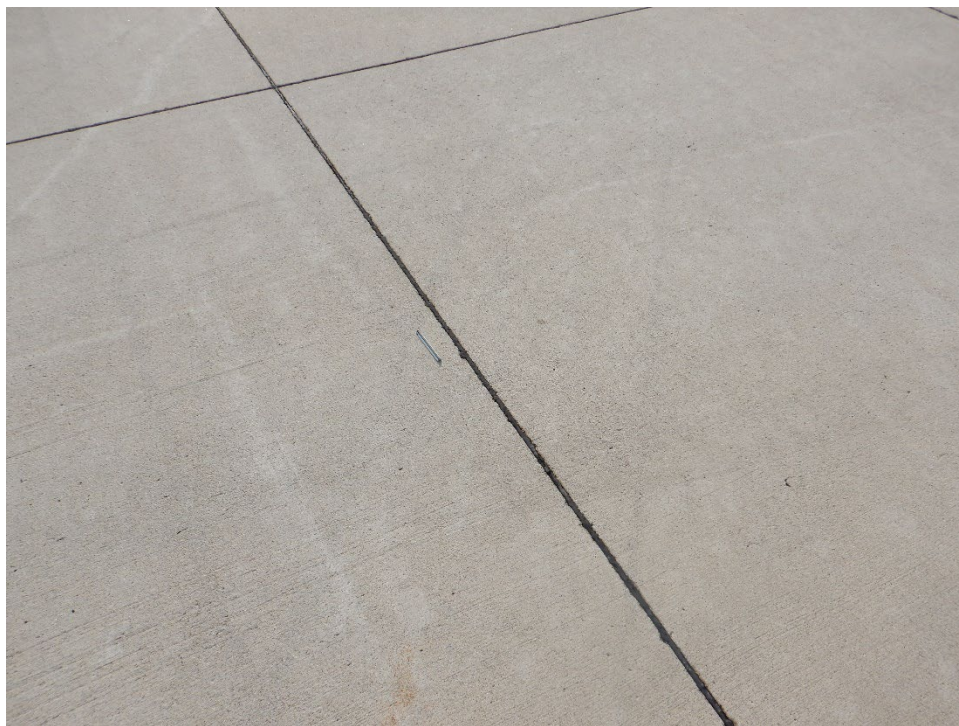
A01SP-06. Joint Spalling (Sample Unit No. 02).



A01SP-07. Overview.



A01SP-07. Joint Seal Damage (Sample Unit No. 01).





R12SP-01. Overview.



R12SP-01. Corner Spalling (Sample Unit No. 23).



R12SP-01. LTD Cracking (Sample Unit No. 83).



R12SP-01. Small Patching (Sample Unit No. 223).



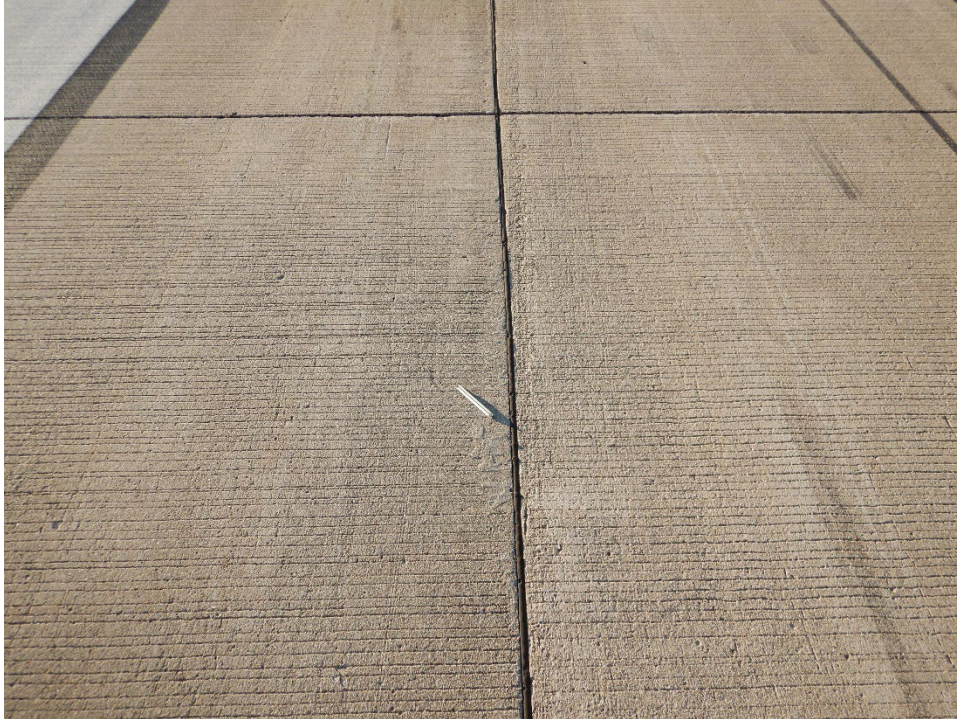
R12SP-01. Small Patching (Sample Unit No. 43).



R18SP-01. Overview.



R18SP-01. Joint Seal Damage (Sample Unit No. 23).



R18SP-01. LTD Cracking (Additional Sample Unit No. 22).



TASP-01. Overview.



TASP-01. Corner Spalling (Sample Unit No. 02).



TASP-01. Joint Seal Damage (Sample Unit No. 16).



TASP-01. LTD Cracking (Additional Sample Unit No. 01).



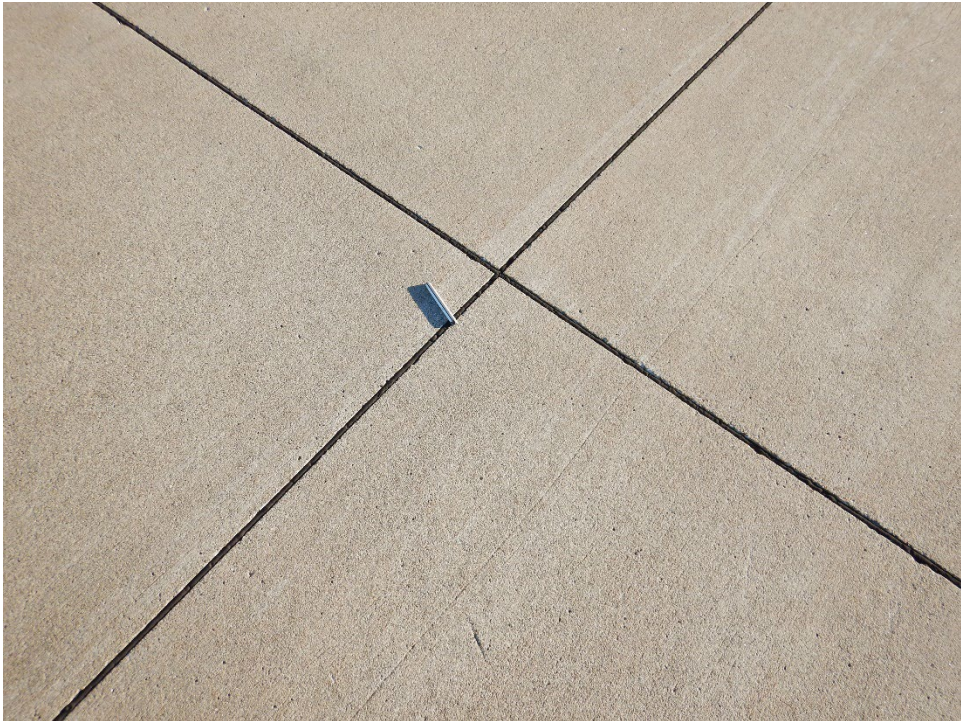
TASP-02. Overview.



TASP-02. Corner Break (Additional Sample Unit No. 14).



TASP-02. Joint Seal Damage (Sample Unit No. 08).

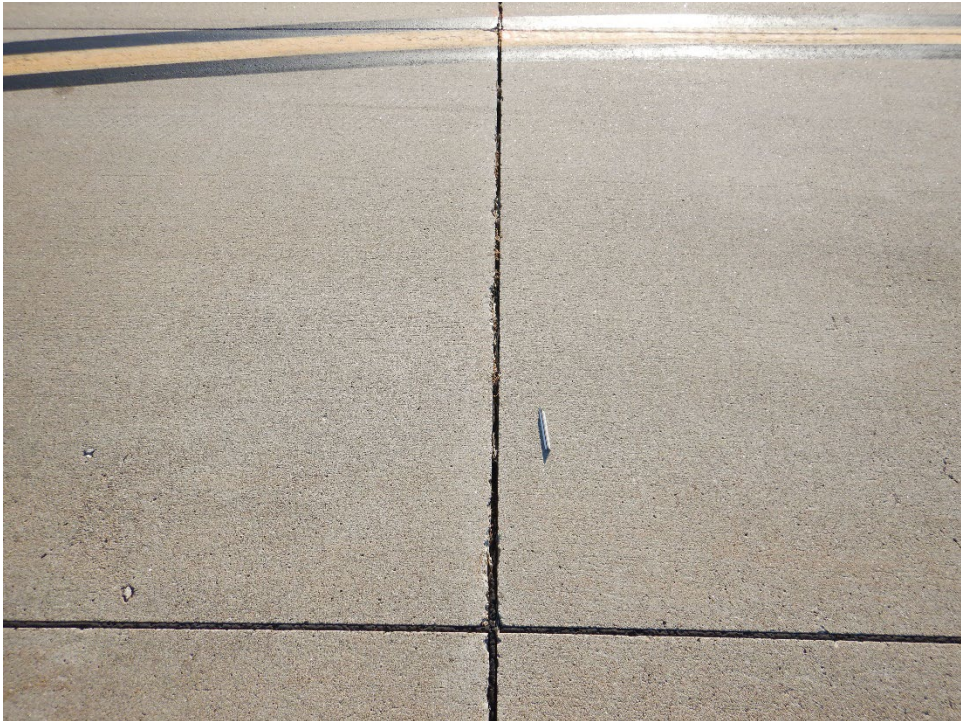


TB1SP-01. Overview.





TB1SP-01. Joint Seal Damage (Sample Unit No. 05).



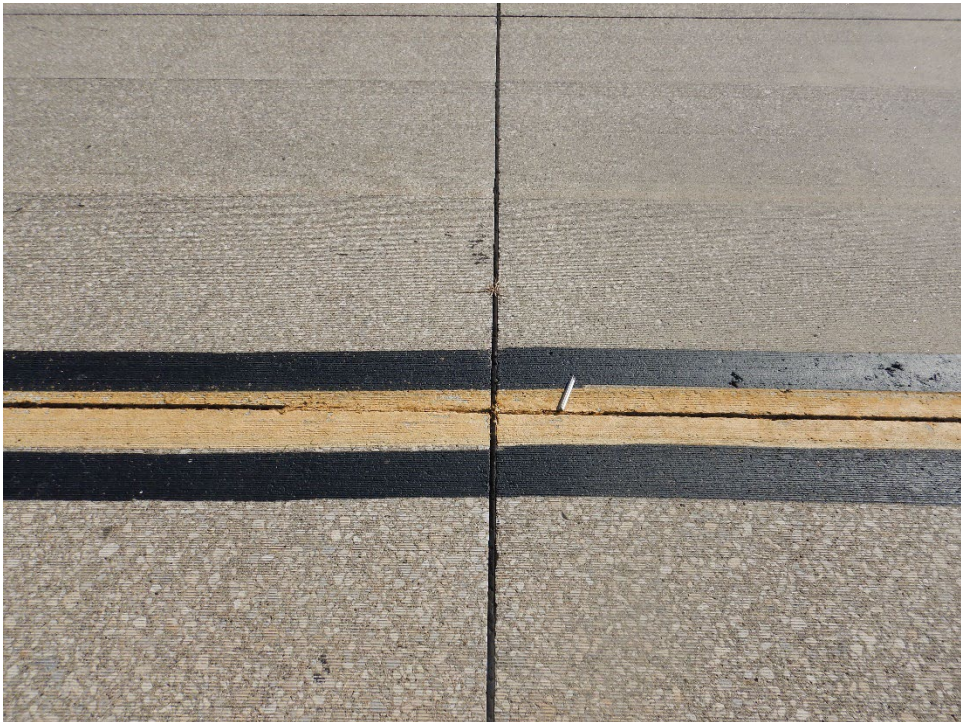
TBSP-01. Overview.



TC1SP-01. Overview.



TC1SP-01. Joint Seal Damage (Sample Unit No. 03).



TC2SP-01. Overview.



TC2SP-01. Joint Seal Damage (Sample Unit No. 03).



TCSP-01. Overview.



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



TCSP-02. Overview.



TCSP-02. LTD Cracking (Sample Unit No. 05).



TCSP-03. Overview.



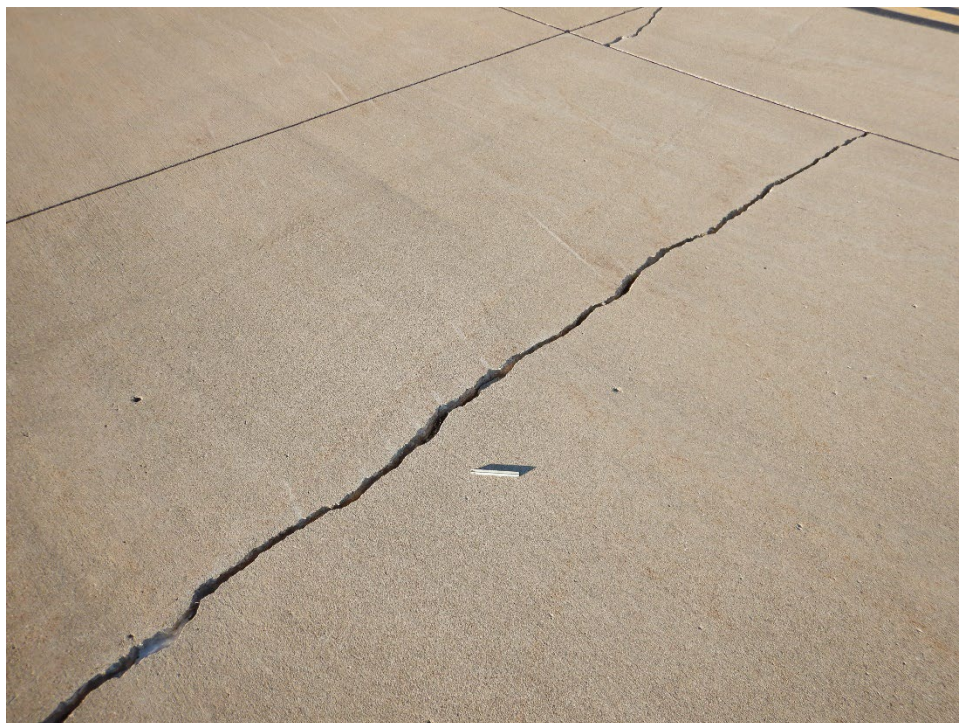
TCSP-03. Joint Seal Damage (Sample Unit No. 03).



TDSP-01. Overview.



TDSP-01. LTD Cracking (Sample Unit No. 20).



TESP-01. Overview.



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





TH01SP-01. Overview.



TH01SP-01. Joint Seal Damage (Sample Unit No. 01).



TH01SP-02. Overview.



TH01SP-02. Corner Spalling (Sample Unit No. 04).



TH01SP-02. Joint Seal Damage (Sample Unit No. 02).



TH01SP-03. Overview.



TH01SP-03. Joint Seal Damage (Sample Unit No. 02).



TH01SP-04. Overview.



TH01SP-04. Joint Seal Damage (Sample Unit No. 02).



**APPENDIX C**

**INSPECTION REPORT**

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

Page 1

## Branch - Section ID: A01SP - 001

Branch Name: APRON 01

Use: APRON

LCD: 1/1/2018

PCI Family: IowaPCCAPNCW\_Enhanced

Surface Type: PCC

Rank: P

Section Area (sf): 20,474.00

Length (ft): 165.00

Width (ft): 150.00

From: A01SP-06

To: A01SP-02

Slabs: 175

Section Comments:

Slab Length (ft): 11.50

Slab Width (ft): 10.20

Joint Length (ft): 3,527.02

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 91

Total Samples: 9

Surveyed: 5

### Sample Number: 01

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 02

Sample Type: R

Sample Comments:

Sample PCI: 94

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

L

20.00 Slabs

75 CORNER SPALL

M

1.00 Slabs

### Sample Number: 03

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 05

Sample Type: R

Sample Comments:

Sample PCI: 89

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

75 CORNER SPALL

M

1.00 Slabs

### Sample Number: 06

Sample Type: R

Sample Comments:

Sample PCI: 84

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

H

20.00 Slabs

74 JOINT SPALL

M

1.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

Page 2

## Branch - Section ID: A01SP - 002

Branch Name: APRON 01

Use: APRON

LCD: 6/2/1997

PCI Family: IowaPCCAPNCW\_Enhanced

Surface Type: PCC

Rank: P

Section Area (sf): 49,070.00

Length (ft): 500.00

Width (ft): 56.00

From: TAXIWAY A

To: T-HANGARS

Slabs: 365

Section Comments:

Slab Length (ft): 12.00

Slab Width (ft): 11.30

Joint Length (ft): 7,523.06

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 73

Total Samples: 18

Surveyed: 7

### Sample Number: 02

Sample Type: R

Sample Comments:

Sample PCI: 74

Sample Area (Slabs): 20.00

|                      |   |             |
|----------------------|---|-------------|
| 62 CORNER BREAK      | L | 1.00 Slabs  |
| 62 CORNER BREAK      | M | 1.00 Slabs  |
| 65 JOINT SEAL DAMAGE | H | 20.00 Slabs |
| 71 FAULTING          | L | 2.00 Slabs  |

### Sample Number: 05

Sample Type: R

Sample Comments:

Sample PCI: 89

Sample Area (Slabs): 27.00

|                      |   |             |
|----------------------|---|-------------|
| 63 LINEAR CRACKING   | L | 1.00 Slabs  |
| 65 JOINT SEAL DAMAGE | M | 27.00 Slabs |

### Sample Number: 06

Sample Type: R

Sample Comments:

Sample PCI: 70

Sample Area (Slabs): 24.00

|                      |   |             |
|----------------------|---|-------------|
| 62 CORNER BREAK      | M | 1.00 Slabs  |
| 63 LINEAR CRACKING   | L | 1.00 Slabs  |
| 65 JOINT SEAL DAMAGE | H | 24.00 Slabs |
| 71 FAULTING          | L | 5.00 Slabs  |

### Sample Number: 10

Sample Type: R

Sample Comments:

Sample PCI: 64

Sample Area (Slabs): 20.00

|                       |   |             |
|-----------------------|---|-------------|
| 63 LINEAR CRACKING    | L | 1.00 Slabs  |
| 63 LINEAR CRACKING    | M | 2.00 Slabs  |
| 65 JOINT SEAL DAMAGE  | H | 20.00 Slabs |
| 73 SHRINKAGE CRACKING | N | 2.00 Slabs  |
| 74 JOINT SPALL        | L | 1.00 Slabs  |
| 74 JOINT SPALL        | M | 1.00 Slabs  |



# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

Page 3

## Sample Number: 14

Sample Type: R

Sample Comments:

Sample PCI: 73

Sample Area (Slabs): 20.00

|                      |   |             |
|----------------------|---|-------------|
| 63 LINEAR CRACKING   | L | 2.00 Slabs  |
| 65 JOINT SEAL DAMAGE | H | 20.00 Slabs |
| 74 JOINT SPALL       | M | 2.00 Slabs  |
| 75 CORNER SPALL      | M | 2.00 Slabs  |

## Sample Number: 16

Sample Type: R

Sample Comments:

Sample PCI: 78

Sample Area (Slabs): 25.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | H | 25.00 Slabs |
| 71 FAULTING          | L | 3.00 Slabs  |
| 74 JOINT SPALL       | L | 4.00 Slabs  |

## Sample Number: 18

Sample Type: R

Sample Comments:

Sample PCI: 51

Sample Area (Slabs): 19.00

|                       |   |             |
|-----------------------|---|-------------|
| 62 CORNER BREAK       | L | 1.00 Slabs  |
| 62 CORNER BREAK       | M | 1.00 Slabs  |
| 63 LINEAR CRACKING    | L | 4.00 Slabs  |
| 63 LINEAR CRACKING    | M | 2.00 Slabs  |
| 65 JOINT SEAL DAMAGE  | M | 19.00 Slabs |
| 73 SHRINKAGE CRACKING | N | 1.00 Slabs  |
| 74 JOINT SPALL        | M | 1.00 Slabs  |
| 74 JOINT SPALL        | M | 1.00 Slabs  |
| 75 CORNER SPALL       | M | 1.00 Slabs  |

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

Page 4

## Branch - Section ID: A01SP - 003

Branch Name: APRON 01

Use: APRON

LCD: 5/1/2001

PCI Family: IowaPCCAPNCW\_Enhanced

Surface Type: PCC

Rank: P

Section Area (sf): 57,857.00

Length (ft): 310.00

Width (ft): 172.00

From: SOUTHWEST CORNER OF A

To: ..

Slabs: 405

Section Comments:

Slab Length (ft): 12.00

Slab Width (ft): 12.00

Joint Length (ft): 9,200.52

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 86

Total Samples: 20

Surveyed: 7

### Sample Number: 02

Sample Type: R

Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

H

20.00 Slabs

### Sample Number: 05

Sample Type: R

Sample Comments:

Sample PCI: 89

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

74 JOINT SPALL

M

1.00 Slabs

### Sample Number: 07

Sample Type: R

Sample Comments:

Sample PCI: 89

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

74 JOINT SPALL

M

1.00 Slabs

### Sample Number: 08

Sample Type: R

Sample Comments:

Sample PCI: 87

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

74 JOINT SPALL

L

1.00 Slabs

74 JOINT SPALL

M

1.00 Slabs

### Sample Number: 10

Sample Type: R

Sample Comments:

Sample PCI: 78

Sample Area (Slabs): 30.00

65 JOINT SEAL DAMAGE

H

30.00 Slabs

71 FAULTING

L

6.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Sample Number: 15

Sample Type: R

Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

H

20.00 Slabs

---

## Sample Number: 17

Sample Type: R

Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

H

20.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Branch - Section ID: A01SP - 004

Branch Name: APRON 01

Use: APRON

LCD: 6/2/1997

PCI Family: IowaPCCAPNCW\_Enhanced

Surface Type: PCC

Rank: P

Section Area (sf): 25,464.00

Length (ft): 250.00

Width (ft): 90.00

From: WEST END OF APRON

To: ..

Slabs: 189

Section Comments:

Slab Length (ft): 11.30

Slab Width (ft): 12.00

Joint Length (ft): 4,012.92

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 86

Total Samples: 11

Surveyed: 6

### Sample Number: 01

Sample Type: R

Sample Comments:

Sample PCI: 87

Sample Area (Slabs): 20.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | M | 20.00 Slabs |
| 74 JOINT SPALL       | L | 1.00 Slabs  |
| 75 CORNER SPALL      | M | 1.00 Slabs  |

### Sample Number: 04

Sample Type: R

Sample Comments:

Sample PCI: 74

Sample Area (Slabs): 20.00

|                      |   |             |
|----------------------|---|-------------|
| 63 LINEAR CRACKING   | L | 3.00 Slabs  |
| 63 LINEAR CRACKING   | M | 1.00 Slabs  |
| 65 JOINT SEAL DAMAGE | M | 20.00 Slabs |
| 75 CORNER SPALL      | M | 1.00 Slabs  |

### Sample Number: 06

Sample Type: R

Sample Comments:

Sample PCI: 84

Sample Area (Slabs): 20.00

|                      |   |             |
|----------------------|---|-------------|
| 63 LINEAR CRACKING   | M | 1.00 Slabs  |
| 65 JOINT SEAL DAMAGE | M | 20.00 Slabs |

### Sample Number: 07

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | M | 20.00 Slabs |
|----------------------|---|-------------|

### Sample Number: 09

Sample Type: R

Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 16.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | M | 16.00 Slabs |
| 75 CORNER SPALL      | M | 1.00 Slabs  |

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Sample Number: 10

Sample Type: R

Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 16.00

65 JOINT SEAL DAMAGE

M

16.00 Slabs

74 JOINT SPALL

M

1.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Branch - Section ID: A01SP - 005

Branch Name: APRON 01

Use: APRON

LCD: 5/1/2002

PCI Family: IowaPCCAPNCW\_Enhanced

Surface Type: PCC

Rank: P

Section Area (sf): 11,121.00

Length (ft): 110.00

Width (ft): 90.00

From: TAXIWAY A

To: ..

Slabs: 111

Section Comments:

Slab Length (ft): 10.00

Slab Width (ft): 10.00

Joint Length (ft): 2,004.57

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 85

Total Samples: 6

Surveyed: 4

### Sample Number: 01

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 15.00

65 JOINT SEAL DAMAGE

M

15.00 Slabs

### Sample Number: 02

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 04

Sample Type: R

Sample Comments:

Sample PCI: 84

Sample Area (Slabs): 26.00

63 LINEAR CRACKING

L

1.00 Slabs

65 JOINT SEAL DAMAGE

M

26.00 Slabs

75 CORNER SPALL

M

2.00 Slabs

### Sample Number: 05

Sample Type: R

Sample Comments:

Sample PCI: 71

Sample Area (Slabs): 20.00

62 CORNER BREAK

L

3.00 Slabs

63 LINEAR CRACKING

L

5.00 Slabs

65 JOINT SEAL DAMAGE

M

20.00 Slabs

66 SMALL PATCH

M

1.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Branch - Section ID: A01SP - 006

Branch Name: APRON 01

Use: APRON

LCD: 5/1/2003

PCI Family: IowaPCCAPNCW\_Enhanced

Surface Type: PCC

Rank: P

Section Area (sf): 16,843.00

Length (ft): 176.00

Width (ft): 158.00

From: A01SP-01

To: A01SP-05

Slabs: 136

Section Comments:

Slab Length (ft): 11.00

Slab Width (ft): 11.30

Joint Length (ft): 2,819.41

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 98

Total Samples: 7

Surveyed: 4

### Sample Number: 01

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 27.00

65 JOINT SEAL DAMAGE

L

27.00 Slabs

### Sample Number: 02

Sample Type: R

Sample Comments:

Sample PCI: 96

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

L

20.00 Slabs

74 JOINT SPALL

L

1.00 Slabs

### Sample Number: 05

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

L

20.00 Slabs

### Sample Number: 06

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

L

20.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Branch - Section ID: A01SP - 007

Branch Name: APRON 01

Use: APRON

LCD: 6/1/2006

PCI Family: IowaPCCAPNCW\_Enhanced

Surface Type: PCC

Rank: P

Section Area (sf): 16,935.00

Length (ft): 180.00

Width (ft): 130.00

From: .

To: .

Slabs: 135

Section Comments:

Slab Length (ft): 12.00

Slab Width (ft): 10.00

Joint Length (ft): 2,752.83

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 97

Total Samples: 7

Surveyed: 4

### Sample Number: 01

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

L

20.00 Slabs

### Sample Number: 02

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 21.00

65 JOINT SEAL DAMAGE

M

21.00 Slabs

### Sample Number: 03

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 25.00

65 JOINT SEAL DAMAGE

L

25.00 Slabs

### Sample Number: 04

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 25.00

65 JOINT SEAL DAMAGE

L

25.00 Slabs



# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Branch - Section ID: R12SP - 001

Branch Name: RUNWAY 12/30

Use: RUNWAY

LCD: 11/2/1992  
 Surface Type: PCC  
 Rank: P  
 Section Area (sf): 600,000.02  
 Length (ft): 6,000.00  
 Width (ft): 100.00  
 From: 12 APPROACH  
 To: TW C CONNECTOR (SECT 05)  
 Slabs: 4,878  
 Slab Length (ft): 12.30  
 Slab Width (ft): 10.00  
 Joint Length (ft): 102,680.49  
 Last Insp Date: 11/21/2022  
 PCI: 90  
 Total Samples: 245  
 Surveyed: 25

PCI Family: IowaPCCRWNCW\_Enhanced

Section Comments:

Inspection Comments:

### Sample Number: 003

Sample Type: R  
 Sample PCI: 100  
 Sample Area (Slabs): 20.00  
 NO DISTRESS

Sample Comments:

### Sample Number: 006

Sample Type: R  
 Sample PCI: 91  
 Sample Area (Slabs): 20.00  
 67 LARGE PATCH

Sample Comments:

L 3.00 Slabs

### Sample Number: 023

Sample Type: R  
 Sample PCI: 94  
 Sample Area (Slabs): 20.00  
 75 CORNER SPALL

Sample Comments:

L 3.00 Slabs

### Sample Number: 024

Sample Type: R  
 Sample PCI: 100  
 Sample Area (Slabs): 20.00  
 NO DISTRESS

Sample Comments:

### Sample Number: 043

Sample Type: R  
 Sample PCI: 90  
 Sample Area (Slabs): 20.00  
 66 SMALL PATCH  
 75 CORNER SPALL

Sample Comments:

L 2.00 Slabs  
 L 5.00 Slabs

### Sample Number: 046

Sample Type: R  
 Sample PCI: 100  
 Sample Area (Slabs): 20.00  
 NO DISTRESS

Sample Comments:

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Sample Number: 065

Sample Type: R

Sample Comments:

Sample PCI: 82

Sample Area (Slabs): 20.00

|                    |   |            |
|--------------------|---|------------|
| 63 LINEAR CRACKING | L | 3.00 Slabs |
| 66 SMALL PATCH     | L | 3.00 Slabs |
| 75 CORNER SPALL    | L | 2.00 Slabs |

## Sample Number: 066

Sample Type: R

Sample Comments:

Sample PCI: 100

Sample Area (Slabs): 20.00

NO DISTRESS

## Sample Number: 083

Sample Type: R

Sample Comments:

Sample PCI: 77

Sample Area (Slabs): 20.00

|                    |   |            |
|--------------------|---|------------|
| 63 LINEAR CRACKING | L | 5.00 Slabs |
| 66 SMALL PATCH     | L | 3.00 Slabs |
| 75 CORNER SPALL    | L | 4.00 Slabs |

## Sample Number: 086

Sample Type: R

Sample Comments:

Sample PCI: 97

Sample Area (Slabs): 20.00

|                 |   |            |
|-----------------|---|------------|
| 66 SMALL PATCH  | L | 1.00 Slabs |
| 75 CORNER SPALL | L | 1.00 Slabs |

## Sample Number: 103

Sample Type: R

Sample Comments:

Sample PCI: 90

Sample Area (Slabs): 20.00

|                |   |            |
|----------------|---|------------|
| 67 LARGE PATCH | L | 2.00 Slabs |
| 74 JOINT SPALL | M | 1.00 Slabs |

## Sample Number: 106

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 20.00

|                 |   |            |
|-----------------|---|------------|
| 75 CORNER SPALL | L | 1.00 Slabs |
|-----------------|---|------------|

## Sample Number: 123

Sample Type: R

Sample Comments:

Sample PCI: 80

Sample Area (Slabs): 20.00

|                    |   |            |
|--------------------|---|------------|
| 63 LINEAR CRACKING | L | 3.00 Slabs |
| 66 SMALL PATCH     | L | 5.00 Slabs |
| 71 FAULTING        | L | 1.00 Slabs |

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Sample Number: 126

Sample Type: R

Sample Comments:

Sample PCI: 89

Sample Area (Slabs): 20.00

|                 |   |            |
|-----------------|---|------------|
| 66 SMALL PATCH  | L | 5.00 Slabs |
| 74 JOINT SPALL  | L | 2.00 Slabs |
| 75 CORNER SPALL | L | 2.00 Slabs |

## Sample Number: 143

Sample Type: R

Sample Comments:

Sample PCI: 70

Sample Area (Slabs): 20.00

|                 |   |            |
|-----------------|---|------------|
| 66 SMALL PATCH  | L | 2.00 Slabs |
| 66 SMALL PATCH  | L | 1.00 Slabs |
| 66 SMALL PATCH  | L | 2.00 Slabs |
| 66 SMALL PATCH  | L | 2.00 Slabs |
| 67 LARGE PATCH  | L | 2.00 Slabs |
| 67 LARGE PATCH  | L | 1.00 Slabs |
| 74 JOINT SPALL  | L | 2.00 Slabs |
| 74 JOINT SPALL  | L | 3.00 Slabs |
| 75 CORNER SPALL | L | 1.00 Slabs |
| 75 CORNER SPALL | L | 1.00 Slabs |
| 75 CORNER SPALL | L | 5.00 Slabs |
| 75 CORNER SPALL | M | 1.00 Slabs |

## Sample Number: 146

Sample Type: R

Sample Comments:

Sample PCI: 89

Sample Area (Slabs): 20.00

|                 |   |            |
|-----------------|---|------------|
| 66 SMALL PATCH  | L | 2.00 Slabs |
| 74 JOINT SPALL  | L | 2.00 Slabs |
| 75 CORNER SPALL | L | 3.00 Slabs |

## Sample Number: 163

Sample Type: R

Sample Comments:

Sample PCI: 86

Sample Area (Slabs): 20.00

|                 |   |            |
|-----------------|---|------------|
| 66 SMALL PATCH  | L | 5.00 Slabs |
| 74 JOINT SPALL  | L | 2.00 Slabs |
| 75 CORNER SPALL | L | 4.00 Slabs |

## Sample Number: 166

Sample Type: R

Sample Comments:

Sample PCI: 84

Sample Area (Slabs): 20.00

|                    |   |            |
|--------------------|---|------------|
| 63 LINEAR CRACKING | L | 3.00 Slabs |
| 75 CORNER SPALL    | L | 4.00 Slabs |

## Sample Number: 183

Sample Type: R

Sample Comments:

Sample PCI: 86

Sample Area (Slabs): 20.00

|                 |   |            |
|-----------------|---|------------|
| 62 CORNER BREAK | L | 2.00 Slabs |
| 66 SMALL PATCH  | L | 6.00 Slabs |
| 74 JOINT SPALL  | L | 1.00 Slabs |

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Sample Number: 186

Sample Type: R

Sample Comments:

Sample PCI: 80

Sample Area (Slabs): 20.00

|                    |   |            |
|--------------------|---|------------|
| 63 LINEAR CRACKING | L | 5.00 Slabs |
| 66 SMALL PATCH     | L | 4.00 Slabs |
| 75 CORNER SPALL    | L | 1.00 Slabs |

## Sample Number: 203

Sample Type: R

Sample Comments:

Sample PCI: 94

Sample Area (Slabs): 20.00

|                 |   |            |
|-----------------|---|------------|
| 75 CORNER SPALL | L | 3.00 Slabs |
|-----------------|---|------------|

## Sample Number: 206

Sample Type: R

Sample Comments:

Sample PCI: 94

Sample Area (Slabs): 20.00

|                 |   |            |
|-----------------|---|------------|
| 66 SMALL PATCH  | L | 2.00 Slabs |
| 75 CORNER SPALL | L | 2.00 Slabs |

## Sample Number: 223

Sample Type: R

Sample Comments:

Sample PCI: 94

Sample Area (Slabs): 20.00

|                 |   |            |
|-----------------|---|------------|
| 66 SMALL PATCH  | L | 3.00 Slabs |
| 75 CORNER SPALL | L | 2.00 Slabs |

## Sample Number: 226

Sample Type: R

Sample Comments:

Sample PCI: 95

Sample Area (Slabs): 20.00

|                 |   |            |
|-----------------|---|------------|
| 66 SMALL PATCH  | L | 4.00 Slabs |
| 75 CORNER SPALL | L | 1.00 Slabs |

## Sample Number: 243

Sample Type: R

Sample Comments:

Sample PCI: 96

Sample Area (Slabs): 20.00

|                 |   |            |
|-----------------|---|------------|
| 66 SMALL PATCH  | L | 3.00 Slabs |
| 75 CORNER SPALL | L | 1.00 Slabs |

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Branch - Section ID: R18SP - 001

Branch Name: RUNWAY 18/36

Use: RUNWAY

LCD: 6/1/1994

PCI Family: IowaPCCRWNCW\_Enhanced

Surface Type: PCC

Rank: S

Section Area (sf): 378,167.01

Length (ft): 5,100.00

Width (ft): 75.00

From: 18 APPROACH

To: RUNWAY 12/30

Slabs: 2,420

Section Comments:

Slab Length (ft): 12.50

Slab Width (ft): 12.50

Joint Length (ft): 55,390.34

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 97

Total Samples: 102

Surveyed: 12

### Sample Number: 03

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 24.00

65 JOINT SEAL DAMAGE

L

24.00 Slabs

### Sample Number: 13

Sample Type: R

Sample Comments:

Sample PCI: 97

Sample Area (Slabs): 24.00

65 JOINT SEAL DAMAGE

L

24.00 Slabs

74 JOINT SPALL

L

1.00 Slabs

### Sample Number: 22

Sample Type: A

Sample Comments:

Sample PCI: 91

Sample Area (Slabs): 24.00

63 LINEAR CRACKING

L

2.00 Slabs

65 JOINT SEAL DAMAGE

L

24.00 Slabs

### Sample Number: 23

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 24.00

65 JOINT SEAL DAMAGE

L

24.00 Slabs

### Sample Number: 33

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 24.00

65 JOINT SEAL DAMAGE

L

24.00 Slabs

### Sample Number: 42

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 24.00

65 JOINT SEAL DAMAGE

L

24.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Sample Number: 53

Sample Type: R

Sample Comments:

Sample PCI: 90

Sample Area (Slabs): 24.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | L | 24.00 Slabs |
| 74 JOINT SPALL       | M | 1.00 Slabs  |
| 75 CORNER SPALL      | L | 1.00 Slabs  |
| 75 CORNER SPALL      | M | 1.00 Slabs  |

## Sample Number: 63

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 24.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | L | 24.00 Slabs |
|----------------------|---|-------------|

## Sample Number: 73

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 24.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | L | 24.00 Slabs |
|----------------------|---|-------------|

## Sample Number: 83

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 24.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | L | 24.00 Slabs |
|----------------------|---|-------------|

## Sample Number: 93

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 24.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | L | 24.00 Slabs |
|----------------------|---|-------------|

## Sample Number: 98

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 24.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | L | 24.00 Slabs |
|----------------------|---|-------------|

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Branch - Section ID: TASP - 001

Branch Name: TAXIWAY A

Use: TAXIWAY

LCD: 6/1/1997

PCI Family: IowaPCCTWNCW\_Enhanced

Surface Type: PCC

Rank: P

Section Area (sf): 55,321.00

Length (ft): 1,350.00

Width (ft): 35.00

From: TERMINAL APRON

To: RUNWAY 12/30

Slabs: 564

Section Comments:

Slab Length (ft): 11.00

Slab Width (ft): 8.80

Joint Length (ft): 9,573.70

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 92

Total Samples: 28

Surveyed: 8

### Sample Number: 01

Sample Type: A

Sample Comments:

Sample PCI: 80

Sample Area (Slabs): 23.00

|                      |   |             |
|----------------------|---|-------------|
| 62 CORNER BREAK      | L | 1.00 Slabs  |
| 63 LINEAR CRACKING   | L | 1.00 Slabs  |
| 65 JOINT SEAL DAMAGE | M | 23.00 Slabs |
| 75 CORNER SPALL      | L | 1.00 Slabs  |
| 75 CORNER SPALL      | M | 1.00 Slabs  |

### Sample Number: 02

Sample Type: R

Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 16.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | M | 16.00 Slabs |
| 75 CORNER SPALL      | M | 1.00 Slabs  |

### Sample Number: 05

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | M | 20.00 Slabs |
|----------------------|---|-------------|

### Sample Number: 09

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | M | 20.00 Slabs |
|----------------------|---|-------------|

### Sample Number: 12

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | M | 20.00 Slabs |
|----------------------|---|-------------|

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Sample Number: 16

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

---

## Sample Number: 23

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 23.00

65 JOINT SEAL DAMAGE

M

23.00 Slabs

---

## Sample Number: 26

Sample Type: R

Sample Comments:

Sample PCI: 92

Sample Area (Slabs): 30.00

65 JOINT SEAL DAMAGE

M

30.00 Slabs

75 CORNER SPALL

L

1.00 Slabs



# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Branch - Section ID: TASP - 002

Branch Name: TAXIWAY A

Use: TAXIWAY

LCD: 5/1/2003

PCI Family: IowaPCCTWNCW\_Enhanced

Surface Type: PCC

Rank: P

Section Area (sf): 40,553.00

Length (ft): 1,000.00

Width (ft): 35.00

From: RUNWAY 12/30

To: RUNWAY 18/36

Slabs: 276

Section Comments:

Slab Length (ft): 12.50

Slab Width (ft): 11.90

Joint Length (ft): 5,522.90

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 91

Total Samples: 19

Surveyed: 9

### Sample Number: 04

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 22.00

65 JOINT SEAL DAMAGE

M

22.00 Slabs

### Sample Number: 06

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 15.00

65 JOINT SEAL DAMAGE

M

15.00 Slabs

### Sample Number: 07

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 15.00

65 JOINT SEAL DAMAGE

M

15.00 Slabs

### Sample Number: 08

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 15.00

65 JOINT SEAL DAMAGE

M

15.00 Slabs

### Sample Number: 10

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 15.00

65 JOINT SEAL DAMAGE

M

15.00 Slabs

### Sample Number: 12

Sample Type: R

Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 15.00

65 JOINT SEAL DAMAGE

H

15.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

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---

## Sample Number: 13

Sample Type: A

Sample Comments:

Sample PCI: 77

Sample Area (Slabs): 15.00

62 CORNER BREAK

H

1.00 Slabs

65 JOINT SEAL DAMAGE

H

15.00 Slabs

---

## Sample Number: 14

Sample Type: A

Sample Comments:

Sample PCI: 77

Sample Area (Slabs): 15.00

62 CORNER BREAK

H

1.00 Slabs

65 JOINT SEAL DAMAGE

H

15.00 Slabs

---

## Sample Number: 16

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 15.00

65 JOINT SEAL DAMAGE

M

15.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

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## Branch - Section ID: TB1SP - 001

Branch Name: TAXIWAY B1

Use: TAXIWAY

LCD: 6/2/1991

PCI Family: IowaPCCTWNCW\_Enhanced

Surface Type: PCC

Rank: P

Section Area (sf): 13,235.00

Length (ft): 320.00

Width (ft): 35.00

From: TAXIWAY B

To: RUNWAY 12/30

Slabs: 132

Section Comments:

Slab Length (ft): 11.00

Slab Width (ft): 8.80

Joint Length (ft): 2,202.79

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 88

Total Samples: 6

Surveyed: 4

### Sample Number: 02

Sample Type: R

Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 21.00

65 JOINT SEAL DAMAGE

H

21.00 Slabs

### Sample Number: 03

Sample Type: R

Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

H

20.00 Slabs

### Sample Number: 04

Sample Type: R

Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

H

20.00 Slabs

### Sample Number: 05

Sample Type: R

Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

H

20.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

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## Branch - Section ID: TBSP - 001

Branch Name: TAXIWAY B

Use: TAXIWAY

LCD: 6/1/1997

PCI Family: IowaPCCTWNCW\_Enhanced

Surface Type: PCC

Rank: P

Section Area (sf): 70,125.00

Length (ft): 1,950.00

Width (ft): 35.00

From: END OF TRANS SLAB OL-RW

To: TAXIWAY A

Slabs: 709

Section Comments:

Slab Length (ft): 11.00

Slab Width (ft): 8.80

Joint Length (ft): 12,043.83

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 91

Total Samples: 37

Surveyed: 8

### Sample Number: 03

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 06

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 11

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 16

Sample Type: R

Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

H

20.00 Slabs

### Sample Number: 21

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 26

Sample Type: R

Sample Comments:

Sample PCI: 91

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

75 CORNER SPALL

L

1.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

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Network ID: SPW

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## Sample Number: 32

Sample Type: R

Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

H

20.00 Slabs

---

## Sample Number: 36

Sample Type: R

Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 24.00

65 JOINT SEAL DAMAGE

H

20.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

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Network ID: SPW

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## Branch - Section ID: TC1SP - 001

Branch Name: TAXIWAY C1

Use: TAXIWAY

LCD: 6/1/2002

PCI Family: IowaPCCTWNCW\_Enhanced

Surface Type: PCC

Rank: P

Section Area (sf): 13,339.00

Length (ft): 330.00

Width (ft): 35.00

From: TAXIWAY C

To: R12/30

Slabs: 142

Section Comments:

Slab Length (ft): 10.30

Slab Width (ft): 8.80

Joint Length (ft): 2,302.43

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 94

Total Samples: 8

Surveyed: 5

### Sample Number: 02

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 15.00

65 JOINT SEAL DAMAGE

L

15.00 Slabs

### Sample Number: 03

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 21.00

65 JOINT SEAL DAMAGE

M

21.00 Slabs

### Sample Number: 04

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 05

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 06

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

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Network ID: SPW

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## Branch - Section ID: TC2SP - 001

Branch Name: TAXIWAY C2

Use: TAXIWAY

|  |   |
|--|---|
| <p>LCD: 6/1/2002<br/>                 Surface Type: PCC<br/>                 Rank: P<br/>                 Section Area (sf): 15,151.00<br/>                 Length (ft): 330.00<br/>                 Width (ft): 35.00<br/>                 From: TAXIWAY C<br/>                 To: RUNWAY 12/30<br/>                 Slabs: 162<br/>                 Slab Length (ft): 10.00<br/>                 Slab Width (ft): 8.80<br/>                 Joint Length (ft): 2,595.09<br/>                 Last Insp Date: 11/21/2022<br/>                 PCI: 92<br/>                 Total Samples: 8<br/>                 Surveyed: 5</p> | <p>PCI Family: IowaPCCTWNCW_Enhanced</p> <p>Section Comments:</p> <p>Inspection Comments:</p> |
|--|---|

### Sample Number: 02

|                            |                  |
|----------------------------|------------------|
| Sample Type: R             | Sample Comments: |
| Sample PCI: 93             |                  |
| Sample Area (Slabs): 18.00 |                  |
| 65 JOINT SEAL DAMAGE       | M 18.00 Slabs    |

### Sample Number: 03

|                            |                  |
|----------------------------|------------------|
| Sample Type: R             | Sample Comments: |
| Sample PCI: 89             |                  |
| Sample Area (Slabs): 22.00 |                  |
| 65 JOINT SEAL DAMAGE       | M 22.00 Slabs    |
| 74 JOINT SPALL             | M 1.00 Slabs     |

### Sample Number: 04

|                            |                  |
|----------------------------|------------------|
| Sample Type: R             | Sample Comments: |
| Sample PCI: 93             |                  |
| Sample Area (Slabs): 20.00 |                  |
| 65 JOINT SEAL DAMAGE       | M 20.00 Slabs    |

### Sample Number: 05

|                            |                  |
|----------------------------|------------------|
| Sample Type: R             | Sample Comments: |
| Sample PCI: 93             |                  |
| Sample Area (Slabs): 20.00 |                  |
| 65 JOINT SEAL DAMAGE       | M 20.00 Slabs    |

### Sample Number: 06

|                            |                  |
|----------------------------|------------------|
| Sample Type: R             | Sample Comments: |
| Sample PCI: 93             |                  |
| Sample Area (Slabs): 20.00 |                  |
| 65 JOINT SEAL DAMAGE       | M 20.00 Slabs    |

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

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## Branch - Section ID: TCSP - 001

Branch Name: TAXIWAY C

Use: TAXIWAY

LCD: 6/1/2001

PCI Family: IowaPCCTWNCW\_Enhanced

Surface Type: PCC

Rank: P

Section Area (sf): 59,084.00

Length (ft): 1,130.00

Width (ft): 35.00

From: 12 APPROACH

To: TW C CONNECTOR (SECT 03)

Slabs: 659

Section Comments:

Slab Length (ft): 10.00

Slab Width (ft): 8.80

Joint Length (ft): 10,678.39

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 88

Total Samples: 31

Surveyed: 8

### Sample Number: 04

Sample Type: R

Sample Comments:

Sample PCI: 71

Sample Area (Slabs): 20.00

63 LINEAR CRACKING

M

3.00 Slabs

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 06

Sample Type: R

Sample Comments:

Sample PCI: 89

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

75 CORNER SPALL

M

1.00 Slabs

### Sample Number: 11

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 14

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 16

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 19

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs



# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

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## Sample Number: 22

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

---

## Sample Number: 26

Sample Type: R

Sample Comments:

Sample PCI: 83

Sample Area (Slabs): 23.00

62 CORNER BREAK

M

1.00 Slabs

65 JOINT SEAL DAMAGE

H

23.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Branch - Section ID: TCSP - 002

Branch Name: TAXIWAY C

Use: TAXIWAY

LCD: 6/1/2002

PCI Family: IowaPCCTWNCW\_Enhanced

Surface Type: PCC

Rank: P

Section Area (sf): 60,191.00

Length (ft): 1,600.00

Width (ft): 35.00

From: RUNWAY 12/30

To: PARALLEL TAXIWAY C

Slabs: 622

Section Comments:

Slab Length (ft): 11.00

Slab Width (ft): 8.80

Joint Length (ft): 10,554.43

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 88

Total Samples: 31

Surveyed: 8

### Sample Number: 05

Sample Type: R

Sample Comments:

Sample PCI: 63

Sample Area (Slabs): 20.00

63 LINEAR CRACKING

M

5.00 Slabs

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 07

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 11

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 15

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

### Sample Number: 19

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

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## Sample Number: 22

Sample Type: R

Sample Comments:

Sample PCI: 86

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

74 JOINT SPALL

L

2.00 Slabs

75 CORNER SPALL

L

2.00 Slabs

---

## Sample Number: 26

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

---

## Sample Number: 29

Sample Type: R

Sample Comments:

Sample PCI: 89

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

68 POPOUTS

N

1.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Branch - Section ID: TCSP - 003

Branch Name: TAXIWAY C

Use: TAXIWAY

LCD: 6/1/2002

PCI Family: IowaPCCTWNCW\_Enhanced

Surface Type: PCC

Rank: P

Section Area (sf): 49,617.00

Length (ft): 1,370.00

Width (ft): 35.00

From: NE OF RUNWAY 12/30

To: PARALLEL TAXIWAY C

Slabs: 554

Section Comments:

Slab Length (ft): 10.00

Slab Width (ft): 8.80

Joint Length (ft): 8,986.52

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 91

Total Samples: 28

Surveyed: 7

### Sample Number: 03

Sample Type: R

Sample Comments:

Sample PCI: 89

Sample Area (Slabs): 20.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | M | 20.00 Slabs |
| 74 JOINT SPALL       | L | 1.00 Slabs  |
| 75 CORNER SPALL      | L | 1.00 Slabs  |

### Sample Number: 07

Sample Type: R

Sample Comments:

Sample PCI: 91

Sample Area (Slabs): 20.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | M | 20.00 Slabs |
| 75 CORNER SPALL      | L | 1.00 Slabs  |

### Sample Number: 11

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 20.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | M | 20.00 Slabs |
|----------------------|---|-------------|

### Sample Number: 15

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 20.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | L | 20.00 Slabs |
|----------------------|---|-------------|

### Sample Number: 19

Sample Type: R

Sample Comments:

Sample PCI: 89

Sample Area (Slabs): 20.00

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | M | 20.00 Slabs |
| 74 JOINT SPALL       | L | 1.00 Slabs  |
| 75 CORNER SPALL      | L | 1.00 Slabs  |

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

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## Sample Number: 23

Sample Type: R

Sample Comments:

Sample PCI: 89

Sample Area (Slabs): 20.00

65 JOINT SEAL DAMAGE

M

20.00 Slabs

74 JOINT SPALL

M

1.00 Slabs

---

## Sample Number: 27

Sample Type: R

Sample Comments:

Sample PCI: 90

Sample Area (Slabs): 22.00

65 JOINT SEAL DAMAGE

M

22.00 Slabs

74 JOINT SPALL

L

1.00 Slabs

75 CORNER SPALL

L

1.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Branch - Section ID: TDSP - 001

Branch Name: TAXIWAY D

Use: TAXIWAY

LCD: 6/1/2003

PCI Family: IowaPCCTWNCW\_Enhanced

Surface Type: PCC

Rank: P

Section Area (sf): 68,386.00

Length (ft): 1,825.00

Width (ft): 35.00

From: 36 APPROACH

To: S OF RUNWAY 12/30

Slabs: 455

Section Comments:

Slab Length (ft): 12.50

Slab Width (ft): 11.70

Joint Length (ft): 9,072.50

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 89

Total Samples: 23

Surveyed: 7

### Sample Number: 02

Sample Type: R

Sample Comments:

Sample PCI: 87

Sample Area (Slabs): 25.00

65 JOINT SEAL DAMAGE

M

25.00 Slabs

74 JOINT SPALL

M

1.00 Slabs

75 CORNER SPALL

M

1.00 Slabs

### Sample Number: 05

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 21.00

65 JOINT SEAL DAMAGE

M

21.00 Slabs

### Sample Number: 07

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 21.00

65 JOINT SEAL DAMAGE

M

21.00 Slabs

### Sample Number: 11

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 21.00

65 JOINT SEAL DAMAGE

M

21.00 Slabs

### Sample Number: 15

Sample Type: R

Sample Comments:

Sample PCI: 89

Sample Area (Slabs): 21.00

65 JOINT SEAL DAMAGE

M

21.00 Slabs

75 CORNER SPALL

M

1.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

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## Sample Number: 18

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 21.00

65 JOINT SEAL DAMAGE

M

21.00 Slabs

---

## Sample Number: 20

Sample Type: R

Sample Comments:

Sample PCI: 77

Sample Area (Slabs): 27.00

62 CORNER BREAK

M

1.00 Slabs

63 LINEAR CRACKING

M

1.00 Slabs

65 JOINT SEAL DAMAGE

M

27.00 Slabs

74 JOINT SPALL

M

2.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Branch - Section ID: TESP - 001

Branch Name: TAXIWAY E

Use: TAXIWAY

|                              |                                   |
|------------------------------|-----------------------------------|
| LCD: 6/1/2001                | PCI Family: IowaPCCTWNCW_Enhanced |
| Surface Type: PCC            |                                   |
| Rank: P                      |                                   |
| Section Area (sf): 47,529.00 |                                   |
| Length (ft): 1,300.00        |                                   |
| Width (ft): 35.00            |                                   |
| From: TAXIWAY C              |                                   |
| To: 18 APPROACH              |                                   |
| Slabs: 325                   | Section Comments:                 |
| Slab Length (ft): 12.50      |                                   |
| Slab Width (ft): 11.70       |                                   |
| Joint Length (ft): 6,470.10  |                                   |
| Last Insp Date: 11/21/2022   | Inspection Comments:              |
| PCI: 91                      |                                   |
| Total Samples: 17            |                                   |
| Surveyed: 7                  |                                   |

### Sample Number: 01

|                            |                  |
|----------------------------|------------------|
| Sample Type: R             | Sample Comments: |
| Sample PCI: 92             |                  |
| Sample Area (Slabs): 24.00 |                  |
| 65 JOINT SEAL DAMAGE       | M 24.00 Slabs    |
| 74 JOINT SPALL             | L 1.00 Slabs     |

### Sample Number: 02

|                            |                  |
|----------------------------|------------------|
| Sample Type: R             | Sample Comments: |
| Sample PCI: 93             |                  |
| Sample Area (Slabs): 21.00 |                  |
| 65 JOINT SEAL DAMAGE       | M 21.00 Slabs    |

### Sample Number: 04

|                            |                  |
|----------------------------|------------------|
| Sample Type: R             | Sample Comments: |
| Sample PCI: 93             |                  |
| Sample Area (Slabs): 21.00 |                  |
| 65 JOINT SEAL DAMAGE       | M 21.00 Slabs    |

### Sample Number: 07

|                            |                  |
|----------------------------|------------------|
| Sample Type: R             | Sample Comments: |
| Sample PCI: 93             |                  |
| Sample Area (Slabs): 21.00 |                  |
| 65 JOINT SEAL DAMAGE       | M 21.00 Slabs    |

### Sample Number: 10

|                            |                  |
|----------------------------|------------------|
| Sample Type: R             | Sample Comments: |
| Sample PCI: 93             |                  |
| Sample Area (Slabs): 21.00 |                  |
| 65 JOINT SEAL DAMAGE       | M 21.00 Slabs    |

### Sample Number: 13

|                            |                  |
|----------------------------|------------------|
| Sample Type: R             | Sample Comments: |
| Sample PCI: 88             |                  |
| Sample Area (Slabs): 21.00 |                  |
| 65 JOINT SEAL DAMAGE       | H 21.00 Slabs    |



# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Sample Number: 15

Sample Type: R

Sample Comments:

Sample PCI: 83

Sample Area (Slabs): 20.00

63 LINEAR CRACKING

L

1.00 Slabs

65 JOINT SEAL DAMAGE

H

20.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Branch - Section ID: TH01SP - 001

Branch Name: T-HANGAR 01

Use: T-HANGAR

LCD: 6/1/2013

PCI Family: IowaPCCTH NC NCW

Surface Type: PCC

Rank: P

Section Area (sf): 5,445.00

Length (ft): 200.00

Width (ft): 25.00

From: .

To: .

Slabs: 70

Section Comments: avg

Slab Length (ft): 9.70

Slab Width (ft): 8.00

Joint Length (ft): 996.94

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 98

Total Samples: 3

Surveyed: 3

### Sample Number: 01

Sample Type: R

Sample Comments:

Sample PCI: 97

Sample Area (Slabs): 28.00

65 JOINT SEAL DAMAGE

L

28.00 Slabs

74 JOINT SPALL

L

1.00 Slabs

### Sample Number: 02

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 21.00

65 JOINT SEAL DAMAGE

L

21.00 Slabs

### Sample Number: 03

Sample Type: R

Sample Comments:

Sample PCI: 98

Sample Area (Slabs): 21.00

65 JOINT SEAL DAMAGE

L

21.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Branch - Section ID: TH01SP - 002

Branch Name: T-HANGAR 01

Use: T-HANGAR

LCD: 6/1/2001

PCI Family: IowaPCCTH NC NCW

Surface Type: PCC

Rank: P

Section Area (sf): 10,689.00

Length (ft): 410.00

Width (ft): 25.00

From: .

To: .

Slabs: 129

Section Comments:

Slab Length (ft): 10.00

Slab Width (ft): 8.30

Joint Length (ft): 1,903.10

Last Insp Date: 11/21/2022

Inspection Comments:

PCI: 90

Total Samples: 6

Surveyed: 4

### Sample Number: 01

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 27.00

65 JOINT SEAL DAMAGE

M

27.00 Slabs

### Sample Number: 02

Sample Type: R

Sample Comments:

Sample PCI: 88

Sample Area (Slabs): 27.00

65 JOINT SEAL DAMAGE

H

27.00 Slabs

### Sample Number: 04

Sample Type: R

Sample Comments:

Sample PCI: 84

Sample Area (Slabs): 21.00

65 JOINT SEAL DAMAGE

H

21.00 Slabs

75 CORNER SPALL

M

1.00 Slabs

### Sample Number: 06

Sample Type: R

Sample Comments:

Sample PCI: 93

Sample Area (Slabs): 21.00

65 JOINT SEAL DAMAGE

M

21.00 Slabs

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Branch - Section ID: TH01SP - 003

Branch Name: T-HANGAR 01

Use: T-HANGAR

LCD: 6/1/2002  
 Surface Type: PCC  
 Rank: P  
 Section Area (sf): 12,161.00  
 Length (ft): 510.00  
 Width (ft): 25.00  
 From: .  
 To: .

PCI Family: IowaPCCTH NC NCW

Slabs: 147  
 Slab Length (ft): 10.00  
 Slab Width (ft): 8.30  
 Joint Length (ft): 2,171.00  
 Last Insp Date: 11/21/2022  
 PCI: 91  
 Total Samples: 8  
 Surveyed: 5

Section Comments:

Inspection Comments:

### Sample Number: 02

Sample Type: R  
 Sample PCI: 89  
 Sample Area (Slabs): 21.00

Sample Comments:

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | M | 21.00 Slabs |
| 75 CORNER SPALL      | M | 1.00 Slabs  |

### Sample Number: 03

Sample Type: R  
 Sample PCI: 89  
 Sample Area (Slabs): 21.00

Sample Comments:

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | M | 21.00 Slabs |
| 75 CORNER SPALL      | M | 1.00 Slabs  |

### Sample Number: 04

Sample Type: R  
 Sample PCI: 93  
 Sample Area (Slabs): 21.00

Sample Comments:

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | M | 21.00 Slabs |
|----------------------|---|-------------|

### Sample Number: 05

Sample Type: R  
 Sample PCI: 93  
 Sample Area (Slabs): 21.00

Sample Comments:

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | M | 21.00 Slabs |
|----------------------|---|-------------|

### Sample Number: 06

Sample Type: R  
 Sample PCI: 93  
 Sample Area (Slabs): 15.00

Sample Comments:

|                      |   |             |
|----------------------|---|-------------|
| 65 JOINT SEAL DAMAGE | M | 15.00 Slabs |
|----------------------|---|-------------|

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Branch - Section ID: TH01SP - 004

Branch Name: T-HANGAR 01

Use: T-HANGAR

|                              |                              |
|------------------------------|------------------------------|
| LCD: 1/1/2006                | PCI Family: IowaPCCTH NC NCW |
| Surface Type: PCC            |                              |
| Rank: P                      |                              |
| Section Area (sf): 25,611.00 |                              |
| Length (ft): 809.00          |                              |
| Width (ft): 28.00            |                              |
| From: .                      |                              |
| To: .                        |                              |
| Slabs: 210                   | Section Comments: avg        |
| Slab Length (ft): 10.00      |                              |
| Slab Width (ft): 12.00       |                              |
| Joint Length (ft): 3,681.38  |                              |
| Last Insp Date: 11/21/2022   | Inspection Comments:         |
| PCI: 88                      |                              |
| Total Samples: 11            |                              |
| Surveyed: 6                  |                              |

### Sample Number: 02

|                            |                                    |
|----------------------------|------------------------------------|
| Sample Type: R             | Sample Comments:                   |
| Sample PCI: 93             |                                    |
| Sample Area (Slabs): 20.00 |                                    |
| 65 JOINT SEAL DAMAGE       | M                      20.00 Slabs |

### Sample Number: 04

|                            |                                    |
|----------------------------|------------------------------------|
| Sample Type: R             | Sample Comments:                   |
| Sample PCI: 89             |                                    |
| Sample Area (Slabs): 21.00 |                                    |
| 65 JOINT SEAL DAMAGE       | M                      21.00 Slabs |
| 74 JOINT SPALL             | M                      1.00 Slabs  |

### Sample Number: 06

|                            |                                    |
|----------------------------|------------------------------------|
| Sample Type: R             | Sample Comments:                   |
| Sample PCI: 93             |                                    |
| Sample Area (Slabs): 21.00 |                                    |
| 65 JOINT SEAL DAMAGE       | M                      21.00 Slabs |

### Sample Number: 08

|                            |                                    |
|----------------------------|------------------------------------|
| Sample Type: R             | Sample Comments:                   |
| Sample PCI: 83             |                                    |
| Sample Area (Slabs): 21.00 |                                    |
| 65 JOINT SEAL DAMAGE       | H                      21.00 Slabs |
| 75 CORNER SPALL            | M                      2.00 Slabs  |

### Sample Number: 09

|                            |                                    |
|----------------------------|------------------------------------|
| Sample Type: R             | Sample Comments:                   |
| Sample PCI: 88             |                                    |
| Sample Area (Slabs): 21.00 |                                    |
| 65 JOINT SEAL DAMAGE       | H                      21.00 Slabs |

# RE-INSPECTION REPORT SPENCER MUNICIPAL AIRPORT

Pavement Database: IA 2022

Generate Date: 6/14/2023

Network ID: SPW

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## Sample Number: 10

Sample Type: R

Sample Comments:

Sample PCI: 81

Sample Area (Slabs): 21.00

65 JOINT SEAL DAMAGE

H

21.00 Slabs

71 FAULTING

L

3.00 Slabs

## **APPENDIX D**

### **WORK HISTORY REPORT**

# WORK HISTORY

Pavement Database: IA 2022

Generate Date: 6/25/2023

Network ID: SPW

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## Network: SPENCER MUNICIPAL AIRPORT

### Branch - Section ID: A01SP - 001

LCD: 1/1/2018  
Use: APRON  
Rank: P  
Surface: PCC

Length (ft): 165.00  
Width (ft): 150.00  
True Area (sf): 20,474.00

| Work Date  | Work Code | Work Description              | Cost   | Thickness (in) | Major MR | Comments   |
|------------|-----------|-------------------------------|--------|----------------|----------|------------|
| 01-01-2018 | CR-PC     | Complete Reconstruction - PCC | \$0.00 | 0.00           | True     | Field Est. |
| 05-01-1975 | NC-PC     | New Construction - PCC        | \$0.00 | 0.00           | True     | -          |

### Branch - Section ID: A01SP - 002

LCD: 6/2/1997  
Use: APRON  
Rank: P  
Surface: PCC

Length (ft): 500.00  
Width (ft): 56.00  
True Area (sf): 49,070.00

| Work Date  | Work Code | Work Description       | Cost   | Thickness (in) | Major MR | Comments         |
|------------|-----------|------------------------|--------|----------------|----------|------------------|
| 06-02-1997 | NC-PC     | New Construction - PCC | \$0.00 | 6.00           | True     | 6" P-501 PCC     |
| 06-01-1997 | SB-AG     | Subbase - Aggregate    | \$0.00 | 6.00           | False    | 6" P-154 Subbase |

### Branch - Section ID: A01SP - 003

LCD: 5/1/2001  
Use: APRON  
Rank: P  
Surface: PCC

Length (ft): 310.00  
Width (ft): 172.00  
True Area (sf): 57,857.00

| Work Date  | Work Code | Work Description       | Cost   | Thickness (in) | Major MR | Comments |
|------------|-----------|------------------------|--------|----------------|----------|----------|
| 05-01-2001 | NC-PC     | New Construction - PCC | \$0.00 | 0.00           | True     | -        |

### Branch - Section ID: A01SP - 004

LCD: 6/2/1997  
Use: APRON  
Rank: P  
Surface: PCC

Length (ft): 250.00  
Width (ft): 90.00  
True Area (sf): 25,464.00

| Work Date  | Work Code | Work Description       | Cost   | Thickness (in) | Major MR | Comments         |
|------------|-----------|------------------------|--------|----------------|----------|------------------|
| 06-02-1997 | NC-PC     | New Construction - PCC | \$0.00 | 6.00           | True     | 6" P-501 PCC     |
| 06-01-1997 | SB-AG     | Subbase - Aggregate    | \$0.00 | 6.00           | False    | 6" P-154 Subbase |

### Branch - Section ID: A01SP - 005

LCD: 5/1/2002  
Use: APRON  
Rank: P  
Surface: PCC

Length (ft): 110.00  
Width (ft): 90.00  
True Area (sf): 11,121.00

| Work Date  | Work Code | Work Description       | Cost   | Thickness (in) | Major MR | Comments     |
|------------|-----------|------------------------|--------|----------------|----------|--------------|
| 05-01-2002 | NC-PC     | New Construction - PCC | \$0.00 | 6.00           | True     | 6" P-501 PCC |



# WORK HISTORY

Pavement Database: IA 2022

Generate Date: 6/25/2023

Network ID: SPW

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## Branch - Section ID: A01SP - 006

LCD: 5/1/2003  
 Use: APRON  
 Rank: P  
 Surface: PCC

Length (ft): 176.00  
 Width (ft): 158.00  
 True Area (sf): 16,843.00

| Work Date  | Work Code | Work Description       | Cost   | Thickness (in) | Major MR | Comments     |
|------------|-----------|------------------------|--------|----------------|----------|--------------|
| 05-01-2003 | NC-PC     | New Construction - PCC | \$0.00 | 6.00           | True     | 6" P-501 PCC |

## Branch - Section ID: A01SP - 007

LCD: 6/1/2006  
 Use: APRON  
 Rank: P  
 Surface: PCC

Length (ft): 180.00  
 Width (ft): 130.00  
 True Area (sf): 16,935.00

| Work Date  | Work Code | Work Description           | Cost   | Thickness (in) | Major MR | Comments     |
|------------|-----------|----------------------------|--------|----------------|----------|--------------|
| 06-01-2006 | NU-IN     | New Construction - Initial | \$0.00 | 0.00           | True     | 6" P-501 PCC |

## Branch - Section ID: R12SP - 001

LCD: 11/2/1992  
 Use: RUNWAY  
 Rank: P  
 Surface: PCC

Length (ft): 6,000.00  
 Width (ft): 100.00  
 True Area (sf): 600,000.02

| Work Date  | Work Code | Work Description             | Cost   | Thickness (in) | Major MR | Comments   |
|------------|-----------|------------------------------|--------|----------------|----------|--|
| 06-02-2021 | JS-LC     | Joint Seal (Localized)       | \$0.00 | 0.00           | False    | JOINT SEAL   |
| 06-01-2021 | PA-PF     | Patching - PCC Full Depth    | \$0.00 | 0.00           | False    | FULL DEPTH PCC PATCHING                              |
| 06-01-2021 | CS-PC     | Crack Sealing - PCC          | \$0.00 | 0.00           | False    | CRACK SEAL   |
| 06-01-2021 | PA-PP     | Patching - PCC Partial Depth | \$0.00 | 0.00           | False    | PARTIAL DEPTH PCC PATCHING                           |
| 06-01-2011 | JS-LC     | Joint Seal (Localized)       | \$0.00 | 0.00           | False    | -  |
| 09-17-2007 | CS-PC     | Crack Sealing - PCC          | \$0.00 | 0.00           | False    | -  |
| 09-16-2007 | JS-LC     | Joint Seal (Localized)       | \$0.00 | 0.00           | False    | -  |
| 11-02-1992 | OL-PU     | Overlay - PCC Unbonded       | \$0.00 | 6.00           | True     | 6" P-501 PCC Overlay, Extension 7" P-501 on 7" P-154 |
| 11-01-1992 | BA-BI     | Base Course - Bituminous     | \$0.00 | 1.00           | False    | 1" bond breaker on 8" existing AC                    |
| 06-02-1958 | NC-AC     | New Construction - AC        | \$0.00 | 2.00           | True     | 2" AC  |
| 06-01-1958 | BA-AG     | Base Course - Aggregate      | \$0.00 | 8.00           | False    | 8" P-208   |

## Branch - Section ID: R18SP - 001

LCD: 6/1/1994  
 Use: RUNWAY  
 Rank: S  
 Surface: PCC

Length (ft): 5,100.00  
 Width (ft): 75.00  
 True Area (sf): 378,167.01

| Work Date  | Work Code | Work Description        | Cost   | Thickness (in) | Major MR | Comments   |
|------------|-----------|-------------------------|--------|----------------|----------|--|
| 06-01-2011 | JS-LC     | Joint Seal (Localized)  | \$0.00 | 0.00           | False    | -  |
| 08-17-2009 | JS-LC     | Joint Seal (Localized)  | \$0.00 | 0.00           | False    | -  |
| 06-01-1994 | OL-PU     | Overlay - PCC Unbonded  | \$0.00 | 6.00           | True     | 6" P-501 PCC Overlay, 1200ft extension 6" PCC on 6" Base |
| 06-02-1985 | NC-AC     | New Construction - AC   | \$0.00 | 2.00           | True     | Date Est. via GE 2" AC                                   |
| 06-01-1985 | BA-AG     | Base Course - Aggregate | \$0.00 | 4.00           | False    | 4" Granular Base   |

# WORK HISTORY

Pavement Database: IA 2022

Generate Date: 6/25/2023

Network ID: SPW

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## Branch - Section ID: TASP - 001

LCD: 6/1/1997  
 Use: TAXIWAY  
 Rank: P  
 Surface: PCC

Length (ft): 1,350.00  
 Width (ft): 35.00  
 True Area (sf): 55,321.00

| Work Date  | Work Code | Work Description        | Cost   | Thickness (in) | Major MR | Comments             |
|------------|-----------|-------------------------|--------|----------------|----------|----------------------|
| 06-01-2007 | JS-LC     | Joint Seal (Localized)  | \$0.00 | 0.00           | False    | -                    |
| 06-01-1997 | OL-PU     | Overlay - PCC Unbonded  | \$0.00 | 6.00           | True     | 6" P-501 PCC Overlay |
| 06-03-1980 | NC-AC     | New Construction - AC   | \$0.00 | 4.00           | True     | 4" P-401 AC          |
| 06-02-1980 | BA-AG     | Base Course - Aggregate | \$0.00 | 6.00           | False    | 6" P-209 Agg Base    |
| 06-01-1980 | SB-AG     | Subbase - Aggregate     | \$0.00 | 4.00           | False    | 5" P-154 Subbase     |

## Branch - Section ID: TASP - 002

LCD: 5/1/2003  
 Use: TAXIWAY  
 Rank: P  
 Surface: PCC

Length (ft): 1,000.00  
 Width (ft): 35.00  
 True Area (sf): 40,553.00

| Work Date  | Work Code | Work Description       | Cost   | Thickness (in) | Major MR | Comments |
|------------|-----------|------------------------|--------|----------------|----------|----------|
| 05-01-2003 | NC-PC     | New Construction - PCC | \$0.00 | 0.00           | True     | -        |

## Branch - Section ID: TB1SP - 001

LCD: 6/2/1991  
 Use: TAXIWAY  
 Rank: P  
 Surface: PCC

Length (ft): 320.00  
 Width (ft): 35.00  
 True Area (sf): 13,235.00

| Work Date  | Work Code | Work Description       | Cost   | Thickness (in) | Major MR | Comments         |
|------------|-----------|------------------------|--------|----------------|----------|------------------|
| 06-02-1991 | NC-PC     | New Construction - PCC | \$0.00 | 6.00           | True     | 6" P-501 PCC     |
| 06-01-1991 | SB-AG     | Subbase - Aggregate    | \$0.00 | 6.00           | False    | 6" P-154 Subbase |

## Branch - Section ID: TBSP - 001

LCD: 6/1/1997  
 Use: TAXIWAY  
 Rank: P  
 Surface: PCC

Length (ft): 1,950.00  
 Width (ft): 35.00  
 True Area (sf): 70,125.00

| Work Date  | Work Code | Work Description        | Cost   | Thickness (in) | Major MR | Comments             |
|------------|-----------|-------------------------|--------|----------------|----------|----------------------|
| 06-01-1997 | OL-PU     | Overlay - PCC Unbonded  | \$0.00 | 6.00           | True     | 6" P-501 PCC Overlay |
| 06-03-1980 | NC-AC     | New Construction - AC   | \$0.00 | 4.00           | True     | 4" P-401 AC          |
| 06-02-1980 | BA-AG     | Base Course - Aggregate | \$0.00 | 6.00           | False    | 6" P-209 Agg Base    |
| 06-01-1980 | SB-AG     | Subbase - Aggregate     | \$0.00 | 4.00           | False    | 5" P-154 Subbase     |

# WORK HISTORY

Pavement Database: IA 2022

Generate Date: 6/25/2023

Network ID: SPW

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## Branch - Section ID: TC1SP - 001

LCD: 6/1/2002  
 Use: TAXIWAY  
 Rank: P  
 Surface: PCC

Length (ft): 330.00  
 Width (ft): 35.00  
 True Area (sf): 13,339.00

| Work Date  | Work Code | Work Description              | Cost   | Thickness (in) | Major MR | Comments         |
|------------|-----------|-------------------------------|--------|----------------|----------|------------------|
| 06-01-2011 | JS-LC     | Joint Seal (Localized)        | \$0.00 | 0.00           | False    | -                |
| 06-16-2009 | JS-LC     | Joint Seal (Localized)        | \$0.00 | 0.00           | False    | -                |
| 06-01-2002 | CR-PC     | Complete Reconstruction - PCC | \$0.00 | 0.00           | True     | -                |
| 06-02-1991 | NC-PC     | New Construction - PCC        | \$0.00 | 6.00           | True     | 6" P-501 PCC     |
| 06-01-1991 | SB-AG     | Subbase - Aggregate           | \$0.00 | 6.00           | False    | 6" P-154 Subbase |

## Branch - Section ID: TC2SP - 001

LCD: 6/1/2002  
 Use: TAXIWAY  
 Rank: P  
 Surface: PCC

Length (ft): 330.00  
 Width (ft): 35.00  
 True Area (sf): 15,151.00

| Work Date  | Work Code | Work Description              | Cost   | Thickness (in) | Major MR | Comments |
|------------|-----------|-------------------------------|--------|----------------|----------|----------|
| 08-16-2009 | JS-LC     | Joint Seal (Localized)        | \$0.00 | 0.00           | False    | -        |
| 06-01-2002 | CR-PC     | Complete Reconstruction - PCC | \$0.00 | 0.00           | True     | -        |

## Branch - Section ID: TCSP - 001

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

Length (ft): 1,130.00  
 Width (ft): 35.00  
 True Area (sf): 59,084.00

| Work Date  | Work Code | Work Description              | Cost   | Thickness (in) | Major MR | Comments |
|------------|-----------|-------------------------------|--------|----------------|----------|----------|
| 08-16-2009 | JS-LC     | Joint Seal (Localized)        | \$0.00 | 0.00           | False    | -        |
| 06-01-2001 | CR-PC     | Complete Reconstruction - PCC | \$0.00 | 0.00           | True     | -        |
| 06-30-1992 | NC-PC     | New Construction - PCC        | \$0.00 | 0.00           | True     | -        |

## Branch - Section ID: TCSP - 002

LCD: 6/1/2002  
 Use: TAXIWAY  
 Rank: P  
 Surface: PCC

Length (ft): 1,600.00  
 Width (ft): 35.00  
 True Area (sf): 60,191.00

| Work Date  | Work Code | Work Description              | Cost   | Thickness (in) | Major MR | Comments |
|------------|-----------|-------------------------------|--------|----------------|----------|----------|
| 06-01-2022 | SL-PC     | Slab Replacement - PCC        | \$0.00 | 0.00           | False    | est      |
| 08-16-2009 | JS-LC     | Joint Seal (Localized)        | \$0.00 | 0.00           | False    | -        |
| 06-01-2002 | CR-PC     | Complete Reconstruction - PCC | \$0.00 | 0.00           | True     | -        |
| 06-30-1992 | NC-PC     | New Construction - PCC        | \$0.00 | 0.00           | True     | -        |

# WORK HISTORY

Pavement Database: IA 2022

Generate Date: 6/25/2023

Network ID: SPW

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## Branch - Section ID: TCSP - 003

LCD: 6/1/2002  
 Use: TAXIWAY  
 Rank: P  
 Surface: PCC

Length (ft): 1,370.00  
 Width (ft): 35.00  
 True Area (sf): 49,617.00

| Work Date  | Work Code | Work Description              | Cost   | Thickness (in) | Major MR | Comments         |
|------------|-----------|-------------------------------|--------|----------------|----------|------------------|
| 08-16-2009 | JS-LC     | Joint Seal (Localized)        | \$0.00 | 0.00           | False    | -                |
| 06-01-2002 | CR-PC     | Complete Reconstruction - PCC | \$0.00 | 0.00           | True     | -                |
| 06-02-1991 | NC-PC     | New Construction - PCC        | \$0.00 | 6.00           | True     | 6" P-501 PCC     |
| 06-01-1991 | SB-AG     | Subbase - Aggregate           | \$0.00 | 6.00           | False    | 6" P-154 Subbase |

## Branch - Section ID: TDSP - 001

LCD: 6/1/2003  
 Use: TAXIWAY  
 Rank: P  
 Surface: PCC

Length (ft): 1,825.00  
 Width (ft): 35.00  
 True Area (sf): 68,386.00

| Work Date  | Work Code | Work Description              | Cost   | Thickness (in) | Major MR | Comments         |
|------------|-----------|-------------------------------|--------|----------------|----------|------------------|
| 06-01-2003 | CR-PC     | Complete Reconstruction - PCC | \$0.00 | 0.00           | True     | -                |
| 01-02-1994 | NC-PC     | New Construction - PCC        | \$0.00 | 6.00           | True     | 6" PCC           |
| 01-01-1994 | BA-AG     | Base Course - Aggregate       | \$0.00 | 6.00           | False    | 6" Granular Base |

## Branch - Section ID: TESP - 001

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

Length (ft): 1,300.00  
 Width (ft): 35.00  
 True Area (sf): 47,529.00

| Work Date  | Work Code | Work Description              | Cost   | Thickness (in) | Major MR | Comments         |
|------------|-----------|-------------------------------|--------|----------------|----------|------------------|
| 06-01-2001 | CR-PC     | Complete Reconstruction - PCC | \$0.00 | 0.00           | True     | -                |
| 01-02-1994 | NC-PC     | New Construction - PCC        | \$0.00 | 6.00           | True     | 6" PCC           |
| 01-01-1994 | BA-AG     | Base Course - Aggregate       | \$0.00 | 6.00           | False    | 6" Granular Base |

## Branch - Section ID: TH01SP - 001

LCD: 6/1/2013  
 Use: T-HANGAR  
 Rank: P  
 Surface: PCC

Length (ft): 200.00  
 Width (ft): 25.00  
 True Area (sf): 5,445.00

| Work Date  | Work Code | Work Description              | Cost   | Thickness (in) | Major MR | Comments |
|------------|-----------|-------------------------------|--------|----------------|----------|----------|
| 06-01-2013 | CR-PC     | Complete Reconstruction - PCC | \$0.00 | 0.00           | True     | EST      |

## Branch - Section ID: TH01SP - 002

LCD: 6/1/2001  
 Use: T-HANGAR  
 Rank: P  
 Surface: PCC

Length (ft): 410.00  
 Width (ft): 25.00  
 True Area (sf): 10,689.00

| Work Date  | Work Code | Work Description           | Cost   | Thickness (in) | Major MR | Comments                                      |
|------------|-----------|----------------------------|--------|----------------|----------|---|
| 06-01-2001 | NU-IN     | New Construction - Initial | \$0.00 | 0.00           | True     | EST, BETWEEN 1991 AND 2004, SIMILAR TO A01-04 |

# WORK HISTORY

Pavement Database: IA 2022

Generate Date: 6/25/2023

Network ID: SPW

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## Branch - Section ID: TH01SP - 003

LCD: 6/1/2002  
Use: T-HANGAR  
Rank: P  
Surface: PCC

Length (ft): 510.00  
Width (ft): 25.00  
True Area (sf): 12,161.00

| Work Date  | Work Code | Work Description       | Cost   | Thickness (in) | Major MR | Comments         |
|------------|-----------|------------------------|--------|----------------|----------|------------------|
| 06-01-2002 | SB-AG     | Subbase - Aggregate    | \$0.00 | 6.00           | False    | 6" P-154 Subbase |
| 06-01-2002 | NC-PC     | New Construction - PCC | \$0.00 | 6.00           | True     | 6" P-501 PCC     |

## Branch - Section ID: TH01SP - 004

LCD: 1/1/2006  
Use: T-HANGAR  
Rank: P  
Surface: PCC

Length (ft): 809.00  
Width (ft): 28.00  
True Area (sf): 25,611.00

| Work Date  | Work Code | Work Description           | Cost   | Thickness (in) | Major MR | Comments |
|------------|-----------|----------------------------|--------|----------------|----------|----------|
| 01-01-2006 | NU-IN     | New Construction - Initial | \$0.00 | 0.00           | True     | EST      |

## **APPENDIX E**

### **LOCALIZED PREVENTIVE MAINTENANCE POLICIES AND UNIT COST TABLES**

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

| <b>Distress Type</b>      | <b>Severity Level</b> | <b>Maintenance Action</b> |
|---------------------------|-----------------------|---------------------------|
| 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.

| <b>Distress Type</b>        | <b>Severity Level</b> | <b>Maintenance Action</b> |
|-----------------------------|-----------------------|---------------------------|
| 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. 2023 unit costs for localized preventive maintenance actions.

| Maintenance Action                      | Unit Cost  |
|---|------------|
| Asphalt Patch—Asphalt-Surfaced Pavement | \$15.24/sf |
| Crack Sealing—Asphalt-Surfaced Pavement | \$2.61/lf  |
| Partial Depth PCC Patch—PCC Pavement    | \$39.04/sf |
| Full Depth PCC Patch—PCC Pavement       | \$17.43/sf |
| Crack Sealing—PCC Pavement              | \$3.14/lf  |
| Joint Sealing—PCC Pavement              | \$3.14/lf  |
| Grinding—PCC Pavement                   | \$0.37/sf  |
| Slab Replacement—PCC Pavement           | \$17.43/sf |

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

Table E-4. 2023 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 |
|---------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| AC            | \$10.82        | \$5.12          | \$5.12          | \$5.12          | \$0.00          | \$0.00          | \$0.00           |
| PCC           | \$18.08        | \$8.55          | \$8.55          | \$8.55          | \$0.00          | \$0.00          | \$0.00           |

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

## **APPENDIX F**

# **YEAR 2023 LOCALIZED PREVENTIVE MAINTENANCE DETAILS**

Table F-1. Year 2023 localized preventive maintenance details.

| Branch | Section | Distress Type     | Severity | Distress Quantity | Distress Unit | Maintenance Action           | Unit Cost | 2023 Estimated Cost |
|--------|---------|-------------------|----------|-------------------|---------------|------------------------------|-----------|---------------------|
| A01SP  | 01      | Corner Spalling   | Medium   | 4                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$368               |
| A01SP  | 01      | Joint Seal Damage | Medium   | 105               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$6,645             |
| A01SP  | 01      | Joint Seal Damage | High     | 35                | Slabs         | Joint Seal (Localized)       | \$3.14    | \$2,215             |
| A01SP  | 01      | Joint Spalling    | Medium   | 2                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$441               |
| A01SP  | 02      | Corner Break      | Low      | 5                 | Slabs         | Crack Sealing - PCC          | \$3.14    | \$121               |
| A01SP  | 02      | Corner Break      | Medium   | 7                 | Slabs         | Patching - PCC Full Depth    | \$17.43   | \$3,976             |
| A01SP  | 02      | Corner Spalling   | Medium   | 7                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$742               |
| A01SP  | 02      | Joint Seal Damage | Medium   | 108               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$7,010             |
| A01SP  | 02      | Joint Seal Damage | High     | 257               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$16,612            |
| A01SP  | 02      | Joint Spalling    | Medium   | 12                | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$2,969             |
| A01SP  | 02      | LTD Cracking      | Medium   | 9                 | Slabs         | Crack Sealing - PCC          | \$3.14    | \$345               |
| A01SP  | 03      | Joint Seal Damage | Medium   | 162               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$11,556            |
| A01SP  | 03      | Joint Seal Damage | High     | 243               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$17,334            |
| A01SP  | 03      | Joint Spalling    | Medium   | 8                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$2,042             |
| A01SP  | 04      | Corner Spalling   | Medium   | 5                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$532               |
| A01SP  | 04      | Joint Seal Damage | Medium   | 189               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$12,601            |
| A01SP  | 04      | Joint Spalling    | Medium   | 2                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$425               |
| A01SP  | 04      | LTD Cracking      | Medium   | 3                 | Slabs         | Crack Sealing - PCC          | \$3.14    | \$123               |
| A01SP  | 05      | Corner Break      | Low      | 4                 | Slabs         | Crack Sealing - PCC          | \$3.14    | \$106               |
| A01SP  | 05      | Corner Spalling   | Medium   | 3                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$288               |
| A01SP  | 05      | Joint Seal Damage | Medium   | 111               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$6,294             |
| A01SP  | 05      | Small Patch       | Medium   | 1                 | Slabs         | Patching - PCC Full Depth    | \$17.43   | \$64                |

Table F-1. Year 2023 localized preventive maintenance details (continued).

| Branch | Section | Distress Type     | Severity | Distress Quantity | Distress Unit | Maintenance Action           | Unit Cost | 2023 Estimated Cost |
|--------|---------|-------------------|----------|-------------------|---------------|------------------------------|-----------|---------------------|
| A01SP  | 07      | Joint Seal Damage | Medium   | 31                | Slabs         | Joint Seal (Localized)       | \$3.14    | \$1,995             |
| R12SP  | 01      | Corner Break      | Low      | 20                | Slabs         | Crack Sealing - PCC          | \$3.14    | \$503               |
| R12SP  | 01      | Corner Spalling   | Medium   | 10                | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$1,025             |
| R12SP  | 01      | Joint Spalling    | Medium   | 10                | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$2,460             |
| R18SP  | 01      | Corner Spalling   | Medium   | 9                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$953               |
| R18SP  | 01      | Joint Spalling    | Medium   | 9                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$2,288             |
| TASP   | 01      | Corner Break      | Low      | 1                 | Slabs         | Crack Sealing - PCC          | \$3.14    | \$26                |
| TASP   | 01      | Corner Spalling   | Medium   | 5                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$487               |
| TASP   | 01      | Joint Seal Damage | Medium   | 564               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$30,061            |
| TASP   | 02      | Corner Break      | High     | 2                 | Slabs         | Patching - PCC Full Depth    | \$17.43   | \$1,126             |
| TASP   | 02      | Joint Seal Damage | Medium   | 213               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$13,387            |
| TASP   | 02      | Joint Seal Damage | High     | 63                | Slabs         | Joint Seal (Localized)       | \$3.14    | \$3,955             |
| TB1SP  | 01      | Joint Seal Damage | High     | 132               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$6,917             |
| TBSP   | 01      | Joint Seal Damage | Medium   | 432               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$23,059            |
| TBSP   | 01      | Joint Seal Damage | High     | 259               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$13,836            |
| TC1SP  | 01      | Joint Seal Damage | Medium   | 120               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$6,100             |
| TC2SP  | 01      | Joint Seal Damage | Medium   | 162               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$8,149             |
| TC2SP  | 01      | Joint Spalling    | Medium   | 2                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$408               |
| TCSP   | 01      | Corner Break      | Medium   | 4                 | Slabs         | Patching - PCC Full Depth    | \$17.43   | \$2,276             |
| TCSP   | 01      | Corner Spalling   | Medium   | 4                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$425               |
| TCSP   | 01      | Joint Seal Damage | Medium   | 566               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$28,799            |
| TCSP   | 01      | Joint Seal Damage | High     | 93                | Slabs         | Joint Seal (Localized)       | \$3.14    | \$4,731             |

Table F-1. Year 2023 localized preventive maintenance details (continued).

| Branch | Section | Distress Type     | Severity | Distress Quantity | Distress Unit | Maintenance Action           | Unit Cost | 2023 Estimated Cost |
|--------|---------|-------------------|----------|-------------------|---------------|------------------------------|-----------|---------------------|
| TCSP   | 01      | LTD Cracking      | Medium   | 12                | Slabs         | Crack Sealing - PCC          | \$3.14    | \$358               |
| TCSP   | 02      | Joint Seal Damage | Medium   | 622               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$33,141            |
| TCSP   | 02      | LTD Cracking      | Medium   | 19                | Slabs         | Crack Sealing - PCC          | \$3.14    | \$604               |
| TCSP   | 03      | Joint Seal Damage | Medium   | 476               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$24,243            |
| TCSP   | 03      | Joint Spalling    | Medium   | 4                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$984               |
| TDSP   | 01      | Corner Break      | Medium   | 3                 | Slabs         | Patching - PCC Full Depth    | \$17.43   | \$1,631             |
| TDSP   | 01      | Corner Spalling   | Medium   | 6                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$609               |
| TDSP   | 01      | Joint Seal Damage | Medium   | 455               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$28,488            |
| TDSP   | 01      | Joint Spalling    | Medium   | 9                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$2,192             |
| TDSP   | 01      | LTD Cracking      | Medium   | 3                 | Slabs         | Crack Sealing - PCC          | \$3.14    | \$110               |
| TESP   | 01      | Joint Seal Damage | Medium   | 236               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$14,726            |
| TESP   | 01      | Joint Seal Damage | High     | 89                | Slabs         | Joint Seal (Localized)       | \$3.14    | \$5,590             |
| TH01SP | 02      | Corner Spalling   | Medium   | 1                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$141               |
| TH01SP | 02      | Joint Seal Damage | Medium   | 65                | Slabs         | Joint Seal (Localized)       | \$3.14    | \$2,988             |
| TH01SP | 02      | Joint Seal Damage | High     | 65                | Slabs         | Joint Seal (Localized)       | \$3.14    | \$2,988             |
| TH01SP | 03      | Corner Spalling   | Medium   | 3                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$312               |
| TH01SP | 03      | Joint Seal Damage | Medium   | 147               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$6,817             |
| TH01SP | 04      | Corner Spalling   | Medium   | 3                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$353               |
| TH01SP | 04      | Joint Seal Damage | Medium   | 104               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$5,734             |
| TH01SP | 04      | Joint Seal Damage | High     | 106               | Slabs         | Joint Seal (Localized)       | \$3.14    | \$5,826             |
| TH01SP | 04      | Joint Spalling    | Medium   | 2                 | Slabs         | Patching - PCC Partial Depth | \$39.04   | \$424               |

Table F-1. Year 2023 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 D5340-20. 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 adjustment to reflect specific conditions at Spencer Municipal Airport.



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