Maine Department of Transportation



Pavement Condition Report

AUGUSTA STATE AIRPORT (KAUG)





Submitted To: Maine Department of Transportation 16 State House Station Augusta, ME 04333



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Executive Summary

Background

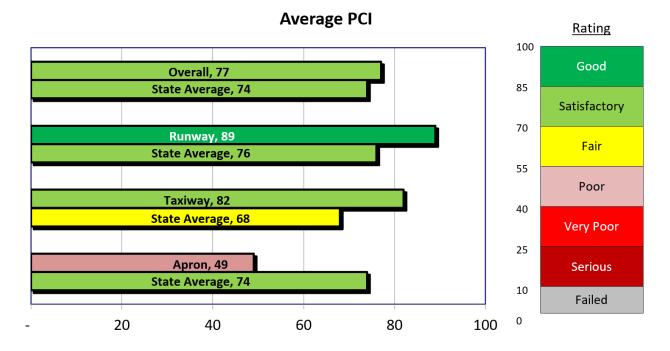
To assist individual airports to effectively maintain their pavement infrastructure and help improve airport pavement conditions statewide, the Maine Department of Transportation (MaineDOT) contracted with DuBois & King, Inc. (D&K) to provide pavement evaluation surveys at local airports. Assisting D&K on this effort was Applied Research Associates, Inc. (ARA). This report documents the pavement condition at Augusta State Airport (AUG) in October 2018.

A primary objective of the pavement management program is to determine maintenance and rehabilitation needs by comparing pavement condition to a standardized benchmark called the minimum service level (MSL), defined by MaineDOT as the minimum pavement condition desirable in managing Maine airfield pavements. The benchmark MSL values used to trigger rehabilitation are shown below.

| Runway | Taxiway | Apron |
|--------|---------|-------|
| 70 | 70 | 70 |

Pavement Condition

The average inspected Pavement Condition Index (PCI) for all the airfield pavements at AUG was 77. Runways had an average inspected PCI of 89, which is above the MSL of 70. Taxiways had an average inspected PCI of 82, and aprons had an average inspected PCI of 49. A comparison of the average PCI values at AUG to the statewide average PCI values, by branch use, is shown in the figure below.





Capital Improvement Program

The table below provides a summary of the projected funds needed to perform major rehabilitation on all pavement sections forecasted to fall below the MSL within the next 5 years. Ten sections were identified for major rehabilitation based on their PCI rating. If no action is taken, the overall PCI is projected to drop from 78 to 70 by 2023.

| Project Year | Calendar Year | Amount | PCI Before | PCI After |
|--------------|---------------|-------------|------------|-----------|
| Year 1 | 2019 | \$0 | 76 | 76 |
| Year 2 | 2020 | \$9,233,920 | 74 | 96 |
| Year 3 | 2021 | \$0 | 94 | 94 |
| Year 4 | 2022 | \$0 | 93 | 93 |
| Year 5 | 2023 | \$0 | 91 | 91 |
| | 5-Year Total | \$9,233,920 | | |

Maintenance

Based on the pavement distress documented during the survey, an analysis of potential maintenance projects identified needs of approximately \$731,000. The estimated quantity and cost for each type of maintenance action is shown in the table below. The decision matrix and unit costs upon which these estimates are based are described in section 3 and appendix E of this report.

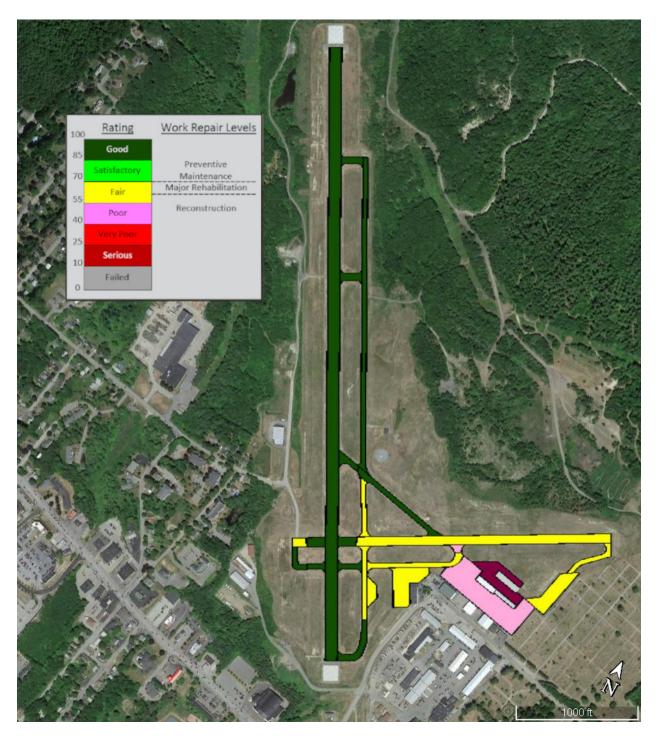
Ongoing development of capital improvement projects may address some of these maintenance needs. To help budgeting and prevent duplication of effort, all pavement features recommended for maintenance should be compared to planned improvements prior to finalizing a maintenance program strategy.

Specific recommendations to help prioritize airfield maintenance are found in chapter 3 of this report. The table below further summarizes the identified maintenance needs.

| Work Item | Quantity | Quantity Unit | |
|-----------------------|--------------------|---------------|-----------|
| Crack Sealing - AC | 22,773 | Ft | \$31,427 |
| Patching - AC Deep | 37,404 | SqFt | \$694,972 |
| Patching - AC Shallow | 28 | SqFt | \$468 |
| Surface Seal | 7,438 | SqFt | \$4,537 |
| | Crack Sealing - AC | | \$731,404 |

AC = asphalt concrete; PCC = portland cement concrete; SqFt. = square feet; Ft = linear feet







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Abbreviations and Acronyms

| AAC | Asphalt Overlaid with Asphalt |
|----------|--|
| AC | Asphalt Concrete |
| APC | PCC Overlaid with Asphalt |
| APMS | Airport Pavement Management System |
| ARA | Applied Research Associates, Inc. |
| ASTM | American Society for Testing and Materials |
| AUG | Augusta State Airport |
| CAD | Computer-aided Drafting |
| CIP | Capital Improvement Plan |
| D&K | Dubois & King, Inc. |
| FAA | Federal Aviation Administration |
| FOD | Foreign Object Debris |
| GIS | Geographic Information System |
| L&T | Longitudinal & Transverse Cracking |
| LCD | Last Construction Date |
| M&R | Maintenance and Rehabilitation |
| MaineDOT | Maine Department of Transportation |
| MSL | Minimum Service Level |
| PCC | Portland Cement Concrete |
| PCI | Pavement Condition Index |
| | |



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1. Introduction

Pavement conditions were assessed using the Pavement Condition Index (PCI) procedure outlined in Federal Aviation Administration (FAA) Advisory Circular 150/5380 and ASTM D5340 for airfield pavements. The PCI was developed to provide a numerical value representing the overall pavement condition that correlates well with the ratings of experienced engineers. During a PCI survey, visible signs of deterioration within a selected sample unit are recorded and analyzed. The recorded distress data are used to calculate a PCI value from 0 to 100, with 100 representing a pavement in excellent condition. The PCI evaluation makes it possible to forecast future deterioration and allows for accurate projections of maintenance and rehabilitation (M&R) needs.

The data collected during this project were entered into the PAVER pavement management software program developed by the U.S. Army Corps of Engineers, Construction Engineering Research Laboratory. The capabilities of PAVER were utilized to meet the following project objectives:

- Update and store pavement inventory and condition data.
- Develop models to predict future conditions.
- Develop M&R recommendations.
- Plan budgets for future M&R needs.
- Report the results at the individual airport and statewide level.

1.1 Project Background

The 36 publicly owned airports throughout Maine play a key role in the movement of goods and services, with an estimated overall economic impact of \$1.5 billion. MaineDOT realizes the value in maintaining the paved facilities by implementing and updating an airport pavement management system (APMS). An APMS provides guidance for decisions regarding pavement M&R policies at an airport and can identify short-, medium-, and long-term rehabilitation needs, as well as provide an accessible historical record of life-extending pavement maintenance activities.

1.2 Pavement Management Approach

The main goal of any pavement management system is to identify pavements that will receive the most benefit from an optimally timed repair. By projecting the rate at which the pavement condition will deteriorate, the optimal time for applying treatments can be determined. Typically, the optimal repair time is the point at which a gradual rate of deterioration begins to increase to a much faster rate, as illustrated in Figure 1. It is critical to identify this point in time to avoid higher rehabilitation costs caused by excess deterioration.



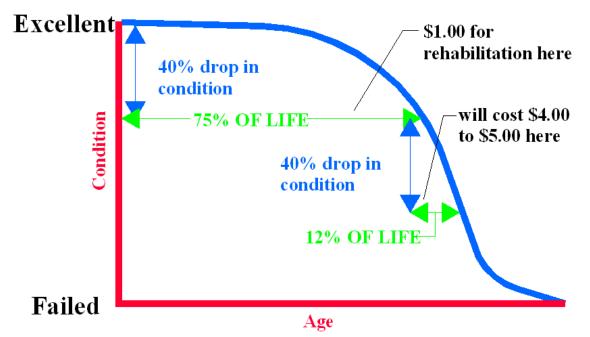


Figure 1. Pavement condition life cycle.

Often, the identified needs will cost more than the available budget and will need to be prioritized over time. The APMS can measure the impact of a limited budget scenario by projecting the future condition of deferred projects. Ultimately, the APMS will provide MaineDOT and the airport a planning tool that can help identify pavement needs, optimize the selection of projects and treatments over a multi-year period, and understand the consequences of these plans.

1.3 Scope of Work

MaineDOT retained D&K/ARA to implement the APMS for the Maine publicly owned general aviation airports. A PCI survey was completed at each airport, and available construction history information was compiled and included in the PAVER database and subsequent analysis. D&K and MaineDOT coordinated the PCI inspections with each airport. After the fieldwork was completed, ARA updated the PAVER database for each airport. PAVER was then used to develop a maintenance work plan based on current distresses. In addition, a 5-year projection identifying recommended pavement repairs was prepared at the state level for the various stakeholders to use as a planning tool. Individual reports, such as this one, were prepared for each airport documenting the results of the pavement inspections. A statewide analysis report was prepared based on that inspection year's airports. The airport maps were linked to the PAVER database to allow for geographic information system (GIS) viewing of data.



2. Project Approach

2.1 Update Pavement Inventory

The pavement inventory at AUG includes all airfield pavements intended for aviation-related traffic. The main objective in updating the pavement inventory was to determine the year of construction (or most recent overlay), the limits of the project, and the surface type for each pavement area based on construction history. When available, MaineDOT provided access to this information from their historical records. This information was used to update the pavement section definitions on the computer-aided drafting (CAD) map and in the PAVER database based on project limits, surface type, layer properties, traffic patterns, and overall condition.

2.1.1 Pavement Network Definition

The construction history information was used to divide the pavement network at AUG into management units—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). On an airfield, a branch typically represents an entire runway, taxiway, or apron.

Because of the disparity of characteristics that can occur throughout a branch, it is further subdivided into units called sections. A section is a portion of the pavement that has uniform construction history, pavement structure, traffic patterns, and condition throughout its entire length or area. Sections are used as a management unit for the selection of potential M&R projects. The guideline for determining section breaks is to consider the section as a "repair unit"—a portion of the pavement that will be managed independently and evaluated separately for pavement maintenance and rehabilitation.

Pavement sections are further subdivided into sample units for inspection purposes. The typical sample unit size for asphalt concrete (AC) pavements is 5,000 square feet \pm 2,000 square feet, and the typical sample unit size for portland cement concrete (PCC) pavements is 20 slabs \pm 8 slabs. A statistical based sampling rate described in ASTM D5340 was used to determine the number of sample units to inspect for each section. The inspected sample units were representative of the overall condition within a section and were used to extrapolate the condition as a whole.

2.1.2 Naming Scheme

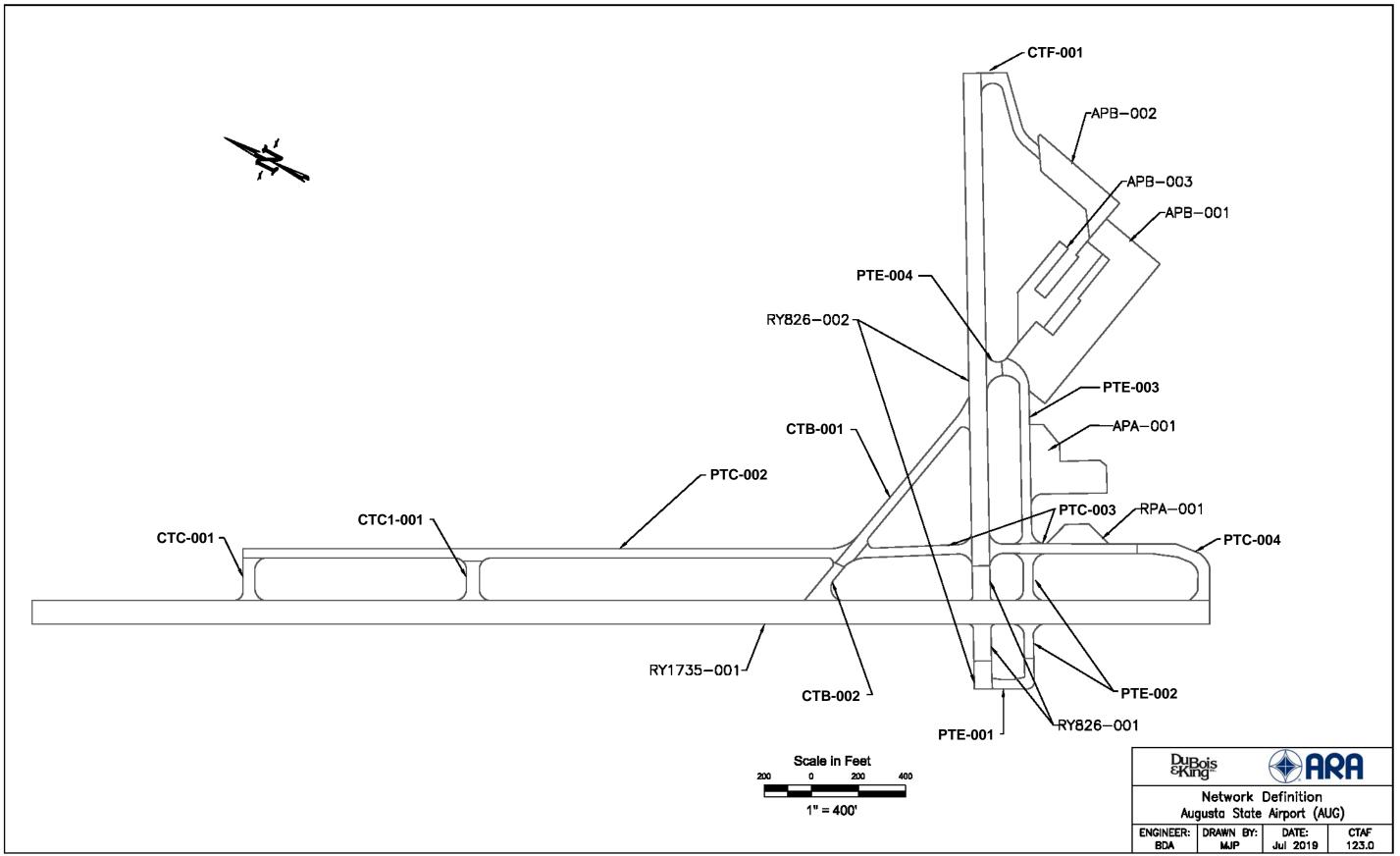
For the pavement management system to work efficiently, some unique identifiers were added to the database. The branch names assigned were designed to assist in identification of the pavement area. The first characters are used to identify the pavement use—apron, runway, taxiway, or taxilane (pavement in and around hangar areas). The next character is a number or letter used to further identify the pavement branch (such as RY826 for Runway 8-26 or APA for Apron A). The sections for each branch are assigned a sequential number (001, 002, and so on). Table 1 presents the branches defined for AUG and their corresponding areas.



| Branch ID | Name | Number of Sections | Area (SF) |
|-----------|-----------------------|--------------------|-----------|
| APA | Apron A | 1 | 61,800 |
| APB | Apron B | 3 | 265,850 |
| CTF | Connecting Taxiway F | 1 | 18,950 |
| СТВ | Connecting Taxiway B | 2 | 47,100 |
| CTC1 | Connecting Taxiway C1 | 1 | 12,050 |
| CTC | Connecting Taxiway C | 1 | 10,400 |
| PTC | Parallel Taxiway C | 3 | 154,300 |
| PTE | Parallel Taxiway E | 4 | 69,350 |
| RPA | Run Up Area | 1 | 15,200 |
| RY1735 | Runway 17-35 | 1 | 500,350 |
| RY826 | Runway 8-26 | 2 | 189,050 |
| | Airport Total | | 1,344,400 |

Table 1. Branch definition.

Figure 2 presents the network definition for AUG and represents the pavements included in the APMS. Some privately built/maintained pavements and "driveways" leading into hangars may not be included within this report nor represented on Figure 2 because they are considered outside the scope of work.





2.2 Pavement Evaluation

The pavement surfaces at AUG were visually inspected on October 30, 2018 using the PCI procedure. During a PCI inspection, inspectors walk over the surface of the pavement and identify visible signs of distress within a sample unit. Appendix A presents the scalable map used during the inspection to locate the inspected sample units. Each distress type was identified, then classified as low, medium, or high severity, and recorded on field sheets. In general, the higher the severity, the higher the foreign object damage (FOD) potential. The quantity, or extent, is measured for each distress/severity combination.

After collecting and summarizing the distress type, severity, and quantity for each of the inspected sample units, the distress data were entered into the PAVER database and a PCI was calculated. The PCI procedure uses established deduct curves to determine the number of points to deduct for each distress type/severity combination, depending on the density of the distress. The inspected sample unit PCIs were then averaged to determine an overall PCI for that section.

The PCI value provides a general sense as to the level of rehabilitation that will be needed to repair a given pavement. In general terms, maintenance activities such as crack sealing and patching often provide benefit when the PCI is above 70. However, as the pavement continues to deteriorate, more complex and expensive treatments will be necessary. Pavements with a PCI between 60 and 70 are good candidates for a mill and inlay or overlay. Once the PCI drops below 60, MaineDOT typically programs reconstruction as the preferred rehabilitation alternative. Figure 3 presents the PCI inputs, rating scale, and corresponding general work repair levels.

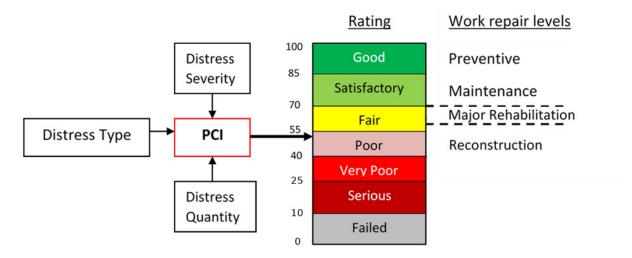


Figure 3. PCI rating scale and repair levels.



2.2.1 Distress Types

To better understand the cause of pavement deterioration, it is necessary to look at the distress types associated with each PCI. Each distress type has been classified into one of three groups based on cause—load, climate/durability, or other. Load-related distresses such as alligator cracking in asphalt pavements, or corner breaks in PCC pavements, indicate that the structural integrity of the pavement has been compromised. Climate-related distresses indicate that the pavement has aged due to seasonal environmental effects. Distresses that cannot be attributed solely to either load or climate are classified as other. Table 2 shows distress types for both asphalt and concrete surfaced pavements in the PCI procedure and their classification. The table also identifies which distresses were observed at AUG during the pavement inspection.

| Asphalt Distresses | Cause Classification | Concrete Distresses | Cause Classification |
|---------------------------|-------------------------|------------------------|-------------------------|
| *Alligator cracking | *Load | Blowup | Climate |
| Bleeding | Other | Corner break | Load |
| *Block cracking | *Climate | Linear cracking | Load |
| Corrugation | Other | Durability cracking | Climate |
| *Depression | *Other | Joint seal damage | Climate |
| Jet blast | Other | Small patch | Other |
| Joint reflection cracking | Climate | Large patch | Other |
| *L&T cracking | *Climate | Popouts | Other |
| *Oil spillage | *Other | Pumping | Other |
| *Patching | *Other | Scaling/crazing | Other |
| Polished aggregate | Other | Faulting | Other |
| Raveling | Climate | Shattered slab | Load |
| *Rutting | *Load | Shrinkage cracking | Other |
| Shoving | Other | Joint spalling | Other |
| Slippage cracking | Other | Corner spalling | Other |
| *Swelling | *Other | Alkali silica reaction | Climate |
| *Weathering | *Climate | | |

| Table 2. | PCI | distress | types. |
|----------|-----|----------|--------|
|----------|-----|----------|--------|

* Indicates distresses found at AUG



2.3 PCI Results

The results of the 2018 PCI inspection are presented in Table 3 and Figure 7. The overall area-weighted PCI for AUG is 78. When summarizing PCI values, an area-weighted calculation is used instead of a straight mathematical average because the area-weighted calculations eliminate the skewing of the PCI due to disparities between section sizes.

Figure 4 and Figure 5 present the overall PCI for AUG by area distribution and pavement use, respectively. Table 3 presents the PCI summary for each section at AUG, including the drop in PCI per year. Generally, pavement sections will deteriorate between 1 and 3 PCI points per year. Sections deteriorating at higher rates may need maintenance above the normal application rates and should be closely monitored in case major repairs become necessary earlier than expected.

Appendix B provides a graphical illustration of the projected PCI for each pavement section along with additional summary data including various repair alternatives. Appendix C contains the detailed inspection report with sample unit data produced from PAVER. Appendix D describes the distress types most commonly identified during the PCI inspections of Maine airports.

| Bronch ID | Branch ID Section ID Surface Section LCD ² | | 2018 | Drop in | % Deduct due to | | | |
|-----------|---|--------------------------|-----------|---------|-----------------|---------------------|------|---------|
| Branch ID | Section ID | Type ¹ | Area (SF) | LCD | PCI | PCI/Yr ³ | Load | Climate |
| APA | 001 | AC | 61,800 | 1993 | 58 | 1.7 | 13 | 84 |
| APB | 001 | AC | 159,250 | 1975 | 54 | 1.1 | 11 | 89 |
| APB | 002 | AC | 49,750 | 1975 | 63 | 0.9 | 28 | 69 |
| APB | 003 | AC | 56,850 | 1986 | 12 | 2.8 | 79 | 21 |
| CTF | 001 | AC | 18,950 | 2011 | 66 | 4.9 ⁴ | 0 | 100 |
| СТВ | 001 | AC | 33,800 | 2011 | 88 | 1.7 | 0 | 100 |
| СТВ | 002 | AC | 13,300 | 2012 | 97 | 0.5 | 0 | 100 |
| CTC1 | 001 | AC | 12,050 | 2011 | 94 | 0.9 | 0 | 100 |
| СТС | 001 | AC | 10,400 | 2011 | 98 | 0.3 | 0 | 100 |
| PTC | 001 | AC | 104,650 | 1993 | 90 | 0.4 | 0 | 100 |
| PTC | 002 | AC | 27,250 | 1993 | 59 | 1.6 | 0 | 100 |
| PTC | 003 | AC | 22,400 | 2011 | 97 | 0.4 | 0 | 100 |
| PTE | 001 | AC | 10,900 | 2018 | 100 | - | 0 | 100 |
| PTE | 002 | AC | 17,550 | 2011 | 100 | - | 0 | 100 |
| PTE | 003 | AC | 35,550 | 2002 | 56 | 2.8 | 14 | 86 |
| PTE | 004 | AC | 5,350 | 2002 | 53 | 2.9 | 0 | 100 |
| RPA | 001 | AC | 15,200 | 1993 | 57 | 1.7 | 0 | 100 |
| RY1735 | 001 | AC | 500,350 | 2011 | 96 | 0.6 | 0 | 100 |
| RY826 | 001 | AC | 23,650 | 2011 | 97 | 0.4 | 0 | 100 |
| RY826 | 002 | AC | 165,400 | 2002 | 66 | 2.1 | 18 | 82 |

Table 3. PCI section summary table.

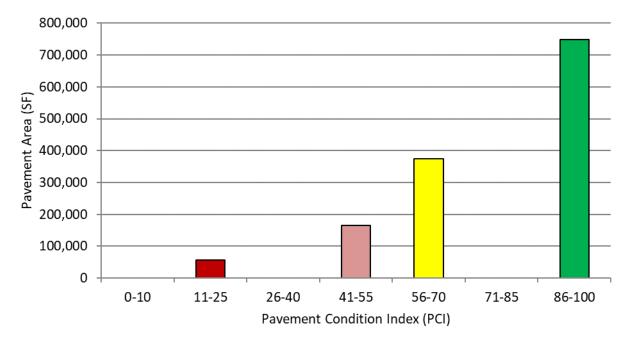
¹ AC = asphalt cement; AAC = asphalt overlaid with asphalt; PCC = portland cement concrete; APC = PCC overlaid with asphalt

² LCD = last construction date (original construction, last overlay, or reconstruction [whichever is most recent])

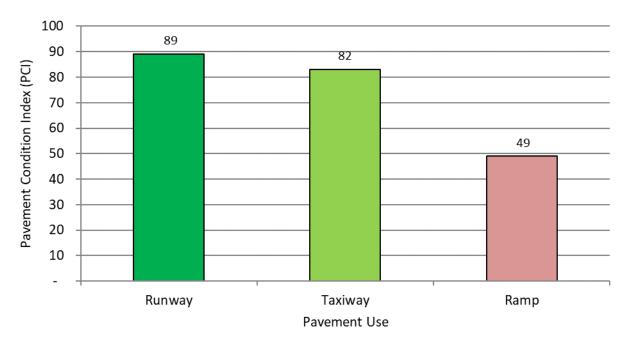
³ Drop in PCI/Yr = (100 - PCI)/age where age = 2018 - LCD

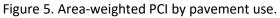
⁴ The higher than average deterioration rate of 4.9 PCI/Yr for CTC-001 is due to a significant amount of L&T cracking on a relatively new pavement.













2.4 Projected PCI

After the 2018 distress data were entered into PAVER and the PCI determined, a modeling approach was used to predict future PCI levels based on historical PCI data from MaineDOT' s airports. Pavements were grouped together in performance families based on similar construction, traffic, pavement use, and other factors affecting pavement performance. These performance models predict future PCI, not future distresses.

Figure 6 shows the projected PCI at AUG by percent area for the next 5 years assuming no maintenance or major repairs (overlays, reconstruction, etc.) are performed during that period. It shows how quickly the pavement network will deteriorate if no capital improvements are made. The corresponding projected PCI values for each pavement section are shown in Table 4.

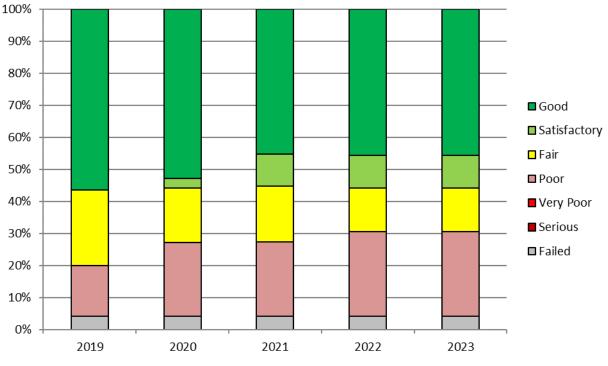


Figure 6. Projected PCI by percent area.



| Branch ID | Section ID | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------|---------------|------|------|------|------|------|
| APA | 001 | 56 | 54 | 52 | 50 | 48 |
| APB | 001 | 52 | 50 | 48 | 46 | 44 |
| APB | 002 | 61 | 59 | 57 | 55 | 53 |
| APB | 003 | 10 | 8 | 5 | 3 | 1 |
| CTF | 001 | 64 | 62 | 61 | 59 | 57 |
| CTB | 001 | 87 | 85 | 83 | 82 | 80 |
| CTB | 002 | 96 | 94 | 93 | 91 | 90 |
| CTC1 | 001 | 93 | 91 | 90 | 88 | 86 |
| CTC | 001 | 97 | 95 | 94 | 92 | 91 |
| PTC | 001 | 89 | 87 | 85 | 84 | 82 |
| PTC | 002 | 57 | 55 | 53 | 51 | 50 |
| PTC | 003 | 96 | 94 | 93 | 91 | 90 |
| PTE | 001 | 99 | 97 | 96 | 94 | 93 |
| PTE | 002 | 99 | 97 | 96 | 94 | 93 |
| PTE | 003 | 54 | 52 | 50 | 48 | 46 |
| PTE | 004 | 51 | 49 | 47 | 45 | 43 |
| RPA | 001 | 55 | 53 | 51 | 49 | 47 |
| RY1735 | 001 | 95 | 93 | 92 | 90 | 89 |
| RY826 | 001 | 96 | 94 | 93 | 91 | 90 |
| RY826 | 002 | 64 | 62 | 61 | 59 | 57 |

Table 4. Projected PCI by section (no M&R).

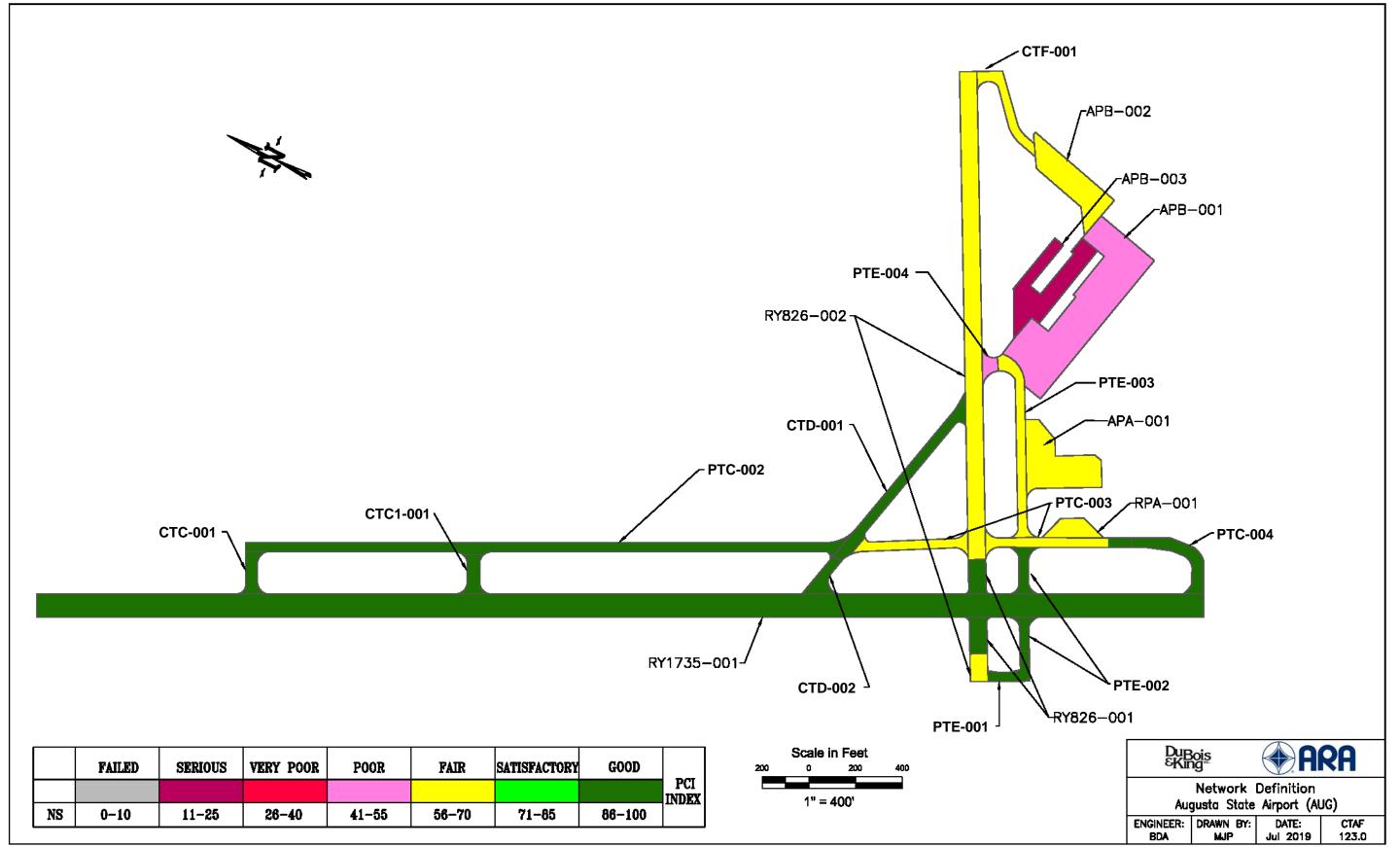


Figure 7. 2018 PCI Map at Augusta State Airport (AUG)



3. Maintenance and Rehabilitation Needs

A 5-year M&R program was developed for AUG based on the 2018 pavement inspections and the projected PCI deterioration. The recommendations are divided into two categories—near term maintenance (local M&R) and major rehabilitation (major M&R). The near term maintenance is intended to address annual maintenance needs such as crack sealing and localized patching. The major rehabilitation treatments are applied globally and are capable of returning the pavement to a nearly distress-free state. Costs for both categories were developed based on recent bid tabs and are intended to represent typical unit costs in Maine. While these cost estimates provide a useful network-level planning tool, they are not meant to represent an engineer's estimate for any particular project. Project-specific cost estimates must be developed on a case-by-case basis.

Table 5 shows the unit costs used to determine the near term maintenance needs and Table 6 shows the unit costs used to determine the major rehabilitation needs. Unlike the maintenance costs based on specific action items, PAVER estimates major rehabilitation costs based on the PCI value. Therefore, the costs shown in Table 6 are meant to represent a unit cost for complete reconstruction (PCI < 60) of \$31.01 for PCC and \$20.40 for AC pavement. For major rehabilitation (PCI between 61 and 70), unit costs are \$8.75 for PCC and \$2.75 for AC pavement. Note that the unit cost of \$2.75 between PCI values of 61 and 70 for AC pavement represents the cost of a 2-inch mill and inlay.

| Treatment Name | Unit Cost |
|------------------------------|-----------------|
| Crack Sealing - AC | \$1.38 / Ft |
| Crack Sealing - PCC | \$3.93 / Ft |
| Grinding (Localized) | \$5.75 / Ft |
| Joint Seal (Localized) | \$3.85 / Ft |
| Patching - AC Deep | \$18.56 / SqFt |
| Patching - AC Shallow | \$16.81 / SqFt |
| Surface Treatment | \$0.61 / SqFt |
| Patching - PCC Full Depth | \$119.00 / SqFt |
| Patching - PCC Partial Depth | \$61.63 / SqFt |
| Slab Replacement - PCC | \$31.55 / SqFt |
| Undersealing - PCC | \$3.03 / Ft |

Table 5. Local M&R unit costs

Table 6. Major M&R unit costs

| PCI | Cost AC | Cost PCC |
|--------|----------------|----------------|
| 0-60 | \$20.40 / SqFt | \$31.01 / SqFt |
| 61-70 | \$2.75 / SqFt | \$8.75 / SqFt |
| 71-80 | \$1.10 / SqFt | \$5.45 / SqFt |
| 81-100 | \$0.61 / SqFt | \$0.61/ SqFt |



3.1 Local M&R

Near term maintenance includes activities such as crack sealing, patching, and surface treatments that help to slow the rate of deterioration. Localized maintenance policies were developed for the AC and PCC surfaces. The policies, provided in appendix E, present the recommended maintenance treatment for each distress/severity combination.

Table 7 presents the summary of maintenance work quantities and estimated costs to apply the near term maintenance plan at AUG. The repair quantities are based on extrapolated distress quantities from PAVER using the 2018 PCI inspection and the maintenance policy matrix as defined in appendix E.

| Treatment | Estimated Repair Quantity | Units | Estimated Costs |
|-----------------------|---------------------------|-------|-----------------|
| Crack Sealing - AC | 22,774 | Ft | \$31,428 |
| Patching - AC Deep | 37,404 | SqFt | \$694,972 |
| Patching - AC Shallow | 28 | SqFt | \$468 |
| Surface Seal | 7,438 | SqFt | \$4,537 |
| | \$731,405 | | |

| Table 7. Airport maintenance summary |
|--------------------------------------|
|--------------------------------------|

When using this plan, it is recommended that the entire pavement section be viewed to determine whether the identified distress types are so advanced in density and severity that maintenance efforts will no longer be cost-effective. Table 8 provides a more detailed breakdown of the maintenance needs with each pavement section classified as preventive, restorative, or stopgap. Preventive maintenance is defined as occurring above the minimum service level (MSL) and is recommended as a cost-effective means of prolonging the pavement life. Restorative maintenance occurs below the MSL but has the ability to increase the PCI above the MSL. It is recommended that the airport engineer perform a life cycle cost analysis comparing restorative maintenance to major rehabilitation to determine the ideal repair strategy. Stopgap maintenance is defined as maintenance needs that will not restore the pavement to the MSL. Stopgap maintenance is typically limited to the minimum necessary to control FOD and maintain safety until such time as major rehabilitation can be programmed.



| Branch | Section | Maintenance Type | PCI Before | PCI After | Cost |
|--------|---------|------------------|------------|-----------|-----------|
| APA | 001 | Stopgap | 58 | 61 | \$378 |
| APB | 001 | Stopgap | 54 | 68 | \$30,480 |
| APB | 002 | Stopgap | 63 | 66 | \$6,475 |
| APB | 003 | Stopgap | 12 | 60 | \$686,550 |
| CTF | 001 | Stopgap | 66 | 69 | \$458 |
| СТВ | 001 | Preventive | 88 | 90 | \$58 |
| PTC | 002 | Stopgap | 59 | 61 | \$32 |
| PTE | 003 | Stopgap | 56 | 58 | \$1,176 |
| PTE | 004 | Stopgap | 53 | 61 | \$669 |
| RPA | 001 | Stopgap | 57 | 62 | \$757 |
| RY826 | 002 | Stopgap | 66 | 69 | \$4,373 |

Table 8. Maintenance type by section

It is important to understand that the maintenance plan is based on the distress types, severities, and quantities found during the 2018 PCI survey. As field conditions change, the maintenance plan will become less accurate. Therefore, the maintenance plan will be most useful if implemented as soon as is practical. Applying maintenance treatments should be an annual event at the airport, and this maintenance plan can serve as a baseline for that work. The recommended maintenance type for each section is shown in Figure 9 and summarized in Table 8. Recommended maintenance actions by section are provided in Table 9. Guidelines for performing crack sealing and patching techniques are provided in appendix F.



| Branch | Section | Work Type | Quantity | Unit | Cost |
|--------|---------|---------------------------|----------|------|--------------------|
| APA | 001 | Crack Sealing - AC | 170 | Ft | \$234 |
| APA | 001 | Surface Seal | 236 | SqFt | \$144 |
| APB | 001 | Crack Sealing - AC | 20,095 | Ft | \$27,732 |
| APB | 001 | Patching - AC Deep | 147 | SqFt | \$2,748 |
| APB | 002 | Crack Sealing - AC | 410 | Ft | \$566 |
| APB | 002 | Patching - AC Deep | 187 | SqFt | \$3,488 |
| APB | 002 | Patching - AC Shallow | 28 | SqFt | \$468 |
| APB | 002 | Surface Seal | 3,202 | SqFt | \$1,954 |
| APB | 003 | Crack Sealing - AC | 494 | Ft | \$682 |
| APB | 003 | Patching - AC Deep | 36,914 | SqFt | \$685 <i>,</i> 868 |
| CTF | 001 | Crack Sealing - AC | 44 | Ft | \$60 |
| CTF | 001 | Surface Seal | 651 | SqFt | \$397 |
| СТВ | 001 | Crack Sealing - AC | 42 | Ft | \$58 |
| PTC | 002 | Crack Sealing - AC | 37 | Ft | \$32 |
| PTE | 003 | Crack Sealing - AC | 127 | Ft | \$175 |
| PTE | 003 | Patching - AC Deep | 32 | SqFt | \$595 |
| PTE | 003 | Surface Seal | 666 | SqFt | \$407 |
| PTE | 004 | Crack Sealing - AC | 485 | Ft | \$669 |
| RPA | 001 | Crack Sealing - AC 59 | | Ft | \$81 |
| RPA | 001 | Surface Seal 1,107 Sq | | SqFt | \$675 |
| RY826 | 002 | Crack Sealing - AC 825 Ft | | Ft | \$1,139 |
| RY826 | 002 | Patching - AC Deep | 123 | SqFt | \$2,273 |
| RY826 | 002 | Surface Seal | 1,575 | SqFt | \$961 |

Table 9. Maintenance details by section



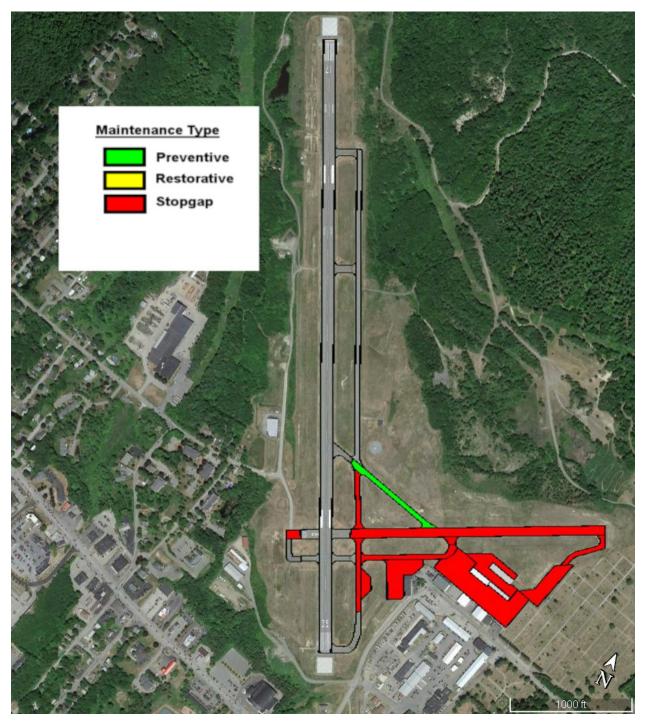


Figure 8. Maintenance type



3.2 Major M&R

In addition to the annual maintenance activities such as crack sealing and patching, some pavements may require more substantial rehabilitation. As a planning aid to the airport and MaineDOT, Table 10 provides a summary from PAVER of the predicted 5-year pavement rehabilitation needs at AUG. The recommended timing of each improvement action is defined as the year that the pavement condition is projected to reach the MSL. By establishing benchmark MSL targets, it is possible to plan objectively for future needs against a standard set of performance criteria. Based on D&K/ARA's recommendations and a review of national best practices, MaineDOT Division of Aviation has selected benchmark MSL values of 70 for all airside pavement. These MSL values fall within the typical range of those used throughout the nation to manage general aviation airport pavement.

The pavement sections identified for major rehabilitation in Table 10 and shown in Figure 9 are at or are predicted to reach a condition level where major M&R should be considered. While the predicted rehabilitation timeline identifies specific sections and the general timing for the repair, more in-depth project-level studies will be needed to determine exactly how to fix each pavement (i.e. asphalt overlay, reconstruction, or some other repair alternative). Additionally, the airport may find it desirable to adjust the timing of projects to meet fiscal and operational constraints. For example, if the runway and several connector taxiways were forecast to reach the MSL in various years ranging from 2019-2023, it may be preferable to group these pavement sections into a single project.

Note that identifying projects for work does not guarantee that federal or state funding will be available to complete the work in the year shown. The airport and MaineDOT should view these recommendations as viable projects when preparing future capital improvement plans (CIP).

| Branch ID | Section ID | Year | Predicted PCI Before Rehab | Estimated Cost |
|-----------|------------|------|----------------------------|----------------|
| APA | 001 | 2020 | 54 | \$1,260,698 |
| APB | 001 | 2020 | 50 | \$3,248,644 |
| APB | 002 | 2020 | 59 | \$1,014,883 |
| APB | 003 | 2020 | 8 | \$1,159,720 |
| CTF | 001 | 2020 | 62 | \$52,111 |
| PTC | 002 | 2020 | 55 | \$555,890 |
| PTE | 003 | 2020 | 52 | \$725,208 |
| PTE | 004 | 2020 | 49 | \$109,138 |
| RPA | 001 | 2020 | 53 | \$310,075 |
| RY826 | 002 | 2020 | 62 | \$454,838 |
| | | | 5-year Airport Total | \$8,891,205 |

Table 10. 5-year major rehabilitation plan.



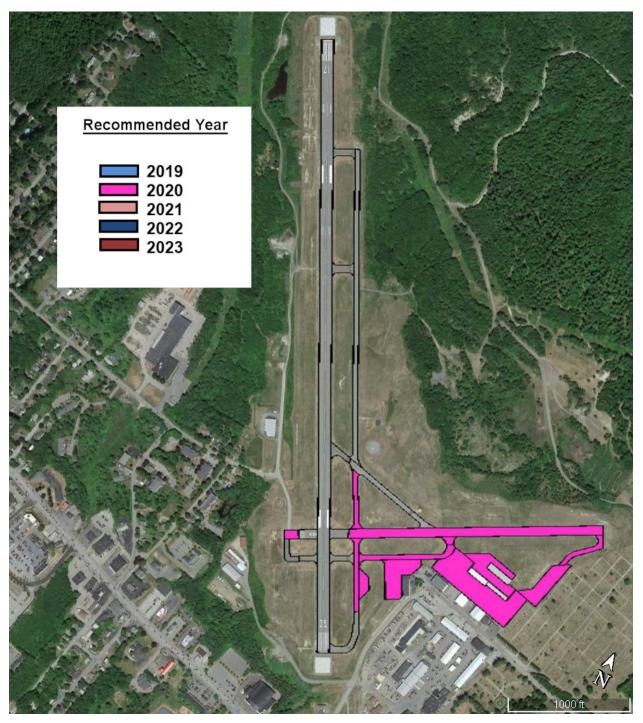


Figure 9. Major M&R



3.3 Airfield Capital Improvement Plan - Unlimited Budget

Assuming that all pavement sections below the MSL receive major M&R and that all pavement sections above the MSL receive preventive maintenance, the total funding needs for the identified maintenance and rehabilitation projects at AUG are shown in Table 11. Note that funding sources will vary by airport, but it is generally assumed that major M&R projects will be eligible for FAA AIP funding and that preventive maintenance will be completed with airport/city staff. Pavement sections, where restorative maintenance appears to be a cost effective alternative to major M&R, have been flagged for additional analysis by the airport sponsor / design engineer. If this pavement repair plan were to be implemented as shown, the subsequent projected PCI values for each pavement section are shown in Table 12.

| Branch ID | Section ID | Year | Type of Repair | Funding Sources | Cost |
|--------------|---------------|------|------------------------|-------------------|--------------------|
| APA | 001 | 2020 | Major M&R | FAA/Local | \$1,260,698 |
| APB | 001 | 2020 | Major M&R | FAA/Local | \$3,248,644 |
| APB | 002 | 2020 | Major M&R | FAA/Local | \$1,014,883 |
| APB | 003 | 2020 | Major M&R | FAA/Local | \$1,159,720 |
| CTF | 001 | 2020 | Major M&R | FAA/Local | \$52,111 |
| СТВ | 001 | 2020 | Preventive Maintenance | Local / City Crew | \$58 |
| СТВ | 002 | 2020 | No Action | | |
| CTC1 | 001 | 2020 | No Action | | |
| CTC | 001 | 2020 | No Action | | |
| PTC | 001 | 2020 | No Action | | |
| PTC | 002 | 2020 | Major M&R | FAA/Local | \$555 <i>,</i> 890 |
| PTC | 003 | 2020 | No Action | | |
| PTE | 001 | 2020 | No Action | | |
| PTE | 002 | 2020 | No Action | | |
| PTE | 003 | 2020 | Major M&R | FAA/Local | \$725,208 |
| PTE | 004 | 2020 | Major M&R | FAA/Local | \$109,138 |
| RPA | 001 | 2020 | Major M&R | FAA/Local | \$310,075 |
| RY1735 | 001 | 2020 | No Action | | |
| RY826 | 001 | 2020 | No Action | | |
| RY826 | 002 | 2020 | Major M&R | FAA/Local | \$454,838 |
| APA | 001 | 2023 | Preventive Maintenance | Local / City Crew | \$618 |
| APB | 001 | 2023 | Preventive Maintenance | Local / City Crew | \$1,593 |
| APB | 002 | 2023 | Preventive Maintenance | Local / City Crew | \$498 |
| APB | 003 | 2023 | Preventive Maintenance | Local / City Crew | \$569 |
| CTF | 001 | 2023 | Preventive Maintenance | Local / City Crew | \$190 |
| СТВ | 001 | 2023 | Preventive Maintenance | Local / City Crew | \$620 |
| СТВ | 002 | 2023 | Preventive Maintenance | Local / City Crew | \$133 |
| CTC1 | 001 | 2023 | Preventive Maintenance | Local / City Crew | \$121 |
| CTC | 001 | 2023 | No Action | | |
| PTC | 001 | 2023 | Preventive Maintenance | Local / City Crew | \$1,047 |
| PTC | 002 | 2023 | Preventive Maintenance | Local / City Crew | \$273 |

Table 11. Summary of repair needs (unlimited budget)



| Branch ID | Section ID | Year | Type of Repair | Funding Sources | Cost |
|--------------|---------------|------|------------------------|-------------------|-------------|
| PTC | 003 | 2023 | Preventive Maintenance | Local / City Crew | \$224 |
| PTE | 001 | 2023 | No Action | | |
| PTE | 002 | 2023 | No Action | | |
| PTE | 003 | 2023 | Preventive Maintenance | Local / City Crew | \$356 |
| PTE | 004 | 2023 | Preventive Maintenance | Local / City Crew | \$54 |
| RPA | 001 | 2023 | Preventive Maintenance | Local / City Crew | \$152 |
| RY1735 | 001 | 2023 | Preventive Maintenance | Local / City Crew | \$5,004 |
| RY826 | 001 | 2023 | Preventive Maintenance | Local / City Crew | \$237 |
| RY826 | 002 | 2023 | Preventive Maintenance | Local / City Crew | \$1,654 |
| | | | | Total: | \$8,904,604 |

Table 12. Projected PCI by section (unlimited funding)

| Branch ID | Section ID | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------|---------------|------|------|------|------|------|
| APA | 001 | 56 | 100 | 98 | 96 | 95 |
| APB | 001 | 52 | 100 | 98 | 96 | 95 |
| APB | 002 | 61 | 100 | 98 | 96 | 95 |
| APB | 003 | 10 | 100 | 98 | 96 | 95 |
| CTF | 001 | 64 | 100 | 99 | 97 | 96 |
| СТВ | 001 | 87 | 90 | 89 | 87 | 85 |
| CTB | 002 | 96 | 94 | 93 | 91 | 90 |
| CTC1 | 001 | 93 | 91 | 90 | 88 | 86 |
| CTC | 001 | 97 | 95 | 94 | 92 | 91 |
| PTC | 001 | 89 | 87 | 85 | 84 | 82 |
| PTC | 002 | 57 | 100 | 99 | 97 | 96 |
| PTC | 003 | 96 | 94 | 93 | 91 | 90 |
| PTE | 001 | 99 | 97 | 96 | 94 | 93 |
| PTE | 002 | 99 | 97 | 96 | 94 | 93 |
| PTE | 003 | 54 | 100 | 99 | 97 | 96 |
| PTE | 004 | 51 | 100 | 99 | 97 | 96 |
| RPA | 001 | 55 | 100 | 99 | 97 | 96 |
| RY1735 | 001 | 95 | 93 | 92 | 90 | 89 |
| RY826 | 001 | 96 | 94 | 93 | 91 | 90 |
| RY826 | 002 | 64 | 100 | 99 | 97 | 96 |



3.4 Airport Responsibilities

The FAA has defined an acceptable maintenance-management program, and this report fulfills many requirements of such a program, including documenting:

- Locations of all runways, taxiways, and aprons.
- Dimensions of the pavement system.
- Types of pavement.
- Year of construction or most recent major rehabilitation.

In accordance with best practices, the airport owner should be an active participant specifically by implementing the following actions:

- Conduct a "drive-by" inspection at least monthly to detect changes in pavement condition.
- Record the date of each "drive-by" inspection and any maintenance performed as a result.
- Document all maintenance activities.
- Document detailed inspection information with a history of recorded pavement deterioration by PCI survey (e.g., this report).
- Maintain all records on file for a minimum of 5 years.

An example of a form that can be completed during "drive-by" inspections is provided in appendix F.



4. Structural Capacity

4.1 Pavement Classification Number (PCN) Background

Airport pavement strength is calculated and reported using a standardized methodology known as the Aircraft Classification Number-Pavement Classification Number (ACN-PCN). The ACN-PCN is used by member countries of the International Civil Aviation Organization (ICAO) and is published on Federal Aviation Administration (FAA) Form 5010. The latest PCN methodology was updated in 2014, and is published in FAA Advisory Circular 150/5335-5C. The analysis presented herein was performed in accordance with the Advisory Circular.

Conceptually, the ACN for an aircraft must be lower than the PCN of the pavement for an aircraft to operate on that pavement without restrictions. For example, aircraft manufacturers report ACN values for each aircraft at each of the four subgrade strength categories. Consider that the ACN values for the Learjet-55 aircraft are 6.6(A), 6.9(B), 7.1(C), and 7.2(D). Thus, for an example PCN code of 7/R/B/X/U, the ACN of 6.9(B) for the Learjet-55 is less than the PCN; therefore, the pavement can support this aircraft. However, if the example PCN was reported as 7/R/D/X/U, the ACN of 7.2(D) would be greater than the PCN, indicating the pavement would be overloaded. Table 13 provides additional details on the PCN reporting code format XX/1/2/3/4 where:

XX = Pavement Condition Number

- 1 = Pavement Type Code
- 2 = Subgrade Strength Code
- 3 = Tire Pressure Code
- 4 = Evaluation Method Code

| Pavement Type Code | | | | | | | |
|--------------------|---|------------------------------|-----------------------|--|--|--|--|
| | F = flexible (asphalt), R = rigid (PCC) | | | | | | |
| | _ | Subgrade Strength Code | | | | | |
| Code | Category | Flexible Pavement CBR, % | Rigid Pavement k, pci | | | | |
| А | High | CBR > 13 | k >400 | | | | |
| В | Medium | 8< CBR <13 | 221< k <442 | | | | |
| С | Low | 4< CBR <8 | 92< k <221 | | | | |
| D | Ultra low | CBR < 4 | k < 92 | | | | |
| | | Tire Pressure Code | | | | | |
| Code | Category | Allowable Tire Pressure, psi | | | | | |
| W | High | No limit | | | | | |
| Х | Medium | 146 – 217 | | | | | |
| Y | Low | 74 – 145 | | | | | |
| Z | Ultra low | 0 – 73 | | | | | |
| | Evaluation Method Code | | | | | | |
| | | T – Technical Evaluation | | | | | |
| | | U – Using Aircraft | | | | | |

Table 13. PCN Code Defined

From the Learjet 55 illustration, the example PCN code was 7/R/B/X/U—with 7 expressing the PCN numerical value, R for rigid pavement, B for medium strength subgrade, X for medium allowable tire pressure, and U for a PCN value obtained through the using aircraft method.



4.2 PCN Calculation

FAA Advisory Circular 150/5335-5C provides two different methodologies for determining the pavement's PCN value. The using aircraft method is a simplified approach based on experience, whereby the PCN is determined by selecting the highest ACN among the aircraft currently using the facility and not causing pavement distress.

The technical method is a rigorous engineering analysis that requires the following general inputs: pavement thickness, detailed traffic data, pavement flexural strength (for rigid pavements), and subgrade support strength. The results reported herein were determined via the technical method.

4.2.1 Pavement Thickness

Pavement layer thicknesses are based on available records. Confirmation of thicknesses via coring or boring was not included as part of the scope of work for this study.

Runway 8-26: 3 inches of P401 on 12 inches P209 and 24 inches P154

Runway 17-35: 4 inches of P401 on 12 inches P209 and 25 inches P154

4.2.2 Airfield Traffic Mix

Table 14 shows the traffic data currently residing in the online Airport IQ 5010 database located at: https://www.gcr1.com/5010web/. Additional traffic details were obtained from the Runway 17-35 pavement design letter dated March 23, 2011. The airport manager also provided detailed traffic data for the week of February 17-23, 2019 and July 7-13, 2019.

| Air Carrier: | 0 |
|-----------------------------|--------|
| Air Taxi: | 5,300 |
| General Aviation Local: | 14,000 |
| General Aviation Itinerant: | 3,700 |
| Military: | 1,500 |
| TOTAL OPERATIONS: | 24,500 |

Table 14. Airfield Traffic

*Operations for 12 Months Ending: 08/11/2016



4.2.3 Subgrade Support

An HWD was used to simulate the passing of an aircraft wheel load, both in duration and in magnitude, in a nondestructive manner. The HWD is a trailer-mounted testing apparatus that drops a weight onto a load plate equipped with sensors that measure the pavement's response to the applied load. The response, or deflection, is a measurement of how the pavement distributes the stress of the applied load into the lower layers of the pavement structure and is an indication of the pavement's strength, or stiffness. The HWD data were analyzed to produce deflection profiles and to determine the elastic moduli (E) for the pavement structure and the subgrade support values—modulus of subgrade reaction (k) for rigid pavements and CBR for flexible pavements.

Based on the HWD testing, ARA calculated CBR values of 5.3 for Runway 17-35 and 3.5 for Runway 8-26. These values correspond well with previous geotechnical studies and the design value of 4.0 used for the Runway 17-35 rehabilitation. ARA used a CBR value of 3.5 in the COMFAA analysis for Runway 8-26. For the Runway 17-35 analysis, ARA elected to use the more conservative value of 4.0.

4.3 Results

Because of the very thick layers of P154 subbase (2 feet) provided for frost protection, both runways have structural capacity that greatly exceeds the current airport traffic fleet mix. Aircraft operations at Augusta State Airport are therefore limited by runway length rather than by the PCN of the runways. The PCN and maximum weight ratings for single (S), dual (D), and dual tandem (2D) aircraft gear configurations are shown in Table 15. Note that the calculated PCN values from COMFAA exceed the values shown in Table 15. Should either runway be extended in the future to accommodate larger aircraft, a new COMFAA analysis should be undertaken.

| Bunway | PCN | Weight Ratin | g by Gear Config | uration (kips) |
|--------|------------|--------------|------------------|----------------|
| Runway | PCN | S | D | 2D |
| 8-26 | 24/F/D/X/T | 61 | 79 | 134 |
| 17-35 | 31/F/D/X/T | 78 | 100 | 164 |

Table 15. PCN Results



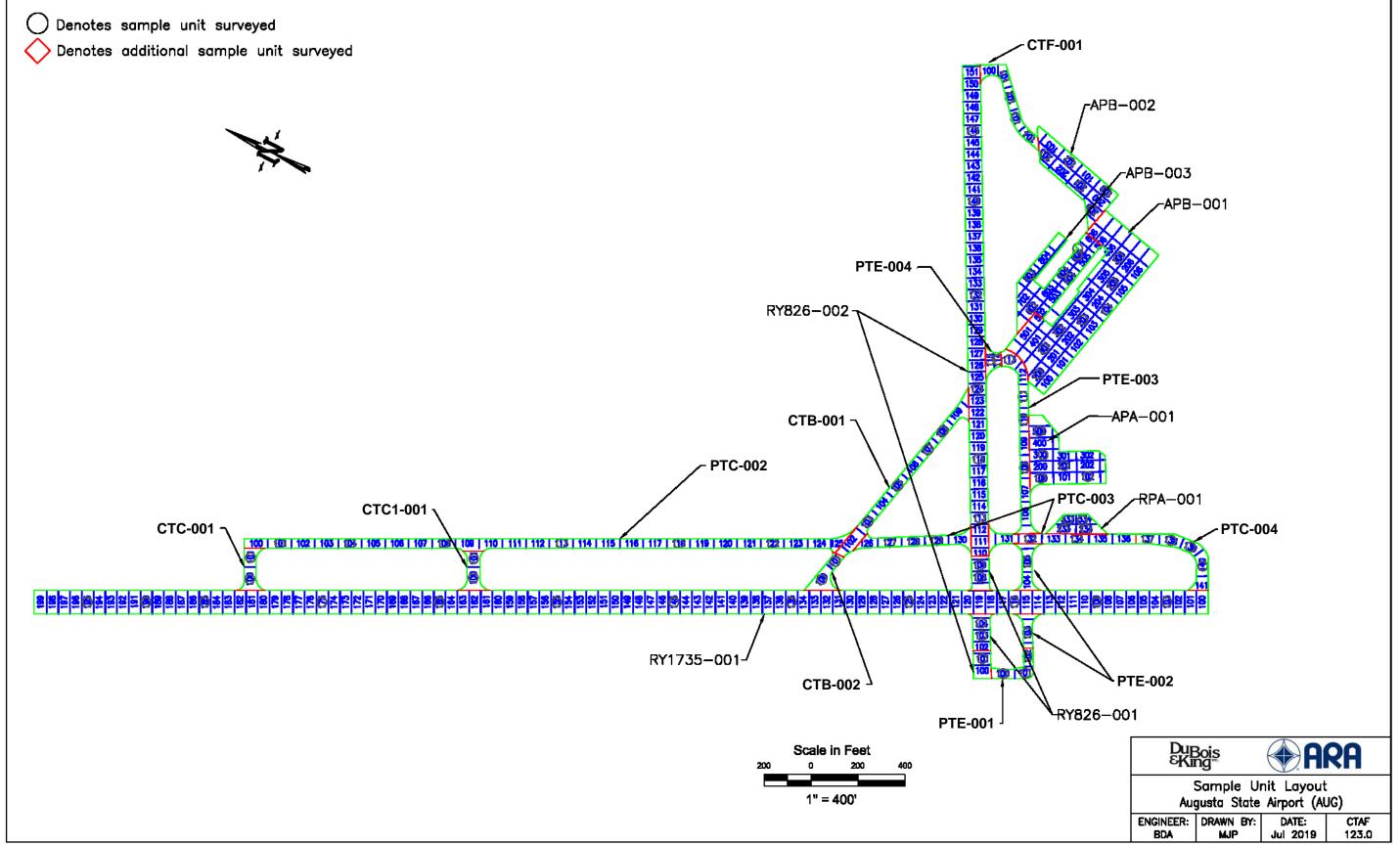
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Appendix A: Sample Unit Maps



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Appendix B: Pavement Analysis



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ARAPA



| Section: | AUG::APA::001 |
|--------------|---------------|
| Description: | Apron A |
| PaveType: | AC |
| Area: | 61,800 |
| Built: | 1/15/1993 |
| Age: | 26yr |

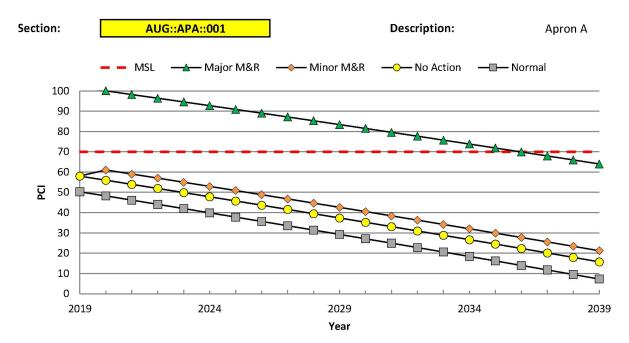
| InspPCI: | 58 |
|-----------------|-------------------------|
| InspPCI Rating: | Fair |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC APRON-TLN |
| NormalPCI: | 50 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре |
|--------------|------|----------------|---------------------------------------|
| 1 | 1994 | 0.0 | crack sealing - ac |
| 2 | 1992 | 0.0 | new construction - ac |
| 3 | 1992 | 4.0 | surface course - ac (layer construct) |
| 4 | 1992 | 6.0 | base course - aggregate |
| 5 | 1992 | 37.0 | subbase - stabilized |
| 6 | - | - | - |
| 7 | - | - | - |
| 8 | - | - | - |
| 9 | - | | - |
| 10 | - | - | - |
| | | | |

| Traffic/Load: | 13% | | |
|---------------|-----|----------------|----|
| Age/Weather: | 84% | Total Samples: | 12 |
| Other: | 3% | Insp. Samples: | 5 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|---------------|----------|----------|-------|
| 1 | alligator | 12 | low | SqFt |
| 2 | I & t crack | 12,911 | low | Ft |
| 3 | I & t crack | 170 | medium | Ft |
| 4 | swell | 247 | low | SqFt |
| 5 | weathering | 34,137 | low | SqFt |
| 6 | weathering | 235 | medium | SqFt |
| 7 | - | - | - | - |
| 8 | - | - | - | - |
| 9 | - | - | - | - |
| 10 | - | - | - | - |
| 11 | - | - | - | - |
| 12 | - | - | - | - |
| 13 | . | - | - | - |
| 14 | - | - | - | - |
| 15 | . | - | - | - |
| 16 | - | - | - | - |
| 17 | | - | - | - |
| 18 | - | - | - | - |
| 19 | - | - | - | - |
| 20 | - | - | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------------------|-----------------|-----------|------------|
| Major | Major M&R | 2020 | 1,260,698 | 100 |
| Minor | All Minor | 2020 | 378 | 61 |
| 1 | Crack Sealing - AC | 170 Ft | 234 | - |
| 2 | Surface Seal | 236 SqFt | 144 | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | - | Ξ. | - | - |
| 6 | - | - | - | - |
| 7 | = | e. | - | - |





| Section: | AUG::APB::001 |
|--------------|---------------|
| Description: | Apron B |
| PaveType: | AC |
| Area: | 159,250 |
| Built: | 1/15/1975 |
| Age: | 44yr |

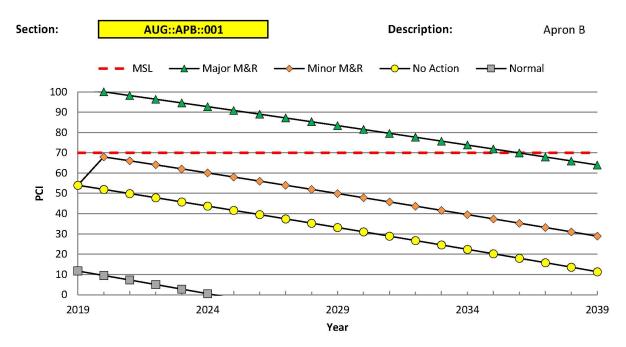
| InspPCI: | 54 |
|-----------------|-------------------------|
| InspPCI Rating: | Poor |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC APRON-TLN |
| NormalPCI: | 12 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре |
|--------------|------|----------------|---------------------------------------|
| 1 | 1975 | 0.0 | new construction - ac |
| 2 | 1975 | 4.0 | surface course - ac (layer construct) |
| 3 | 1975 | 6.0 | base course - aggregate |
| 4 | 1975 | 12.0 | subbase - stabilized |
| 5 | - | - | - |
| 6 | - | - | - |
| 7 | - | - | - |
| 8 | - | - | - |
| 9 | - | - | - |
| 10 | - | - | - |
| | | | |

| Traffic/Load: | 11% | | |
|---------------|-----|----------------|----|
| Age/Weather: | 89% | Total Samples: | 34 |
| Other: | 0% | Insp. Samples: | 7 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|-------------|----------|----------|-------|
| 1 | alligator | 103 | medium | SqFt |
| 2 | block | 20,843 | medium | SqFt |
| - 3 | I & t crack | 7,522 | low | Ft |
| 4 | I & t crack | 13,742 | medium | Ft |
| 5 | patch | 3,607 | low | SqFt |
| 6 | - | - | - | - |
| 7 | _ | - | _ | - |
| 8 | - | - | - | _ |
| 9 | - | - | - | - |
| 10 | - | | _ | - |
| 11 | | - | - | - |
| 12 | - | - | - | - |
| 13 | - | - | - | - |
| 14 | - | - | - | - |
| 15 | - | - | - | - |
| 16 | - | | - | - |
| 17 | | - | - | - |
| 18 | - | - | - | - |
| 19 | = | - | - | - |
| 20 | - | Ξ. | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------------------|-----------------|-----------|------------|
| Major | Major M&R | 2020 | 3,248,644 | 100 |
| Minor | All Minor | 2020 | 30,480 | 68 |
| 1 | Crack Sealing - AC | 20095 Ft | 27,732 | - |
| 2 | Patching - AC Deep | 147 SqFt | 2,748 | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | - | - | - | - |
| 7 | = | - | - | - |





| Section: | AUG::APB::002 |
|--------------|---------------|
| Description: | Apron B |
| PaveType: | AC |
| Area: | 49,750 |
| Built: | 1/15/1975 |
| Age: | 44yr |

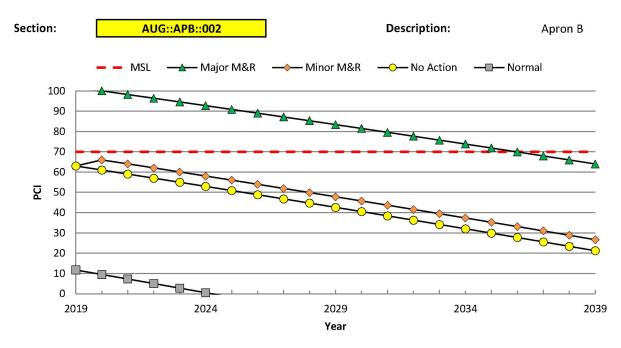
| InspPCI: | 63 |
|-----------------|-------------------------|
| InspPCI Rating: | Fair |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC APRON-TLN |
| NormalPCI: | 12 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре |
|--------------|------|----------------|---------------------------------------|
| 1 | 1975 | 0.0 | new construction - ac |
| 2 | 1975 | 4.0 | surface course - ac (layer construct) |
| 3 | 1975 | 6.0 | base course - aggregate |
| 4 | 1975 | 12.0 | subbase - stabilized |
| 5 | - | - | - |
| 6 | - | - | - |
| 7 | - | - | - |
| 8 | - | - | - |
| 9 | - | - | - |
| 10 | - | - | - |
| | | | |

| Traffic/Load: | 28% | | |
|---------------|-----|----------------|----|
| Age/Weather: | 69% | Total Samples: | 10 |
| Other: | 3% | Insp. Samples: | 5 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|---------------|----------|----------|-------|
| 1 | alligator | 137 | medium | SqFt |
| 2 | I & t crack | 4,975 | low | Ft |
| 3 | I & t crack | 410 | medium | Ft |
| 4 | oil spill | 11 | n/a | SqFt |
| 5 | weathering | 44,839 | low | SqFt |
| 6 | weathering | 3,203 | medium | SqFt |
| 7 | . | - | - | - |
| 8 | - | - | - | - |
| 9 | - | - | - | - |
| 10 | - | - | - | - |
| 11 | - | - | - | - |
| 12 | - | - | - | - |
| 13 | = | - | - | - |
| 14 | - | - | - | - |
| 15 | | - | - | - |
| 16 | - | - | - | - |
| 17 | . | - | - | - |
| 18 | - | - | - | - |
| 19 | . | - | - | - |
| 20 | - | - | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|-----------------------|-----------------|-----------|------------|
| Major | Major M&R | 2020 | 1,014,883 | 100 |
| Minor | All Minor | 2020 | 6,475 | 66 |
| 1 | Patching - AC Deep | 187 SqFt | 3,488 | - |
| 2 | Surface Seal | 3202 SqFt | 1,954 | - |
| 3 | Crack Sealing - AC | 410 Ft | 566 | - |
| 4 | Patching - AC Shallow | 28 SqFt | 468 | - |
| 5 | - | - | - | - |
| 6 | - | - | - | - |
| 7 | - | - | - | - |





| Section: | AUG::APB::003 |
|--------------|---------------|
| Description: | Apron B |
| PaveType: | AC |
| Area: | 56,850 |
| Built: | 1/15/1986 |
| Age: | 33yr |

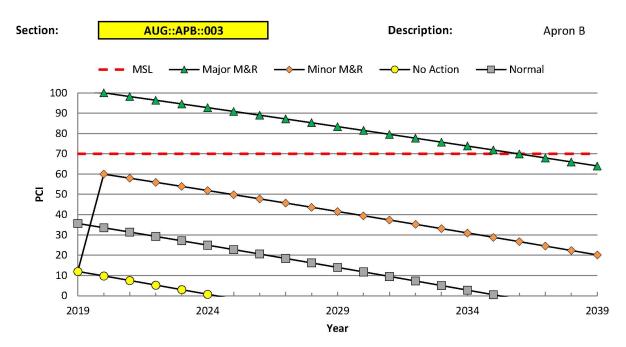
| InspPCI: | 12 |
|-----------------|-------------------------|
| InspPCI Rating: | Serious |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC APRON-TLN |
| NormalPCI: | 36 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре |
|--------------|------|----------------|---------------------------------------|
| 1 | 1986 | 0.0 | new construction - ac |
| 2 | 1986 | 2.0 | surface course - ac (layer construct) |
| 3 | 1986 | 6.0 | base course - aggregate |
| 4 | - | - | - |
| 5 | - | - | - |
| 6 | - | - | - |
| 7 | - | - | - |
| 8 | - | - | - |
| 9 | - | Ξ. | - |
| 10 | - | - | - |
| | | | |

| Traffic/Load: | 79% | | |
|---------------|-----|----------------|----|
| Age/Weather: | 21% | Total Samples: | 10 |
| Other: | 0% | Insp. Samples: | 5 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|-------------|----------|----------|-------|
| 1 | alligator | 34,852 | medium | SqFt |
| 2 | alligator | 742 | high | SqFt |
| 3 | l & t crack | 494 | medium | Ft |
| 4 | patch | 371 | high | SqFt |
| 5 | rutting | 297 | low | SqFt |
| 6 | weathering | 54,378 | low | SqFt |
| 7 | - | - | - | - |
| 8 | - | = | - | - |
| 9 | π. | - | - | - |
| 10 | - | - | - | - |
| 11 | - | - | - | - |
| 12 | - | - | - | - |
| 13 | - | - | - | - |
| 14 | - | - | - | - |
| 15 | - | - | - | - |
| 16 | - | Ξ. | - | - |
| 17 | | - | - | - |
| 18 | - | - | - | - |
| 19 | - | - | | - |
| 20 | - | - | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------------------|-----------------|-----------|------------|
| Major | Major M&R | 2020 | 1,159,720 | 100 |
| Minor | All Minor | 2020 | 686,550 | 60 |
| 1 | Patching - AC Deep | 36914 SqFt | 685,868 | - |
| 2 | Crack Sealing - AC | 494 Ft | 682 | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | - | = | - | - |
| 6 | - | - | - | - |
| 7 | - | - | - | - |





| Section: | AUG::CTF::001 |
|--------------|----------------------|
| Description: | Connecting Taxiway F |
| PaveType: | AC |
| Area: | 18,950 |
| Built: | 1/15/2011 |
| Age: | 8yr |

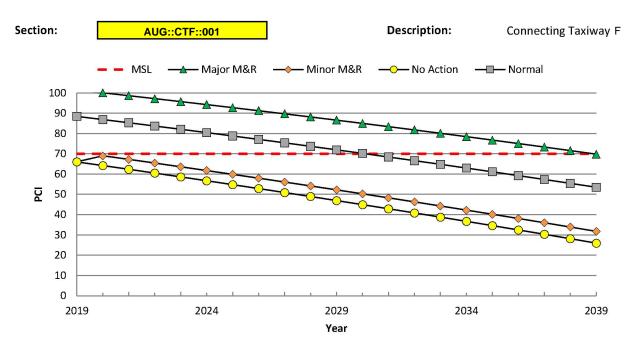
| InspPCI: | 66 |
|-----------------|---------------------|
| InspPCI Rating: | Fair |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC RW-TW |
| NormalPCI: | 88 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре |
|--------------|------|----------------|---------------------------------------|
| 1 | 2011 | 0.0 | complete reconstruction - ac |
| 2 | 2011 | 4.0 | surface course - ac (layer construct) |
| 3 | 2011 | 12.0 | base course - aggregate |
| 4 | 2011 | 25.0 | subbase - aggregate |
| 5 | - | - | - |
| 6 | - | - | - |
| 7 | - | - | - |
| 8 | - | - | - |
| 9 | - | | - |
| 10 | - | - | - |
| | | | |

| Traffic/Load: | 0% | | |
|---------------|------|----------------|---|
| Age/Weather: | 100% | Total Samples: | 5 |
| Other: | 0% | Insp. Samples: | 4 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|---------------|----------|----------|-------|
| 1 | I & t crack | 1,817 | low | Ft |
| 2 | I & t crack | 40 | medium | Ft |
| 3 | I & t crack | 4 | high | Ft |
| 4 | weathering | 17,825 | low | SqFt |
| 5 | weathering | 651 | medium | SqFt |
| 6 | - S | - | - | - |
| 7 | - | - | - | - |
| 8 | - | - | - | - |
| 9 | i | - | - | - |
| 10 | - | - | - | - |
| 11 | | - | - | - |
| 12 | - | - | - | - |
| 13 | | - | - | - |
| 14 | - | - | - | - |
| 15 | | - | - | - |
| 16 | - | - | - | - |
| 17 | | - | - | - |
| 18 | - | - | - | - |
| 19 | = | - | - | - |
| 20 | - | - | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------------------|-----------------|---------------|------------|
| Major | Major M&R | 2020 | 52,111 | 100 |
| Minor | All Minor | 2020 | 458 | 69 |
| 1 | Surface Seal | 651 SqFt | 397 | - |
| 2 | Crack Sealing - AC | 44 Ft | 60 | - |
| 3 | - | - | 12-1 | - |
| 4 | - | - | - | - |
| 5 | - | = | - | - |
| 6 | - | - | - | - |
| 7 | - | - | 12 — 1 | - |





| Section: | AUG::CTB::001 |
|--------------|----------------------|
| Description: | Connecting Taxiway B |
| PaveType: | AC |
| Area: | 33,800 |
| Built: | 1/15/2011 |
| Age: | 8yr |

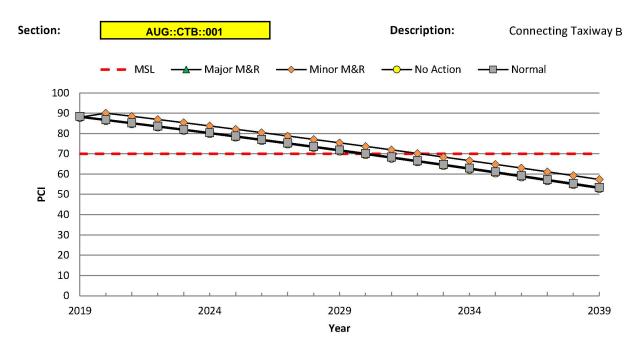
| InspPCI: | 88 |
|-----------------|---------------------|
| InspPCI Rating: | Good |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC RW-TW |
| NormalPCI: | 88 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре |
|--------------|------|----------------|---------------------------------------|
| 1 | 2011 | 0.0 | complete reconstruction - ac |
| 2 | 2011 | 4.0 | surface course - ac (layer construct) |
| 3 | 2011 | 12.0 | base course - aggregate |
| 4 | 2011 | 25.0 | subbase - aggregate |
| 5 | 1997 | 0.0 | crack sealing - ac |
| 6 | 1994 | 0.0 | crack sealing - ac |
| 7 | - | | - |
| 8 | - | - | - |
| 9 | - | | - |
| 10 | - | - | - |
| | | | |

| Traffic/Load: | 0% | | |
|---------------|------|----------------|---|
| Age/Weather: | 100% | Total Samples: | 9 |
| Other: | 0% | Insp. Samples: | 4 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|---------------|----------|----------|-------|
| 1 | I & t crack | 408 | low | Ft |
| 2 | I & t crack | 42 | medium | Ft |
| 3 | weathering | 19,882 | low | SqFt |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | -3 | - | - | - |
| 7 | - | - | - | - |
| 8 | -3 | - | - | - |
| 9 | - | - | - | - |
| 10 | | - | - | - |
| 11 | - | - | - | - |
| 12 | | - | - | - |
| 13 | i | - | - | - |
| 14 | - | - | - | - |
| 15 | . | - | - | - |
| 16 | - | - | - | - |
| 17 | | - | - | - |
| 18 | - | - | - | - |
| 19 | | - | - | - |
| 20 | - | - | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------------------|-----------------|-----------|------------|
| Major | - | - | - | - |
| Minor | All Minor | 2020 | | 58 90 |
| 1 | Crack Sealing - AC | 42 Ft | | 58 - |
| 2 | -, | - | - | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | - | - | - | - |
| 7 | = | = | - | - |





| Section: | AUG::CTB::002 |
|--------------|----------------------|
| Description: | Connecting Taxiway B |
| PaveType: | AC |
| Area: | 13,300 |
| Built: | 10/30/2012 |
| Age: | 6yr |

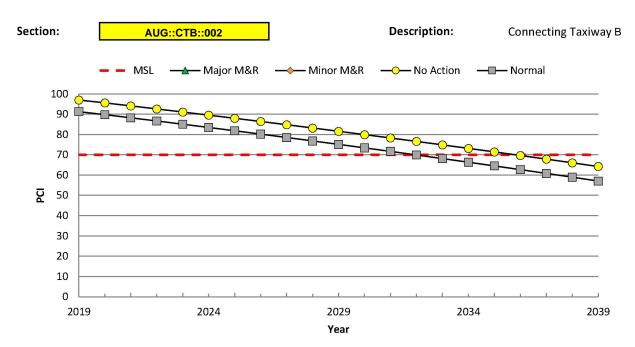
| InspPCI: | 97 |
|-----------------|---------------------|
| InspPCI Rating: | Good |
| InspDate: | 10/11/2018 |
| PCI Family: | 2019 MAINE AC RW-TW |
| NormalPCI: | 91 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре | |
|--------------|------|----------------|-----------------------|--|
| 1 | 2012 | 0.0 | new construction - ac | |
| 2 | - | - | - | |
| 3 | - | - | - | |
| 4 | - | - | - | |
| 5 | - | - | - | |
| 6 | - | - | - | |
| 7 | - | - | - | |
| 8 | - | - | - | |
| 9 | - | - | - | |
| 10 | - | - | - | |
| | | | | |

| Traffic/Load: | 0% | | |
|---------------|------|----------------|---|
| Age/Weather: | 100% | Total Samples: | 2 |
| Other: | 0% | Insp. Samples: | 2 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|-------------|----------|----------|-------|
| 1 | l & t crack | 88 | low | Ft |
| 2 | - | - | × | - |
| 3 | - | - | - | - |
| 4 | =, | - | x= | - |
| 5 | - | - | - | - |
| 6 | -, | - | - | - |
| 7 | - | - | - | - |
| 8 | - | - | - | - |
| 9 | - | - | - | - |
| 10 | - | - | - | - |
| 11 | - | - | - | - |
| 12 | - | - | - | - |
| 13 | | - | - | - |
| 14 | - | - | - | - |
| 15 | - | - | - | - |
| 16 | - | - | - | - |
| 17 | ÷ | - | - | - |
| 18 | - | - | - | - |
| 19 | ÷ | - | - | - |
| 20 | - | - | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------|-----------------|-----------|------------|
| Major | - | - | - | - |
| Minor | = | - | - | - |
| 1 | - | - | - | - |
| 2 | - | - | - | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | - | - | - | - |
| 7 | =. | - | - | - |





| Section: | AUG::CTC1::001 |
|--------------|-----------------------|
| Description: | Connecting Taxiway C1 |
| PaveType: | AC |
| Area: | 12,050 |
| Built: | 1/15/2011 |
| Age: | 8yr |

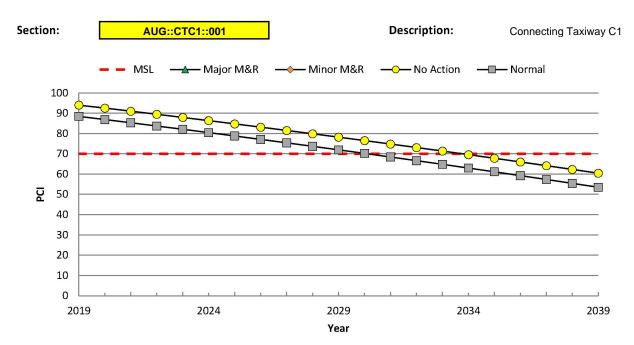
| InspPCI: | 94 |
|-----------------|---------------------|
| InspPCI Rating: | Good |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC RW-TW |
| NormalPCI: | 88 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре |
|--------------|------|----------------|---------------------------------------|
| 1 | 2011 | 0.0 | complete reconstruction - ac |
| 2 | 2011 | 4.0 | surface course - ac (layer construct) |
| 3 | 2011 | 12.0 | base course - aggregate |
| 4 | 2011 | 25.0 | subbase - aggregate |
| 5 | - | - | - |
| 6 | - | - | - |
| 7 | - | - | - |
| 8 | - | - | - |
| 9 | - | - | - |
| 10 | - | - | - |
| | | | |

| Second Control of Control December 11 D Control Indice Control In D Co | | | |
|--|------|----------------|---|
| Traffic/Load: | 0% | | |
| Age/Weather: | 100% | Total Samples: | 2 |
| Other: | 0% | Insp. Samples: | 2 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|-------------|----------|----------|-------|
| 1 | I & t crack | 153 | low | Ft |
| 2 | - | - | - | - |
| 3 | - | - | - | - |
| 4 | =. | - | - | - |
| 5 | - | - | - | - |
| 6 | - | = | - | - |
| 7 | - | - | | - |
| 8 | - | - | - | - |
| 9 | - | - | | - |
| 10 | - | - | - | - |
| 11 | - | - | Ξ. | - |
| 12 | - | - | - | - |
| 13 | - | - | × | - |
| 14 | - | - | - | - |
| 15 | - | - | - | - |
| 16 | - | - | - | - |
| 17 | - | - | - | - |
| 18 | - | - | - | - |
| 19 | - | - | - | - |
| 20 | - | | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------|-----------------|------------------|------------|
| Major | - | - | - | - |
| Minor | - | - | - | |
| 1 | - | - | - | - |
| 2 | -, | - | 8 - 1 | - |
| 3 | - | - | | - |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | - | - | - | - |
| 7 | - | - | - | - |





| Section: | AUG::CTC::001 |
|--------------|----------------------|
| Description: | Connecting Taxiway C |
| PaveType: | AC |
| Area: | 10,400 |
| Built: | 2/15/2011 |
| Age: | 8yr |

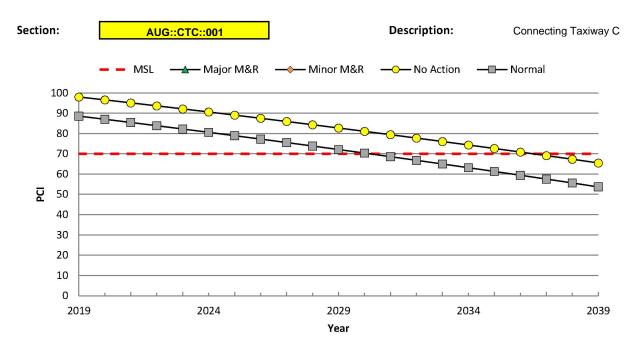
| InspPCI: | 98 |
|-----------------|---------------------|
| InspPCI Rating: | Good |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC RW-TW |
| NormalPCI: | 89 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре | |
|--------------|------|----------------|-----------------------|--|
| 1 | 2011 | 0.0 | new construction - ac | |
| 2 | - | - | - | |
| 3 | - | - | - | |
| 4 | - | - | - | |
| 5 | - | - | - | |
| 6 | - | - | - | |
| 7 | - | - | - | |
| 8 | - | - | - | |
| 9 | - | - | - | |
| 10 | - | - | - | |
| | | | | |

| Traffic/Load: | 0% | | |
|---------------|------|----------------|---|
| Age/Weather: | 100% | Total Samples: | 2 |
| Other: | 0% | Insp. Samples: | 2 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|--------------|----------|----------|-------|
| 1 | l & t crack | 35 | low | Ft |
| 2 | . | - | | = |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | ₹. | - | - | - |
| 6 | - | - | - | - |
| 7 | - | - | - | - |
| 8 | - | - | - | - |
| 9 | | - | - | - |
| 10 | - | - | - | - |
| 11 | - | - | - | - |
| 12 | | - | - | - |
| 13 | - | - | - | - |
| 14 | - | - | - | - |
| 15 | - | - | - | - |
| 16 | - | - | - | - |
| 17 | - | - | - | - |
| 18 | - | - | - | - |
| 19 | - | - | - | - |
| 20 | - | - | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------|-----------------|-----------|------------|
| Major | - | - | - | - |
| Minor | - | - | - | = |
| 1 | - | - | - | - |
| 2 | - | - | - | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | - | - | - | - |
| 7 | - | | - | - |





| Section: | AUG::PTC::001 |
|--------------|--------------------|
| Description: | Parallel Taxiway C |
| PaveType: | AC |
| Area: | 125,200 |
| Built: | 1/15/1993 |
| Age: | 26yr |

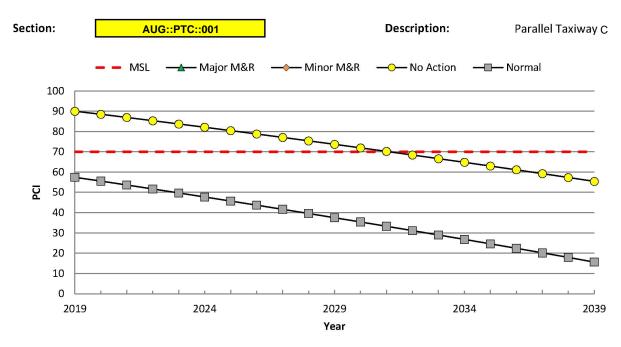
| InspPCI: | 90 |
|-----------------|---------------------|
| InspPCI Rating: | Good |
| InspDate: | 10/11/2018 |
| PCI Family: | 2019 MAINE AC RW-TW |
| NormalPCI: | 57 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре |
|--------------|------|----------------|---------------------------------------|
| 1 | 1997 | 0.0 | crack sealing - ac |
| 2 | 1994 | 0.0 | crack sealing - ac |
| 3 | 1993 | 0.0 | new construction - ac |
| 4 | 1993 | 4.0 | surface course - ac (layer construct) |
| 5 | 1993 | 6.0 | base course - aggregate |
| 6 | 1993 | 37.0 | subbase - stabilized |
| 7 | - | - | - |
| 8 | - | - | - |
| 9 | - | - | - |
| 10 | - | - | - |
| | | | |

| Traffic/Load: | 0% | | |
|---------------|------|----------------|----|
| Age/Weather: | 100% | Total Samples: | 31 |
| Other: | 0% | Insp. Samples: | 6 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|-------------------------------|-------------|----------|----------|-------|
| 1 | l & t crack | 616 | low | Ft |
| 2 | weathering | 113,723 | low | SqFt |
| 3 | | - | - | - |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | -3 | - | - | - |
| 7 | - | - | - | - |
| 8 | -3 | - | - | - |
| 9 | - | - | - | - |
| 10 | - | - | - | - |
| 11 | = | - | - | - |
| 12 | = | - | - | - |
| 13 | = | - | - | - |
| 14 | - | - | - | - |
| 15 | = | - | - | - |
| 16 | = | - | - | - |
| 17 | | - | Ξ. | - |
| 18 | - | - | - | - |
| 19 | π. | - | | - |
| 20 | - | - | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------|-----------------|---------------|------------|
| Major | - | - | - | - |
| Minor | Ξ. | = | - | - |
| 1 | - | - | - | - |
| 2 | - | - | 0 | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | - | - | - | - |
| 7 | =. | - | - | - |





| Section: | AUG::PTC::002 |
|--------------|--------------------|
| Description: | Parallel Taxiway C |
| PaveType: | AC |
| Area: | 26,350 |
| Built: | 1/15/1993 |
| Age: | 26yr |

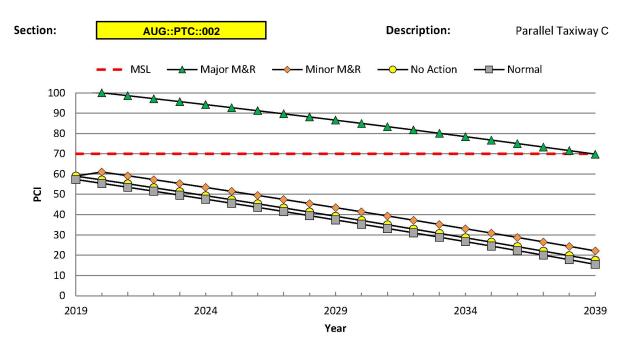
| InspPCI: | 59 |
|-----------------|---------------------|
| InspPCI Rating: | Fair |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC RW-TW |
| NormalPCI: | 57 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре |
|--------------|------|----------------|---------------------------------------|
| 1 | 1993 | 0.0 | new construction - ac |
| 2 | 1993 | 4.0 | surface course - ac (layer construct) |
| 3 | 1993 | 6.0 | base course - aggregate |
| 4 | 1993 | 37.0 | subbase - stabilized |
| 5 | - | - | - |
| 6 | - | - | - |
| 7 | - | - | - |
| 8 | - | - | - |
| 9 | - | = | - |
| 10 | - | - | - |
| | | | |

| EXECUTE OFFICE OF DESCRIPTION OF DESCRIPTION OF THE OFFICE OFFICE OF THE OFFICE OFFICE OFFICE OFFICE OFFICE OFFICE | | | |
|--|------|----------------|---|
| Traffic/Load: | 0% | | |
| Age/Weather: | 100% | Total Samples: | 6 |
| Other: | 0% | Insp. Samples: | 5 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|-------------|----------|----------|-------|
| 1 | I & t crack | 5,657 | low | Ft |
| 2 | l & t crack | 22 | medium | Ft |
| 3 | weathering | 25,691 | low | SqFt |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | - | - | - | - |
| 7 | - | - | - | - |
| 8 | - | - | - | - |
| 9 | - | - | - | - |
| 10 | - | - | - | - |
| 11 | - | - | - | - |
| 12 | - | - | - | - |
| 13 | - | - | - | - |
| 14 | - | - | - | - |
| 15 | - | - | - | - |
| 16 | - | - | - | - |
| 17 | - | - | - | - |
| 18 | - | - | - | - |
| 19 | - | - | - | - |
| 20 | - | - | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------------------|-----------------|--------------|------------|
| Major | Major M&R | 2020 | 537,531 | 100 |
| Minor | All Minor | 2020 | 31 | 61 |
| 1 | Crack Sealing - AC | 22 Ft | 31 | - |
| 2 | =. | = | .= | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | - | - | - | - |
| 7 | - | - | 19 1 | - |





| Section: | AUG::PTC::003 |
|--------------|--------------------|
| Description: | Parallel Taxiway C |
| PaveType: | AC |
| Area: | 23,400 |
| Built: | 2/15/2011 |
| Age: | 8yr |

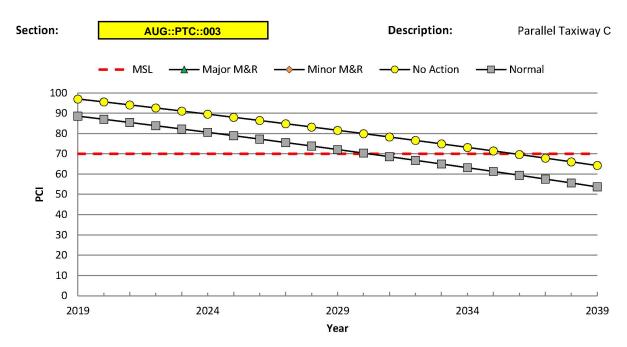
| InspPCI: | 97 |
|-----------------|---------------------|
| InspPCI Rating: | Good |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC RW-TW |
| NormalPCI: | 89 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре | |
|--------------|------|----------------|-----------------------|--|
| 1 | 2011 | 0.0 | new construction - ac | |
| 2 | - | - | - | |
| 3 | - | - | - | |
| 4 | - | - | - | |
| 5 | - | - | - | |
| 6 | - | - | - | |
| 7 | - | - | - | |
| 8 | - | - | - | |
| 9 | - | - | - | |
| 10 | - | - | - | |
| | | | | |

| Traffic/Load: | 0% | | |
|---------------|------|----------------|---|
| | | Total Complexe | 4 |
| Age/Weather: | 100% | Total Samples: | 4 |
| Other: | 0% | Insp. Samples: | 4 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|-------------|----------|----------|-------------|
| 1 | l & t crack | 66 | low | Ft |
| 2 | - | - | - | |
| 3 | - | - | - | - |
| 4 | - | - | | - |
| 5 | - | - | - | - |
| 6 | - | = | - | - |
| 7 | - | - | - | - |
| 8 | - | - | - | - |
| 9 | - | - | - | - |
| 10 | - | - | - | - |
| 11 | - | - | - | - |
| 12 | - | - | - | - |
| 13 | - | - | - | - |
| 14 | - | - | - | - |
| 15 | - | - | - | Ξ. |
| 16 | - | - | - | - |
| 17 | - | - | - | Ξ. |
| 18 | - | - | - | - |
| 19 | - | - | - | |
| 20 | - | - | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------|-----------------|--------------|------------|
| Major | - | - | - | - |
| Minor | 5 | - | - | ÷ |
| 1 | - | - | - | - |
| 2 | - | - | a - - | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | - | - | - | - |
| 7 | = | - | - | æ |





| Section: | AUG::PTE::001 |
|--------------|--------------------|
| Description: | Parallel Taxiway E |
| PaveType: | AC |
| Area: | 10,900 |
| Built: | 1/15/2018 |
| Age: | 1yr |

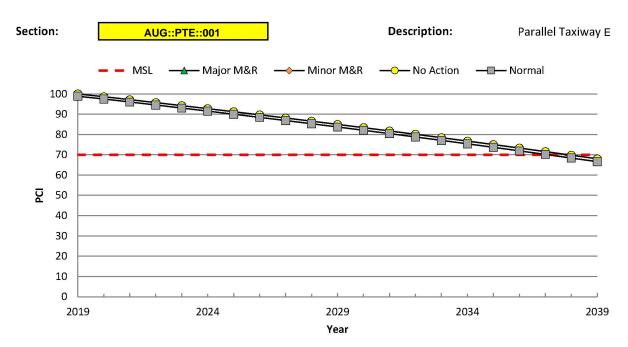
| InspPCI: | 100 |
|-----------------|---------------------|
| InspPCI Rating: | Good |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC RW-TW |
| NormalPCI: | 99 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре |
|--------------|--------|----------------|---------------------------------------|
| 1 | . 2018 | 0.0 | complete reconstruction - ac |
| 2 | 1994 | 0.0 | crack sealing - ac |
| 3 | 1993 | 0.0 | new construction - ac |
| 4 | 1993 | 4.0 | surface course - ac (layer construct) |
| 5 | 1993 | 6.0 | base course - aggregate |
| 6 | 1993 | 37.0 | subbase - stabilized |
| 7 | - | .= | - |
| 8 | - | - | - |
| 9 | - 1 | | - |
| 10 |) - | - | - |
| | | | |

| Traffic/Load: | 0% | | |
|---------------|------|----------------|---|
| Age/Weather: | 100% | Total Samples: | 3 |
| Other: | 0% | Insp. Samples: | 3 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|----------------|----------|----------|-------|
| 1 | #N/A | - | | 0 |
| 2 | - | - | - | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | - | - | - | - |
| 7 | | - | - | - |
| 8 | - | - | - | - |
| 9 | | - | - | - |
| 10 | - | - | - | - |
| 11 | a . | - | - | - |
| 12 | - | - | - | - |
| 13 | ÷ | - | - | - |
| 14 | - | - | - | - |
| 15 | - | - | - | - |
| 16 | - | - | - | - |
| 17 | - | - | - | - |
| 18 | - | - | - | - |
| 19 | - | - | - | - |
| 20 | - | 5 | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------|-----------------|-----------|------------|
| Major | - | - | - | - |
| Minor | = | - | - | - |
| 1 | - | - | - | - |
| 2 | - | - | - | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | - | - | - | - |
| 7 | - | - | - | - |





| Section: | AUG::PTE::002 |
|--------------|--------------------|
| Description: | Parallel Taxiway E |
| PaveType: | AC |
| Area: | 17,550 |
| Built: | 2/15/2011 |
| Age: | 8yr |

| InspPCI: | 100 |
|-----------------|---------------------|
| InspPCI Rating: | Good |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC RW-TW |
| NormalPCI: | 89 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре | |
|--------------|------|----------------|-----------------------|--|
| 1 | 2011 | 0.0 | new construction - ac | |
| 2 | - | - | - | |
| 3 | - | - | - | |
| 4 | - | - | - | |
| 5 | - | - | - | |
| 6 | - | - | - | |
| 7 | - | - | - | |
| 8 | - | - | - | |
| 9 | - | - | - | |
| 10 | - | - | - | |
| | | | | |

| Traffic/Load: | 0% | | |
|---------------|------|----------------|---|
| Age/Weather: | 100% | Total Samples: | 4 |
| Other: | 0% | Insp. Samples: | 3 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|-------------|----------|----------------|-------|
| 1 | #N/A | - | | 0 |
| 2 | - | - | - | - |
| 3 | - | - | - | - |
| 4 | = | - | - | - |
| 5 | - | - | = | - |
| 6 | - | - | x=: | - |
| 7 | | - | = | - |
| 8 | - | - | - | - |
| 9 | - | - | - | - |
| 10 | - | - | - | - |
| 11 | - | - | - | - |
| 12 | - | - | - | - |
| 13 | - | - | - | - |
| 14 | - | - | 8-0 | - |
| 15 | - | - | - | - |
| 16 | - | - | 8 - 0 | - |
| 17 | - | - | - | - |
| 18 | - | - | 1. - -1 | - |
| 19 | - | - | = | - |
| 20 | - | - | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------|-----------------|-----------|------------|
| Major | - | - | - | - |
| Minor | - | - | - | - |
| 1 | - | - | - | - |
| 2 | -, | - | - | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | - | - | - | - |
| 7 | - | - | - | - |





| Section: | AUG::PTE::003 |
|--------------|--------------------|
| Description: | Parallel Taxiway E |
| PaveType: | AC |
| Area: | 35,550 |
| Built: | 2/15/2002 |
| Age: | 17yr |

| InspPCI: | 56 |
|-----------------|---------------------|
| InspPCI Rating: | Fair |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC RW-TW |
| NormalPCI: | 74 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре | |
|--------------|------|----------------|-----------------------|--|
| 1 | 2002 | 0.0 | new construction - ac | |
| 2 | - | - | - | |
| 3 | - | - | - | |
| 4 | - | - | - | |
| 5 | - | - | - | |
| 6 | - | - | - | |
| 7 | - | - | - | |
| 8 | - | - | - | |
| 9 | - | - | - | |
| 10 | - | - | - | |
| | | | | |

| Traffic/Load: | 14% | | |
|---------------|-----|----------------|---|
| Age/Weather: | 86% | Total Samples: | 8 |
| Other: | 0% | Insp. Samples: | 4 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|-------------|----------|----------|-------|
| 1 | alligator | 13 | medium | SqFt |
| 2 | block | 2,222 | low | SqFt |
| 3 | depression | 27 | low | SqFt |
| 4 | I & t crack | 7,210 | low | Ft |
| 5 | I & t crack | 127 | medium | Ft |
| 6 | weathering | 33,106 | low | SqFt |
| 7 | weathering | 667 | medium | SqFt |
| 8 | - | - | - | - |
| 9 | - | - | × | - |
| 10 | - | - | - | - |
| 11 | - | - | - | - |
| 12 | - | - | - | - |
| 13 | - | - | - | - |
| 14 | - | - | - | - |
| 15 | - | - | - | - |
| 16 | - | - | - | - |
| 17 | - | - | - | - |
| 18 | - | | - | - |
| 19 | - | - | - | - |
| 20 | - | - | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------------------|-----------------|-----------|------------|
| Major | Major M&R | 2020 | 725,208 | 100 |
| Minor | All Minor | 2020 | 1,176 | 58 |
| 1 | Patching - AC Deep | 32 SqFt | 595 | - |
| 2 | Surface Seal | 666 SqFt | 407 | - |
| 3 | Crack Sealing - AC | 127 Ft | 175 | - |
| 4 | - | - | - | - |
| 5 | - | æ | - | - |
| 6 | - | - | - | - |
| 7 | - | - | - | - |





| Section: | AUG::PTE::004 |
|--------------|--------------------|
| Description: | Parallel Taxiway E |
| PaveType: | AC |
| Area: | 5,350 |
| Built: | 2/15/2002 |
| Age: | 17yr |

| InspPCI: | 53 |
|-----------------|---------------------|
| InspPCI Rating: | Poor |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC RW-TW |
| NormalPCI: | 74 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре | |
|--------------|------|----------------|-----------------------|--|
| 1 | 2002 | 0.0 | new construction - ac | |
| 2 | - | - | - | |
| 3 | - | = | - | |
| 4 | - | - | - | |
| 5 | - | - | - | |
| 6 | - | - | - | |
| 7 | - | - | - | |
| 8 | - | - | - | |
| 9 | - | | - | |
| 10 | - | - | - | |
| | | | | |

| Traffic/Load: | 0% | | |
|---------------|------|----------------|---|
| Age/Weather: | 100% | Total Samples: | 2 |
| Other: | 0% | Insp. Samples: | 2 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|--|----------|----------|-------|
| 1 | I & t crack | 459 | low | Ft |
| 2 | I & t crack | 479 | medium | Ft |
| 3 | I & t crack | 6 | high | Ft |
| 4 | weathering | 4,094 | low | SqFt |
| 5 | . | - | - | - |
| 6 | - | - | - | - |
| 7 | त्त्वं | - | - | - |
| 8 | - | - | - | - |
| 9 | | - | - | - |
| 10 | - | - | - | - |
| 11 | | - | - | - |
| 12 | - | - | - | - |
| 13 | Hereit and the second s | - | - | - |
| 14 | - | - | - | - |
| 15 | | - | - | - |
| 16 | - | - | - | - |
| 17 | - | - | - | Ξ. |
| 18 | - | - | - | - |
| 19 | = | - | - | - |
| 20 | - | - | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------------------|-----------------|-----------|------------|
| Major | Major M&R | 2020 | 109,138 | 100 |
| Minor | All Minor | 2020 | 669 | 61 |
| 1 | Crack Sealing - AC | 485 Ft | 669 | - |
| 2 | - | - | - | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | . | - | - | - |
| 6 | - | - | - | - |
| 7 | - | - | - | - |





| Section: | AUG::RPA::001 |
|--------------|---------------|
| Description: | Run Up Area |
| PaveType: | AC |
| Area: | 15,200 |
| Built: | 1/15/1993 |
| Age: | 26yr |

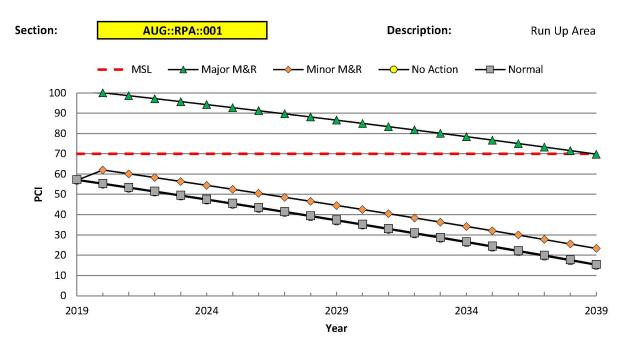
| InspPCI: | 57 |
|-----------------|---------------------|
| InspPCI Rating: | Fair |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC RW-TW |
| NormalPCI: | 57 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре |
|--------------|------|----------------|---------------------------------------|
| 1 | 1993 | 0.0 | new construction - ac |
| 2 | 1993 | 4.0 | surface course - ac (layer construct) |
| 3 | 1993 | 6.0 | base course - aggregate |
| 4 | 1993 | 37.0 | subbase - stabilized |
| 5 | - | - | - |
| 6 | - | - | - |
| 7 | - | - | - |
| 8 | - | - | - |
| 9 | - | - | - |
| 10 | - | - | - |
| | | | |

| Traffic/Load: | 0% | | |
|---------------|------|----------------|---|
| Age/Weather: | 100% | Total Samples: | 5 |
| Other: | 0% | Insp. Samples: | 4 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|---------------|----------|----------|-------|
| 1 | l & t crack | 2,339 | low | Ft |
| 2 | I & t crack | 59 | medium | Ft |
| 3 | weathering | 13,071 | low | SqFt |
| 4 | weathering | 1,107 | medium | SqFt |
| 5 | - | - | - | - |
| 6 | | - | - | - |
| 7 | - | - | - | - |
| 8 | - | - | - | - |
| 9 | i | - | - | - |
| 10 | - | - | - | - |
| 11 | | - | - | - |
| 12 | - | - | - | - |
| 13 | | - | - | - |
| 14 | - | - | - | - |
| 15 | | - | - | - |
| 16 | - | - | - | - |
| 17 | | - | - | - |
| 18 | - | - | - | - |
| 19 | Ξ. | - | - | - |
| 20 | - | | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------------------|-----------------|-----------|------------|
| Major | Major M&R | 2020 | 310,075 | 100 |
| Minor | All Minor | 2020 | 757 | 62 |
| 1 | Surface Seal | 1107 SqFt | 675 | - |
| 2 | Crack Sealing - AC | 59 Ft | 81 | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | - | . | - | - |
| 6 | - | - | - | - |
| 7 | - | - | - | - |





| Section: | AUG::RY826::001 |
|--------------|-----------------|
| Description: | Runway 8-26 |
| PaveType: | AC |
| Area: | 23,650 |
| Built: | 2/15/2011 |
| Age: | 8yr |

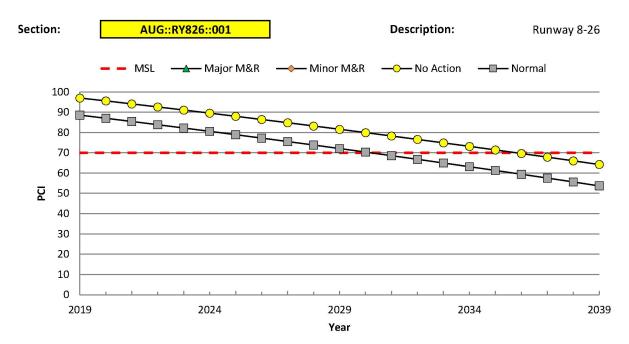
| InspPCI: | 97 |
|-----------------|---------------------|
| InspPCI Rating: | Good |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC RW-TW |
| NormalPCI: | 89 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре |
|--------------|------|----------------|---------------------------------------|
| 1 | 2011 | 0.0 | new construction - ac |
| 2 | 2011 | 4.0 | surface course - ac (layer construct) |
| 3 | 2011 | 12.0 | base course - aggregate |
| 4 | 2011 | 25.0 | subbase - aggregate |
| 5 | - | | - |
| 6 | - | - | - |
| 7 | - | | - |
| 8 | - | - | - |
| 9 | - | H | - |
| 10 | - | - | - |
| | | | |

| Traffic/Load: | 0% | | |
|---------------|------|----------------|---|
| Age/Weather: | 100% | Total Samples: | 7 |
| Other: | 0% | Insp. Samples: | 4 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|---------------|----------|----------|-------|
| 1 | l & t crack | 95 | low | Ft |
| 2 | ÷. | - | - | - |
| 3 | - | - | - | - |
| 4 | =. | - | | - |
| 5 | - | - | - | - |
| 6 | - | = | - | - |
| 7 | . | - | - | - |
| 8 | - | - | - | - |
| 9 | . | - | - | - |
| 10 | - | - | - | - |
| 11 | - | - | - | - |
| 12 | - | - | - | - |
| 13 | - | - | - | - |
| 14 | - | - | - | - |
| 15 | - | - | - | - |
| 16 | - | - | - | - |
| 17 | - | - | - | - |
| 18 | - | | - | - |
| 19 | - | - | - | - |
| 20 | - | - | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------|-----------------|-----------|------------|
| Major | - | - | - | - |
| Minor | - | - | - | - |
| 1 | - | - | - | - |
| 2 | - | - | .=: | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | - | | - | - |
| 6 | - | - | - | - |
| 7 | =. | - | - | |





| Section: | AUG::RY826::002 |
|--------------|-----------------|
| Description: | Runway 8-26 |
| PaveType: | AC |
| Area: | 165,400 |
| Built: | 1/15/2002 |
| Age: | 17yr |

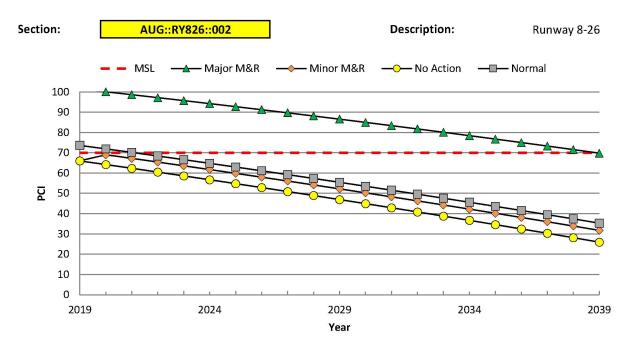
| InspPCI: | 66 |
|-----------------|---------------------|
| InspPCI Rating: | Fair |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC RW-TW |
| NormalPCI: | 74 |
| MSL: | 70 |

| Work History Year Thickness (in) Type | |
|--|--|
| 1 2002 0.0 overlay - ac | |
| 2 2002 3.0 surface course - ac (layer construct) | |
| 3 2002 12.0 base course - aggregate | |
| 4 2002 24.0 subbase - aggregate | |
| 5 1997 0.0 crack sealing - ac | |
| 6 1994 0.0 crack sealing - ac | |
| 7 1992 0.0 crack sealing - ac | |
| 8 1992 0.0 surface treatment - slurry seal | |
| 9 | |
| 10 | |

| Traffic/Load: | 18% | | |
|---------------|-----|----------------|----|
| Age/Weather: | 82% | Total Samples: | 44 |
| Other: | 0% | Insp. Samples: | 7 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|---------------|----------|----------|-------|
| 1 | alligator | 82 | medium | SqFt |
| 2 | l & t crack | 17,378 | low | Ft |
| 3 | I & t crack | 775 | medium | Ft |
| 4 | I & t crack | 50 | high | Ft |
| 5 | weathering | 114,677 | low | SqFt |
| 6 | weathering | 1,575 | medium | SqFt |
| 7 | - | - | × | - |
| 8 | - | - | - | - |
| 9 | - | - | - | - |
| 10 | - | - | - | - |
| 11 | - | - | - | - |
| 12 | - | - | - | - |
| 13 | - | - | - | - |
| 14 | - | = | - | - |
| 15 | - | - | - | - |
| 16 | - | = | - | - |
| 17 | . | - | - | - |
| 18 | - | - | - | - |
| 19 | - | - | - | - |
| 20 | - | - | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------------------|-----------------|-----------|------------|
| Major | Major M&R | 2020 | 454,838 | 100 |
| Minor | All Minor | 2020 | 4,373 | 69 |
| 1 | Patching - AC Deep | 123 SqFt | 2,273 | - |
| 2 | Crack Sealing - AC | 825 Ft | 1,139 | - |
| 3 | Surface Seal | 1575 SqFt | 961 | - |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | - | - | - | - |
| 7 | - | - | - | - |





| Section: | AUG::RY1735::001 | | |
|--------------|------------------|--|--|
| Description: | Runway 17-35 | | |
| PaveType: | AC | | |
| Area: | 500,350 | | |
| Built: | 1/15/2011 | | |
| Age: | 8yr | | |

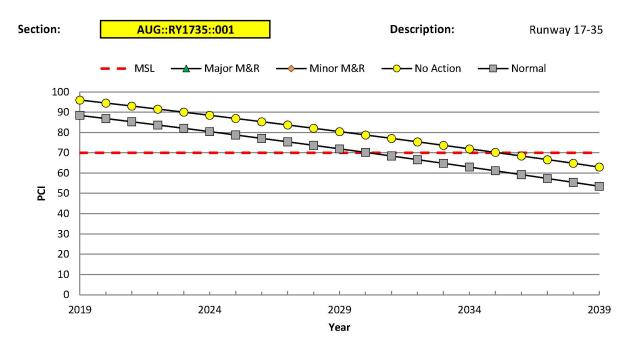
| InspPCI: | 96 |
|-----------------|---------------------|
| InspPCI Rating: | Good |
| InspDate: | 10/30/2018 |
| PCI Family: | 2019 MAINE AC RW-TW |
| NormalPCI: | 88 |
| MSL: | 70 |

| Work History | Year | Thickness (in) | Туре |
|--------------|------|----------------|---------------------------------------|
| 1 | 2016 | 0.0 | crack sealing - ac |
| 2 | 2011 | 0.0 | complete reconstruction - ac |
| 3 | 2011 | 4.0 | surface course - ac (layer construct) |
| 4 | 2011 | 12.0 | base course - aggregate |
| 5 | 2011 | 25.0 | subbase - aggregate |
| 6 | - | - | - |
| 7 | - | - | - |
| 8 | - | - | - |
| 9 | - | - | - |
| 10 | - | - | - |
| | | | |

| Traffic/Load: | 0% | | |
|---------------|------|----------------|-----|
| Age/Weather: | 100% | Total Samples: | 100 |
| Other: | 0% | Insp. Samples: | 12 |

| Extrapolated Distress: | Туре | Quantity | Severity | Units |
|------------------------|-------------|----------|----------|-------|
| 1 | l & t crack | 3,269 | low | Ft |
| 2 | - | - | - | = |
| 3 | - | - | - | - |
| 4 | =, | - | | - |
| 5 | - | - | - | - |
| 6 | -, | = | - | - |
| 7 | | - | - | - |
| 8 | - | - | - | - |
| 9 | - | - | Ξ. | - |
| 10 | - | - | - | - |
| 11 | - | - | Η. | Ξ. |
| 12 | - | - | - | - |
| 13 | - | - | - | - |
| 14 | - | - | - | - |
| 15 | - | - | - | - |
| 16 | - | - | - | - |
| 17 | - | - | - | - |
| 18 | - | = | - | - |
| 19 | - | - | - | - |
| 20 | - | - | - | - |





| M&R | Action | Year / Quantity | Cost (\$) | Ending PCI |
|-------|--------|-----------------|-----------|------------|
| Major | - | - | - | - |
| Minor | = | - | - | - |
| 1 | - | - | - | - |
| 2 | - | - | - | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | - | - | - | - |
| 7 | =. | - | - | - |





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Appendix C: PCI Distress Report



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Re-Inspection Report

| Maine_M. Generated | UP_2019_11_18_3 | 11 | (10/0010 | | | | | | | | Page 1 of 20 |
|-----------------------|----------------------------|----------------------------|--------------|--------------------------|--|-----------|-----------|-----|---------------|--------------|--------------|
| Network: | | 11/ | /19/2019 | Nan | ne: Augusta | State Air | port | | | | |
| Branch: | APA | | Name: | Apron A | 2010 A control de la control d | Use: | APRON | A | .rea: | 61,800 SqFt | |
| Section: | 001 | of 1 | F | From: a | | | To: b | | | Last Const.: | 1/15/1993 |
| Surface: | AC F | `amily: 2 01 -TL | | AC APRON Zon | ie: | | Category: | | | Rank: P | |
| Area: | 61,800 \$ | SqFt | Length: | 300 F | Ft Wi | dth: | 200 Ft | 25 | | | |
| Slabs: | 5 | Slab Length: | | Ft | Slab Width: | | Ft | | Joint Length: | : Ft | j |
| Shoulder: | : 5 | Street Type: | | | Grade: 0 | | | | Lanes: 0 | | |
| Section Co | Comments: | | | | | | | | | | |
| Last Insp. | D. Date: 10/30/2018 | | TotalSa | amples: 12 | | Surveyed | 1: 5 | | | | -08 |
| Condition | ns: PCI: 58 | | | | | | | | | | |
| Inspection | n Comments: emuls | tion on half the | e section go | od cs | | | | | | | |
| Sample N | umber: 100 | Type: | R | Area: | 5000.00 | SqFt | PCI: | 62 | | | |
| Sample Co | Comments: | | | | | | | | | | |
| | & T CR | | L | 848.00 Ft | | | | | | | |
| | EATHERING | | L | 4800.00 SqFt | | | | | | | |
| 1 | EATHERING | | M | 100.00 SqFt | (250.00 | 0 . TV | DCI | (2) | | | |
| | Number: 102 Comments: | Туре: | R | Area: | 6250.00 | Sqrt | PCI: | 62 | | | |
| 823 | & T CR | 2019 | L | 1299.00 Ft | | | | | | | |
| | & T CR | | M | 35.00 Ft | | | | | | | |
| Sample N | Sumber: 201 | Type: | R | Area: | 5000.00 | SqFt | PCI: | 50 | | | 24 |
| Sample C | Comments: pic 03 | ,54 | | | | | | | | | |
| 41 AL | LLIGATOR CR | 200 | L | 5.00 SqFt | | | | | | | |
| | & T CR | | L | 1205.00 Ft | | | | | | | |
| | & T CR | | M L | 22.00 Ft | | | | | | | |
| - | WELLING Number: 300 | 225 | R | 105.00 SqFt | 5000.00 | CaEt | PCI: | 56 | | | |
| • | Comments: | Type: | ĸ | Area: | 5000.00 | Sqrt | ru. | 00 | | | |
| 1000 C | | | | | | | | | | | |
| | & T CR | | L | 1059.00 Ft | | | | | | | |
| | & T CR 'EATHERING | | M L | 10.00 Ft 4900.00 SqFt | | | | | | | |
| 1 | Sumber: 500 | Туре: | R | Area: | 5000.00 | SaFt | PCI: | 57 | | | |
| Sample Co | | тур». | ix. | | | Ծաւ | ut Mau | 51 | | | |
| 48 L& | & T CR | я́ , | L | 1073.00 Ft | | | | | | | |
| | & T CR | | M | 5.00 Ft | | | | | | | |
| | EATHERING | | L | 4800.00 SqFt | | | | | | | |
| | | | | | | | | | | | |

| Netwo | ork: AUG | | | Name: | Augusta State Ai | rport | | | |
|----------|--------------------------------|-----------------|-----------------|------------------------|------------------|-------------|-------|-------------|----------------|
| Branc | h: APB | | Name: | Apron B | Use: | APRON | Area: | 265,850 SqF | řt. |
| Sectio | n: 001 | of 3 | 5 | From: a | | To: b | | Last Co | nst.: 1/15/197 |
| Surfac | ce: AC | |)19 MAIN 'LN | IE AC APRON Zone: | | Category: | | Rank: | Р |
| Area: | 159,2 | 250 SqFt | Lengt | h: 770 Ft | Width: | 200 Ft | | | |
| Slabs: | | Slab Length | : | Ft Slab | Width: | Ft | Joint | t Length: | Ft |
| Should | der: | Street Type | 8 | Grad | le: 0 | | Lane | es: 0 | |
| Section | n Comments: | | | | | | | | |
| Last I | nsp. Date: 10/30/20 | 018 | Tot | alSamples: 34 | Surveye | d: 7 | | | |
| Condi | tions: PCI: 54 | | | | | | | | |
| Inspec | ction Comments: | | | | | | | | |
| Sampl | le Number: 104 | Type: | R | Area: | 4000.00 SqFt | PCI: | 48 | | |
| Sampl | le Comments: pi | ic 0364 0365 | | | | | | | |
| 41 | ALLIGATOR CR | | М | 22.00 SqFt | | | | | |
| 48 | L & T CR | | L | 196.00 Ft | | | | | |
| 48 | L & T CR | | Μ | 349.00 Ft | | | | | |
| 50 | PATCHING | | L | 750.00 SqFt | | | | | |
| | le Number: 200 | Type: | R | Area: | 5000.00 SqFt | PCI: | 54 | | |
| Sampl | le Comments: | | | | | | | | |
| 43 | BLOCK CR | | М | 1250.00 SqFt | | | | | |
| 48 | L & T CR | | L | 97.00 Ft | | | | | |
| 48 | L & T CR | | М | 405.00 Ft | | | | | |
| | le Number: 203 le Comments: | Туре: | R | Агеа: | 5000.00 SqFt | PCI: | 57 | | |
| | | | - | | | | | | |
| 48 48 | L & T CR L & T CR | | L M | 260.00 Ft 557.00 Ft | | | | | |
| - 586.8 | le Number: 205 | Туре: | R | Area: | 5000.00 SqFt | PCI: | 50 | | |
| - | le Comments: | ryhe: | Л | AICa. | 5000.00 Syrt | rui: | 50 | | |
| | | | 12121 | | | | | | |
| 43 | BLOCK CR | | M | 1000.00 SqFt | | | | | |
| 48 48 | L & T CR L & T CR | | L M | 272.00 Ft 378.00 Ft | | | | | |
| 50 | PATCHING | | L | 20.00 SqFt | | | | | |
| Sampl | le Number: 301 | Туре: | R | Area: | 5000.00 SqFt | PCI: | 51 | | |
| Sampl | le Comments: | | | | | | | | |
| 43 | BLOCK CR | | М | 2200.00 SqFt | | | | | |
| 48 | L & T CR | | L | 116.00 Ft | | | | | |
| 48 | L & T CR | | М | 170.00 Ft | | | | | |
| Sampl | le Number: 302 | Type: | R | Area: | 5000.00 SqFt | PCI: | 57 | | |
| Sampl | le Comments: | | | | | | | | |
| 48 | L & T CR | | L | 342.00 Ft | | | | | |
| 48 | L & T CR | | М | 546.00 Ft | | | | | |
| Sampl | le Number: 306 | Туре: | R | Area: | 5000.00 SqFt | PCI: | 58 | | |
| Sampl | le Comments: pi | ic 0363 old emi | ulsion no v | vearhering | | | | | |
| 48 | L & T CR | | L | 323.00 Ft | | | | | |
| 48 | L&TCR L&TCR | | L M | 529.00 Ft | | | | | |

| | | Name: | Augusta State Air | port | | | |
|--|--|---|------------------------------|-----------|---------|--------|-----------------------|
| Branch: APB | Nan | ne: Apron B | Use: | APRON | Area: | 20 | 65,850 SqFt |
| Section: 002 | of 3 | From: a | | To: b | | | Last Const.: 1/15/197 |
| Surface: AC | Family: 2019 MA -TLN | AINE AC APRON Zone: | | Category: | | | Rank: P |
| Area: 49,750 |) SqFt Lei | ngth: 400 Ft | Width: | 150 Ft | | | |
| Slabs: | Slab Length: | Ft SI | ab Width: | Ft | Joint I | ength: | Ft |
| Shoulder: | Street Type: | G | rade: 0 | | Lanes: | 0 | |
| Section Comments: | | | | | | | |
| Last Insp. Date: 10/30/2018 | 8 Т | otalSamples: 10 | Surveye | d: 5 | | | |
| Conditions: PCI: 63 | | | | | | | |
| Inspection Comments: good | d cs | | | | | | |
| Sample Number: 100 | Type: R | Area: | 5000.00 SqFt | PCI: | 72 | | |
| Sample Comments: | 1.100 | | | | | | |
| 48 L & T CR | L | 324.00 Ft | | | | | |
| 49 OIL SPILLAGE | Ν | 5.00 SqFt | | | | | |
| 57 WEATHERING | L | 4500.00 SqFt | | | | | |
| 57 WEATHERING | М | 200.00 SqFt | | | | | |
| Sample Number: 102 | Type: R | Area: | 5000.00 SqFt | PCI: 0 | 65 | | |
| C | | | | | | | |
| Sample Comments: | | | | | | | |
| 48 L&TCR | L | 559.00 Ft | | | | | |
| 48 L & T CR57 WEATHERING | \mathbf{L} | 4400.00 SqFt | | | | | |
| 48 L & T CR57 WEATHERING57 WEATHERING | L M | 4400.00 SqFt 500.00 SqFt | | | | | |
| 48 L & T CR 57 WEATHERING 57 WEATHERING Sample Number: 201 | L M Type: R | 4400.00 SqFt 500.00 SqFt | 5000.00 SqFt | PCI: (| 54 | | |
| 48 L & T CR 57 WEATHERING 57 WEATHERING Sample Number: 201 | L M | 4400.00 SqFt 500.00 SqFt | 5000.00 SqFt | PCI: 0 | 54 | | |
| 48 L & T CR 57 WEATHERING 57 WEATHERING Sample Number: 201 Sample Comments: pic 6 48 L & T CR | L M Type: R 0361 L | 4400.00 SqFt 500.00 SqFt Area: 632.00 Ft | 5000.00 SqFt | PCI: 0 | 54 | | |
| 48 L & T CR 57 WEATHERING 57 WEATHERING Sample Number: 201 Sample Comments: pic 0 48 L & T CR 57 WEATHERING | L M 7ype: R 0361 L L | 4400.00 SqFt 500.00 SqFt Area: 632.00 Ft 4500.00 SqFt | 5000.00 SqFt | PCI: 0 | 54 | | |
| 48 L & T CR 57 WEATHERING 57 WEATHERING 58 Number: 201 Sample Comments: pic 0 48 L & T CR 57 WEATHERING 57 WEATHERING | L M 7ype: R 0361 L L M | 4400.00 SqFt 500.00 SqFt Area: 632.00 Ft 4500.00 SqFt 400.00 SqFt | | | | | |
| 48L & T CR57WEATHERING57WEATHERING57WEATHERINGSample Comments:48L & T CR57WEATHERING57WEATHERING57WEATHERING57WEATHERING58Sample Number:203203 | L M 30361 L L M 7ype: R | 4400.00 SqFt 500.00 SqFt Area: 632.00 Ft 4500.00 SqFt 400.00 SqFt | 5000.00 SqFt 4500.00 SqFt | PCI: 0 | | | |
| 48L & T CR57WEATHERING57WEATHERING57WEATHERINGSample Comments:48L & T CR57WEATHERING57WEATHERING57WEATHERING57WEATHERING58Sample Number:203203 | L M 7ype: R 0361 L L M | 4400.00 SqFt 500.00 SqFt Area: 632.00 Ft 4500.00 SqFt 400.00 SqFt | | | | | |
| 48 L & T CR 57 WEATHERING 57 WEATHERING 57 WEATHERING Sample Number: 201 Sample Comments: pic 0 48 L & T CR 57 WEATHERING 58 L & COMMENT: 203 Sample Comments: 41 ALLIGATOR CR | L M 30361 L L M 7ype: R 0362 M | 4400.00 SqFt 500.00 SqFt Area: 632.00 Ft 4500.00 SqFt 400.00 SqFt Area: 64.00 SqFt | | | | | |
| 48 L & T CR 57 WEATHERING 57 WEATHERING 57 WEATHERING Sample Number: 201 48 L & T CR 57 WEATHERING 57 WEATHERING 57 WEATHERING 57 WEATHERING Sample Number: 203 Sample Comments: pic 0 41 ALLIGATOR CR 48 L & T CR | L M 30361 L L M 20362 R 0362 M L | 4400.00 SqFt 500.00 SqFt Area: 632.00 Ft 4500.00 SqFt 400.00 SqFt 400.00 SqFt 64.00 SqFt 619.00 Ft | | | | | |
| 48 L & T CR 57 WEATHERING 57 WEATHERING 57 WEATHERING Sample Number: 201 Sample Comments: pic 0 48 L & T CR 57 WEATHERING 57 WEATHERING 57 WEATHERING 57 WEATHERING 57 WEATHERING 58 L & T CR 58 L & T CR 41 ALLIGATOR CR 48 L & T CR 57 WEATHERING | L M 30361 L L M 20362 N L L L L | 4400.00 SqFt 500.00 SqFt Area: 632.00 Ft 4500.00 SqFt 400.00 SqFt 400.00 SqFt 64.00 SqFt 619.00 Ft 4100.00 SqFt | | | | | |
| 48 L & T CR 57 WEATHERING 57 WEATHERING 57 WEATHERING Sample Comments: pic 0 48 L & T CR 57 WEATHERING 41 ALLIGATOR CR 48 L & T CR 57 WEATHERING 57 WEATHERING 57 WEATHERING 57 WEATHERING 57 WEATHERING | L M 3361 Type: R L L M 30362 M L L M M L L M | 4400.00 SqFt 500.00 SqFt 632.00 Ft 4500.00 SqFt 400.00 SqFt 400.00 SqFt 619.00 Ft 4100.00 SqFt 200.00 SqFt | 4500.00 SqFt | PCI: 5 | 54 | | |
| 48 L & T CR 57 WEATHERING 57 WEATHERING 58 Weathering Sample Number: 201 48 L & T CR 57 WEATHERING 57 WEATHERING 57 WEATHERING 57 WEATHERING 57 WEATHERING 58 L & T CR 58 L & T CR 41 ALLIGATOR CR 48 L & T CR 57 WEATHERING | L M 30361 30361 30362 30 30 30 30 30 30 30 30 30 30 30 30 30 | 4400.00 SqFt 500.00 SqFt 632.00 Ft 4500.00 SqFt 400.00 SqFt 400.00 SqFt 619.00 Ft 4100.00 SqFt 200.00 SqFt | | | 54 | | |
| 48 L & T CR 57 WEATHERING 57 WEATHERING 57 WEATHERING Sample Comments: pic 0 48 L & T CR 57 WEATHERING 57 WEATHERING 57 WEATHERING 57 WEATHERING 58ample Number: 203 Sample Comments: pic 0 41 ALLIGATOR CR 48 L & T CR 57 WEATHERING 58 L & T CR 59 WEATHERING 50 Sample Comments: couple 59 Kample Comments: couple 50 Sample Comments: couple 50 Samp | L M Type: R 0361 Type: R 0362 M L L M M Type: R M S M R M S M S M S M S M S M S M S M | 4400.00 SqFt 500.00 SqFt 632.00 Ft 4500.00 SqFt 400.00 SqFt 400.00 SqFt 619.00 Ft 4100.00 SqFt 200.00 SqFt 200.00 SqFt | 4500.00 SqFt | PCI: 5 | 54 | | |
| 48 L & T CR 57 WEATHERING 57 WEATHERING 57 WEATHERING Sample Comments: pic 0 48 L & T CR 57 WEATHERING 57 WEATHERING 57 WEATHERING 57 WEATHERING 58ample Number: 203 Sample Comments: pic 0 41 ALLIGATOR CR 48 L & T CR 57 WEATHERING 58 L & T CR 48 L & T CR | L M 30361 Type: R L M 20362 M L M M 20362 R M L R M M L L M M 20362 L | 4400.00 SqFt 500.00 SqFt 632.00 Ft 4500.00 SqFt 400.00 SqFt 400.00 SqFt 619.00 Ft 4100.00 SqFt 200.00 SqFt 200.00 SqFt 200.00 SqFt 196.00 Ft | 4500.00 SqFt | PCI: 5 | 54 | | |
| 48 L & T CR 57 WEATHERING 57 WEATHERING 57 WEATHERING Sample Comments: pic 0 48 L & T CR 57 WEATHERING 57 WEATHERING 57 WEATHERING 57 WEATHERING 58ample Number: 203 Sample Comments: pic 0 41 ALLIGATOR CR 48 L & T CR 57 WEATHERING 58 L & T CR 59 WEATHERING 50 Sample Comments: couple 59 Kample Comments: couple 50 Sample Comments: couple 50 Samp | L M Type: R 0361 Type: R 0362 M L L M M Type: R M S M R M S M S M S M S M S M S M S M | 4400.00 SqFt 500.00 SqFt 632.00 Ft 4500.00 SqFt 400.00 SqFt 400.00 SqFt 619.00 Ft 4100.00 SqFt 200.00 SqFt 200.00 SqFt | 4500.00 SqFt | PCI: 5 | 54 | | |

| Netwo | ork: AUG | | | | Nar | ne: Augus | ta State Airp | port | | | | | | |
|----------|--------------------------------|------------------|---------------|-------------------|----------------|-------------|---------------|-------|--------|------|------------|------|--------------|----------|
| Branc | ch: APB | | Name: | Apron I | 3 | | Use: | APRON | 1 | A | rea: | 20 | 65,850 SqFt | |
| Sectio | n: 003 | of 3 | 1 | From: a | 6 | | | To: | b | | | | Last Const.: | 1/15/198 |
| Surfac | ce: AC I | | 19 MAIN LN | E AC APRON | Zon | e: | | Cat | egory: | | | | Rank: P | |
| Area: | 56,850 | | Length | 1: | 450 I | 't N | Vidth: | | 150 Ft | | | | | |
| Slabs: | | Slab Length | : | Ft | | Slab Width: | | Ft | | | Joint Leng | gth: | Ft | 1 |
| Should | der: | Street Type: | | | | Grade: 0 | | | | | Lanes: | 0 | | |
| Sectio | | oe a little olde | | er sections | | | | | | | | | | |
| Last I | nsp. Date: 10/30/2018 | | Tota | ISamples: 1 | 0 | | Surveyed | : 5 | | | | | | |
| Condi | tions: PCI: 12 | | | | | | | | | | | | | |
| Inspec | ction Comments: | | | | | | | | | | | | | |
| Sampl | le Number: 504 | Туре: | R | A | rea: | 3000.0 | 0 SqFt | | PCI: | 18 | | | | |
| Sampl | le Comments: | | | | | | | | | | | | | |
| 41 | ALLIGATOR CR | | М | 1500.00 | SqFt | | | | | | | | | |
| 57 | WEATHERING | | L | 2500.00 | SqFt | | | | | | | | | |
| Sampl | le Number: 602 | Туре: | R | Aı | rea: | 5000.0 | 0 SqFt | | PCI: | 5 | | | | |
| Sampl | le Comments: pics | 0368 0367 03 | 66 | | | | | | | | | | | |
| 41 | ALLIGATOR CR | | М | 3500.00 | SqFt | | | | | | | | | |
| 41 | ALLIGATOR CR | | н | 300.00 | | | | | | | | | | |
| 57 | WEATHERING | 10%0 | L | 4900.00 | | | | | | 9415 | | | | |
| 120 | le Number: 604 | Type: | R | Ai | rea: | 5000.0 | 0 SqFt | | PCI: | 8 | | | | |
| Sampl | le Comments: | | | | | | | | | | | | | |
| 41 | ALLIGATOR CR | | М | 4500.00 | | | | | | | | | | |
| 53 | RUTTING | | L | 100.00 | | | | | | | | | | |
| 57 | WEATHERING | T | L | 4900.00 | 275 | 5000.0 | 0.0-74 | | DOL | 0 | | | | |
| | le Number: 605 le Comments: | Туре: | R | Al | rea: | 5000.0 | 0 SqFt | | PCI: | 9 | | | | |
| 250 | | | N | 3500.00 | 0 - T4 | | | | | | | | | |
| 41 50 | ALLIGATOR CR PATCHING | | M H | 3500.00 150.00 | and the second | | | | | | | | | |
| 53 | RUTTING | | L | 20.00 | 1000 | | | | | | | | | |
| 57 | WEATHERING | | L | 4900.00 | | | | | | | | | | |
| Sampl | le Number: 803 | Туре: | R | Ai | rea: | 5000.0 | 0 SqFt | | PCI: | 23 | | | | |
| Sampl | le Comments: | | | | | | | | | | | | | |
| 41 | ALLIGATOR CR | | М | 1100.00 | SqFt | | | | | | | | | |
| 48 | L & T CR | | Μ | 200.00 | Ft | | | | | | | | | |
| 57 | WEATHERING | | L | 4800.00 | SaFt | | | | | | | | | |

| Netwo | ork: Al | JG | | | | Name: | Aug | usta State Ai | rport | | | | | | |
|--------|------------|-----------|--------------|---------------|------------|------------|-----------|---------------|-------------|-------|----|----------|--------|--------------|-----------|
| Branc | h: C | F | | Name: | Connec | ting Taxiv | way F | Use: | TAXIW | ΆY | ŝ | Area: | | 18,950 SqFt | |
| Sectio | n: 001 | | of 1 | | From: a | 6 | | | To: | b | | | | Last Const.: | 1/15/2011 |
| Surfac | ce: AC | | Family: 20 |) 19 MAINE | AC RW-TW | Zone: | | | Cate | gory: | | | | Rank: P | |
| Area: | | 18,95 | i0 SqFt | Length: | | 450 Ft | | Width: | | 40 Fi | 8 | | | | |
| Slabs: | | | Slab Length | | Ft | SI | ab Width: | | Ft | | | Joint Le | ength: | F | ťt |
| Should | der: | | Street Type: | | | G | rade: 0 | | | | | Lanes: | 0 | | |
| Sectio | n Commen | ts: | | | | | | | | | | | | | |
| Last I | nsp. Date: | 10/30/201 | 8 | Total | Samples: 5 | | | Surveye | d: 4 | | | | | | |
| Condi | tions: P | CI: 66 | | | | | | | | | | | | | |
| Inspec | tion Comr | nents: | | | | | | | | | | | | | |
| Sampl | le Number | 101 | Туре: | R | A | rea: | 4000 |).00 SqFt | | PCI: | 67 | | | | |
| Sampl | le Commer | its: pic | 0360 | | | | | | | | | | | | |
| 48 | L & T CR | | | L | 399.00 | Ft | | | | | | | | | |
| 48 | L & T CR | | | М | 8.00 | Ft | | | | | | | | | |
| 57 | WEATHE | RING | | L | 3900.00 | SqFt | | | | | | | | | |
| Sampl | le Number | 102 | Type: | R | A | rea: | 4000 |).00 SqFt | | PCI: | 70 | | | | |
| Sampl | le Commer | its: | | | | | | | | | | | | | |
| 48 | L & T CR | | | L | 439.00 | Ft | | | | | | | | | |
| 57 | WEATHE | RING | | L | 3900.00 | SqFt | | | | | | | | | |
| Sampl | le Number | 103 | Туре: | R | A | rea: | 4000 |).00 SqFt | | PCI: | 66 | | | | |
| Sampl | le Commer | its: | | | | | | | | | | | | | |
| 48 | L&TCR | | | L | 334.00 | Ft | | | | | | | | | |
| 48 | L & T CR | | | М | 11.00 | Ft | | | | | | | | | |
| 57 | WEATHE | RING | | L | 3700.00 | SqFt | | | | | | | | | |
| 57 | WEATHE | RING | | Μ | 200.00 | SqFt | | | | | | | | | |
| Sampl | le Number | 104 | Type: | R | Aı | rea: | 4000 | 0.00 SqFt | | PCI: | 63 | | | | |
| Sampl | le Commer | its: | | | | | | | | | | | | | |
| 48 | L & T CR | | | L | 362.00 | Ft | | | | | | | | | |
| 48 | L & T CR | | | М | 15.00 | Ft | | | | | | | | | |
| 48 | L & T CR | | | Н | 3.00 | Ft | | | | | | | | | |
| 57 | WEATHE | RING | | L | 3550.00 | SqFt | | | | | | | | | |
| 57 | WEATHE | RING | | М | 350.00 | _ | | | | | | | | | |

| Networl | k: AUG | | | | | | Nam | ie: | Augus | sta State Ai | rport | | | | | | | |
|----------|-------------|----------|-------------|-------|---------|----------|-----------|----------|--------|--------------|-------|--------|----|-------|--------|-------|--------------|----------|
| Branch: | СТВ | | | N | ame: | Conne | ecting Ta | axiway B | | Use: | TAXIW | ΆY | | Area: | | 2 | 47,100 SqFt | |
| Section: | 001 | | of 2 | 2 | F | 'rom: | a | | | | To: | b | | | | | Last Const.: | 1/15/201 |
| Surface | : AC | Fa | amily: 20 | 019 N | MAINE A | AC RW-TV | V Zone | e: | | | Cate | egory: | Ν | | | | Rank: P | |
| Area: | | 33,800 S | SqFt | I | .ength: | | 775 Fi | t | | Width: | | 40 Ft | | | | | | |
| Slabs: | | S | lab Length | 1: | | Ft | | Slab Wid | lth: | | Ft | | | Join | nt Lei | ngth: | F | `t |
| Shoulde | r: | S | street Type | | | | | Grade: | 0 | | | | | Lan | les: | 0 | | |
| Section | Comments: | | | | | | | | | | | | | | | | | |
| Last Ins | p. Date: 10 | /30/2018 | | | TotalSa | amples: | 9 | | | Surveye | d: 4 | | | | | | | |
| Conditio | ons: PCI: | 88 | | | | | | | | | | | | | | | | |
| Inspecti | on Comment | s: | | | | | | | | | | | | | | | | |
| | Number: 1 | | Type: | | R | | Area: | | 5000 (| 00 SqFt | | PCI: | 86 | | | | | |
| | Comments: | pic 034 | 0404 | | | 1 | ii cu. | | 5000. | oo bqr t | | 101. | 00 | | | | | |
| | | pie ob | | | | | | | | | | | | | | | | |
| | 2 & T CR | | | L | | 43.00 | | | | | | | | | | | | |
| | 2 & T CR | ~ | | М | | 3.00 | | | | | | | | | | | | |
| | WEATHERIN | | | L | - | 3000.00 | 2772 | | | | | DOT | | | | | | |
| | Number: 1 | | Type: | | R | Į | Area: | | 4000.0 | 00 SqFt | | PCI: | 87 | | | | | |
| Sample | Comments: | pic 034 | 45 | | | | | | | | | | | | | | | |
| 48 I | 2 & T CR | | | L | | 62.00 | Ft | | | | | | | | | | | |
| 48 I | . & T CR | | | Μ | | 18.00 | Ft | | | | | | | | | | | |
| Sample | Number: 1 |)7 | Type: | | R | I | Area: | | 4000.0 | 00 SqFt | | PCI: | 91 | | | | | |
| Sample | Comments: | | | | | | | | | | | | | | | | | |
| 48 I | 2 & T CR | | | L | | 12.00 | Ft | | | | | | | | | | | |
| 57 V | WEATHERIN | G | | L | | 3500.00 | SqFt | | | | | | | | | | | |
| Sample | Number: 1 |)8 | Type: | | R | l | Area: | | 4000.0 | 00 SqFt | | PCI: | 87 | | | | | |
| Sample | Comments: | | | | | | | | | | | | | | | | | |
| 48 I | . & T CR | | | L | | 88.00 | Ft | | | | | | | | | | | |
| | VEATHERIN | 1122 | | L | | 3500.00 | ~ ~ | | | | | | | | | | | |

| Network: | AUG | | | | Name: | Augusta State Ai | irport | | | | |
|---|------------------|---------------|----------|-----------------|---------------|------------------|---------|----------------|--------------|--------------|------------|
| Branch: | CTB | | Name | : Connect | ing Taxiway B | Use: | TAXIW | AY | Area: | 47,100 SqFt | |
| Section: | 002 | Ċ | of 2 | From: a | | | To: | b | | Last Const.: | 10/30/2012 |
| Surface: | AC | Family: | 2019 MAI | NE AC RW-TW | Zone: | | Cate | gory: N | | Rank: P | |
| Area: | | 13,300 SqFt | Leng | th: | 250 Ft | Width: | | 40 Ft | | | |
| Slabs: | | Slab Le | ngth: | Ft | Slab Wi | dth: | Ft | | Joint Length | r: F | t |
| Shoulder: | | Street T | ype: | | Grade: | 0 | | | Lanes: 0 | | |
| Section Co | | same as runwa | - | n 100408 2.5 TC | | 5465 | 23 1952 | | | | |
| Last Insp. | Date: 10, | /11/2018 | То | talSamples: 2 | | Surveye | ed: 2 | | | | |
| Conditions | S: PCI: | 97 | | | | | | | | | |
| Inspection | Comment | s: | | | | | | | | | |
| Sample Nu | mber: 10 | 00 Ty | pe: R | Are | ea: | 5000.00 SqFt | | PCI: 100 |) | | |
| Sample Co | omments: | pic 0343 | | | | | | | | | |
| <no distre<="" td=""><td>ss></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></no> | ss> | | | | | | | | | | |
| Sample Nu | umber: 10 | 01 Ty | pe: R | Are | ea: | 5000.00 SqFt | | PCI: 94 | | | |
| Sample Co | omments: | | | | | | | | | | |
| 48 L& | T CR | | L | 66.00 F | 4 | | | | | | |

| Network: | AUG | | | Na | me: Aug | usta State Ai: | rport | | | | |
|---------------------|--|---------------------------|-----------|-------------------------|-------------|----------------|--------|---------|--------------|--------------|-----------|
| Branch: | CTC1 | | Name: | Connecting Ta | axiway C1 | Use: | TAXIWA | Υ | Area: | 12,050 SqFt | |
| Section: | 001 | of | f 1 | From: a | | | To: | b | | Last Const.: | 1/15/2011 |
| Surface: | AC | Family: | 2019 MAIN | EACRW-TW ZO | ne: | | Categ | ory: N | | Rank: P | |
| Area: | | 12,050 SqFt | Length | 18 0 (| Ft | Width: | | 55 Ft | | | |
| Slabs: | | Slab Len | gth: | Ft | Slab Width: | | Ft | | Joint Length | :: Ft | |
| Shoulder: | | Street Ty | /pe: | | Grade: 0 | | | | Lanes: 0 | | |
| Section Co | omments: | | | | | | | | | | |
| Last Insp. | Date: 10/ | 30/2018 | Tota | ISamples: 2 | | Surveye | d: 2 | | | | |
| Conditions | s: PCI: | 94 | | | | | | | | | |
| Inspection | Comments | s: | | | | | | | | | |
| Sample Nr | umber: 10 | 0 Тур | e: R | Area: | 6050 |).00 SqFt | I | PCI: 96 | | | |
| | and a state of the | | | | | | | | | | |
| Sample Co | omments: | | | | | | | | | | |
| Sample Co 48 L & | er CR | | L | 20.00 Ft | | | | | | | |
| 48 L& | | 91 Ty p | | 20.00 Ft Area: | 2600 |).00 SqFt | 1 | PCI: 89 | | | |
| 48 L& | ε T CR umber: 10 | 01 Typ pic 0339 | | 1969-1967-196 - 19 - 19 | 2600 |).00 SqFt | 1 | PCI: 89 | | | |

| Network: | AUG | | | | Name: | Augusta State Ai | rport | | | | | |
|---|------------|----------------|-----------|--------------|--------------|------------------|-------|----------|----------|-------|-------------|-----------|
| Branch: | СТС | | Name: | Connectir | ng Taxiway C | Use: | TAXIW | VAY | Area: | 10,40 | 00 SqFt | |
| Section: | 001 | 0 | f 1 | From: a | | | To: | b | | Ι | ast Const.: | 2/15/2011 |
| Surface: | AC | Family: | 2019 MAIN | E AC RW-TW | Zone: | | Cate | egory: N | -12 | F | Rank: P | |
| Area: | | 10,400 SqFt | Lengt | h: : | 180 Ft | Width: | | 50 Ft | | | | |
| Slabs: | | Slab Len | igth: | Ft | Slab Wi | dth: | Ft | | Joint Le | ngth: | F | t |
| Shoulder: | | Street T | ype: | | Grade: | 0 | | | Lanes: | 0 | | |
| Section Co | omments: | | | | | | | | | | | |
| Last Insp. | Date: 10/ | /30/2018 | Tot | alSamples: 2 | | Surveye | ed: 2 | | | | | |
| Condition | s: PCI: | 98 | | | | | | | | | | |
| Inspection | 1 Comments | s: | | | | | | | | | | |
| Sample N | umber: 10 | 00 Ty j | pe: R | Are | ea: | 6050.00 SqFt | | PCI: 1 | 100 | | | |
| Sample Co | omments: | | | | | | | | | | | |
| <no distre<="" td=""><td>ess></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></no> | ess> | | | | | | | | | | | |
| Sample N | umber: 10 |)1 Ty | pe: R | Are | ea: | 4325.00 SqFt | | PCI: 9 | 95 | | | |
| Sample Co | omments: | pic 0337 | | | | | | | | | | |
| 48 L& | & T CR | | L | 35.00 F | t | | | | | | | |

| Network: AUG | | Name: | : Augusta State Airp | ort | | |
|----------------------------|--------------------|------------------|---|-----------------|---------------|------------------------|
| Branch: PTC | Name: | Parallel Taxiway | y C Use: | TAXIWAY | Area: | 154,300 SqFt |
| Section: 001 | of 3 | From: a | | To: b | | Last Const.: 1/15/1993 |
| Surface: AC | Family: 2019 MAINE | AC RW-TW Zone: | | Category: N | | Rank: P |
| Area: 104,650 | 0 SqFt Length: | 2,545 Ft | Width: | 40 Ft | | |
| Slabs: | Slab Length: | Ft S | Slab Width: | Ft | Joint Length: | Ft |
| Shoulder: | Street Type: | G | Grade: 0 | | Lanes: 0 | |
| Section Comments: | | | | | | |
| Last Insp. Date: 10/11/201 | 8 Totals | Samples: 31 | Surveyed | : 6 | | |
| Conditions: PCI: 90 | | | | | | |
| Inspection Comments: | | | | | | |
| Sample Number: 101 | Type: R | Area: | 4000.00 SqFt | PCI: 89 | | <u>`</u> |
| Sample Comments: | 1999 - | | - | | | |
| 48 L & T CR | L | 38.00 Ft | | | | |
| 57 WEATHERING | L | 3500.00 SqFt | | | | |
| Sample Number: 104 | Type: R | Area: | 4000.00 SqFt | PCI: 90 | | |
| Sample Comments: | | | | | | |
| 48 L & T CR | L | 21.00 Ft | | | | |
| 57 WEATHERING | L | 3500.00 SqFt | | | | |
| Sample Number: 108 | Type: R | Area: | 4000.00 SqFt | PCI: 92 | | |
| Sample Comments: | | | | | | |
| 48 L & T CR | L | 2.00 Ft | | | | |
| 57 WEATHERING | L | 3000.00 SqFt | AND TALL APPLICATE FOR THE STATE | 2012 NO 101 NOV | | |
| Sample Number: 113 | Type: R | Area: | 4000.00 SqFt | PCI: 90 | | |
| Sample Comments: | | | | | | |
| 48 L & T CR | L | 13.00 Ft | | | | |
| 57 WEATHERING | L | 4000.00 SqFt | and dopped project of the second s | | | |
| Sample Number: 118 | Type: R | Area: | 4000.00 SqFt | PCI: 91 | | |
| Sample Comments: | | | | | | |
| 48 L & T CR | L | 9.00 Ft | | | | |
| 57 WEATHERING | L | 3900.00 SqFt | augustation and acc | 22 | | |
| Sample Number: 122 | Type: R | Area: | 4000.00 SqFt | PCI: 89 | | |
| Sample Comments: | | | | | | |
| 48 L & T CR | L | 35.00 Ft | | | | |
| 57 WEATHERING | L | 3900.00 SqFt | | | | |

| Network: | AUG | | | N | ame: A | ugusta State | Airport | | | | | | |
|------------------------|--------------------|--|-----------|----------------------|------------|--------------|---------|-------|----|----------|-------|--------------|----------|
| Branch: | PTC | | Name | Parallel Tax | kiway C | Use | TAXIWA | ĄΥ | Ar | ea: | 15 | 54,300 SqFt | |
| Section: | 002 | of | 3 | From: a | | | To: | b | | | | Last Const.: | 1/15/199 |
| Surface: | AC | Family: 2 | 019 MAI | NE AC RW-TW Z | one: | | Categ | ory: | | | | Rank: P | |
| Area: | 27 | 7,250 SqFt | Leng | gth: 1,000 | Ft | Width: | | 40 Ft | | | | | |
| Slabs: | | Slab Lengtl | n: | Ft | Slab Widtl | : | Ft | | | Joint Le | ngth: | F | ť |
| Shoulder: | | Street Type | | | Grade: | 0 | | | | Lanes: | 0 | | |
| | omments: | and an exception of the second se | | | | | | | | | | | |
| | | 2010 | - | | | | | | | | | | |
| 177 1790 - 1904/199 | . Date: 10/30/ | | 10 | talSamples: 6 | | Surve | yed: 5 | | | | | | |
| Condition | is: PCI: 5 | 9 | | | | | | | | | | | |
| Inspection | n Comments: | | | | | | | | | | | | |
| Sample N | umber: 127 | Туре: | R | Area: | 40 | 00.00 SqFt | 0 | PCI: | 63 | | | | |
| Sample C | omments: | | | | | | | | | | | | |
| 48 L a | & T CR | | L | 757.00 Ft | | | | | | | | | |
| | & T CR | | L | 23.00 Ft | | | | | | | | | |
| | EATHERING | | L | 3900.00 SqFt | 5 | | | | | | | | |
| Sample N | umber: 128 | Туре: | R | Area: | 40 | 00.00 SqFt | 1 | PCI: | 59 | | | | |
| Sample C | omments: | pic 0340 good es | 8 | | | | | | | | | | |
| | & T CR | | L | 733.00 Ft | | | | | | | | | |
| | & T CR | | M | 6.00 Ft | | | | | | | | | |
| | EATHERING | | L | 3900.00 SqFt | : | | | | | | | | |
| Sample N | umber: 129 | Туре: | R | Area: | 4(| 00.00 SqFt |] | PCI: | 56 | | | | |
| Sample C | omments: | | | | | 200 | | | | | | | |
| | & T CR | | L | 942.00 Ft | | | | | | | | | |
| | & T CR & T CR | | L M | 942.00 Ft 3.00 Ft | | | | | | | | | |
| | EATHERING | | L | 3900.00 SqFt | Į. | | | | | | | | |
| Sample N | umber: 132 | Туре: | R | Area: | 40 | 00.00 SqFt | | PCI: | 54 | | | | |
| 132 | omments: | | | | | 5.10 C | | | | | | | |
| 48 La | & T CR | | L | 990.00 Ft | | | | | | | | | |
| | & T CR | | M | 8.00 Ft | | | | | | | | | |
| | EATHERING | | L | 3900.00 SqFt | i | | | | | | | | |
| an is some | umber: 134 | Туре: | R | Area: | 40 | 00.00 SqFt | | PCI: | 61 | | | | |
| Sample N | | 0.610 | | | | 1544 | | | | | | | |
| 283 | omments: | | | | | | | | | | | | |
| Sample C | omments: & T CR | | L | 849.00 Ft | | | | | | | | | |

| Network: A | UG | | | Nan | ne: Augus | ta State Air | rport | | | | |
|-----------------------|-----------|--------------------------|---------|----------------|-------------|--------------|-------------|-----|-------------|--------------|-----------|
| Branch: P | ТС | | Name: | Parallel Taxiv | vav C | Use: | TAXIWAY | Are | a: | 154,300 SqFt | |
| Section: 003 | | of 4 | | From: a | | | To: b | | | Last Const.: | 2/15/2011 |
| Surface: AC | | Family: ³ _ 1 | 9 MAINI | EACRW-TW Zon | e: | | Category: | N | | Rank: P | |
| Area: | 22,40 | 0 SqFt | Length | : 1,000 H | rt V | Vidth: | 40 F | t | | | |
| Slabs: | | Slab Length: | | Ft | Slab Width: | | Ft | | Joint Lengt | h: Ft | |
| Shoulder: | | Street Type: | | | Grade: 0 | | | | Lanes: | Э | |
| Section Comme | nts: | | | | | | | | | | |
| Last Insp. Date: | 10/30/201 | 18 | Total | Samples: 4 | | Surveye | d: 4 | | | | |
| Conditions: | PCI: 97 | | | | | | | | | | |
| Inspection Com | ments: | | | | | | | | | | |
| Sample Number | r: 137 | Type: | R | Area: | 4500.0 | 0 SqFt | PCI: | 96 | | | |
| Sample Comme | nts: | | | | | | | | | | |
| 48 L & T CI | ર | Ι | | 15.00 Ft | | | | | | | |
| Sample Number | r: 138 | Type: | R | Area: | 5000.0 | 0 SqFt | PCI: | 96 | | | |
| Sample Comme | nts: | | | | | | | | | | |
| 48 L & T CI | ર | I | 45 | 34.00 Ft | | | | | | | |
| Sample Number | r: 139 | Type: | R | Area: | 5000.0 | 0 SqFt | PCI: | 100 | | | |
| Sample Comme | nts: | | | | | | | | | | |
| <no distress=""></no> | | | | | | | | | | | |
| Sample Number | r: 140 | Type: | R | Area: | 5000.0 | 0 SqFt | PCI: | 97 | | | |
| Sample Comme | nts: pic | 0341 | | | | | | | | | |
| 48 L & T CI | ર | I | 1 | 6.00 Ft | | | | | | | |

| Network: AUG | | | Name: | Augusta State Ai | rport | | |
|------------------------|--------------|-------------|--------------------|------------------|-------------|--------------|------------------------|
| Branch: PTE | | Name: | Parallel Taxiway E | Use: | TAXIWAY | Area: | 69,350 SqFt |
| Section: 001 | of 4 | Fr | om: a | | To: b | | Last Const.: 1/15/2018 |
| Surface: AC | Family: 20 | 19 MAINE AG | CRW-TW Zone: | | Category: N | | Rank: P |
| Area: | 0,900 SqFt | Length: | 300 Ft | Width: | 40 Ft | | |
| Slabs: | Slab Length | | Ft Slab | Width: | Ft | Joint Length | : Ft |
| Shoulder: | Street Type: | | Grae | de: 0 | | Lanes: 0 | |
| Section Comments: | | | | | | | |
| Last Insp. Date: 10/30 |)/2018 | TotalSan | nples: 3 | Surveye | ed: 3 | | |
| Conditions: PCI: | 100 | | | | | | |
| Inspection Comments: | | | | | | | |
| Sample Number: 100 | Type: | R | Area: | 4000.00 SqFt | PCI: 1 | 00 | |
| Sample Comments: | pic 0346 | | | | | | |
| <no distress=""></no> | | | | | | | |
| Sample Number: 101 | Туре: | R | Area: | 4000.00 SqFt | PCI: 1 | 00 | |
| Sample Comments: | | | | | | | |
| <no distress=""></no> | | | | | | | |
| Sample Number: 102 | Туре: | R | Area: | 2000.00 SqFt | PCI: 1 | 00 | |
| Sample Comments: | | | | | | | |
| | | | | | | | |

<No Distress>

| Network: AUG | | | Name: | Augusta State Ai | rport | | |
|-----------------------|----------------|--------------|--------------------|------------------|---------------|--------------|------------------------|
| Branch: PTE | | Name: | Parallel Taxiway E | Use: | TAXIWAY | Area: | 69,350 SqFt |
| Section: 002 | of | f 4 🛛 F1 | om: a | | To: b | | Last Const.: 2/15/2011 |
| Surface: AC | Family: | 2019 MAINE A | CRW-TW Zone: | | Category: N | | Rank: P |
| Area: | 17,550 SqFt | Length: | 425 Ft | Width: | 40 Ft | | |
| Slabs: | Slab Len | gth: | Ft Slab | Width: | Ft | Joint Length | Ft |
| Shoulder: | Street Ty | /pe: | Gra | de: 0 | | Lanes: 0 | |
| Section Comments: | | | | | | | |
| Last Insp. Date: 10/ | /30/2018 | TotalSa | mples: 4 | Surveye | ed: 3 | | |
| Conditions: PCI: | 100 | | | | | | |
| Inspection Comments | s: | | | | | | |
| Sample Number: 10 | 02 Typ | e: R | Area: | 2000.00 SqFt | PCI: 1 | 00 | |
| Sample Comments: | pic 0355 | | | | | | |
| <no distress=""></no> | | | | | | | |
| Sample Number: 10 |) 3 Typ | e: R | Area: | 4000.00 SqFt | PCI: 1 | 00 | |
| Sample Comments: | | | | | | | |
| <no distress=""></no> | | | | | | | |
| Sample Number: 10 | 05 Тур | e: R | Area: | 4000.00 SqFt | PCI: 1 | 00 | |
| Sample Comments: | | | | | | | |
| | | | | | | | |

<No Distress>

| Netwo | ork: AUG | | | | Name: | Augusta State Ai | rport | | | |
|----------|--------------------------|-------------|---------|--------------------|--------------|------------------|-------------|----|---------------|------------------------|
| Branc | ch: PTE | | Name: | Parallel | Taxiway | E Use: | TAXIWAY | | Area: | 69,350 SqFt |
| Sectio | on: 003 | of 4 | | From: a | 8 | | To: b | | | Last Const.: 2/15/2002 |
| Surfa | ce: AC Fa | mily: 2019 | 9 MAINE | AC RW-TW | Zone: | | Category | | | Rank: P |
| Area: | 35,550 Se | qFt | Length: | | 800 Ft | Width: | 40 | Ft | | |
| Slabs: | S | ab Length: | | Ft | S | ab Width: | Ft | | Joint Length: | Ft |
| Shoul | der: S | reet Type: | | | G | rade: 0 | | | Lanes: 0 | |
| Sectio | on Comments: | | | | | | | | | |
| Last I | insp. Date: 10/30/2018 | | TotalS | amples: 8 | | Surveye | d: 4 | | | |
| Condi | itions: PCI: 56 | | | | | | | | | |
| Inspe | ction Comments: | | | | | | | | | |
| Samp | le Number: 108 | Type: | R | Aı | rea: | 4000.00 SqFt | PCI | 63 | | |
| Samp | le Comments: | a naga sa k | | | | - | | | | |
| 48 | L & T CR | I | , | 655.00 | Ft | | | | | |
| 57 | WEATHERING | I | • | 3800.00 | | | | | | |
| 57 | WEATHERING | Ν | Л | 50.00 | SqFt | | | | | |
| Samp | le Number: 110 | Type: | R | A | rea: | 4000.00 SqFt | PCI | 54 | | |
| Samp | le Comments: pic 035 | 6 | | | | | | | | |
| 48 | L & T CR | I | | 824.00 | Ft | | | | | |
| 48 | L & T CR | Ν | | 3.00 | | | | | | |
| 57 57 | WEATHERING WEATHERING | L N | | 3600.00 250.00 | | | | | | |
| | le Number: 111 | Туре: | R | | rea: | 4000.00 SqFt | DCI | 58 | | |
| | | rype. | ĸ | A | ca. | 4000.00 5414 | ICI | 58 | | |
| Samp | le Comments: | | | | | | | | | |
| 48 | L & T CR | L | | 22.00 | | | | | | |
| 48 57 | L & T CR WEATHERING | I I | | 1032.00 3900.00 | | | | | | |
| 20120 | le Number: 113 | Туре: | , R | | rea: | 4000.00 SqFt | PCI | 47 | | |
| 100 | le Comments: pic 035 | | | | | | | | | |
| 100 | 2 | | | (00 | 0T. | | | | | |
| 41 43 | ALLIGATOR CR BLOCK CR | N L | | 6.00 1000.00 | SqFt SqFt | | | | | |
| 45 | DEPRESSION | L | | 12.00 | | | | | | |
| 48 | L & T CR | L | | 712.00 | | | | | | |
| 48 | L & T CR | N | | 54.00 | | | | | | |
| 57 | WEATHERING | I | | 3600.00 | | | | | | |

| Network: | AUG | | | Na | ame: Aug | usta State Ai | rport | | | | | |
|------------|------------|---------------|------------|---------------|-------------|---------------|--------|--------|---------|--------|--------------|-----------|
| Branch: | PTE | | Name: | Parallel Taxi | way E | Use: | TAXIWA | ĄΥ | Area: | | 69,350 SqFt | |
| Section: | 004 | of | f 4 I | From: a | | | To: | b | | | Last Const.: | 2/15/2002 |
| Surface: | AC | Family: | 2019 MAINE | ACRW-TW Zo | one: | | Categ | gory: | | | Rank: P | |
| Area: | | 5,350 SqFt | Length: | 65 | Ft | Width: | 5 | 858 Ft | | | | |
| Slabs: | | Slab Len | gth: | Ft | Slab Width: | | Ft | | Joint L | ength: | F | ţ |
| Shoulder: | | Street Ty | /pe: | | Grade: 0 | | | | Lanes: | 0 | | |
| Section Co | omments: | | | | | | | | | | | |
| Last Insp. | Date: 10/3 | 0/2018 | TotalS | amples: 2 | | Surveye | d: 2 | | | | | |
| Conditions | s: PCI: | 53 | | | | | | | | | | |
| Inspection | Comments: | | | | | | | | | | | |
| Sample Nı | umber: 114 | Тур | e: R | Area: | 4000 | 0.00 SqFt | 1 | PCI: | 53 | | | |
| Sample Co | omments: | pic 0358 0359 | | | | | | | | | | |
| 48 L& | & T CR | | L | 338.00 Ft | | | | | | | | |
| 48 L& | δT CR | | Μ | 426.00 Ft | | | | | | | | |
| 57 WE | EATHERING | | L | 2000.00 SqFt | | | | | | | | |
| Sample Nı | umber: 115 | б Тур | e: R | Area: | 5800 | .00 SqFt | 8 | PCI: | 53 | | | |
| Sample Co | omments: | | | | | | | | | | | |
| 48 L& | ET CR | | L | 502.00 Ft | | | | | | | | |
| 48 L& | & T CR | | М | 451.00 Ft | | | | | | | | |
| 48 L& | & T CR | | н | 11.00 Ft | | | | | | | | |
| 57 WE | EATHERING | | L | 5500.00 SqFt | | | | | | | | |

| Surface: AC Family: 2019 MAINE AC RW-TW Zone: Category: Rank: P | |
|---|-------------|
| Surface:ACFamily:2019 MAINE AC RW-TWZone:Category:Rank:P | |
| • • • • • • • • • • | : 1/15/1993 |
| | |
| Area: 15,200 SqFt Length: 180 Ft Width: 80 Ft | |
| Slabs: Slab Length: Ft Slab Width: Ft Joint Length: | Ft |
| Shoulder: Street Type: Grade: 0 Lanes: 0 | |
| Section Comments: | |
| Last Insp. Date: 10/30/2018 TotalSamples: 5 Surveyed: 4 | |
| Conditions: PCI: 57 | |
| Inspection Comments: | |
| Sample Number: 233 Type: R Area: 2870.00 SqFt PCI: 60 | |
| | |
| Sample Comments: | |
| 48 L&TCR L 353.00 Ft | |
| 48 L & T CR M 13.00 Ft | |
| 57 WEATHERING L 2400.00 SqFt | |
| 57 WEATHERING M 200.00 SqFt | |
| Sample Number:234Type:RArea:3500.00 SqFtPCI:57 | |
| Sample Comments: pic 0342 | |
| 48 L&TCR L 574.00 Ft | |
| 48 L & T CR M 12.00 Ft | |
| 57 WEATHERING L 3000.00 SqFt | |
| 57 WEATHERING M 150.00 SqFt | |
| Sample Number: 333Type:RArea:3050.00 SqFtPCI:59 | |
| Sample Comments: | |
| 48 L&TCR L 377.00 Ft | |
| 48 L&TCR M 16.00 Ft | |
| 57 WEATHERING L 2500.00 SqFt | |
| 57 WEATHERING M 400.00 SqFt | |
| Sample Number: 334 Type: R Area: 5000.00 SqFt PCI: 55 | |
| Sample Comments: goog cs | |
| 48 L&TCR L 915.00 Ft | |
| 48 L&TCR M 15.00 Ft | |
| 57 WEATHERING L 4500.00 SqFt | |
| 57 WEATHERING M 300.00 SqFt | |

| Network: AUG | | | Name: | Augusta State Ai | port | | |
|--|--------------|----------|-------------------|------------------|-----------------|---------------|------------------------|
| Branch: RY1735 | | Name: | Runway 17-35 | Use: | RUNWAY A | Area: 5 | 00,350 SqFt |
| Section: 001 | of 1 | | From: a | | To: b | | Last Const.: 1/15/2011 |
| | • | | NE AC RW-TW Zone: | | Category: N | | Rank: P |
| Area: 500,350 : | | Leng | | Width: | 100 Ft | | |
| | Slab Length: | | | b Width: | Ft | Joint Length: | Ft |
| Shoulder: Section Comments: | Street Type: | | Gra | ide: 0 | | Lanes: 0 | |
| | | Tat | elComplex. 100 | Cumuran | 4. 10 | | |
| Last Insp. Date: 10/30/2018 Conditions: PCI: 96 | | 101 | alSamples: 100 | Surveye | u: 12 | | |
| Inspection Comments: | | | | | | | |
| | Trinoi | R | 4 1000 | 5000.00 S-Et | DCI: 05 | | |
| Sample Number: 103 Sample Comments: pic 03 | Type: | ĸ | Area: | 5000.00 SqFt | PCI: 95 | | |
| | | | | | | | |
| 48 L&TCR | | L | 50.00 Ft | 5000.00 0 0 | | | |
| Sample Number: 109 Sample Comments: pic 03 | Type: | R | Area: | 5000.00 SqFt | PCI: 96 | | |
| | | 570 | 89033001 (S. 2003 | | | | |
| 48 L & T CR | 32-03 | L | 16.00 Ft | 5000.00 7 7 | | | |
| Sample Number: 116 | Туре: | R | Area: | 5000.00 SqFt | PCI: 95 | | |
| Sample Comments: | | | | | | | |
| 48 L & T CR | | L | 50.00 Ft | | | | |
| Sample Number: 125 | Type: | R | Area: | 5000.00 SqFt | PCI: 100 | | |
| Sample Comments: | | | | | | | |
| <no distress=""></no> | 1000000 | wa 17 53 | 24 | | | | |
| Sample Number: 135 | Type: | R | Area: | 5000.00 SqFt | PCI: 96 | | |
| Sample Comments: | | | | | | | |
| 48 L & T CR | | L | 36.00 Ft | | | | |
| Sample Number: 145 | Type: | R | Area: | 5000.00 SqFt | PCI: 95 | | |
| Sample Comments: | | | | | | | |
| 48 L & T CR | | L | 49.00 Ft | | | | |
| Sample Number: 155 | Type: | R | Area: | 5000.00 SqFt | PCI: 96 | | |
| Sample Comments: | | | | | | | |
| 48 L & T CR | | L | 25.00 Ft | | | | |
| Sample Number: 165 | Type: | R | Area: | 5000.00 SqFt | PCI: 95 | | |
| Sample Comments: | | | | | | | |
| 48 L & T CR | | L | 59.00 Ft | | | | |
| Sample Number: 175 | Type: | R | Area: | 5000.00 SqFt | PCI: 95 | | |
| Sample Comments: | | | | | | | |
| 48 L & T CR | | L | 59.00 Ft | | | | |
| Sample Number: 185 | Type: | R | Area: | 5000.00 SqFt | PCI: 96 | | |
| Sample Comments: | | | | | | | |
| 48 L & T CR | | L | 19.00 Ft | | | | |
| Sample Number: 190 | Туре: | R | Area: | 5000.00 SqFt | PCI: 96 | | |
| Sample Comments: | | | | | | | |
| 48 L & T CR | | L | 29.00 Ft | | | | |
| Sample Number: 195 | Туре: | R | Area: | 5000.00 SqFt | PCI: 100 | | |
| Sample Comments: pic 03 | 36 | | | | | | |
| ample comments: prc 03 | 00 | | | | | | |

| Network: | AUG | | | | Nar | ne: Augi | ista State Air | rport | | | | | |
|--|----------|-------------|--------------|------------|-------------|----------------|----------------|-------------|-----|----------|--------|--------------|-----------|
| Branch: | RY826 | 5 | | Name: | Runway 8-26 | | Use: | RUNWAY | A | Area: | 1 | 89,050 SqFt | |
| Section: | 001 | | of 2 | I | From: a | | | To: b | | | | Last Const.: | 2/15/2011 |
| Surface: | AC | Famil | y: 20 | 19 MAINE A | ACRW-TW Zon | ie: | | Category | N | | | Rank: P | |
| Area: | | 23,650 SqFt | | Length: | 365 1 | ⁷ t | Width: | 75 . | Ft | | | | |
| Slabs: | | Slab | Length: | | Ft | Slab Width: | | Ft | | Joint Le | ength: | Ft | |
| Shoulder: | | Stree | et Type: | | | Grade: 0 | | | | Lanes: | 0 | | |
| Section Co | omments: | | | | | | | | | | | | |
| Last Insp. | Date: 10 | /30/2018 | | TotalS | amples: 7 | | Surveye | d: 4 | | | | | |
| Conditions | s: PCI: | 97 | | | | | | | | | | | |
| Inspection | Comment | s: | | | | | | | | | | | |
| Sample Nu | umber: 1 | 03 | Type: | R | Area: | 3750 | .00 SqFt | PCI | 95 | | | | |
| Sample Co | omments: | pics 0348 | 0349 | | | | | | | | | | |
| 48 L& | è T CR | | | L | 30.00 Ft | | | | | | | | |
| Sample Nu | umber: 1 | 04 | Type: | R | Area: | 3750 | .00 SqFt | PCI | 100 | | | | |
| Sample Co | omments: | | | | | | | | | | | | |
| <no distre<="" td=""><td>ess></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></no> | ess> | | | | | | | | | | | | |
| Sample Nu | umber: 1 | 08 | Type: | R | Area: | 3750 | .00 SqFt | PCI | 98 | | | | |
| Sample Co | omments: | | | | | | | | | | | | |
| 48 L& | ε T CR | | | L | 3.00 Ft | | | | | | | | |
| Sample Nu | umber: 1 | 09 | Type: | R | Area: | 3750 | .00 SqFt | PCI | 96 | | | | |
| Sample Co | omments: | | | | | | | | | | | | |
| 48 L& | ET CR | | | L | 27.00 Ft | | | | | | | | |

| Bran | | | | | Na | e | | | 14.0 | m.b.v. (9.7.2024) | | |
|--|---|----------------------|---------------------------------|--|--|------------------------------|---------|--------------|------|-------------------|--------------|----------|
| | | | 222.85 | entiti e se reciere de la construction de l | ay 8-26 | Use: | RUNWA | 4725 | Aı | rea: | 189,050 SqFt | |
| Secti | | of 2 | | From: | a | | To: | | | | Last Const.: | 1/15/200 |
| Surfa | ace: AC Fa | amily: 20 |)19 N | MAINE AC RW-T | W Zoi | ne: | Categ | ory: | | | Rank: P | |
| Area | : 165,400 S | SqFt | I | length: | 2,250 | Ft Width: | | 75 Ft | | | | |
| Slabs | s: S | lab Length | : | Ft | | Slab Width: | Ft | | | Joint Length: | : F | 't |
| Shou | lder: S | street Type | | | | Grade: 0 | | | | Lanes: 0 | | |
| Secti | on Comments: | | | | | | | | | | | |
| Last | Insp. Date: 10/30/2018 | | | TotalSamples: | 44 | Surveye | ed: 7 | | | | | |
| Conc | litions: PCI: 66 | | | | | | | | | | | |
| | ection Comments: edge c | racks with 1 | ned g | gators sometimes e | nough t | o call | | | | | | |
| Samı | ple Number: 101 | Туре: | | R | Area: | 3750.00 SqFt | | PCI: | 68 | | | |
| 1).= | ple Comments: pic 034 | | | | | - | | | | | | |
| 48 | L & T CR | | L | 323.00 | Ft | | | | | | | |
| 48 | L&TCR | | M | 30.00 | | | | | | | | |
| 57 | WEATHERING | | L | 800.00 | SqFt | | | | | | | |
| 57 | WEATHERING | | Μ | 150.00 | SqFt | | | | | | | |
| Samj | ple Number: 113 | Туре: | | R . | Area: | 3750.00 SqFt |] | PCI: | 66 | | | |
| Samj | ple Comments: | | | | | | | | | | | |
| 48 | L & T CR | | L | 472.00 | Ft | | | | | | | |
| 48 | L & T CR | | L | 5.00 | | | | | | | | |
| 57 | WEATHERING | | L | 3400.00 | | | | | | | | |
| 57 | WEATHERING | | Μ | 100.00 | _ | | | | | | | |
| | ple Number: 118 | Type: | | R . | Area: | 3750.00 SqFt | | PCI: | 61 | | | |
| Samj | ple Comments: pic 03: | 50 | | | | | | | | | | |
| 41 | ALLIGATOR CR | | Μ | 7.00 | SqFt | | | | | | | |
| 48 | L & T CR | | L | 393.00 | | | | | | | | |
| 48 | L & T CR | | M | 32.00 | | | | | | | | |
| 57 G | WEATHERING | | L | 3500.00 | - | | | DOI | | | | |
| | ple Number: 124 | Type: | | R | Area: | 3750.00 SqFt | | PCI: | 68 | | | |
| Samp | ple Comments: | | | | | | | | | | | |
| 48 | L & T CR | | L | 491.00 | Ft | | | | | | | |
| 40 | MEATHEDING | | 1.00 | 3500.00 | SqFt | | | | | | | |
| | WEATHERING | | L | tizante urbaregen az | | | | | | | | |
| 57 | ple Number: 132 | Туре: | L | Contraction and and and and and and and and and an | Area: | 3750.00 SqFt | in C | PCI: | 68 | | | |
| 57 Samj | | | L | ANALI, MARCER W | Area: | 3750.00 SqFt | 10 | PCI: | 68 | | | |
| 57 Samj Samj | ple Number: 132 ple Comments: pic 03: | | | R . | | 3750.00 SqFt | 1 | PCI: | 68 | | | |
| 57 Samj Samj 48 | ple Number: 132 | | L L M | ANALI, MARCER W | Ft | 3750.00 SqFt |] | PCI: | 68 | | | |
| 57 Samj Samj 48 48 | ple Number: 132 ple Comments: pic 03: L & T CR L & T CR L & T CR L & T CR | | L M H | R | Ft Ft Ft | 3750.00 SqFt | 1 | PCI: | 68 | | | |
| 57 Samj Samj 48 48 48 | ple Number: 132 ple Comments: pic 03: L & T CR L & T CR | 51 | L M | R 348.00 21.00 8.00 3500.00 | Ft Ft Ft | 3750.00 SqFt | | | | | | |
| 57 Samj Samj 48 48 48 57 Samj | ple Number: 132 ple Comments: pic 03: L & T CR L & T CR L & T CR L & T CR WEATHERING ple Number: 140 | | L M H | R 348.00 21.00 8.00 3500.00 | Ft Ft Ft | 3750.00 SqFt 3750.00 SqFt | | PCI: PCI: | | | | |
| 57 Samj Samj 48 48 48 57 Samj | ple Number: 132 ple Comments: pic 03: L & T CR L & T CR L & T CR U & T CR WEATHERING | 51 | L M H | R 348.00 21.00 8.00 3500.00 | Ft Ft Ft SqFt | | | | | | | |
| 57 Samj Samj 48 48 48 57 Samj Samj 48 | ple Number: 132 ple Comments: pic 03: L & T CR L & T CR L & T CR WEATHERING ple Number: 140 ple Comments: L & T CR | 51 | L M H L | R | Ft Ft SqFt Area: Ft | | | | | | | |
| 57 Samj 48 48 48 57 Samj Samj 48 48 | ple Number: 132 ple Comments: pic 03: L & T CR L & T CR L & T CR WEATHERING ple Number: 140 ple Comments: L & T CR L & T CR | 51 | L M L L M | R | Ft Ft SqFt Area: Ft Ft | | | | | | | |
| 57 Samj 48 48 48 57 Samj Samj 48 48 48 57 | ple Number: 132 ple Comments: pic 03: L & T CR L & T CR L & T CR WEATHERING ple Number: 140 ple Comments: L & T CR L & T CR L & T CR WEATHERING | 51 Туре: | L M H L | R 348.00 21.00 8.00 3500.00 R 324.00 27.00 3500.00 | Ft Ft SqFt Area: Ft Ft SqFt | 3750.00 SqFt | | PCI: | 69 | | | |
| 57 Samj Samj 48 48 48 57 Samj 48 48 57 Samj Samj | ple Number: 132 ple Comments: pic 03: L & T CR L & T CR L & T CR WEATHERING ple Number: 140 ple Comments: L & T CR L & T CR L & T CR U & T CR L & T CR H & T CR H & T CR L & T CR H | 51 Type: Type: | L M L L M | R 348.00 21.00 8.00 3500.00 R 324.00 27.00 3500.00 | Ft Ft SqFt Area: Ft Ft | | | | 69 | | | |
| 57 Samj 48 48 48 57 Samj 48 48 48 57 Samj 57 Samj | ple Number: 132 ple Comments: pic 03: L & T CR L & T CR L & T CR WEATHERING ple Number: 140 ple Comments: L & T CR L & T CR L & T CR WEATHERING ple Number: 146 ple Comments: pic 03: | 51 Туре: | L M L L L L | R 348.00 21.00 8.00 3500.00 R 324.00 27.00 3500.00 R | Ft Ft SqFt Area: Ft SqFt Area: | 3750.00 SqFt | | PCI: | 69 | | | |
| 57 Samj Samj 48 48 48 57 Samj 57 Samj 57 Samj 48 48 48 57 Samj 41 | ple Number: 132 ple Comments: pic 03: L & T CR L & T CR L & T CR WEATHERING ple Number: 140 ple Comments: L & T CR L & T CR L & T CR D & T CR H & T CR D | 51 Type: Type: | L M H L M L M | R 348.00 21.00 8.00 3500.00 R 324.00 27.00 3500.00 R 6.00 | Ft Ft SqFt Area: Ft Ft SqFt Area: | 3750.00 SqFt | | PCI: | 69 | | | |
| 57 Samj Samj 48 48 48 57 Samj 48 48 48 57 Samj Samj | ple Number: 132 ple Comments: pic 03: L & T CR L & T CR L & T CR WEATHERING ple Number: 140 ple Comments: L & T CR L & T CR L & T CR WEATHERING ple Number: 146 ple Comments: pic 03: | 51 Type: Type: | L M L L L L | R 348.00 21.00 8.00 3500.00 R 324.00 27.00 3500.00 R | Ft Ft SqFt Area: Ft SqFt Area: SqFt Ft | 3750.00 SqFt | | PCI: | 69 | | | |



Appendix D: Distress Identification



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This appendix lists and describes distress types most commonly identified during the PCI inspections of Maine airports. Note that the pictures provided in this appendix are for illustration purposes and do not necessarily reflect the conditions or pavements at this airport. Descriptions and measurement inspection criteria are provided herein.

Flexible (Asphalt) Pavement Distress

10022002 10-43 am

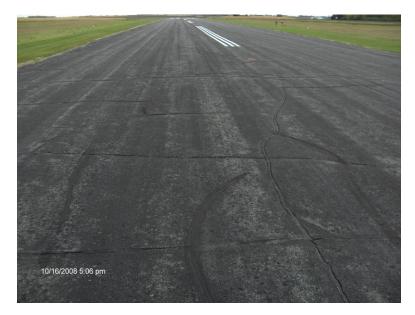
Example of Longitudinal and Transverse Cracking (L&T cracking)

Longitudinal and transverse cracks are caused by pavement aging, by construction, and by subsurface movement. Aging occurs as pavement loses some of its components to the atmosphere and becomes more brittle. Consistent application of pavement sealcoats can help to prevent the occurrence of age related cracks. Cracks will also develop along poorly constructed paving lane joints. Ensuring that joints are made when both sides are still hot, and near the same temperature, is one of the best ways to mitigate this potential problem. Seasonal movement caused by changes in moisture content or temperature differences can also cause pavement cracks. Asphalt pavement placed over a PCC pavement or cement stabilized base course may evidence reflective cracking from the underlying material. Longitudinal and transverse cracks are not caused by wheel loads, although traffic may worsen their condition.

Low severity longitudinal and transverse cracks are less than ¼ inch wide, or if sealed with suitable filler material in satisfactory condition can be any width, less than 3 inches, if they are not spalled. Maintenance usually is not indicated for low-severity cracking. Moderately spalled cracks and cracks wider than ¼ inch which are not satisfactorily sealed are at medium severity. Medium-severity cracks should be sealed with a high-quality crack filling material. Severely spalled cracks and cracks wider than 3 inches are at high severity. High-severity L&T cracks normally require patching.



Example of Block Cracking



Block cracking is longitudinal and transverse cracking that has established a pattern of blocks ranging in size from 1ft x 1ft to 10ft x 10ft. This distress typically happens in older asphalt pavements and is an indication that the bituminous binder has lost most of its flexibility. The severity determination is basically determined by the crack width criteria defined for longitudinal and transverse cracking. Crack sealing typically is used to repair block cracking; however, the amount of required sealant can be extensive due to the high density of cracks.

Example of Alligator Cracking



Alligator (or fatigue) cracks are a series of interconnected load-related cracks caused by fatigue of the asphalt surface. Alligator cracking is a significant structural distress and develops only in places subject to traffic loads. These cracks typically initiate at the bottom of the asphalt layer (where tensile strains



are highest) and propagate upward - so once a fatigue crack is visible, significant damage has already occurred.

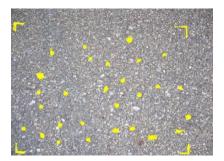
At low severity, alligator cracks are evidenced by a series of parallel hairline cracks (usually in a wheel path). Further traffic and deterioration leads to the interconnection of these cracks. Medium severity alligator cracking is a well-defined pattern of interconnected cracks, some spalling may be present. High severity alligator cracks have lost aggregate interlock between adjacent pieces, the cracks may be severely spalled with FOD potential, and most likely the pieces will move freely under traffic. Alligator cracking is a structural failure and cannot be repaired with sealant, the proper repair is full-depth patching.

Example of Raveling/Weathering



Raveling and weathering are the wearing away of the pavement surface. Raveling is the condition where the mid- to large size aggregates are becoming dislodged; weathering is when the fine aggregate wears away exposing the edges of the larger aggregate. These distresses are usually evident over large areas and may occur together (pictured above) or separately. Raveling and weathering may indicate that the asphalt binder has hardened significantly.

<u>Raveling</u> – At low severity, the number of missing coarse aggregates (> 3/8 inch) is between 5-20 missing/yd², medium severity (pictured below where the missing coarse aggregates have been dotted with yellow paint) is 21-40 missing/yd², and high severity is > 40 missing/yd².





<u>Weathering</u> – At low severity, the coarse aggregate is slightly exposed due to the wearing away of the fine aggregate. At medium severity, the coarse aggregate is exposed up to $\frac{1}{4}$ the width of the longest side. At high severity, the coarse is exposed greater than $\frac{1}{4}$ the width of the longest side.



Medium severity



High severity





Example of Patching



Patched areas are defined when a portion of the original pavement is replaced with a material intended as a semi-permanent repair. A patch is documented as a defect because it is considered a break in the integrity of the pavement structure. Patches are constructed for a variety of reasons including utility repairs, correcting grade issues, and addressing a defect in the original pavement. The severity level of patches is determined by the amount of distress (i.e. cracking, depression, weathering/raveling, etc.) occurring within the limits of the patched area.

Example of Rutting



Ruts are localized, load related, areas of pavement having elevations lower than the surrounding sections. Rutting is due to base and subgrade consolidation, caused by excessive wheel loads or poor compaction. Ruts indicate structural failure, and can cause hydroplaning. At low severity, ruts have an



average depth of ¼ to ½ inches. At medium severity, ruts have an average depth of ½ to 1 inch. High severity, ruts have an average depth greater than 1 inch. Full-depth patching is the appropriate repair for ruts.

Rigid (Concrete) Pavement Distress

Example of Longitudinal, Transverse, and Diagonal Cracking



LTD cracking is most often a result of externally applied loads and/or constrained temperature deformations. External loads cause LTD cracking through flexure. Temperature changes on restrained slabs will result in stresses due to friction or curling. When any of these stresses exceed the strength of the slab, cracking will occur. LTD cracking is recorded at low, medium, or high severity, depending on the width of crack opening and degree of deterioration. At low severity, the crack is less than 1/8th inch wide with little spalling and no corrective action is indicated. At medium severity, LTD cracks can be up to 1 inch wide with moderate spalling, and should be repaired and sealed using procedures similar to joint sealing. At high severity, cracks exceed 1 inch in width and may be severely spalled. High-severity LTD cracking is evidence of serious load failure of the slab, and correction may require patching or slab replacement. If the distress occurs in several adjacent slabs at medium or high severity, major rehabilitation of that pavement area is indicated.

When a slab is divided by LTD cracks into four or more pieces, the slab is said to be "divided" or "shattered." Shattered slab is a separate distress category and is indicative of significant structural failure as the slab loses its ability to distribute loads to subgrade and further slab deterioration can be expected. Shattered slabs are rated in three severities, with slab replacement recommended for medium and high severities.



Example of Shrinkage Cracking



Shrinkage cracks are small, nonworking (no spalling along edge) cracks that are visible at the surface but do not penetrate through the full depth of concrete. Shrinkage cracks most commonly occur shortly after construction due to concrete shrinkage during the curing process. Shrinkage cracks are usually so small that they are not visible until staining or material loss at crack edges begins to take place. Shrinkage cracks do not represent a structural weakness, and no corrective action is prescribed.



Example of Joint and Corner Spalling

Spalls at slab joints and corners are caused by excessive internal stress in the pavement. Spalls occur when these stresses exceed the shear strength of the concrete. Spalling usually results from thermal expansion during warm or hot weather. As slabs expand, they push against one another at joints. If the joints are filled with incompressibles, such as sand, or if adjacent slabs offset slightly, stresses can become severe, causing spalls. Spalling can be reduced significantly by conscientious maintenance of joint sealant.

Spall repair requires patching. The extent and severity of spalling on a pavement surface suggests appropriate action. For example, at low severity, spalled concrete remains securely in place in the slab. A low-severity spall should be monitored closely for further deterioration and should be patched when



spalled particles become loose in place, or at the next scheduled patching activity in the section. Medium- and high-severity spalls should be repaired immediately to prevent the incidence of FOD. If the pavement can be restored to serviceable condition, spalls should be carefully patched for long-term service. If the pavement is beyond repair, temporary patching should be considered to control FOD.

Example of Durability Cracking



Durability cracking (D-cracking) is caused by environmental factors, the most common of which is freezing/thawing. It usually appears as a pattern of hairline cracks running parallel to a joint or crack, or in a corner, where water tends to collect. This type of cracking eventually leads to disintegration of the pavement, creating FOD potential. At low severity, D-cracking is evident, but no disintegration has occurred. As the distress advances to medium severity, the distress pattern is evident over a significant area of the slab, and some disintegration and FOD potential exists. High severity durability cracking is evidenced by extensive cracking with loose and missing pieces and significant FOD potential.

Example of Joint Seal Damage



Joint seal damage is recorded at three severities: low, medium, and high. When joint sealant is in perfect condition (no damage), it is not a distress. At low severity, at least 10 percent of the sealant is debonded but still in contact with the joint edges (i.e., joint sealant is in serviceable condition but should



be monitored for evidence of more serious failure). Medium-severity joint seal damage is recorded when at least 10 percent of the sealant has visible gaps smaller than 1/8th inch and is an indicator that replacement should be programmed as soon as is practicable. In the meantime, aggressive inspection and sustaining maintenance is recommended to minimize subsurface damage from moisture penetration. At high severity, visible gaps exceed 1/8th inch and the amount and degree of joint seal damage is such that repair is no longer feasible. The only appropriate corrective action is sealant replacement.

On serviceable pavement, deteriorated joint sealant should be repaired or replaced to preserve pavement and subgrade integrity and prolong service life. The issue is not so clear-cut with unserviceable pavement. Pavement that can be restored to serviceable condition by maintenance activities such as patching and joint seal repair, or by slab replacement, should be so maintained as long as the process is cost-effective. However, when age and condition preclude economical return to serviceable condition by such means, joint seal repair would no longer be cost-effective and should be suspended except for an interim maintenance program to control FOD potential.

Joint sealant can stop the evidence of pumping (water forced to surface through joints and cracks) but will not correct the cause (voids under pavement).



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Appendix E: Maintenance Policies



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| Distress type | Distress severity | Maintenance treatment | |
|------------------------------------|-------------------|-----------------------|--|
| | Low | Monitor | |
| Alligator cracking | Medium | Patching - AC Deep | |
| | High | Patching - AC Deep | |
| Bleeding | N/A | Monitor | |
| | Low | Monitor | |
| Block cracking | Medium | Crack Sealing - AC | |
| | High | Crack Sealing - AC | |
| | Low | Monitor | |
| Corrugation | Medium | Patching - AC Shallow | |
| | High | Patching – AC Shallow | |
| | Low | Monitor | |
| Depression | Medium | Patching - AC Shallow | |
| | High | Patching - AC Shallow | |
| Jet blast | N/A | Monitor | |
| | Low | Monitor | |
| Joint reflection cracking | Medium | Crack Sealing - AC | |
| | High | Crack Sealing - AC | |
| | Low | Monitor | |
| Longitudinal & transverse cracking | Medium | Crack Sealing - AC | |
| (L&T cracking) | High | Crack Sealing - AC | |
| Oil spillage | N/A | Patching - AC Shallow | |
| · • | Low | Monitor | |
| Patching | Medium | Patching - AC Shallow | |
| | High | Patching - AC Shallow | |
| Polished aggregate | N/A | Monitor | |
| | Low | Surface Treatment | |
| Raveling | Medium | Surface Treatment | |
| | High | Patching - AC Shallow | |
| | Low | Monitor | |
| Rutting | Medium | Patching - AC Deep | |
| | High | Patching - AC Deep | |
| | Low | Monitor | |
| Shoving | Medium | Patching - AC Shallow | |
| | High | Patching - AC Shallow | |
| Slippage cracking | | | |
| - | Low | Monitor | |
| Swelling | Medium | Patching - AC Shallow | |
| | High | Patching - AC Shallow | |
| | Low | Monitor | |
| Weathering | Medium | Surface Treatment | |
| | High | Surface Treatment | |

Table E1. Localized maintenance policy for asphalt surfaces.



| Distress type | Distress severity | Maintenance treatment | |
|---------------------|-------------------|------------------------------|--|
| | Low | Slab Replacement - PCC | |
| Blow up | Medium | Slab Replacement - PCC | |
| | High | Slab Replacement - PCC | |
| Corner break | Low | Monitor | |
| | Medium | Patching - PCC Full Depth | |
| | High | Patching - PCC Full Depth | |
| | Low | Monitor | |
| Linear cracking | Medium | Crack Sealing - PCC | |
| | High | Slab Replacement - PCC | |
| | Low | Monitor | |
| Durability cracking | Medium | Patching - PCC Full Depth | |
| | High | Slab Replacement - PCC | |
| | Low | Monitor | |
| Joint seal damage | Medium | Joint Seal (Localized) | |
| _ | High | Joint Seal (Localized) | |
| | Low | Monitor | |
| Small patch | Medium | Monitor | |
| | High | Patching - PCC Full Depth | |
| | Low | Monitor | |
| Large patch | Medium | Monitor | |
| | High | Patching - PCC Full Depth | |
| Popouts | N/A | Monitor | |
| Pumping | N/A | Monitor | |
| | Low | Monitor | |
| Scaling | Medium | Monitor | |
| | High | Slab Replacement - PCC | |
| | Low | Monitor | |
| Faulting | Medium | Monitor | |
| _ | High | Grinding (Localized) | |
| | Low | Monitor | |
| Shattered slab | Medium | Slab Replacement - PCC | |
| | High | Slab Replacement - PCC | |
| Shrinkage cracking | N/A | Monitor | |
| Joint spall | Low | Monitor | |
| | Medium | Patching - PCC Partial Depth | |
| | High | Patching - PCC Partial Depth | |
| | Low | Monitor | |
| Corner spall | Medium | Patching - PCC Partial Depth | |
| | High | Patching - PCC Partial Depth | |
| | Low | Monitor | |
| ASR | Medium | Slab Replacement - PCC | |
| | High | Slab Replacement - PCC | |

Table E2. Localized maintenance policy for PCC surfaces.



Appendix F: Maintenance Repair Guidelines



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General Comments

Ongoing inspections are the cornerstone of a maintenance management program. Crack sealing prevents surface water from entering the pavement structure and helps prevent the introduction of incompressible material into the paving joints and cracks, reducing the chances for spalls and further pavement deterioration.

Preservation of a pavement system will require a combination of preventive, sustaining, and restorative maintenance repairs. Preventive maintenance is primarily an inspection program, sustaining maintenance is an ongoing maintenance function, whose purpose is to seal newly formed cracks in areas where the sealant is in otherwise satisfactory condition. Restorative repairs are major work items, often performed under contract that typically involve complete removal and replacement of existing sealant.

Maintenance Activities

Flexible (Asphalt) Pavement

Longitudinal and transverse (L&T) cracks at medium severity (>¼" wide) should be filled with a good quality crack filler material. High-severity cracks must normally be patched. Cracks rated at low severity may be narrow-unsealed cracks or sealed cracks up to 3 inches wide. The PCI procedure does not distinguish between narrow unfilled cracks and wider filled cracks. When 25 percent or more of total crack quantity is at medium or high severity, a restorative program becomes cost-effective. When medium- or high-severity cracking constitutes less than 25 percent of the total, sustaining maintenance is usually more cost-effective.

Medium- and high-severity existing patches should be replaced with new patches. Small areas (usually less than 100 square feet per patch) of alligator cracking and rutting at medium and high severity may also be repaired by patching. Larger patches should be considered if equipment can be made available to accomplish the work. Patching to repair up to 10 percent of the surface of a pavement section that is otherwise serviceable can result in significant cost savings as compared to rehabilitation of the entire section.

PCC (Concrete) Pavement

Joint seal damage at medium and high severity should be repaired. If medium- and high-severity damage is limited to less than about 25 percent of total joint length, sustaining maintenance is recommended. If medium and high-severity damage exceeds about 25 percent of the total joint length, joint sealant should be removed and replaced under a restorative repair project.

Longitudinal/transverse/diagonal (LTD) cracks at low and medium severity should be considered for sealing as part of the joint sealing project. High-severity LTD cracks require sealing, patching, or slab replacement, depending on the extent of deterioration.

Small patches are most often placed to repair medium- and high-severity spalls or to replace deteriorated older patches. Restorative small patches are typically partial depth repairs, usually to load transfer steel. Large patches and corner breaks at medium and high severity should be repaired by full-depth large patches.



High-severity LTD cracks and shattered slabs are candidates for patching and slab replacement. Low-severity shattered slabs can be left in place pending further deterioration.

Pavement Failure

Before maintenance and repairs are attempted, it helps to have an understanding of the way pavement performs and deteriorates.

Environmental/Age-Related Deterioration

Seasonal temperature changes cause expansion and contraction of the pavement materials, causing the pavement to move up to 1 foot per 1,000 feet. Much of this movement can be witnessed as the opening and closing of existing transverse cracks.

The pavement thickness and type of subgrade plays a large role in the formation and spacing interval of transverse cracks. If the subgrade material is smooth or rounded, the pavement surface will move relatively freely, the transverse cracks will usually be spaced far apart (>60 feet). If the subgrade material is rough or angular the pavement surface will not move freely and transverse cracks will be spaced more closely (<40 feet). The distance between transverse cracks will also depend on the pavement thickness, as a thicker pavement can resist cracking for longer lengths, but around 50 feet is typical for general aviation airport pavements.

Age related distress deals with the pavement oxidation or loss of volatile components to the atmosphere. An oxidized pavement becomes more brittle with time. Surface treatments and seal coats are designed, in part, to provide a protective barrier and prevent this type of oxidation.

Materials Related Deterioration

Subsurface water can have the greatest impact on pavement deterioration. A wet subgrade greatly reduces the ability of a pavement to support wheel loads, and the results often show up as rutting and cracking. The fine materials in a wet base can be pumped up through the cracks and eventually result in a loss of subgrade support. This loss of support can be evidenced as corner breaks and faulting. Moisture inside a pavement system expands when it freezes; creating stresses that push and tear at the pavement. The following thaw cycles will leave voids in the pavement structure that enable further rutting and breaking. Repeated freeze/thaw cycles will eventually cause pavement to disintegrate. One of the best ways to assure pavement longevity is to provide drainage and keep the subgrade dry.

Aggregate is the biggest component of any pavement structure, and it is the contact between the aggregate particles that actually transfers the load and provides the strength. Aggregate durability and shape are major factors affecting pavement performance. Durability is the ability of the aggregate to perform satisfactorily over time and resist the detrimental effect of nature. Sharp, well-angled aggregate that interlock, compact densely, and resists movement are the most desirable.



Air Voids

Well-distributed interconnected air voids allow escape paths for freezing water and generally reduce susceptibility to freeze/thaw damage. In PCC pavements, closely spaced interconnected air voids provide the greatest degree of protection.

Asphalt pavements, on the other hand, only tolerate air voids as necessary. Air voids allow for expansion of the asphalt binder, but also allow water penetration into the pavement. Interconnected air voids are undesirable here because the voids allow air to penetrate the asphalt layers and oxidize the binder. As air voids increase, durability and flexibility decrease, but stability and skid resistance increase. Asphalt pavements should be designed and compacted so that air voids are not interconnected. The air voids should allow only for the expansion of the asphalt and aggregate without bleeding, and air voids should be kept low enough to prevent water and air from penetrating the asphalt layers.

Binders

Regardless of whether the pavement is asphalt or concrete, the binder material is mixed with the aggregate to coat all particles with a thin film. An asphalt coating allows the pavement to be flexible and still resist large movements. Durability of the asphalt pavement is increased by a thicker film because it is more resistant to age hardening; however, too thick of a film and the asphalt acts like a lubricant, promoting ruts, shoving, and bleeding. Specifications control aggregate and binder mix quantities, but each mix should be customized for materials available locally.

With a concrete pavement, the aggregate supports the load, but the cement binder interlocks with the aggregate to inhibit all movement. Hydration is the term for the chemical reaction of portland cement with water, and in the hydration process, dry cement particles react with water, to form gels, and then crystals, that grow and bond with the aggregate to form a rigid interlocking structure. Hydration can continue for years, but much of the ultimate strength will be reached within 28 days. Hydration is a sensitive chemical process, and typically, any admixtures used to accelerate the hydration process will reduce durability, and their use should be considered carefully or avoided.

Stress Distribution/Load Related Deterioration

PCC (rigid) and asphalt (flexible) pavements differ in the way loads are distributed. A concrete slab resists bending and transfers loads evenly, an asphalt pavement is designed to bend, and gradually spreads loads over wider areas. Rutting is a subgrade failure caused by a compressive yielding of the subgrade.

Load-related cracks can start at the top or bottom of a pavement section. In asphalt sections, loadrelated (fatigue) cracks start at the bottom. If a load-related crack reaches the surface, it usually indicates significant structural deficiency. In PCC pavement, corner breaks are caused by top tension, and the crack propagates downward. Mid-slab LTD cracks are examples of bottom tension.

Spalls can be caused by either wheel loads or environmental factors, anytime there is movement between adjacent slabs. If a small rock is allowed into a joint, a differential movement between adjacent slabs can cause a spall. Spalling can be minimized by keeping joint and crack sealant intact.



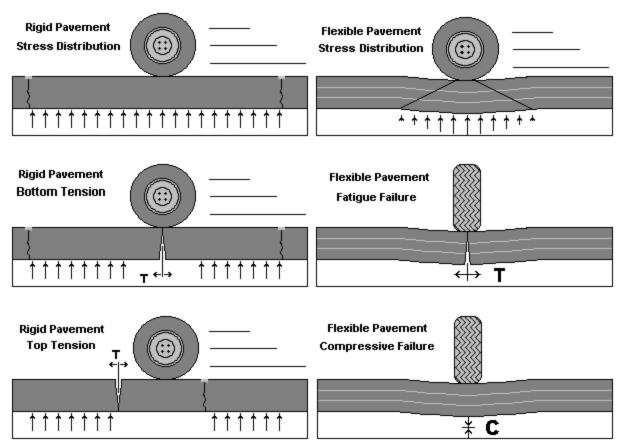


Figure 10. Pavement failure.

Points to Remember

Pavement wears out.

The longer a pavement remains in service, the greater the effort needed to keep it in service. A good maintenance and repair program will increase service life significantly, but cannot be expected to extend service life indefinitely.

Pavement moves.

Pavement moves in response to temperature changes. Transverse cracks can vary from nearly closed in the summer to open an inch or more in winter. This movement cannot be prevented. It must be understood and provided for during design and construction. The changing crack widths will dictate the reservoir size required for sealant. Measure cracks at their widest and narrowest states, then prepare adequate ($\frac{1}{2} - \frac{1}{2}$ inch) sealant reservoirs for crack sealing projects.

Longitudinal joints and cracks are important.

The most important reason for sealing cracks is to deny surface water access to the pavement and subgrade. Most water drains from centerline to shoulders. Longitudinal cracks, which run parallel to the centerline provide the greatest potential to divert water into the pavement structure, and must be sealed.



Sealing is not always the best answer.

The FAA maximum allowable open trench width on aircraft movement areas is three-inches; therefore, any crack wider than three-inches should be patched. A severe spall or a crack that has settled below the pavement elevation indicates a failure. If the pavement has disintegrated to the point that aggregate interlock is lost, sealant alone will not be sufficient, and patching should be considered.

Maintenance and repairs must be done correctly.

To achieve optimum results from repairs, proper preparation, use of quality materials, and proper application are essential. Any shortcuts will reduce the quality and effectiveness of the repairs. A rule of thumb is that proper maintenance will last twice as long as an unprepared area. Good maintenance takes time and deserves high-quality materials.

Schedule maintenance and repair activities carefully.

Any pavement defect can be corrected. Concentrate on repairs that are cost-effective, operationally important, and that extend service life. Some surface blemishes can be ignored safely, and many structural problems are beyond economical correction. When future rehabilitation is imminent, maintenance activities should be limited to only those that ensure continued safety and minimize foreign object damage (FOD) potential.

Equipment

Many excellent pavement repair and sealing products are available. Specialized tools and equipment help ensure quality repairs. This section reviews equipment compatible with airport needs.

Air Compressor

Used to remove sand and debris from prepared cracks and joints, the compressor should have a sustained capacity of 120 cubic feet per minute with a nozzle velocity of 100 psi. Trailer-mounted compressors typically have capacities in this range.

Concrete Saw

A saw capable of making a minimum 3-inch deep cut is required. The saw should be capable of making cuts in asphalt or concrete. Gasoline-powered 5-25 hp wheel mounted saws typically are preferred for this type of work, but electric and pneumatic tools are also available.

Heating Kettle

Applying sealant is the most time-consuming operation, and a sealing machine with heating and pressure application capabilities is a critical item in a sealing program. The capacity of the sealing equipment dictates the rate at which a crew progresses. For large sealing projects, a minimum 100 gallons/per hour sustained capacity is recommended. The unit should be a double boiler type, with mechanical agitators or continuous recirculation.



Router

A concrete saw can be used to prepare joints, but for random cracking, a mechanical router with a vertical impact mechanism is preferred. When cracks are being routed, this activity will dictate speed of the crew. Crack routers in the 25hp range are commonly used and are available from a variety of manufacturers.

Sand Cleaner

A sand blaster helps to clean loose particles and dust from prepared cracks. The unit must have sufficient force to expose fresh, vital pavement to bond with sealant and patching materials.

Vibratory Roller or Plate Compactor

Required to properly compact plant mixed and packaged patching materials. Small rollers are best for pothole type applications, plate compactors are best for large areas.

Other Equipment

Other general use equipment that can be helpful in a maintenance program includes bucket loaders, dump trucks, water tanks, and a power sweeper unit.

Materials

Pavement repair materials are constantly being introduced and improved. This section provides information on products compatible with airport needs.

Joint and Crack Sealer

Hot poured, pressure injected, polymeric rubberized asphalt sealant meeting ASTM D3405 specifications is suitable for most joint and crack sealing requirements. This product is relatively inexpensive, durable, and suitable for both PCC and asphalt pavements. Other, more expensive, hot applied sealants that promise longer life are being developed for specialty applications, and twin component cold applied sealants, similar to URASEAL 200, have also been used with success. Contact your local distributor.

Flexible Pavement Patch

Long-term patches should be made with a high-quality plant mixed hot asphalt having a ¾-inch maximum aggregate size and meeting FAA P401, or highest quality highway specifications. High-performance plant mixed cold patching products that can be stockpiled on-site have been developed. Low-quality packaged materials available from local hardware type stores should be avoided and only be used for temporary patches that maintain safety and service.



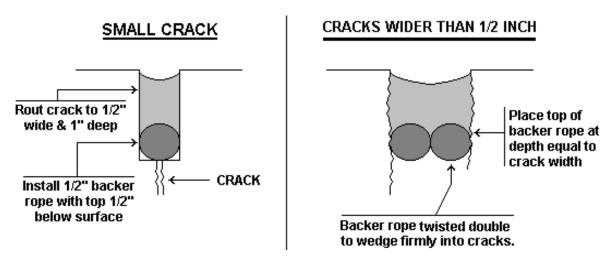
PCC Pavement Patch

Permanent patches in PCC pavement should be made with a minimum 6-bag mix of hi-early airentrained cement with 1-inch maximum size aggregate. Concrete should have zero slump and a coarse texture. As with asphalt patches, low-quality packaged materials should only be used as temporary patches to maintain safety and service until a more permanent repair can be made.

Techniques

Crack Sealing

- Cracks over ¼ inches wide should be sealed. Cracks wider than 3 inches should be patched.
- Sealant depth above the backer rope should be equal to the width of the reservoir, or as recommended by the manufacturer.
- Routed cracks should be sand blasted, to prepare the vertical edges for bonding with the sealant. Clean cracks with compressed air prior to sealing.
- Backing material should always be placed into the cracks. Commercial products are available, and several sizes of rope should always be available to accommodate various crack sizes.
- Apply sealant after placing the backer rope. Follow the manufacturer's instructions. Sealant should be applied to within ¼ inch of the pavement surface.
- The final activity is to clean the surrounding pavement areas. A vacuum sweeper works well for this. Allow the sealant time to set, before using a broom.





Note:

This crack sealing technique is meticulous in its design and procedure. It has a proven record of performance. Using backer rope forces the sealant into a predictable shape—narrow in the center and wide on the sides. This sealant profile allows the sealant to firmly bond with the vertical edges, yet stretch easily with pavement movement. In an effort to minimize labor requirements and reduce crack-sealing costs, an alternative procedure, the overband technique, is presented on the following page. This procedure can produce good results for up to 5 years.

Always remember that, within reasonable limits, thinner sealant material will stretch more easily with the pavement movement, and stay bonded longer.



Asphalt Pavement Crack Repair

Cracks wider than 3 inches should be patched. Cracks with secondary cracking and vertical movement should also be patched. Failed existing patches should be replaced. Crack repair can also repair small areas of alligator cracking and rutting. Crack repair differs from sealant in that it restores load-bearing capacity. Therefore, it must be constructed carefully to distribute stresses evenly and perform as an integral piece of the surrounding pavement. The crack repair must be wide enough to ensure that it bonds to fresh, vital pavement on all sides, and deep enough to reach fresh underlying layers, but never less than 3 inches.

- Examine the distressed area and mark the crack repair outline. This examination may require a pick or chisel to test the pavement integrity in and around the distressed area.
- The crack repair area should be cut out with a vertical saw cut not less than 3 inches deep.
- The enclosed pavement should then be removed, leaving the vertical sawed edges undamaged and providing a relatively even, flat floor at the appropriate depth.
- The sides and bottom should be sand cleaned and blown out with compressed air
- The sides and bottom should then be painted with a rapid curing asphalt tack coat. The tack coat may be sprayed on or applied with a brush or rag. Care should be taken to achieve complete coverage without allowing excess material to "pool" on the bottom.
- Allow tack coat to cure (about 2 to 4 hours) until it reaches a gummy consistency, which readily retains the impression of a fingerprint.
- Place hot mixed asphalt concrete evenly and mound slightly above surrounding pavement. Allow approximately ¼ inch of compaction for each inch of patch depth.
- Compact in place with vibratory roller or plate compactor. Asphalt concrete should not be compacted in layers greater than 6 inches. If crack repair depth is greater than 6 inches, asphalt concrete should be placed and compacted in successive layers.
- In deep, narrow cracks such as at joint reflective cracks, a sand asphalt mix may be required in lower layers to allow movement and prevent bridging the adjacent slabs.
- Considerable judgment is required in placing the asphalt concrete to achieve a fully compacted crack repair without creating a bump or depression. The ¼ inch per inch factor is a rule of thumb. Actual compression will vary with the mix. Experimentation and experience are required to achieve optimum results.



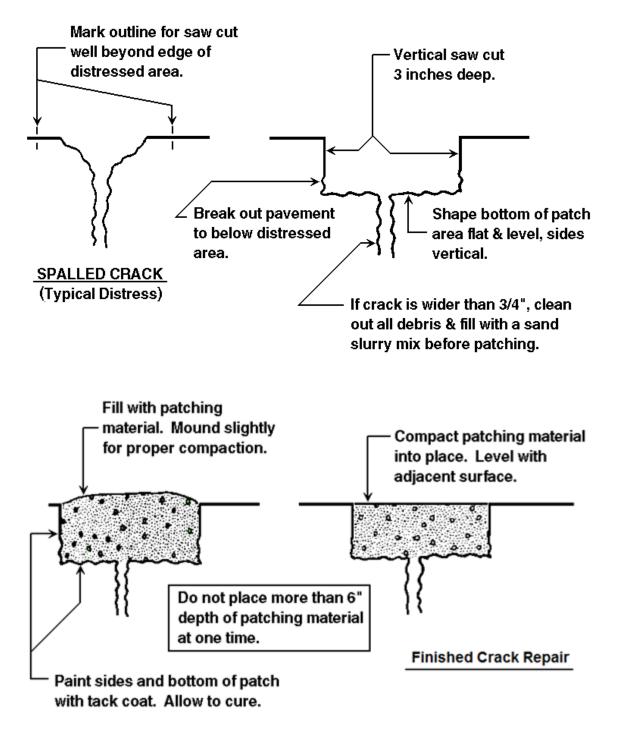


Figure 12. AC crack repair.



Patching (Asphalt Pavement)

Cracks wider than 3 inches should be patched. Cracks with secondary cracking and vertical movement should also be patched. Failed existing patches should be replaced. Patching can also repair small areas of alligator cracking and rutting. A patch differs from sealant in that it restores load-bearing capacity. Therefore, it must be constructed carefully to distribute stresses evenly and perform as an integral piece of the surrounding pavement. The patch must be wide enough to ensure that it bonds to fresh, vital pavement on all sides, and deep enough to reach fresh underlying layers, but never less than 3 inches.

- Examine the distressed area and mark the patch outline. This examination may require a pick or chisel to test the pavement integrity in and around the distressed area.
- The patch area should be cut out with a vertical saw cut not less than 3 inches deep.
- The enclosed pavement should then be removed, leaving the vertical sawed edges undamaged and providing a relatively even, flat floor at the appropriate depth.
- The sides and bottom should be sand cleaned and blown out with compressed air
- The sides and bottom should then be painted with a rapid curing asphalt tack coat. The tack coat may be sprayed on or applied with a brush or rag. Care should be taken to achieve complete coverage without allowing excess material to "pool" on the bottom.
- Allow tack coat to cure (about 2 to 4 hours) until it reaches a gummy consistency, which readily retains the impression of a fingerprint.
- Place hot mixed asphalt concrete evenly and mound slightly above surrounding pavement. Allow approximately ¼ inch of compaction for each inch of patch depth.
- Compact in place with vibratory roller or plate compactor. Asphalt concrete should not be compacted in layers greater than 6 inches. If patch depth is greater than 6 inches, asphalt concrete should be placed and compacted in successive layers.
- In deep, narrow patches such as at joint reflective cracks, a sand asphalt mix may be required in lower layers to allow movement and prevent bridging the adjacent slabs.
- Considerable judgment is required in placing the asphalt concrete to achieve a fully compacted patch without creating a bump or depression. The ¼ inch per inch factor is a rule of thumb. Actual compression will vary with the mix. Experimentation and experience are required to achieve optimum results.



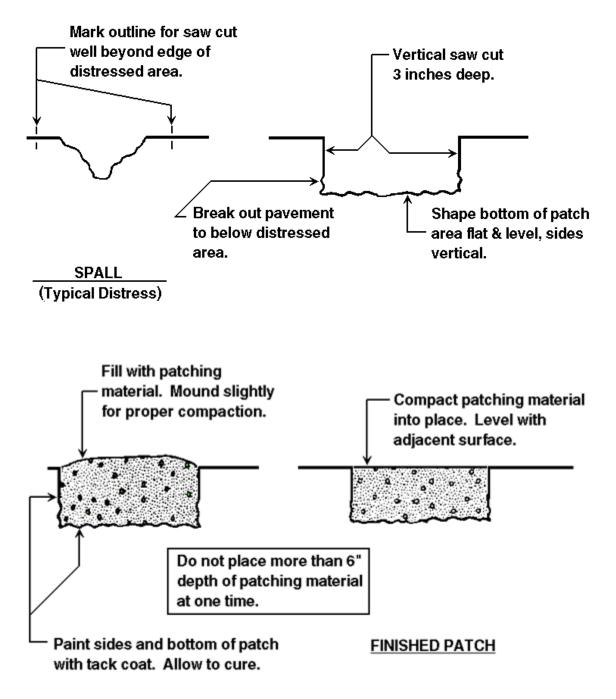


Figure 13. AC patch.



| Inspection Date | Inspector | Pavement location (branch/section) | Change in condition (new distress type, increased quantity or severity) | Maintenance performed since last inspection |
|--------------------|-----------|---------------------------------------|--|---|
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Table 16. Maintenance and "drive by" inspection log.



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