

# Pavement Condition Report

## Rochester International Airport (RST)



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## Abbreviations and Acronyms

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AAC	Asphalt Overlaid with Asphalt
AC	Asphalt Concrete
APC	PCC Overlaid with Asphalt
APMS	Airport Pavement Management System
CAD	Computer-aided Drafting
CIP	Capital Improvement Plan
FAA	Federal Aviation Administration
FOD	Foreign Object Debris
GIS	Geographic Information System
L&T	Longitudinal & Transverse Cracking
LCD	Last Construction Date
Mn/DOT	Minnesota Department of Transportation Office of Aeronautics
PCC	Portland Cement Concrete
PCI	Pavement Condition Index
RST	Rochester International Airport



## 1. Introduction

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Since 1995, Federal grant assurances have required that to continue receiving Federal funding, airports implement a pavement maintenance-management program for any pavement constructed or repaired using Federal money. To help individual airports meet this grant assurance and improve the statewide airport system, the Minnesota Department of Transportation (Mn/DOT) Office of Aeronautics contracted with Applied Research Associates, Inc. (ARA) to provide pavement evaluation and management inspections at local airports. This report contains the results of the 2017 pavement inspections at Rochester International Airport (RST).

Pavement conditions were assessed using the Pavement Condition Index (PCI) procedure, outlined in Federal Aviation Administration (FAA) Advisory Circular (AC) 150/5380 and ASTM D5340 for airfield pavements. The PCI was developed to provide a numerical value indicating 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 final calculated PCI value is a number from 0 to 100, with 100 representing a pavement in excellent condition. The PCI evaluation makes possible forecasting of future deterioration and allows for accurate projections of maintenance and rehabilitative needs.

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

- Update and store pavement inventory and condition data.
- Develop models to predict future conditions.
- Develop maintenance and repair recommendations.
- Report the results at the individual and statewide level.

### 1.1 Project Background

Aviation throughout Minnesota plays a key role in the movement of goods and services with an estimated overall economic impact of \$12.2 billion. Mn/DOT 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 maintenance and repair policies at an airport and can identify short-, medium-, and long-term rehabilitation needs. Mn/DOT typically has performed PCI inspections at each airport on a 3-year cycle so that the most recent pavement condition data in the APMS reflect the field conditions.

### 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 also shows conceptually how it is cheaper to maintain pavements that are in good to fair condition, rather than wait until the poor condition requires an expensive reconstruction treatment.

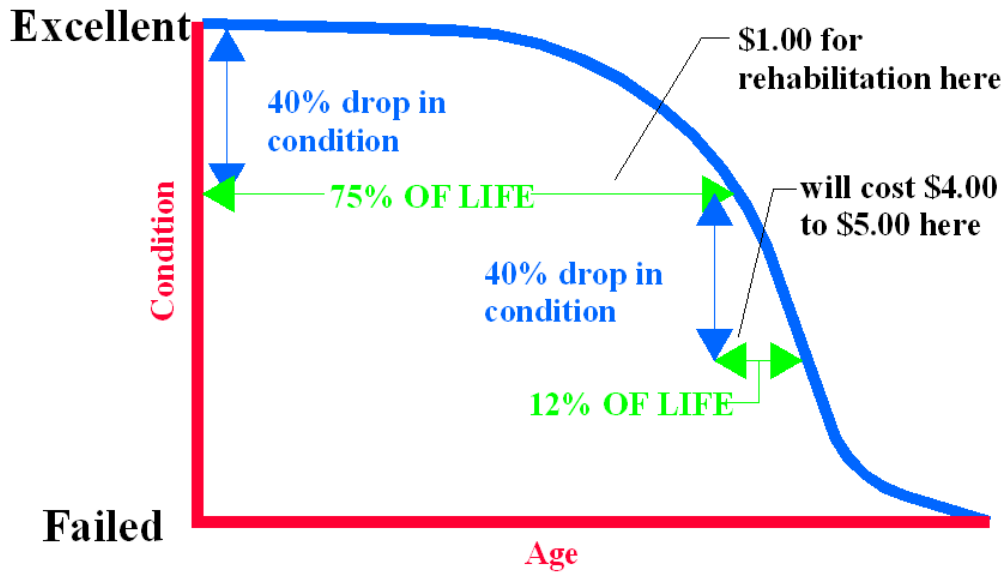


Figure 1. Pavement condition life cycle.

Often, the identified needs will cost more than the available budget and will need to be prioritized. The APMS can measure the impact of a limited budget scenario by projecting the future condition of deferred projects. Ultimately, the APMS will provide Mn/DOT 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

Since 2008, Mn/DOT has retained ARA to update the APMS for 106 of Minnesota’s publicly owned general aviation airports. Mn/DOT identified approximately 1/3 of the airports to be inspected each year and provided the available construction history information and existing MicroPAVER databases for each airport. ARA coordinated the PCI inspections with each airport. After the field work was completed, ARA updated the MicroPAVER database and computer-aided drafting (CAD) map for each airport. MicroPAVER was then used to develop a maintenance work plan based on current distresses. In addition, a 5-year projection identifying work levels of recommended pavement repair needs 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 MicroPAVER database to allow for geographic information system (GIS) viewing of data. In addition, training was provided on the use of the MicroPAVER software and PCI procedure.

## 2. Project Approach

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### 2.1 Update Pavement Inventory

The pavement inventory at RST represents the airfield pavements that are intended for aviation-related traffic. The main objective in updating the pavement inventory was to determine the year of the construction (or most recent overlay), the limits of the project, and the surface type for each pavement area based on construction history. When available, Mn/DOT provided this information for the pavement-related projects for areas not already included in previous inspections. ARA then used this information to update the pavement section definitions on the CAD map and MicroPAVER 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 RST 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 maintenance and rehabilitation projects. The guideline used in deciding where section breaks are located is to think of the section as the "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 20 slabs  $\pm$  8 slabs for portland cement concrete (PCC) pavements. A statistical based sampling rate 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 RY1331 for Runway 13/31 or CTC for Connecting Taxiway C). The sections for each branch are assigned a number starting with 001, 002, and so on. Table 1 presents the branches defined for RST and their corresponding areas. For those airports with taxiway guidance signs, the branch ID may or may not match up with the signage in the field; however, the branch name will correspond.

Figure 2 presents the network definition for RST and represents the pavements included in the APMS. Some privately built/maintained pavements and “driveways” leading into hangars may not be included here because they are considered outside the scope of work.

Table 1. Branch definition.

Branch Id	Name	Number of Sections	Area (SF)
APA	APRON A	3	793,460
APB	APRON B	4	504,070
CTA1	CONNECTING TAXIWAY A1	1	98,740
CTA10	CONNECTING TAXIWAY A10	1	80,550
CTA3	CONNECTING TAXIWAY A3	1	59,360
CTA6	CONNECTING TAXIWAY A6	1	85,110
CTA7	CONNECTING TAXIWAY A7	1	34,790
CTA8	CONNECTING TAXIWAY A8	1	44,420
CTA9	CONNECTING TAXIWAY A9	1	80,840
CTB1	CONNECTING TAXIWAY B1	1	18,330
CTB2	CONNECTING TAXIWAY B2	1	18,190
CTB3	CONNECTING TAXIWAY B3	1	18,120
CTB4	CONNECTING TAXIWAY B4	1	59,920
CTC	CONNECTING TAXIWAY C	1	24,110
CTD	CONNECTING TAXIWAY D	2	63,180
CTE	CONNECTING TAXIWAY E	1	37,970
CTF	CONNECTING TAXIWAY F	1	53,330
CTG	CONNECTING TAXIWAY G	1	37,780
CTH	CONNECTING TAXIWAY H	1	21,700
CTJ	CONNECTING TAXIWAY J	1	22,250
CTK	CONNECTING TAXIWAY K	1	27,940
CTM	CONNECTING TAXIWAY M	1	38,070
PTA	PARALLEL TAXIWAY A	2	550,920
PTB	PARALLEL TAXIWAY B	2	403,000
RY1331	RUNWAY 13-31	4	1,357,410
RY220	RUNWAY 2-20	4	1,077,780
TLA	TAXILANE A	3	179,580
TLB	TAXILANE B	2	15,210
TLC	TAXILANE C	2	29,490
<b>Airport Total</b>			<b>5,835,620</b>

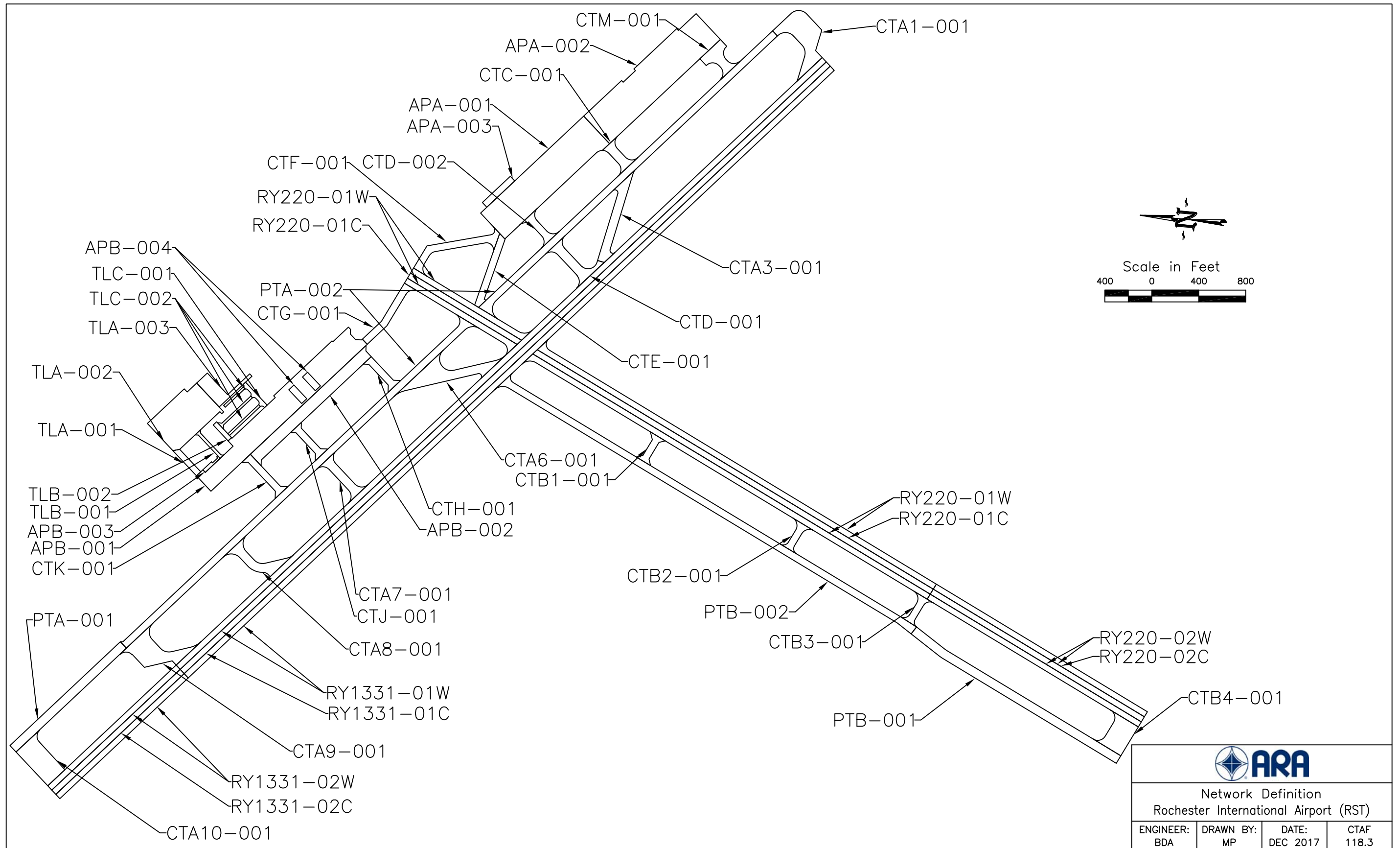


Figure 2. Network Definition map at Rochester International Airport (RST).



## 2.2 Pavement Evaluation

The pavement surfaces at RST were visually inspected on June 25, 2017, 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 is 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 MicroPAVER 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 PCI's 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 60. However, as the pavement continues to deteriorate, more complex and expensive treatments will be necessary. Pavements with a PCI between 40 and 60 are good candidates for a variety of major repairs ranging from overlays to reconstruction. Once the PCI drops below 40, reconstruction is typically the only viable alternative. Figure 3 presents the PCI inputs, rating scale, and the corresponding general work repair levels.

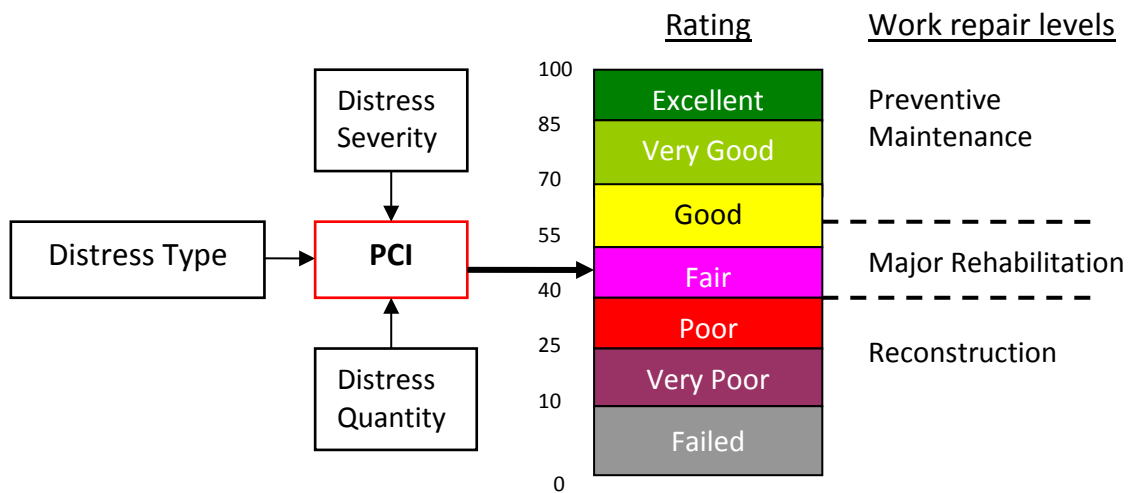


Figure 3. PCI rating scale and repair levels.

## 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 presents the asphalt and PCC distress types in the PCI procedure, their classification, and identifies which distresses were observed at RST during the pavement inspection.

Table 2. PCI distress types.

Asphalt Distresses	Cause Classification	PCC 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		

Indicates distresses found at RST



## 2.3 PCI Results

The results of the 2017 PCI inspection are presented in figure 4. The overall area-weighted, inspected PCI for RST is 64. 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 the disparity of the section sizes.

Figures 5 and 6 present the overall PCI for RST by area distribution and pavement use, respectively. Table 3 presents the PCI summary for each section at RST, 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 C contains the detailed inspection report with sample unit data produced from MicroPAVER. Appendix D describes the distress types most commonly identified during the PCI inspections of Minnesota airports.

Table 3. PCI section summary table.

Branch ID	Section ID	Surface type <sup>1</sup>	Section area (SF)	LCD <sup>2</sup>	2017 PCI	Drop in PCI/Yr <sup>3</sup>	% Deduct due to		Distress types
							Load <sup>4</sup>	Climate <sup>5</sup>	
APA	001	PCC	365,660	2000	75	1.4	26	48	Corner break, durability cr, faulting, joint seal dmg, large patch, linear cr, shrinkage cr, small patch
APA	002	PCC	409,650	2000	79	1.2	9	50	Corner spall, faulting, joint seal dmg, linear cr, pumping, shattered slab
APA	003	AC	18,150	2000	70	1.7	0	100	L&T cr, weathering
APB	001	AC	347,400	2000	53	2.6	26	74	Alligator cr, L&T cr, weathering
APB	002	AC	133,050	2000	66	1.9	34	66	Alligator cr, depression, L&T cr, weathering
APB	003	PCC	4,420	2000	0	5.6 <sup>6</sup>	100	0	Shattered slab
APB	004	PCC	19,200	2000	54	2.6	89	11	Corner break, joint seal dmg, linear cr, shattered slab
CTA1	001	PCC	98,740	2000	62	2.1	47	0	Corner break, corner spall, faulting, large patch, linear cr, shattered slab, shrinkage cr, small patch
CTA10	001	PCC	80,550	2000	90	0.6	0	55	Faulting, joint spall, joint seal dmg, shrinkage cr
CTA3	001	PCC	59,360	2000	49	2.8	36	30	Corner spall, durability cr, large patch, linear cr, shattered slab, small patch
CTA6	001	PCC	85,110	2000	48	2.9	34	27	Corner break, corner spall, durability cr, joint spall, large patch, linear cr, shattered slab, small patch
CTA7	001	PCC	34,790	2000	57	2.4	33	24	Corner spall, durability cr, large patch, linear cr, shattered slab, small patch
CTA8	001	AC	44,420	2000	73	1.5	0	100	L&T cr, weathering
CTA9	001	PCC	80,840	2000	61	2.2	15	51	Corner break, corner spall, durability cr, faulting, joint seal dmg, linear cr, shattered slab, small patch
CTB1	001	AC	18,330	2000	75	1.4	0	100	L&T cr

Branch ID	Section ID	Surface type <sup>1</sup>	Section area (SF)	LCD <sup>2</sup>	2017 PCI	Drop in PCI/Yr <sup>3</sup>	% Deduct due to		Distress types
							Load <sup>4</sup>	Climate <sup>5</sup>	
CTB2	001	AC	18,190	2000	83	0.9	0	100	L&T cr
CTB3	001	AC	18,120	2000	80	1.1	0	100	L&T cr
CTB4	001	AC	59,920	2000	55	2.5	26	74	Alligator cr, block cr, L&T cr, raveling, weathering
CTC	001	PCC	24,110	2000	93	0.4	0	100	Joint seal dmg
CTD	001	PCC	42,090	2000	96	0.2	0	100	Joint seal dmg
CTD	002	PCC	21,090	2000	93	0.4	0	100	Joint seal dmg
CTE	001	PCC	37,970	2000	93	0.4	0	79	Corner spall, joint seal dmg
CTF	001	PCC	53,330	2000	84	0.9	0	74	Corner spall, durability cr, joint spall, joint seal dmg, small patch
CTG	001	AC	37,780	2000	49	2.8	22	78	Alligator cr, block cr, L&T cr, raveling, weathering
CTH	001	AC	21,700	2000	46	3.0	16	81	Alligator cr, block cr, depression, L&T cr, weathering
CTJ	001	AC	22,250	2000	28	4.0	30	70	Alligator cr, block cr, L&T cr
CTK	001	AC	27,940	2000	59	2.3	0	100	Block cr, L&T cr, weathering
CTM	001	PCC	38,070	2000	88	0.7	0	91	Corner spall, joint seal dmg
PTA	001	PCC	96,750	2000	100	0.0	0	39	-
PTA	002	PCC	454,170	2000	83	0.9	27	48	Corner spall, durability cr, joint spall, joint seal dmg, large patch, linear cr, shrinkage cr, small patch
PTB	001	AC	154,700	2000	60	2.2	0	100	Block cr, L&T cr, weathering
PTB	002	AC	248,300	2000	68	1.8	18	82	Alligator cr, L&T cr, weathering
RY1331	01C	PCC	377,470	2000	55	2.5	58	14	Corner break, corner spall, durability cr, faulting, joint spall, joint seal dmg, large patch, linear cr, shattered slab, small patch
RY1331	01W	PCC	754,940	2000	46	3.0	50	33	Corner spall, durability cr, faulting, joint spall, joint seal dmg, large patch, linear cr, shattered slab, small patch

Branch ID	Section ID	Surface type <sup>1</sup>	Section area (SF)	LCD <sup>2</sup>	2017 PCI	Drop in PCI/Yr <sup>3</sup>	% Deduct due to		Distress types
							Load <sup>4</sup>	Climate <sup>5</sup>	
RY1331	02C	PCC	75,000	2000	89	0.6	88	12	Linear cr, joint seal dmg
RY1331	02W	PCC	150,000	2000	90	0.6	28	57	Corner spall, joint spall, joint seal dmg, linear cr
RY220	01C	PCC	252,240	2000	44	3.1	5	59	Corner break, corner spall, durability cr, joint spall, joint seal dmg, large patch, linear cr, small patch
RY220	01W	PCC	510,540	2000	40	3.4	6	50	Corner spall, durability cr, faulting, joint spall, joint seal dmg, large patch, linear cr, shattered slab, small patch
RY220	02C	PCC	105,000	2000	94	0.3	0	89	Joint seal dmg, large patch
RY220	02W	PCC	210,000	2000	91	0.5	36	64	Joint seal dmg, linear cr
TLA	001	AC	13,880	2000	74	1.4	-	100	L&T cr, weathering
TLA	002	AC	135,870	2000	55	2.5	31	69	Alligator cr, L&T cr, patching, weathering
TLA	003	AC	29,830	2000	71	1.6	25	48	Alligator cr, depression, L&T cr, weathering
TLB	001	AC	7,800	2000	86	0.8	-	100	L&T cr
TLB	002	AC	7,410	2000	66	1.9	-	100	L&T cr, weathering
TLC	001	AC	9,670	2000	25	4.2	67	33	Alligator cr, patching, weathering
TLC	002	AC	19,820	2000	0	5.6 <sup>7</sup>	100	-	Alligator cr

<sup>1</sup>AC = asphalt cement; AAC = asphalt overlaid with asphalt; PCC = portland cement concrete; APC = PCC overlaid with asphalt

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

<sup>3</sup>Drop in PCI/Yr = (100 - PCI)/age where age = 2017 - LCD

<sup>4</sup>Percent of deduct due to load = Percentage of PCI points subtracted from 100 for load related distresses

<sup>5</sup>Percent of deduct due to climate = Percentage of PCI points subtracted from 100 for climate/durability related distresses

<sup>6</sup>Unusually high drop in PCI of 5.6 PCI/year due to high-severity shattered slabs recorded in all slabs

<sup>7</sup>Unusually high drop in PCI of 5.6 PCI/year due to high-severity alligator cracking recorded with a 50% density in the section

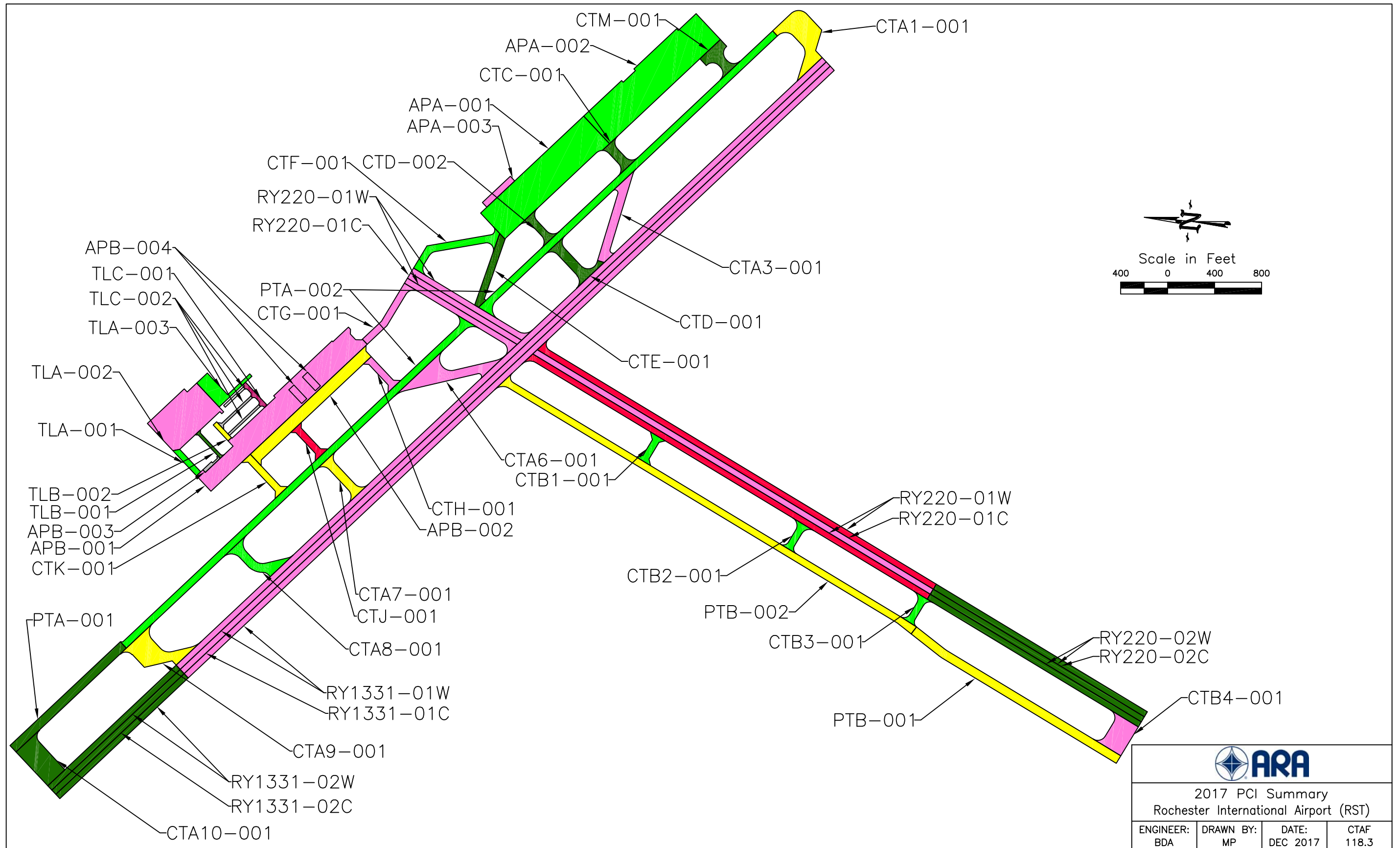


Figure 4. 2017 Pavement Condition Index Rating at Rochester International Airport (RST).



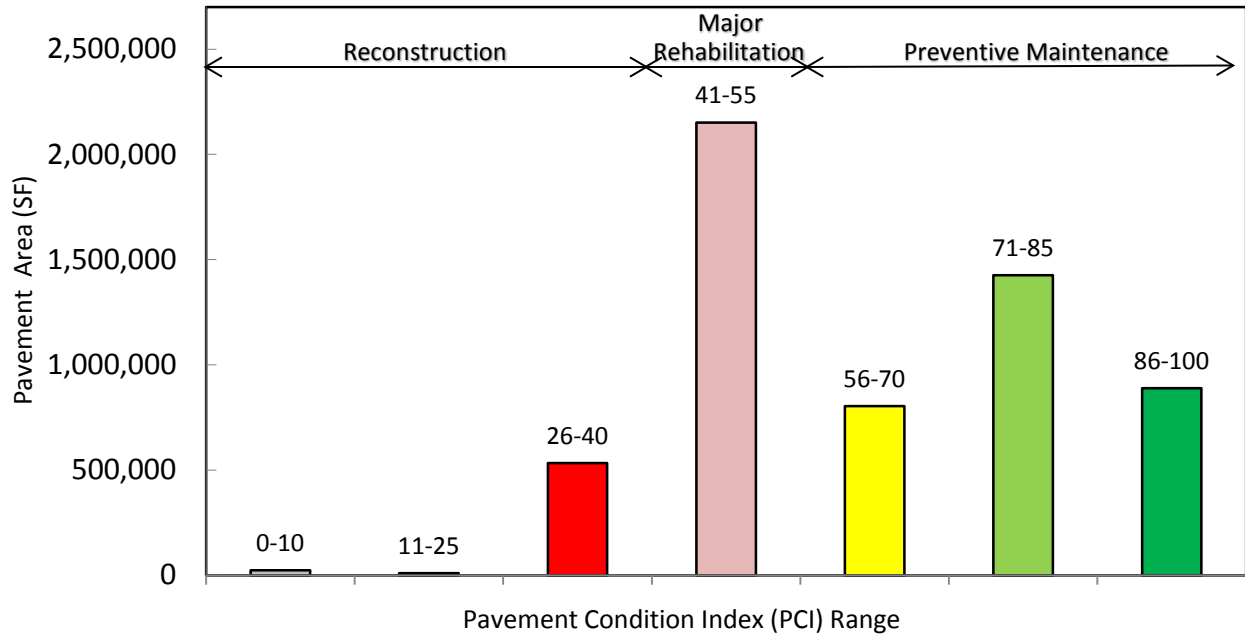


Figure 5. Condition distribution.

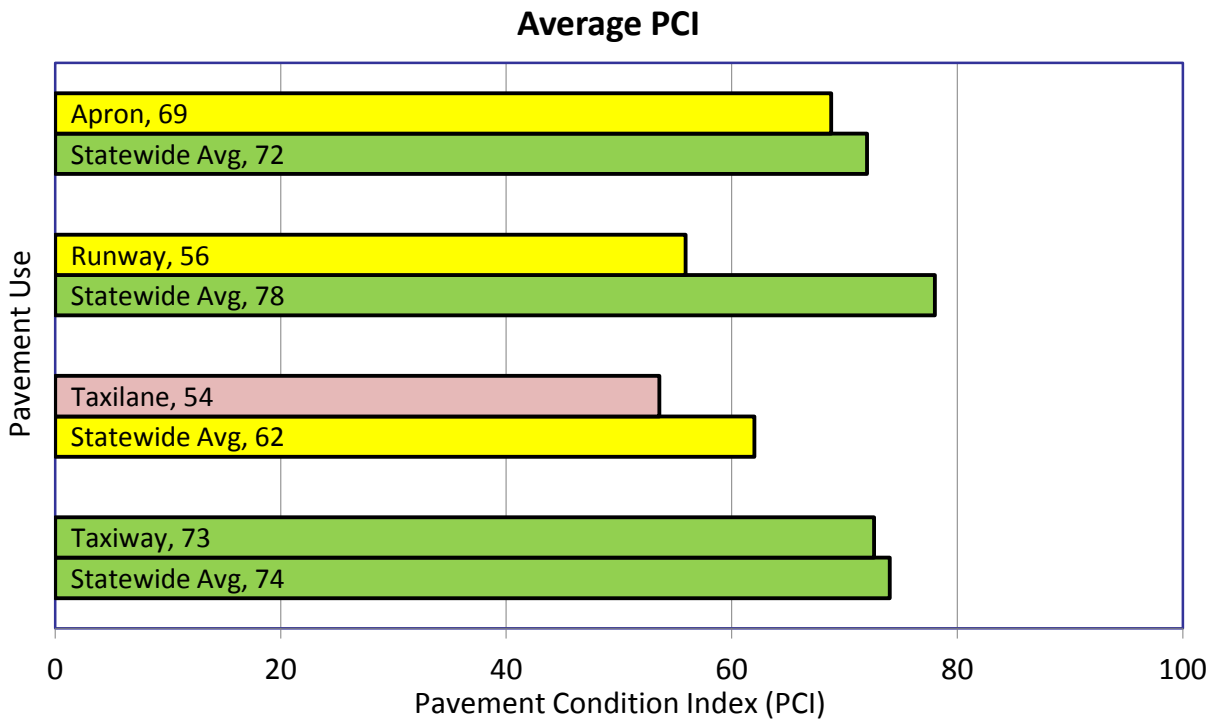


Figure 6. Area-weighted PCI by pavement use.

## 2.4 Projected PCI

After the 2017 distress data was entered into MicroPAVER and the PCI determined, a modeling approach was used to predict future PCI levels based on historical PCI data from Mn/DOT'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 7 shows the projected PCI at RST by percent area for the next 5 years assuming no major repairs (overlays, reconstruction, etc.) are performed during that period. It shows how quickly a pavement network can deteriorate when no capital improvements are made.

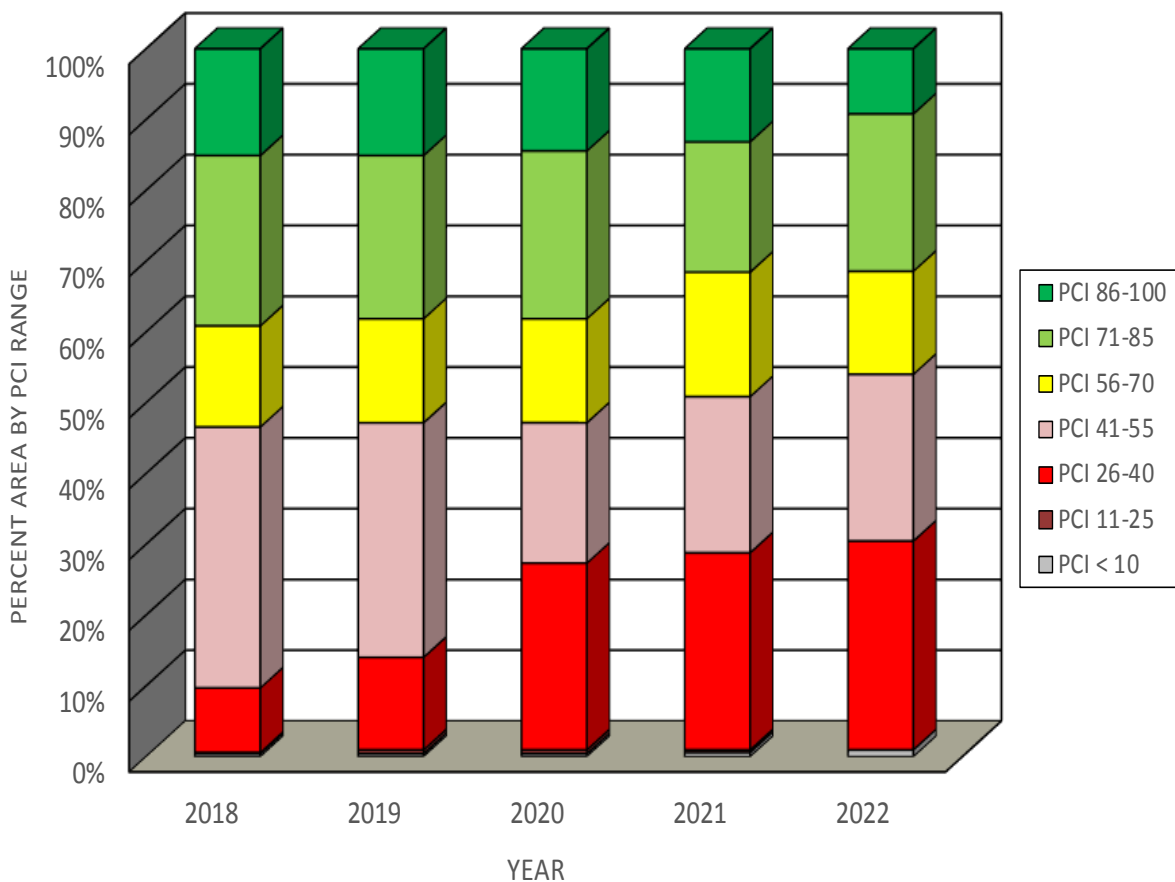


Figure 7. Projected PCI by percent area.



### 3. Recommendations

A 5-year maintenance and rehabilitation program was developed for RST based on the 2017 pavement inspections and the anticipated PCI deterioration for this period. 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 rehabilitations are applied globally and are capable of returning the pavement to a nearly distress free-state. Costs for both categories are based on industry averages and may have to be adjusted to account for local costs.

The last portion of the report covers the FAA Grant Assurance Number 11 and the steps the airport must take to remain in compliance with this program.

#### 3.1 Near Term Maintenance

Near term maintenance is considered activities such as crack sealing, patching, and surface treatments that help to slow down the rate that a pavement is deteriorating. Localized maintenance policies and unit costs were developed with Mn/DOT for both asphalt and PCC surfaces; each policy presents the recommended maintenance treatment for each distress/severity combination and are presented in appendix E.

Table 4 presents the summarized maintenance work quantities and estimated cost to apply this near term maintenance plan at RST. The repair quantities are based on extrapolated distress quantities from the 2017 PCI inspection. National averages of unit costs are used to estimate total costs for each treatment type; adjustments of local unit costs rates may be necessary for each airport to more accurately determine the maintenance budgetary needs.

Table 4. Summary of maintenance work plan.

Work Description	Work Quantity	Work Units	Unit Cost	Work Cost
Crack Sealing - AC	51,963	Ft	\$1.24/Ft	\$64,434
Crack Sealing - PCC	8,133	Ft	\$1.88/Ft	\$15,290
Grinding (Localized)	895	Ft	\$4.88/Ft	\$4,366
Joint Seal (Localized)	211,330	Ft	\$1.88/Ft	\$397,302
Patching - AC Deep	26,248	SqFt	\$11.59/SqFt	\$304,214
Patching - AC Shallow	592	SqFt	\$7.79/SqFt	\$4,613
Patching - PCC Full Depth	50,067	SqFt	\$72.86/SqFt	\$3,647,854
Patching - PCC Partial Depth	1,084	SqFt	\$10.47/SqFt	\$11,351
Slab Replacement - PCC	12,794	SqFt	\$39.22/SqFt	\$501,783
Surface Treatment	167,548	SqFt	\$0.51/SqFt	\$85,450
<b>Total</b>				<b>\$5,036,657</b>

Detailed results are reported by section and by treatment type in appendix F. Table F1 summarizes the maintenance that could be done for each pavement section by type of repair, and estimated quantity of repair. Likewise, table F2 summarizes the quantity for each repair type across the entire airport.

When using this plan, it is recommended that the entire 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. Maintenance treatments are most cost-effective when applied to pavements that are generally in good condition. It is also important to understand that the maintenance plan is based on the distress types, severities, and quantities found during the 2017 PCI survey. As field conditions change, the maintenance plan will become less accurate. Therefore, the maintenance plan will be most useful the sooner it is implemented. Applying maintenance treatments should be an annual event at the airport, and this maintenance plan can serve as a baseline for that work. Guidelines for performing crack sealing and patching techniques are provided in appendix G.

### 3.2 Major Rehabilitation

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, Mn/DOT, and FAA, table 5 provides a summary from MicroPAVER of the predicted 5-year pavement rehabilitation needs at RST. Although 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. Routine maintenance should also be programmed annually throughout the airport, but these efforts should be coordinated with the following rehabilitation recommendations.

The pavement sections identified for major rehabilitation in this report are at or are predicted to reach a condition level where either overlays or reconstruction should be considered. Note that this analysis is based on an unconstrained budget, and these recommendations will need to be adjusted to account for economic and operational considerations. Additionally, 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 Mn/DOT should view these recommendations as viable projects when preparing future Capital Improvement Plans (CIP).

Table 5. Recommended 5-year major rehabilitation plan.

Branch ID	Section ID	Year	Predicted PCI Before Rehab	Estimated Cost
APB	003	2018	0	\$37,216
APB	004	2018	53	\$102,228
CTA1	001	2018	61	\$390,417
CTA3	001	2018	48	\$360,633
CTA6	001	2018	47	\$527,228
CTB4	001	2018	54	\$304,484
CTG	001	2018	48	\$228,599
CTH	001	2018	45	\$139,297
CTJ	001	2018	26	\$187,341
CTK	001	2018	58	\$122,193
PTB	001	2018	59	\$649,845
RY1331	01C	2018	54	\$1,943,941
RY1331	01W	2018	45	\$4,856,737
RY220	01C	2018	43	\$1,682,619

Branch ID	Section ID	Year	Predicted PCI Before Rehab	Estimated Cost
RY220	01W	2018	39	\$3,666,504
TLC	001	2018	23	\$81,419
TLC	002	2018	0	\$166,880
CTA7	001	2019	54	\$179,344
CTA9	001	2021	54	\$414,661
APB	001	2022	50	\$2,034,189
<b>5-year Airport Total</b>				<b>\$18,075,775</b>

### 3.3 Federal Guidelines

In 1995, Congress mandated that the FAA require, as a condition of grant funding, that airports be prepared to present documentation of a maintenance management program on pavement that has been constructed, reconstructed, or repaired with Federal assistance.

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.

However, **the airport owner must be an active participant**, specifically by implementing the following actions:

- Annotate pavement areas that have been constructed, reconstructed, or repaired with Federal financial assistance.
- Conduct a "drive-by" inspection at least monthly to detect changes in pavement condition.
- Keep complete records of maintenance activities. Record the date of each "drive-by" inspection and any maintenance performed as a result. Records must be maintained on file for a minimum of 5 years.
- Document detailed inspection information with a history of recorded pavement deterioration by PCI survey (e.g., this report).

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

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*Appendix A*

# Sample Unit Maps

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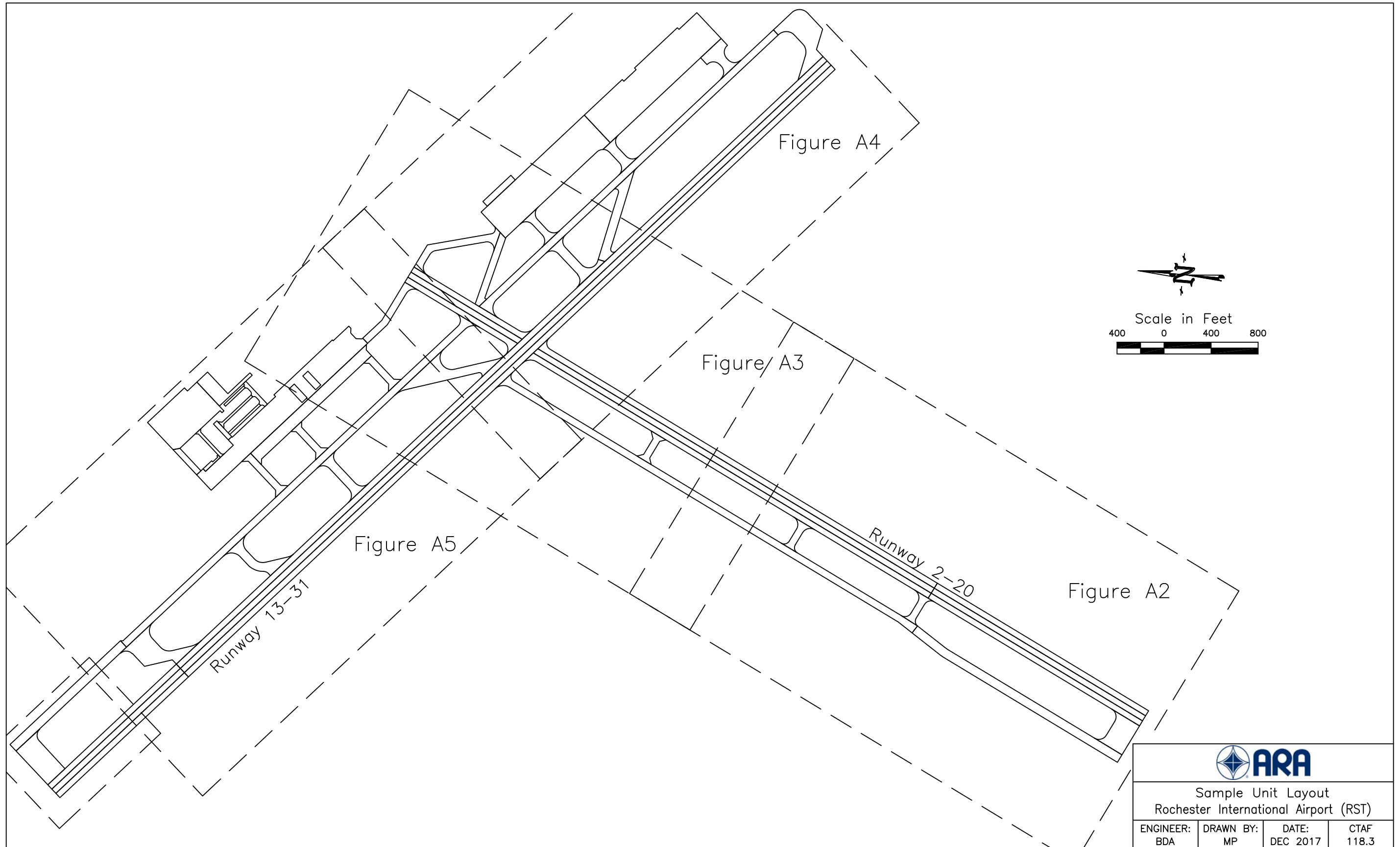
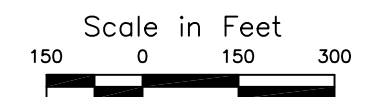
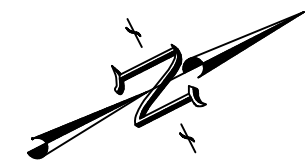
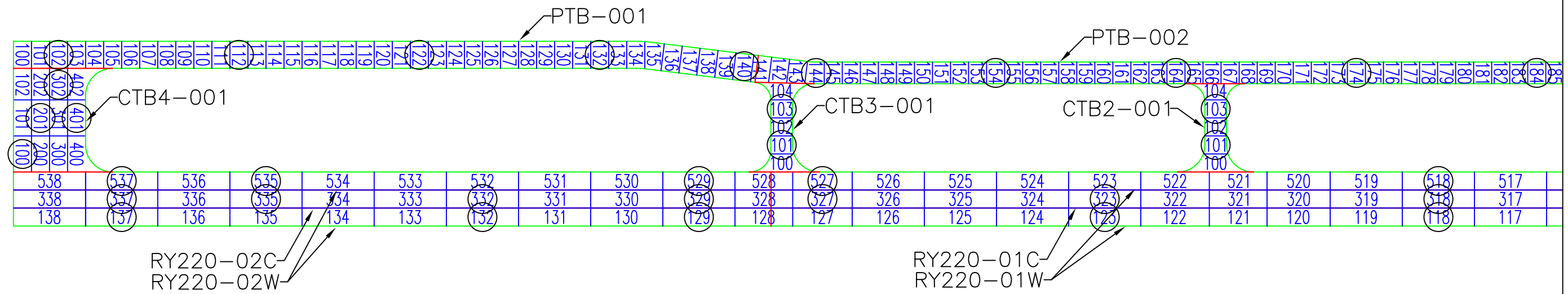


Figure A1. Sample Unity layout map (key) at Rochester International Airport (RST).





- Denotes sample unit surveyed
- ◇ Denotes additional sample unit surveyed



			
Sample Unit Layout Rochester International Airport (RST)			
ENGINEER: BDA	DRAWN BY: MP	DATE: DEC 2017	CTAF 118.3

Figure A.2 Sample unit layout map at Rochester International Airport (RST).



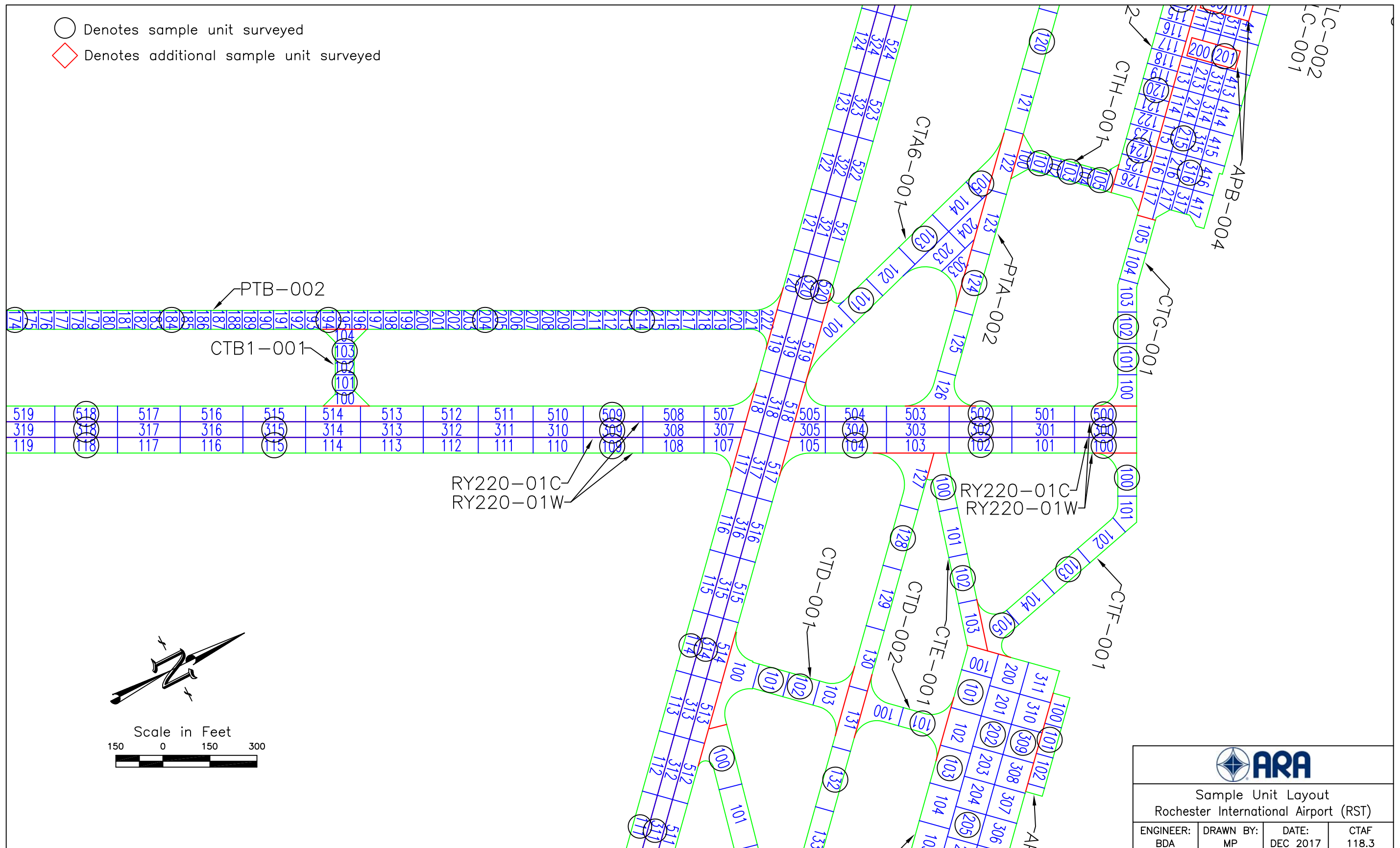


Figure A.3. Sample unit layout map at Rochester International Airport (RST).



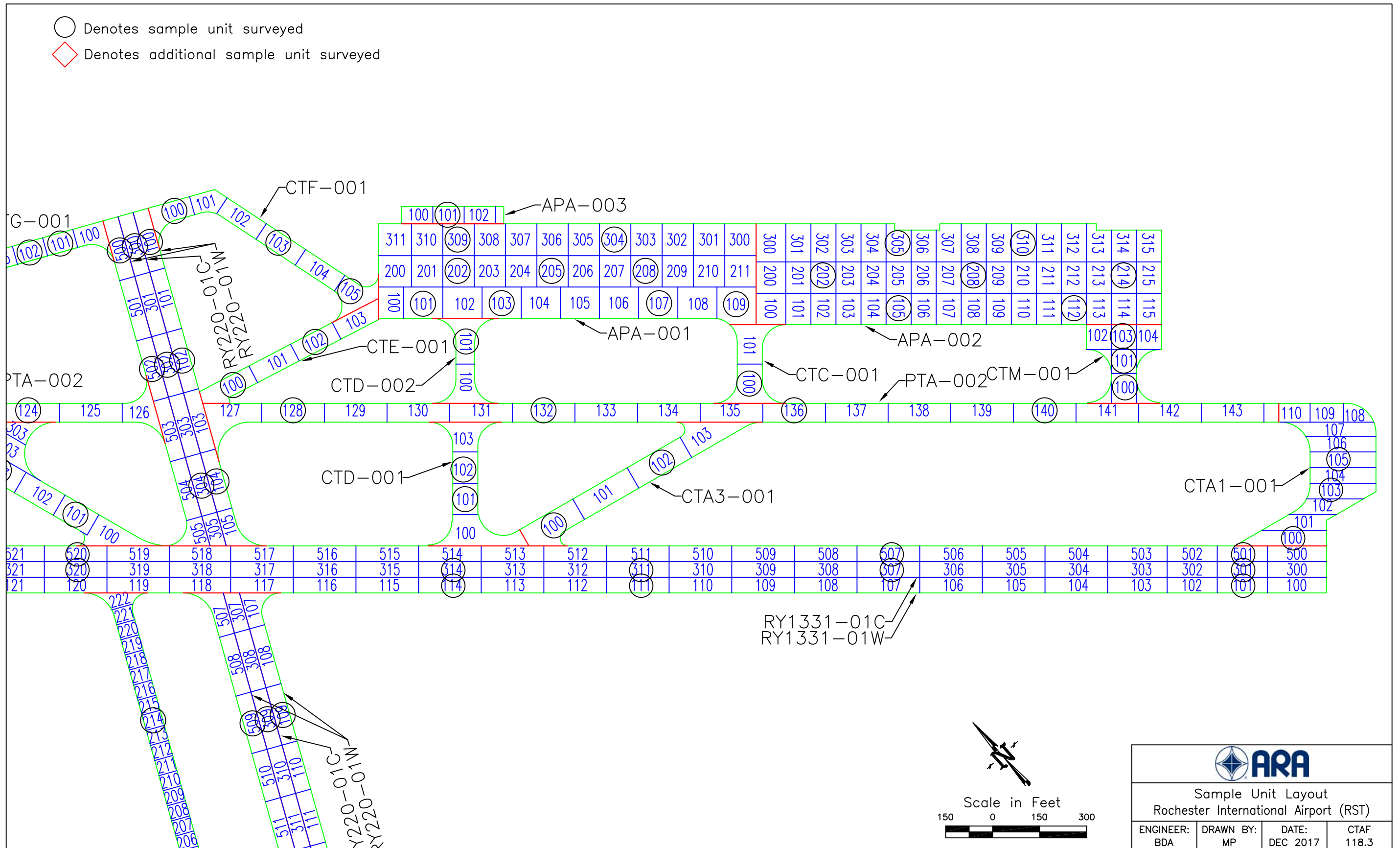


Figure A.4. Sample unit layout map at Rochester International Airport (RST).



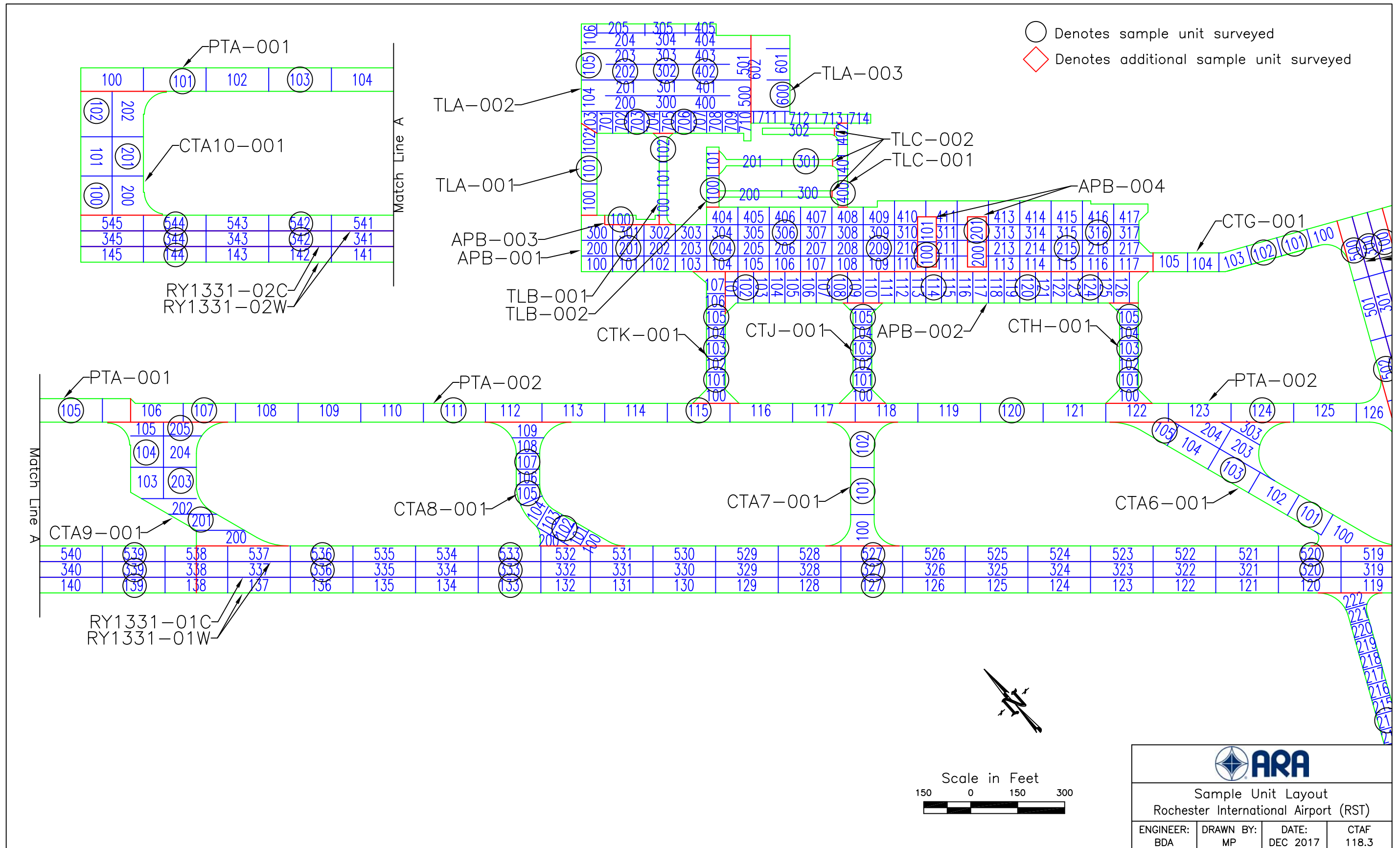


Figure A.5. Sample unit layout map at Rochester International Airport (RST).





*Appendix B*

# Pictures

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RST APA 001 (PCI = 75)



RST APA 001 (PCI = 75)



RST APA 002 (PCI = 79)



RST APA 003 (PCI = 70)





RST APB 001 (PCI = 53)



RST APB 002 (PCI = 66)





RST APB 003 (PCI = 0)



RST APB 004 (PCI = 54)



RST CTA1 001 (PCI = 62)



RST CTA3 001 (PCI = 49)





RST CTA6 001 (PCI = 48)



RST CTA7 001 (PCI = 57)





RST CTA8 001 (PCI = 73)



RST CTA9 001 (PCI = 61)





RST CTA10 001 (PCI = 90)



RST CTB1 001 (PCI = 75)





RST CTB2 001 (PCI = 83)



RST CTB3 001 (PCI = 49)

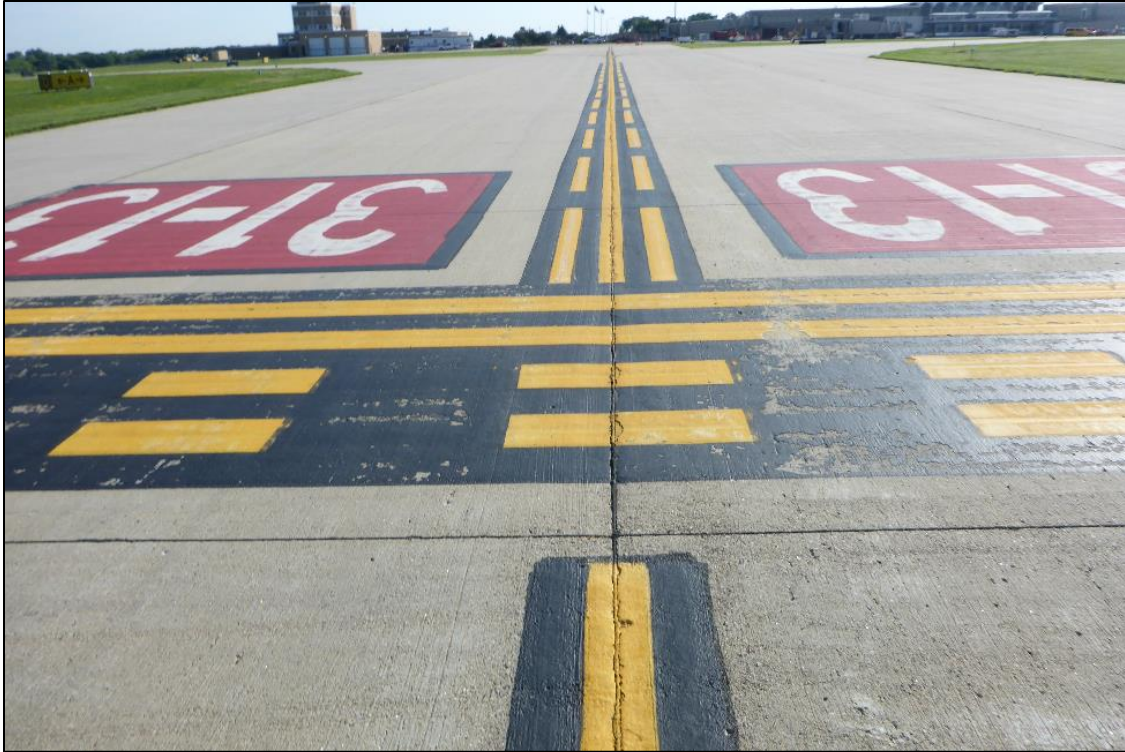




RST CTB4 001 (PCI = 55)



RST CTC 001 (PCI = 93)



RST CTD 001 (PCI = 96)



RST CTD 002 (PCI = 93)





RST CTE 001 (PCI = 93)



RST CTF 001 (PCI = 84)





RST CTG 001 (PCI = 49)



RST CTH 001 (PCI = 46)





RST CTJ 001 (PCI = 28)

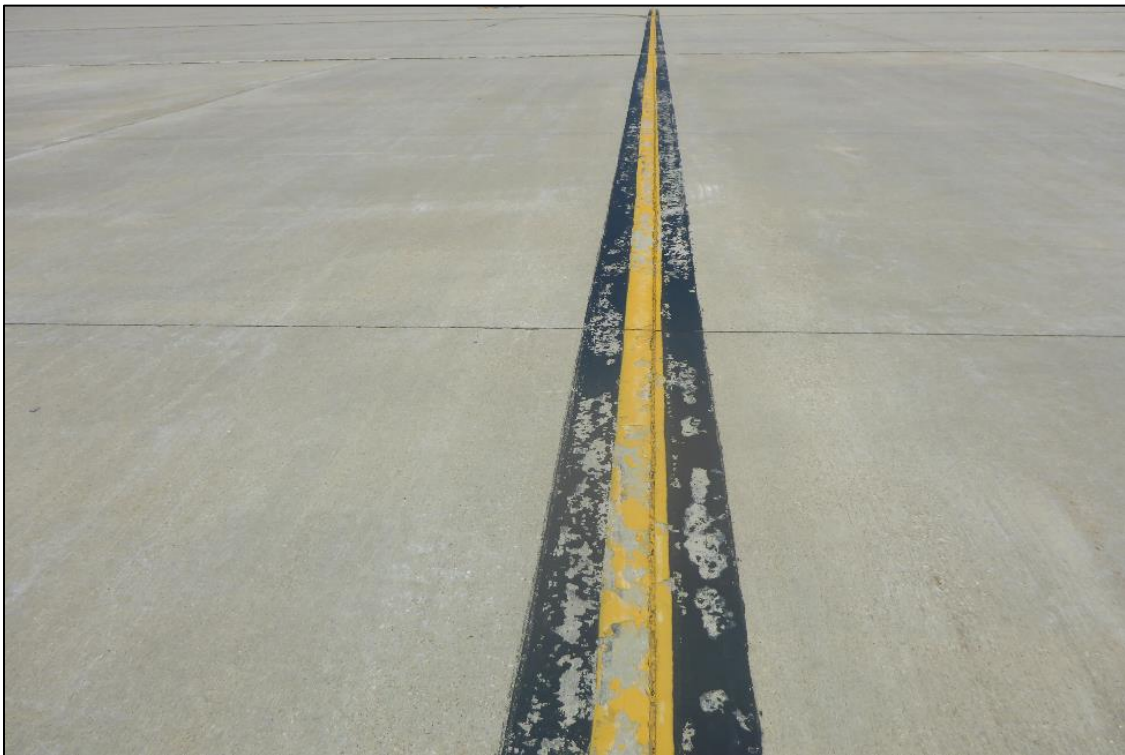


RST CTJ 001 (PCI = 28)





RST CTK 001 (PCI = 59)



RST CTM 001 (PCI = 88)



RST PTA 001 (PCI = 100)



RST PTA 001 (PCI = 100)





RST PTA 002 (PCI = 83)

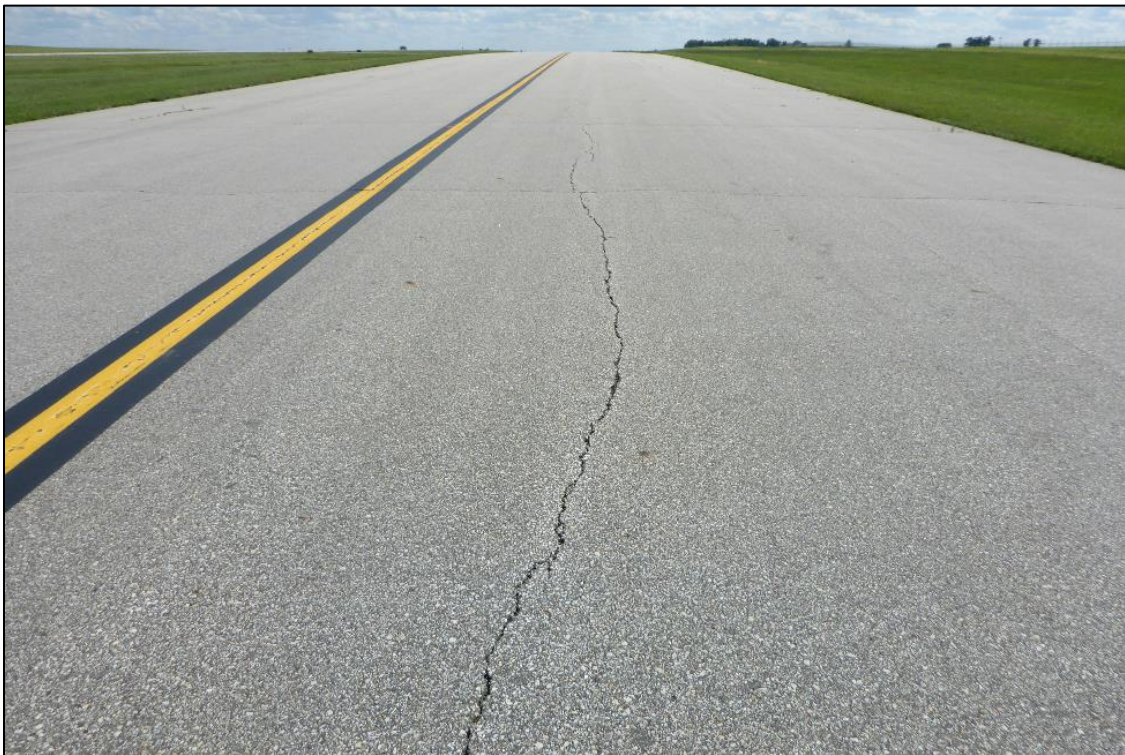


RST PTB 001 (PCI = 60)





RST PTB 002 (PCI = 68)



RST PTB 002 (PCI = 68)





RST RY220 01C (PCI = 44)



RST RY220 01C (PCI = 44)





RST RY220 01C (PCI = 44)



RST RY220 01W (PCI = 40)





RST RY220 01W (PCI = 40)



RST RY220 01W (PCI = 40)





RST RY220 01W (PCI = 40)



RST RY220 02C (PCI = 94)





RST RY220 02W (PCI = 91)



RST RY1331 01C (PCI = 55)





RST RY1331 01C (PCI = 55)



RST RY1331 01W BLOWUP (PCI = 46)





RST RY1331 01W (PCI = 46)



RST RY1331 02C (PCI = 89)





RST RY1331 02W (PCI = 90)



RST RY1331 02W (PCI = 90)





RST TLA 001 (PCI = 100)



RST TLA 002 (PCI = 55)





RST TLA 002 (PCI = 55)



RST TLA 003 (PCI = 71)





RST TLB 001 (PCI = 86)



RST TLC 001 (PCI = 25)





RST TLC 002 (PCI = 0)



*Appendix C*

# PCI Distress Report

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## Re-Inspection Report

<b>Network:</b>	RST		<b>Name:</b>	Rochester International Airport				
<b>Branch:</b>	APA	<b>Name:</b>	APRON A	<b>Use:</b>	APRON	<b>Area:</b>	793,460 SqFt	
<b>Section:</b>	001	of 3	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	S
<b>Area:</b>	365,660 SqFt	<b>Length:</b>	1,205 Ft	<b>Width:</b>	300 Ft			
<b>Slabs:</b>	585	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	27,415 Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017		<b>Total Samples:</b>	34	<b>Surveyed:</b>	9		
<b>Conditions:</b>	PCI: 75							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	101	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	78	
<b>Sample Comments:</b>								
65	JT SEAL DMG	M	20.00	Slabs				
66	SMALL PATCH	L	1.00	Slabs				
66	SMALL PATCH	L	1.00	Slabs				
63	LINEAR CR	L	1.00	Slabs				
63	LINEAR CR	L	1.00	Slabs				
63	LINEAR CR	L	1.00	Slabs				
63	LINEAR CR	L	1.00	Slabs				
63	LINEAR CR	L	1.00	Slabs				
<b>Sample Number:</b>	103	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	90	
<b>Sample Comments:</b>								
66	SMALL PATCH	L	1.00	Slabs				
66	SMALL PATCH	L	1.00	Slabs				
66	SMALL PATCH	L	1.00	Slabs				
65	JT SEAL DMG	M	20.00	Slabs				
66	SMALL PATCH	L	1.00	Slabs				
<b>Sample Number:</b>	107	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	91	
<b>Sample Comments:</b>								
73	SHRINKAGE CR	N	1.00	Slabs				
66	SMALL PATCH	L	1.00	Slabs				
65	JT SEAL DMG	M	20.00	Slabs				
<b>Sample Number:</b>	109	<b>Type:</b>	R	<b>Area:</b>	25.00 Slabs	<b>PCI:</b>	70	
<b>Sample Comments:</b>								
66	SMALL PATCH	M	1.00	Slabs				
65	JT SEAL DMG	H	25.00	Slabs				
63	LINEAR CR	L	1.00	Slabs				
66	SMALL PATCH	M	1.00	Slabs				
71	FAULTING	L	1.00	Slabs				
63	LINEAR CR	H	1.00	Slabs				
<b>Sample Number:</b>	202	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	84	
<b>Sample Comments:</b>								
67	LARGE PATCH	L	1.00	Slabs				
66	SMALL PATCH	L	4.00	Slabs				
66	SMALL PATCH	M	1.00	Slabs				
66	SMALL PATCH	L	1.00	Slabs				
66	SMALL PATCH	L	1.00	Slabs				
66	SMALL PATCH	L	4.00	Slabs				
67	LARGE PATCH	L	1.00	Slabs				
<b>Sample Number:</b>	205	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	63	
<b>Sample Comments:</b>								
63	LINEAR CR	L	1.00	Slabs				
63	LINEAR CR	L	1.00	Slabs				

Network:	RST	Name:	Rochester International Airport				
<b>Branch:</b>	APA	<b>Name:</b>	APRON A	<b>Use:</b>	APRON	<b>Area:</b>	793,460 SqFt
67	LARGE PATCH	L	1.00	Slabs			
66	SMALL PATCH	M	1.00	Slabs			
64	DURABIL. CR	L	1.00	Slabs			
67	LARGE PATCH	L	1.00	Slabs			
63	LINEAR CR	L	1.00	Slabs			
67	LARGE PATCH	L	1.00	Slabs			
67	LARGE PATCH	L	1.00	Slabs			
64	DURABIL. CR	L	1.00	Slabs			
64	DURABIL. CR	L	1.00	Slabs			
62	CORNER BREAK	L	1.00	Slabs			
66	SMALL PATCH	L	1.00	Slabs			
64	DURABIL. CR	L	1.00	Slabs			
63	LINEAR CR	L	1.00	Slabs			
63	LINEAR CR	L	1.00	Slabs			
64	DURABIL. CR	L	1.00	Slabs			
66	SMALL PATCH	L	1.00	Slabs			
63	LINEAR CR	L	1.00	Slabs			
67	LARGE PATCH	L	1.00	Slabs			
<b>Sample Number:</b>	208	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	70
<b>Sample Comments:</b>							
65	JT SEAL DMG	M	20.00	Slabs			
67	LARGE PATCH	L	1.00	Slabs			
66	SMALL PATCH	M	1.00	Slabs			
63	LINEAR CR	L	1.00	Slabs			
66	SMALL PATCH	L	1.00	Slabs			
63	LINEAR CR	M	1.00	Slabs			
66	SMALL PATCH	L	2.00	Slabs			
<b>Sample Number:</b>	304	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	55
<b>Sample Comments:</b>							
64	DURABIL. CR	L	20.00	Slabs			
67	LARGE PATCH	L	20.00	Slabs			
65	JT SEAL DMG	M	20.00	Slabs			
63	LINEAR CR	L	1.00	Slabs			
<b>Sample Number:</b>	309	<b>Type:</b>	R	<b>Area:</b>	26.00 Slabs	<b>PCI:</b>	72
<b>Sample Comments:</b>							
66	SMALL PATCH	L	1.00	Slabs			
66	SMALL PATCH	L	1.00	Slabs			
66	SMALL PATCH	M	1.00	Slabs			
63	LINEAR CR	L	1.00	Slabs			
66	SMALL PATCH	L	1.00	Slabs			
66	SMALL PATCH	L	1.00	Slabs			
67	LARGE PATCH	L	1.00	Slabs			
65	JT SEAL DMG	M	26.00	Slabs			
66	SMALL PATCH	L	1.00	Slabs			
66	SMALL PATCH	M	1.00	Slabs			
63	LINEAR CR	L	1.00	Slabs			
66	SMALL PATCH	L	1.00	Slabs			
66	SMALL PATCH	L	1.00	Slabs			
66	SMALL PATCH	M	1.00	Slabs			
63	LINEAR CR	L	1.00	Slabs			
63	LINEAR CR	L	1.00	Slabs			

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	APA	<b>Name:</b>	APRON A	<b>Use:</b>	APRON	<b>Area:</b>	793,460 SqFt	
<b>Section:</b>	002	of 3	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	S
<b>Area:</b>	409,650 SqFt	<b>Length:</b>	1,295 Ft	<b>Width:</b>	300 Ft			
<b>Slabs:</b>	655	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	29,485 Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	48	<b>Surveyed:</b>	7			
<b>Conditions:</b>	PCI: 79							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	105	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	63	
<b>Sample Comments:</b>								
65	JT SEAL DMG	H	20.00	Slabs				
69	PUMPING	N	8.00	Slabs				
<b>Sample Number:</b>	112	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	83	
<b>Sample Comments:</b>								
75	CORNER SPALL	H	1.00	Slabs				
65	JT SEAL DMG	H	20.00	Slabs				
<b>Sample Number:</b>	202	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	93	
<b>Sample Comments:</b>								
65	JT SEAL DMG	M	20.00	Slabs				
<b>Sample Number:</b>	208	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	53	
<b>Sample Comments:</b>								
65	JT SEAL DMG	H	20.00	Slabs				
69	PUMPING	N	2.00	Slabs				
69	PUMPING	N	1.00	Slabs				
69	PUMPING	N	4.00	Slabs				
71	FAULTING	M	1.00	Slabs				
71	FAULTING	L	1.00	Slabs				
69	PUMPING	N	1.00	Slabs				
<b>Sample Number:</b>	214	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	88	
<b>Sample Comments:</b>								
65	JT SEAL DMG	H	20.00	Slabs				
<b>Sample Number:</b>	305	<b>Type:</b>	R	<b>Area:</b>	22.00 Slabs	<b>PCI:</b>	78	
<b>Sample Comments:</b>								
65	JT SEAL DMG	M	22.00	Slabs				
63	LINEAR CR	L	1.00	Slabs				
72	SHAT. SLAB	L	1.00	Slabs				
75	CORNER SPALL	M	1.00	Slabs				
<b>Sample Number:</b>	310	<b>Type:</b>	R	<b>Area:</b>	24.00 Slabs	<b>PCI:</b>	93	
<b>Sample Comments:</b>								
65	JT SEAL DMG	M	24.00	Slabs				

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	APA	<b>Name:</b>	APRON A	<b>Use:</b>	APRON	<b>Area:</b>	793,460 SqFt	
<b>Section:</b>	003	of 3	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	AC	<b>Family:</b>	MN2013 Asphalt Aprons	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	S
<b>Area:</b>	18,150 SqFt	<b>Length:</b>	330 Ft	<b>Width:</b>	55 Ft			
<b>Slabs:</b>		<b>Slab Length:</b>	Ft	<b>Slab Width:</b>	Ft	<b>Joint Length:</b>	Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	3	<b>Surveyed:</b>	1			
<b>Conditions:</b>	PCI: 70							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	101	<b>Type:</b>	R	<b>Area:</b>	5500.00 SqFt	<b>PCI:</b>	70	
<b>Sample Comments:</b>								
48	L & T CR	M	53.00 Ft					
57	WEATHERING	M	5500.00 SqFt					
48	L & T CR	L	143.00 Ft					

**Network:** RST **Name:** Rochester International Airport  
**Branch:** APB **Name:** APRON B **Use:** APRON **Area:** 504,070 SqFt  
**Section:** 004 of 4 **From:** A **To:** B **Last Const.:** 1/1/2000  
**Surface:** PCC **Family:** MN2013 PCC **Zone:** **Category:** **Rank:** S  
**Area:** 19,200 SqFt **Length:** 180 Ft **Width:** 120 Ft  
**Slabs:** 31 **Slab Length:** 25 Ft **Slab Width:** 25 Ft **Joint Length:** 1,428 Ft  
**Shoulder:** **Street Type:** **Grade:** 0 **Lanes:** 0  
**Section Comments:**

**Last Insp. Date:** 6/25/2017 **TotalSamples:** 4 **Surveyed:** 2

**Conditions:** PCI: 54

**Inspection Comments:**

**Sample Number:** 100 **Type:** R **Area:** 12.00 Slabs **PCI:** 65

**Sample Comments:**

63	LINEAR CR	L	1.00 Slabs
63	LINEAR CR	L	1.00 Slabs
63	LINEAR CR	L	4.00 Slabs
65	JT SEAL DMG	M	12.00 Slabs
63	LINEAR CR	L	1.00 Slabs
63	LINEAR CR	L	1.00 Slabs
63	LINEAR CR	L	1.00 Slabs
63	LINEAR CR	L	1.00 Slabs
72	SHAT. SLAB	L	1.00 Slabs

**Sample Number:** 201 **Type:** R **Area:** 12.00 Slabs **PCI:** 42

**Sample Comments:**

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



<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	APB	<b>Name:</b>	APRON B	<b>Use:</b>	APRON	<b>Area:</b>	504,070 SqFt	
<b>Section:</b>	003	of 4	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 Asphalt Aprons	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	S
<b>Area:</b>	4,420 SqFt	<b>Length:</b>	170 Ft	<b>Width:</b>	30 Ft			
<b>Slabs:</b>	21	<b>Slab Length:</b>	15 Ft	<b>Slab Width:</b>	15 Ft	<b>Joint Length:</b>	480 Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	1	<b>Surveyed:</b>	1			
<b>Conditions: PCI:</b>								
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	100	<b>Type:</b>	R	<b>Area:</b>	21.00 Slabs	<b>PCI:</b>		
<b>Sample Comments:</b>								
72	SHAT. SLAB	H	21.00	Slabs				

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	APB	<b>Name:</b>	APRON B	<b>Use:</b>	APRON	<b>Area:</b>	504,070 SqFt	
<b>Section:</b>	001	of 4	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	AC	<b>Family:</b>	MN2013 Asphalt Aprons	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	S
<b>Area:</b>	347,400 SqFt	<b>Length:</b>	1,780 Ft	<b>Width:</b>	206 Ft			
<b>Slabs:</b>		<b>Slab Length:</b>	Ft	<b>Slab Width:</b>	Ft	<b>Joint Length:</b>	Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	65	<b>Surveyed:</b>	6			
<b>Conditions:</b>	PCI: 53	<b>Inspection Comments:</b>						
<b>Sample Number:</b>	201	<b>Type:</b>	R	<b>Area:</b>	5000.00 SqFt	<b>PCI:</b>	62	
<b>Sample Comments:</b>								
48	L & T CR	M	301.00 Ft					
48	L & T CR	L	195.00 Ft					
57	WEATHERING	L	4500.00 SqFt					
<b>Sample Number:</b>	204	<b>Type:</b>	R	<b>Area:</b>	5000.00 SqFt	<b>PCI:</b>	65	
<b>Sample Comments:</b>								
57	WEATHERING	L	4500.00 SqFt					
48	L & T CR	L	122.00 Ft					
57	WEATHERING	M	100.00 SqFt					
48	L & T CR	M	203.00 Ft					
<b>Sample Number:</b>	209	<b>Type:</b>	R	<b>Area:</b>	5000.00 SqFt	<b>PCI:</b>	60	
<b>Sample Comments:</b>								
48	L & T CR	M	285.00 Ft					
57	WEATHERING	M	125.00 SqFt					
57	WEATHERING	L	4500.00 SqFt					
48	L & T CR	L	109.00 Ft					
<b>Sample Number:</b>	215	<b>Type:</b>	R	<b>Area:</b>	5000.00 SqFt	<b>PCI:</b>	46	
<b>Sample Comments:</b>								
48	L & T CR	L	176.00 Ft					
41	ALLIGATOR CR	M	44.00 SqFt					
57	WEATHERING	L	4500.00 SqFt					
48	L & T CR	M	504.00 Ft					
57	WEATHERING	M	150.00 SqFt					
<b>Sample Number:</b>	306	<b>Type:</b>	R	<b>Area:</b>	5000.00 SqFt	<b>PCI:</b>	44	
<b>Sample Comments:</b>								
57	WEATHERING	M	100.00 SqFt					
48	L & T CR	M	265.00 Ft					
48	L & T CR	L	97.00 Ft					
48	L & T CR	L	4500.00 Ft					
<b>Sample Number:</b>	316	<b>Type:</b>	R	<b>Area:</b>	5000.00 SqFt	<b>PCI:</b>	42	
<b>Sample Comments:</b>								
48	L & T CR	M	180.00 Ft					
41	ALLIGATOR CR	M	120.00 SqFt					
57	WEATHERING	M	450.00 SqFt					
57	WEATHERING	L	4400.00 SqFt					
48	L & T CR	L	381.00 Ft					

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport						
<b>Branch:</b>	APB	<b>Name:</b>	APRON B	<b>Use:</b>	APRON	<b>Area:</b>	504,070 SqFt		
<b>Section:</b>	002	of 4	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000	
<b>Surface:</b>	AC	<b>Family:</b>	MN2013 Asphalt Aprons	<b>Zone:</b>		<b>Category:</b>		<b>Rank:</b>	S
<b>Area:</b>	133,050 SqFt	<b>Length:</b>	1,380 Ft	<b>Width:</b>	100 Ft				
<b>Slabs:</b>		<b>Slab Length:</b>	Ft	<b>Slab Width:</b>	Ft	<b>Joint Length:</b>	Ft		
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0		
<b>Section Comments:</b>									
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	27	<b>Surveyed:</b>	5				
<b>Conditions:</b>	PCI: 66								
<b>Inspection Comments:</b>									
<b>Sample Number:</b>	102	<b>Type:</b>	R	<b>Area:</b>	5000.00 SqFt	<b>PCI:</b>	71		
<b>Sample Comments:</b>									
57	WEATHERING	L		300.00	SqFt				
48	L & T CR	L		95.00	Ft				
48	L & T CR	M		193.00	Ft				
<b>Sample Number:</b>	108	<b>Type:</b>	R	<b>Area:</b>	5000.00 SqFt	<b>PCI:</b>	63		
<b>Sample Comments:</b>									
48	L & T CR	L		50.00	Ft				
48	L & T CR	L		413.00	Ft				
48	L & T CR	M		177.00	Ft				
41	ALLIGATOR CR	M		14.00	SqFt				
<b>Sample Number:</b>	114	<b>Type:</b>	R	<b>Area:</b>	5000.00 SqFt	<b>PCI:</b>	69		
<b>Sample Comments:</b>									
57	WEATHERING	L		200.00	SqFt				
48	L & T CR	L		299.00	Ft				
48	L & T CR	M		148.00	Ft				
41	ALLIGATOR CR	L		32.00	SqFt				
<b>Sample Number:</b>	120	<b>Type:</b>	R	<b>Area:</b>	5000.00 SqFt	<b>PCI:</b>	65		
<b>Sample Comments:</b>									
48	L & T CR	L		386.00	Ft				
48	L & T CR	M		180.00	Ft				
41	ALLIGATOR CR	L		36.00	SqFt				
<b>Sample Number:</b>	124	<b>Type:</b>	R	<b>Area:</b>	5000.00 SqFt	<b>PCI:</b>	62		
<b>Sample Comments:</b>									
57	WEATHERING	L		150.00	SqFt				
48	L & T CR	L		559.00	Ft				
45	DEPRESSION	L		19.00	SqFt				
48	L & T CR	M		82.00	Ft				
41	ALLIGATOR CR	L		8.00	SqFt				



<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	CTA1	<b>Name:</b>	CONNECTING TAXIWAY A1	<b>Use:</b>	TAXIWAY	<b>Area:</b>	98,740 SqFt	
<b>Section:</b>	001	of 1	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	P
<b>Area:</b>	98,740 SqFt	<b>Length:</b>	580 Ft	<b>Width:</b>	210 Ft			
<b>Slabs:</b>	158	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	8,954 Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	11	<b>Surveyed:</b>	3			
<b>Conditions:</b>	PCI: 62							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	100	<b>Type:</b>	R	<b>Area:</b>	23.00 Slabs	<b>PCI:</b>	66	
<b>Sample Comments:</b> 5 replacement slabs								
71	FAULTING	L	6.00	Slabs				
71	FAULTING	L	1.00	Slabs				
73	SHRINKAGE CR	N	1.00	Slabs				
67	LARGE PATCH	L	1.00	Slabs				
63	LINEAR CR	L	2.00	Slabs				
63	LINEAR CR	L	4.00	Slabs				
63	LINEAR CR	L	1.00	Slabs				
<b>Sample Number:</b>	103	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	61	
<b>Sample Comments:</b>								
62	CORNER BREAK	L	1.00	Slabs				
63	LINEAR CR	L	1.00	Slabs				
66	SMALL PATCH	L	2.00	Slabs				
66	SMALL PATCH	L	1.00	Slabs				
63	LINEAR CR	L	2.00	Slabs				
66	SMALL PATCH	L	1.00	Slabs				
62	CORNER BREAK	M	1.00	Slabs				
71	FAULTING	M	2.00	Slabs				
63	LINEAR CR	L	1.00	Slabs				
72	SHAT. SLAB	L	1.00	Slabs				
75	CORNER SPALL	L	1.00	Slabs				
<b>Sample Number:</b>	105	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	59	
<b>Sample Comments:</b>								
67	LARGE PATCH	L	4.00	Slabs				
67	LARGE PATCH	L	2.00	Slabs				
71	FAULTING	L	3.00	Slabs				
62	CORNER BREAK	L	2.00	Slabs				
63	LINEAR CR	L	1.00	Slabs				
66	SMALL PATCH	L	2.00	Slabs				
71	FAULTING	L	1.00	Slabs				
66	SMALL PATCH	L	4.00	Slabs				
75	CORNER SPALL	L	1.00	Slabs				
62	CORNER BREAK	L	2.00	Slabs				
66	SMALL PATCH	L	1.00	Slabs				

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	CTA10	<b>Name:</b>	CONNECTING TAXIWAY A10	<b>Use:</b>	TAXIWAY	<b>Area:</b>	80,550 SqFt	
<b>Section:</b>	001	of 1	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	P
<b>Area:</b>	80,550 SqFt	<b>Length:</b>	395 Ft	<b>Width:</b>	200 Ft			
<b>Slabs:</b>	129	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	5,725 Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	6	<b>Surveyed:</b>	3			
<b>Conditions:</b>	PCI: 90							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	100	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	82	
<b>Sample Comments:</b>								
73	SHRINKAGE CR	N	1.00	Slabs				
71	FAULTING	L	4.00	Slabs				
65	JT SEAL DMG	L	20.00	Slabs				
<b>Sample Number:</b>	102	<b>Type:</b>	R	<b>Area:</b>	24.00 Slabs	<b>PCI:</b>	90	
<b>Sample Comments:</b>								
74	JOINT SPALL	M	1.00	Slabs				
65	JT SEAL DMG	M	24.00	Slabs				
<b>Sample Number:</b>	201	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	98	
<b>Sample Comments:</b>								
65	JT SEAL DMG	L	20.00	Slabs				

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**Network:** RST **Name:** Rochester International Airport

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**Branch:** CTA3 **Name:** CONNECTING TAXIWAY A3 **Use:** TAXIWAY **Area:** 59,360 SqFt

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**Section:** 001 of 1 **From:** A **To:** B **Last Const.:** 1/1/2000

**Surface:** PCC **Family:** MN2013 PCC **Zone:** **Category:** **Rank:** P

**Area:** 59,360 SqFt **Length:** 790 Ft **Width:** 75 Ft

**Slabs:** 95 **Slab Length:** 25 Ft **Slab Width:** 25 Ft **Joint Length:** 3,875 Ft

**Shoulder:** **Street Type:** **Grade:** 0 **Lanes:** 0

**Section Comments:**

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**Last Insp. Date:** 6/25/2017 **TotalSamples:** 4 **Surveyed:** 2

**Conditions:** PCI: 49

**Inspection Comments:**

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**Sample Number:** 100 **Type:** R **Area:** 32.00 Slabs **PCI:** 54

**Sample Comments:**

66	SMALL PATCH	L	3.00 Slabs
67	LARGE PATCH	L	32.00 Slabs
63	LINEAR CR	L	3.00 Slabs
63	LINEAR CR	L	3.00 Slabs
75	CORNER SPALL	H	1.00 Slabs
66	SMALL PATCH	M	1.00 Slabs
72	SHAT. SLAB	L	3.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
63	LINEAR CR	L	1.00 Slabs

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**Sample Number:** 102 **Type:** R **Area:** 32.00 Slabs **PCI:** 44

**Sample Comments:**

64	DURABIL. CR	M	4.00 Slabs
64	DURABIL. CR	M	2.00 Slabs
63	LINEAR CR	M	1.00 Slabs
75	CORNER SPALL	M	1.00 Slabs
64	DURABIL. CR	L	6.00 Slabs
63	LINEAR CR	L	8.00 Slabs
67	LARGE PATCH	L	30.00 Slabs
64	DURABIL. CR	L	1.00 Slabs



<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	CTA6	<b>Name:</b>	CONNECTING TAXIWAY A6	<b>Use:</b>	TAXIWAY	<b>Area:</b>	85,110 SqFt	
<b>Section:</b>	001	of 1	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	P
<b>Area:</b>	85,110 SqFt	<b>Length:</b>	787 Ft	<b>Width:</b>	75 Ft			
<b>Slabs:</b>	136	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	3,860 Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	9	<b>Surveyed:</b>	3			
<b>Conditions:</b>	PCI: 48							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	101	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	49	
<b>Sample Comments:</b>								
64	DURABIL. CR	L	4.00	Slabs				
67	LARGE PATCH	L	16.00	Slabs				
66	SMALL PATCH	M	3.00	Slabs				
63	LINEAR CR	L	6.00	Slabs				
66	SMALL PATCH	L	2.00	Slabs				
64	DURABIL. CR	M	2.00	Slabs				
<b>Sample Number:</b>	103	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	42	
<b>Sample Comments:</b>								
64	DURABIL. CR	M	1.00	Slabs				
66	SMALL PATCH	L	2.00	Slabs				
62	CORNER BREAK	L	1.00	Slabs				
64	DURABIL. CR	L	3.00	Slabs				
67	LARGE PATCH	L	20.00	Slabs				
72	SHAT. SLAB	M	1.00	Slabs				
74	JOINT SPALL	L	1.00	Slabs				
63	LINEAR CR	L	9.00	Slabs				
<b>Sample Number:</b>	105	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	53	
<b>Sample Comments:</b>								
75	CORNER SPALL	L	4.00	Slabs				
66	SMALL PATCH	M	1.00	Slabs				
64	DURABIL. CR	L	7.00	Slabs				
66	SMALL PATCH	L	10.00	Slabs				
63	LINEAR CR	L	4.00	Slabs				
67	LARGE PATCH	L	16.00	Slabs				

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**Network:** RST **Name:** Rochester International Airport

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**Branch:** CTA7 **Name:** CONNECTING TAXIWAY A7 **Use:** TAXIWAY **Area:** 34,790 SqFt

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**Section:** 001 of 1 **From:** A **To:** B **Last Const.:** 1/1/2000

**Surface:** PCC **Family:** MN2013 PCC **Zone:** **Category:** **Rank:** P

**Area:** 34,790 SqFt **Length:** 395 Ft **Width:** 75 Ft

**Slabs:** 56 **Slab Length:** 25 Ft **Slab Width:** 25 Ft **Joint Length:** 1,900 Ft

**Shoulder:** **Street Type:** **Grade:** 0 **Lanes:** 0

**Section Comments:**

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**Last Insp. Date:** 6/25/2017 **TotalSamples:** 3 **Surveyed:** 2

**Conditions:** PCI: 57

**Inspection Comments:**

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**Sample Number:** 101 **Type:** R **Area:** 24.00 Slabs **PCI:** 51

**Sample Comments:**

64 DURABIL. CR M 1.00 Slabs

67 LARGE PATCH L 21.00 Slabs

64 DURABIL. CR L 5.00 Slabs

63 LINEAR CR L 6.00 Slabs

67 LARGE PATCH M 2.00 Slabs

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**Sample Number:** 102 **Type:** R **Area:** 24.00 Slabs **PCI:** 62

**Sample Comments:**

64 DURABIL. CR L 1.00 Slabs

72 SHAT. SLAB L 1.00 Slabs

66 SMALL PATCH L 6.00 Slabs

75 CORNER SPALL L 1.00 Slabs

63 LINEAR CR L 10.00 Slabs

64 DURABIL. CR M 1.00 Slabs

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	CTA8	<b>Name:</b>	CONNECTING TAXIWAY A8	<b>Use:</b>	TAXIWAY	<b>Area:</b>	44,420 SqFt	
<b>Section:</b>	001	of 1	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	AC	<b>Family:</b>	MN2013 Asphalt Taxiways	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	P
<b>Area:</b>	44,420 SqFt	<b>Length:</b>	510 Ft	<b>Width:</b>	75 Ft			
<b>Slabs:</b>		<b>Slab Length:</b>	Ft	<b>Slab Width:</b>	Ft	<b>Joint Length:</b>	Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	11	<b>Surveyed:</b>	3			
<b>Conditions:</b>	PCI: 73							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	102	<b>Type:</b>	R	<b>Area:</b>	3750.00 SqFt	<b>PCI:</b>	67	
<b>Sample Comments:</b>								
57	WEATHERING	L		1900.00	SqFt			
48	L & T CR	M		4.00	Ft			
48	L & T CR	L		397.00	Ft			
<b>Sample Number:</b>	105	<b>Type:</b>	R	<b>Area:</b>	3750.00 SqFt	<b>PCI:</b>	72	
<b>Sample Comments:</b>								
48	L & T CR	L		359.00	Ft			
57	WEATHERING	L		3500.00	SqFt			
<b>Sample Number:</b>	107	<b>Type:</b>	R	<b>Area:</b>	3750.00 SqFt	<b>PCI:</b>	79	
<b>Sample Comments:</b>								
48	L & T CR	L		319.00	Ft			

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport				
<b>Branch:</b>	CTA9	<b>Name:</b>	CONNECTING TAXIWAY A9	<b>Use:</b>	TAXIWAY	<b>Area:</b>	80,840 SqFt
<b>Section:</b>	001	of 1	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b> 1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b> P
<b>Area:</b>	80,840 SqFt	<b>Length:</b>	500 Ft	<b>Width:</b>	210 Ft		
<b>Slabs:</b>	129	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	7,690 Ft
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0
<b>Section Comments:</b>							
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	9	<b>Surveyed:</b>	4		
<b>Conditions:</b>	PCI: 61	<b>Inspection Comments:</b>					
<b>Sample Number:</b>	104	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	75
<b>Sample Comments:</b>							
66	SMALL PATCH	M	1.00	Slabs			
65	JT SEAL DMG	H	20.00	Slabs			
71	FAULTING	L	2.00	Slabs			
75	CORNER SPALL	M	2.00	Slabs			
<b>Sample Number:</b>	201	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	68
<b>Sample Comments:</b>							
63	LINEAR CR	L	1.00	Slabs			
63	LINEAR CR	L	1.00	Slabs			
72	SHAT. SLAB	L	1.00	Slabs			
66	SMALL PATCH	L	1.00	Slabs			
62	CORNER BREAK	M	1.00	Slabs			
65	JT SEAL DMG	H	16.00	Slabs			
<b>Sample Number:</b>	203	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	54
<b>Sample Comments:</b>							
64	DURABIL. CR	H	1.00	Slabs			
64	DURABIL. CR	L	1.00	Slabs			
65	JT SEAL DMG	H	20.00	Slabs			
75	CORNER SPALL	H	1.00	Slabs			
64	DURABIL. CR	M	3.00	Slabs			
66	SMALL PATCH	L	3.00	Slabs			
<b>Sample Number:</b>	205	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	43
<b>Sample Comments:</b>							
71	FAULTING	L	2.00	Slabs			
66	SMALL PATCH	M	2.00	Slabs			
71	FAULTING	M	2.00	Slabs			
65	JT SEAL DMG	H	16.00	Slabs			
64	DURABIL. CR	M	1.00	Slabs			
64	DURABIL. CR	L	3.00	Slabs			
75	CORNER SPALL	H	3.00	Slabs			
62	CORNER BREAK	L	1.00	Slabs			



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**Network:** RST **Name:** Rochester International Airport

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**Branch:** CTB1 **Name:** CONNECTING TAXIWAY B1 **Use:** TAXIWAY **Area:** 18,330 SqFt

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**Section:** 001 of 1 **From:** A **To:** B **Last Const.:** 1/1/2000

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**Surface:** AC **Family:** MN2013 Asphalt Taxiways **Zone:** **Category:** **Rank:** P

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**Area:** 18,330 SqFt **Length:** 245 Ft **Width:** 60 Ft

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**Slabs:** **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

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**Shoulder:** **Street Type:** **Grade:** 0 **Lanes:** 0

**Section Comments:**

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**Last Insp. Date:** 6/25/2017 **TotalSamples:** 5 **Surveyed:** 2

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**Conditions:** PCI: 75

**Inspection Comments:**

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**Sample Number:** 101 **Type:** R **Area:** 3000.00 SqFt **PCI:** 77

**Sample Comments:**

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48 L & T CR L 83.00 Ft

48 L & T CR M 77.00 Ft

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**Sample Number:** 103 **Type:** R **Area:** 3000.00 SqFt **PCI:** 72

**Sample Comments:**

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48 L & T CR M 119.00 Ft

48 L & T CR L 75.00 Ft

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**Network:** RST **Name:** Rochester International Airport

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**Branch:** CTB2 **Name:** CONNECTING TAXIWAY B2 **Use:** TAXIWAY **Area:** 18,190 SqFt

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**Section:** 001 of 1 **From:** A **To:** B **Last Const.:** 1/1/2000

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**Surface:** AC **Family:** MN2013 Asphalt Taxiways **Zone:** **Category:** **Rank:** P

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**Area:** 18,190 SqFt **Length:** 245 Ft **Width:** 60 Ft

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**Slabs:** **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

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**Shoulder:** **Street Type:** **Grade:** 0 **Lanes:** 0

**Section Comments:**

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**Last Insp. Date:** 6/25/2017 **TotalSamples:** 5 **Surveyed:** 2

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**Conditions:** PCI: 83

**Inspection Comments:**

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**Sample Number:** 101 **Type:** R **Area:** 3000.00 SqFt **PCI:** 87

**Sample Comments:**

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48 L & T CR L 45.00 Ft

48 L & T CR M 15.00 Ft

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**Sample Number:** 103 **Type:** R **Area:** 3000.00 SqFt **PCI:** 80

**Sample Comments:**

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48 L & T CR M 58.00 Ft

48 L & T CR L 74.00 Ft

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**Network:** RST **Name:** Rochester International Airport

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**Branch:** CTB3 **Name:** CONNECTING TAXIWAY B3 **Use:** TAXIWAY **Area:** 18,120 SqFt

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**Section:** 001 of 1 **From:** A **To:** B **Last Const.:** 1/1/2000

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**Surface:** AC **Family:** MN2013 Asphalt Taxiways **Zone:** **Category:** **Rank:** P

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**Area:** 18,120 SqFt **Length:** 245 Ft **Width:** 60 Ft

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**Slabs:** **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

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**Shoulder:** **Street Type:** **Grade:** 0 **Lanes:** 0

**Section Comments:**

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**Last Insp. Date:** 6/25/2017 **TotalSamples:** 5 **Surveyed:** 2

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**Conditions:** PCI: 80

**Inspection Comments:**

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**Sample Number:** 101 **Type:** R **Area:** 3000.00 SqFt **PCI:** 80

**Sample Comments:**

48 L & T CR M 24.00 Ft

48 L & T CR L 76.00 Ft

48 L & T CR L 73.00 Ft

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**Sample Number:** 103 **Type:** R **Area:** 3000.00 SqFt **PCI:** 79

**Sample Comments:**

48 L & T CR L 172.00 Ft

48 L & T CR M 52.00 Ft

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport						
<b>Branch:</b>	CTB4	<b>Name:</b>	CONNECTING TAXIWAY B4	<b>Use:</b>	TAXIWAY	<b>Area:</b>	59,920 SqFt		
<b>Section:</b>	001	of	1	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	AC	<b>Family:</b>	MN2013 Asphalt Taxiways	<b>Zone:</b>		<b>Category:</b>		<b>Rank:</b>	P
<b>Area:</b>	59,920 SqFt	<b>Length:</b>	287 Ft	<b>Width:</b>	200 Ft				
<b>Slabs:</b>		<b>Slab Length:</b>	Ft	<b>Slab Width:</b>	Ft	<b>Joint Length:</b>	Ft		
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0		
<b>Section Comments:</b>									
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	12	<b>Surveyed:</b>	4				
<b>Conditions:</b>	PCI: 55								
<b>Inspection Comments:</b>									
<b>Sample Number:</b>	100	<b>Type:</b>	R	<b>Area:</b>	5000.00 SqFt	<b>PCI:</b>	60		
<b>Sample Comments:</b>									
48	L & T CR	M	162.00	Ft					
43	BLOCK CR	M	400.00	SqFt					
48	L & T CR	L	79.00	Ft					
57	WEATHERING	L	4400.00	SqFt					
57	WEATHERING	M	600.00	SqFt					
<b>Sample Number:</b>	201	<b>Type:</b>	R	<b>Area:</b>	5000.00 SqFt	<b>PCI:</b>	34		
<b>Sample Comments:</b>									
41	ALLIGATOR CR	L	400.00	SqFt					
57	WEATHERING	M	400.00	SqFt					
57	WEATHERING	L	4600.00	SqFt					
48	L & T CR	M	152.00	Ft					
52	RAVELING	M	400.00	SqFt					
48	L & T CR	L	178.00	Ft					
<b>Sample Number:</b>	302	<b>Type:</b>	R	<b>Area:</b>	5000.00 SqFt	<b>PCI:</b>	66		
<b>Sample Comments:</b>									
57	WEATHERING	L	4600.00	SqFt					
57	WEATHERING	M	400.00	SqFt					
48	L & T CR	L	356.00	Ft					
48	L & T CR	M	107.00	Ft					
<b>Sample Number:</b>	401	<b>Type:</b>	R	<b>Area:</b>	5000.00 SqFt	<b>PCI:</b>	59		
<b>Sample Comments:</b>									
48	L & T CR	L	433.00	Ft					
57	WEATHERING	M	900.00	SqFt					
57	WEATHERING	L	4000.00	SqFt					
48	L & T CR	M	109.00	Ft					
52	RAVELING	H	3.00	SqFt					



<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	CTC	<b>Name:</b>	CONNECTING TAXIWAY C	<b>Use:</b>	TAXIWAY	<b>Area:</b>	24,110 SqFt	
<b>Section:</b>	001	of 1	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	P
<b>Area:</b>	24,110 SqFt	<b>Length:</b>	251 Ft	<b>Width:</b>	80 Ft			
<b>Slabs:</b>	39	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	1,275 Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	2	<b>Surveyed:</b>	1			
<b>Conditions:</b>	PCI: 93							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	100	<b>Type:</b>	R	<b>Area:</b>	32.00 Slabs	<b>PCI:</b>	93	
<b>Sample Comments:</b>								
65	JT SEAL DMG	M		32.00	Slabs			

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	CTD	<b>Name:</b>	CONNECTING TAXIWAY D	<b>Use:</b>	TAXIWAY	<b>Area:</b>	63,180 SqFt	
<b>Section:</b>	002	of 2	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	P
<b>Area:</b>	21,090 SqFt	<b>Length:</b>	271 Ft	<b>Width:</b>	60 Ft			
<b>Slabs:</b>	34	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	970 Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	2	<b>Surveyed:</b>	1			
<b>Conditions:</b>	PCI: 93							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	101	<b>Type:</b>	R	<b>Area:</b>	24.00 Slabs	<b>PCI:</b>	93	
<b>Sample Comments:</b>								
65	JT SEAL DMG	M		24.00	Slabs			

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	CTD	<b>Name:</b>	CONNECTING TAXIWAY D	<b>Use:</b>	TAXIWAY	<b>Area:</b>	63,180 SqFt	
<b>Section:</b>	001	of 2	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	P
<b>Area:</b>	42,090 SqFt	<b>Length:</b>	395 Ft	<b>Width:</b>	80 Ft			
<b>Slabs:</b>	67	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	2,053 Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	4	<b>Surveyed:</b>	2			
<b>Conditions:</b>	PCI: 96							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	101	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	93	
<b>Sample Comments:</b>								
65	JT SEAL DMG	M		16.00	Slabs			
<b>Sample Number:</b>	102	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	98	
<b>Sample Comments:</b>								
65	JT SEAL DMG	L		16.00	Slabs			

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	CTE	<b>Name:</b>	CONNECTING TAXIWAY E	<b>Use:</b>	TAXIWAY	<b>Area:</b>	37,970 SqFt	
<b>Section:</b>	001	of 1	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	P
<b>Area:</b>	37,970 SqFt	<b>Length:</b>	635 Ft	<b>Width:</b>	60 Ft			
<b>Slabs:</b>	61	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	2,353 Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	4	<b>Surveyed:</b>	2			
<b>Conditions:</b>	<b>PCI:</b>	93						
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	100	<b>Type:</b>	R	<b>Area:</b>	24.00 Slabs	<b>PCI:</b>	93	
<b>Sample Comments:</b>								
65	JT SEAL DMG	M		24.00	Slabs			
<b>Sample Number:</b>	102	<b>Type:</b>	R	<b>Area:</b>	18.00 Slabs	<b>PCI:</b>	93	
<b>Sample Comments:</b>								
75	CORNER SPALL	H		1.00	Slabs			
65	JT SEAL DMG	L		18.00	Slabs			



<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport						
<b>Branch:</b>	CTF	<b>Name:</b>	CONNECTING TAXIWAY F	<b>Use:</b>	TAXIWAY	<b>Area:</b>	53,330 SqFt		
<b>Section:</b>	001	of 1	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000	
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>		<b>Rank:</b>	P
<b>Area:</b>	53,330 SqFt	<b>Length:</b>	800 Ft	<b>Width:</b>	60 Ft				
<b>Slabs:</b>	85	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	2,980 Ft		
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0		
<b>Section Comments:</b>									
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	6	<b>Surveyed:</b>	3				
<b>Conditions:</b>	PCI: 84								
<b>Inspection Comments:</b>									
<b>Sample Number:</b>	100	<b>Type:</b>	R	<b>Area:</b>	29.00 Slabs	<b>PCI:</b>	82		
<b>Sample Comments:</b>									
65	JT SEAL DMG		H	29.00	Slabs				
74	JOINT SPALL		H	1.00	Slabs				
74	JOINT SPALL		L	1.00	Slabs				
<b>Sample Number:</b>	103	<b>Type:</b>	R	<b>Area:</b>	24.00 Slabs	<b>PCI:</b>	93		
<b>Sample Comments:</b>									
65	JT SEAL DMG		M	24.00	Slabs				
<b>Sample Number:</b>	105	<b>Type:</b>	R	<b>Area:</b>	24.00 Slabs	<b>PCI:</b>	77		
<b>Sample Comments:</b>									
66	SMALL PATCH		L	1.00	Slabs				
75	CORNER SPALL		H	1.00	Slabs				
65	JT SEAL DMG		H	24.00	Slabs				
64	DURABIL. CR		L	1.00	Slabs				
74	JOINT SPALL		M	1.00	Slabs				

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**Network:** RST **Name:** Rochester International Airport

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**Branch:** CTG **Name:** CONNECTING TAXIWAY G **Use:** TAXIWAY **Area:** 37,780 SqFt

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**Section:** 001 of 1 **From:** A **To:** B **Last Const.:** 1/1/2000

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**Surface:** AC **Family:** MN2013 Asphalt Taxiways **Zone:** **Category:** **Rank:** P

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**Area:** 37,780 SqFt **Length:** 610 Ft **Width:** 60 Ft

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**Slabs:** **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

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**Shoulder:** **Street Type:** **Grade:** 0 **Lanes:** 0

**Section Comments:**

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**Last Insp. Date:** 6/25/2017 **TotalSamples:** 6 **Surveyed:** 2

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**Conditions:** PCI: 49

**Inspection Comments:**

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**Sample Number:** 101 **Type:** R **Area:** 6000.00 SqFt **PCI:** 52

**Sample Comments:**

48 L & T CR L 131.00 Ft

48 L & T CR M 66.00 Ft

43 BLOCK CR L 3000.00 SqFt

57 WEATHERING M 3000.00 SqFt

43 BLOCK CR M 400.00 SqFt

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**Sample Number:** 102 **Type:** R **Area:** 6000.00 SqFt **PCI:** 47

**Sample Comments:**

43 BLOCK CR L 2500.00 SqFt

41 ALLIGATOR CR M 64.00 SqFt

52 RAVELING H 5.00 SqFt

48 L & T CR M 62.00 Ft

48 L & T CR L 370.00 Ft

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport				
<b>Branch:</b>	CTH	<b>Name:</b>	CONNECTING TAXIWAY H	<b>Use:</b>	TAXIWAY	<b>Area:</b>	21,700 SqFt
<b>Section:</b>	001	of 1	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b> 1/1/2000
<b>Surface:</b>	AC	<b>Family:</b>	MN2013 Asphalt Taxiways	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b> P
<b>Area:</b>	21,700 SqFt	<b>Length:</b>	320 Ft	<b>Width:</b>	80 Ft		
<b>Slabs:</b>		<b>Slab Length:</b>	Ft	<b>Slab Width:</b>	Ft	<b>Joint Length:</b>	Ft
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0
<b>Section Comments:</b>							
<b>Last Insp. Date:</b>	6/25/2017	<b>Total Samples:</b>	6	<b>Surveyed:</b>	3		
<b>Conditions:</b>	PCI: 46						
<b>Inspection Comments:</b>							
<b>Sample Number:</b>	101	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	51
<b>Sample Comments:</b>							
43	BLOCK CR	M	550.00	SqFt			
57	WEATHERING	L	65.00	SqFt			
48	L & T CR	H	10.00	Ft			
48	L & T CR	M	86.00	Ft			
48	L & T CR	L	220.00	Ft			
45	DEPRESSION	L	37.00	SqFt			
<b>Sample Number:</b>	103	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	48
<b>Sample Comments:</b>							
45	DEPRESSION	L	16.00	SqFt			
57	WEATHERING	L	400.00	SqFt			
41	ALLIGATOR CR	M	12.00	SqFt			
48	L & T CR	H	3.00	Ft			
48	L & T CR	M	68.00	Ft			
48	L & T CR	L	186.00	Ft			
43	BLOCK CR	L	1200.00	SqFt			
<b>Sample Number:</b>	105	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	41
<b>Sample Comments:</b>							
57	WEATHERING	L	200.00	SqFt			
41	ALLIGATOR CR	L	4.00	SqFt			
41	ALLIGATOR CR	M	6.00	SqFt			
48	L & T CR	L	307.00	Ft			
43	BLOCK CR	L	350.00	SqFt			
43	BLOCK CR	H	100.00	SqFt			
48	L & T CR	M	116.00	Ft			

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	CTJ	<b>Name:</b>	CONNECTING TAXIWAY J	<b>Use:</b>	TAXIWAY	<b>Area:</b>	22,250 SqFt	
<b>Section:</b>	001	of 1	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	AC	<b>Family:</b>	MN2013 Asphalt Taxiways	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	P
<b>Area:</b>	22,250 SqFt	<b>Length:</b>	320 Ft	<b>Width:</b>	80 Ft			
<b>Slabs:</b>		<b>Slab Length:</b>	Ft	<b>Slab Width:</b>	Ft	<b>Joint Length:</b>	Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>Total Samples:</b>	6	<b>Surveyed:</b>	3			
<b>Conditions:</b>	PCI: 28							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	101	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	17	
<b>Sample Comments:</b>								
43	BLOCK CR		L	1000.00	SqFt			
41	ALLIGATOR CR		M	250.00	SqFt			
43	BLOCK CR		H	1150.00	SqFt			
<b>Sample Number:</b>	103	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	28	
<b>Sample Comments:</b>								
41	ALLIGATOR CR		M	100.00	SqFt			
48	L & T CR		L	200.00	Ft			
43	BLOCK CR		H	900.00	SqFt			
<b>Sample Number:</b>	105	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	38	
<b>Sample Comments:</b>								
48	L & T CR		L	180.00	Ft			
43	BLOCK CR		H	500.00	SqFt			
43	BLOCK CR		M	130.00	SqFt			
48	L & T CR		M	20.00	Ft			



<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	CTK	<b>Name:</b>	CONNECTING TAXIWAY K	<b>Use:</b>	TAXIWAY	<b>Area:</b>	27,940 SqFt	
<b>Section:</b>	001	of 1	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	AC	<b>Family:</b>	MN2013 Asphalt Taxiways	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	P
<b>Area:</b>	27,940 SqFt	<b>Length:</b>	320 Ft	<b>Width:</b>	60 Ft			
<b>Slabs:</b>		<b>Slab Length:</b>	Ft	<b>Slab Width:</b>	Ft	<b>Joint Length:</b>	Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>Total Samples:</b>	8	<b>Surveyed:</b>	3			
<b>Conditions:</b>	PCI: 59	<b>Inspection Comments:</b>						
<b>Sample Number:</b>	101	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	62	
<b>Sample Comments:</b>								
43	BLOCK CR		L	3000.00	SqFt			
57	WEATHERING		M	69.00	SqFt			
<b>Sample Number:</b>	103	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	54	
<b>Sample Comments:</b>								
48	L & T CR		L	20.00	Ft			
57	WEATHERING		L	300.00	SqFt			
57	WEATHERING		M	300.00	SqFt			
43	BLOCK CR		L	2800.00	SqFt			
<b>Sample Number:</b>	105	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	62	
<b>Sample Comments:</b>								
43	BLOCK CR		L	3000.00	SqFt			
57	WEATHERING		L	450.00	SqFt			

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	CTM	<b>Name:</b>	CONNECTING TAXIWAY M	<b>Use:</b>	TAXIWAY	<b>Area:</b>	38,070 SqFt	
<b>Section:</b>	001	of 1	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	P
<b>Area:</b>	38,070 SqFt	<b>Length:</b>	251 Ft	<b>Width:</b>	240 Ft			
<b>Slabs:</b>	61	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	4,328 Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	5	<b>Surveyed:</b>	3			
<b>Conditions:</b>	PCI: 88							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	100	<b>Type:</b>	R	<b>Area:</b>	20.00 Slabs	<b>PCI:</b>	88	
<b>Sample Comments:</b>								
65	JT SEAL DMG		H		20.00 Slabs			
<b>Sample Number:</b>	101	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	88	
<b>Sample Comments:</b>								
75	CORNER SPALL		H		1.00 Slabs			
65	JT SEAL DMG		M		16.00 Slabs			
<b>Sample Number:</b>	103	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	88	
<b>Sample Comments:</b>								
65	JT SEAL DMG		H		16.00 Slabs			

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport						
<b>Branch:</b>	PTA	<b>Name:</b>	PARALLEL TAXIWAY A	<b>Use:</b>	TAXIWAY	<b>Area:</b>	550,920 SqFt		
<b>Section:</b>	002	of 2	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000	
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>		<b>Rank:</b>	P
<b>Area:</b>	454,170 SqFt	<b>Length:</b>	7,450 Ft	<b>Width:</b>	60 Ft				
<b>Slabs:</b>	727	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	28,250 Ft		
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0		
<b>Section Comments:</b>									
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	38	<b>Surveyed:</b>	9				
<b>Conditions:</b>	PCI: 83								
<b>Inspection Comments:</b>									
<b>Sample Number:</b>	107	<b>Type:</b>	R	<b>Area:</b>	32.00 Slabs	<b>PCI:</b>	66		
<b>Sample Comments:</b>									
66	SMALL PATCH	M	1.00	Slabs					
75	CORNER SPALL	M	1.00	Slabs					
75	CORNER SPALL	L	1.00	Slabs					
75	CORNER SPALL	H	1.00	Slabs					
73	SHRINKAGE CR	N	1.00	Slabs					
74	JOINT SPALL	M	1.00	Slabs					
65	JT SEAL DMG	M	32.00	Slabs					
63	LINEAR CR	H	1.00	Slabs					
75	CORNER SPALL	M	1.00	Slabs					
66	SMALL PATCH	M	1.00	Slabs					
63	LINEAR CR	L	1.00	Slabs					
<b>Sample Number:</b>	111	<b>Type:</b>	R	<b>Area:</b>	32.00 Slabs	<b>PCI:</b>	62		
<b>Sample Comments:</b>									
65	JT SEAL DMG	M	32.00	Slabs					
63	LINEAR CR	M	2.00	Slabs					
73	SHRINKAGE CR	N	1.00	Slabs					
64	DURABIL. CR	L	2.00	Slabs					
64	DURABIL. CR	M	2.00	Slabs					
74	JOINT SPALL	M	1.00	Slabs					
67	LARGE PATCH	L	1.00	Slabs					
66	SMALL PATCH	M	7.00	Slabs					
<b>Sample Number:</b>	115	<b>Type:</b>	R	<b>Area:</b>	32.00 Slabs	<b>PCI:</b>	87		
<b>Sample Comments:</b>									
63	LINEAR CR	L	1.00	Slabs					
65	JT SEAL DMG	M	32.00	Slabs					
74	JOINT SPALL	M	1.00	Slabs					
<b>Sample Number:</b>	120	<b>Type:</b>	R	<b>Area:</b>	32.00 Slabs	<b>PCI:</b>	77		
<b>Sample Comments:</b>									
64	DURABIL. CR	M	3.00	Slabs					
74	JOINT SPALL	M	1.00	Slabs					
65	JT SEAL DMG	M	32.00	Slabs					
<b>Sample Number:</b>	124	<b>Type:</b>	R	<b>Area:</b>	32.00 Slabs	<b>PCI:</b>	88		
<b>Sample Comments:</b>									
65	JT SEAL DMG	M	32.00	Slabs					
64	DURABIL. CR	M	1.00	Slabs					
<b>Sample Number:</b>	128	<b>Type:</b>	R	<b>Area:</b>	32.00 Slabs	<b>PCI:</b>	90		
<b>Sample Comments:</b>									
65	JT SEAL DMG	M	32.00	Slabs					
63	LINEAR CR	L	1.00	Slabs					
<b>Sample Number:</b>	132	<b>Type:</b>	R	<b>Area:</b>	32.00 Slabs	<b>PCI:</b>	93		
<b>Sample Comments:</b>									
65	JT SEAL DMG	M	32.00	Slabs					

<b>Branch:</b>	PTA	<b>Name:</b>	PARALLEL TAXIWAY A	<b>Use:</b>	TAXIWAY	<b>Area:</b>	550,920 SqFt
<b>Sample Number:</b>	136	<b>Type:</b>	R	<b>Area:</b>	32.00 Slabs	<b>PCI:</b>	92
<b>Sample Comments:</b>							
75	CORNER SPALL	L	1.00	Slabs			
65	JT SEAL DMG	M	32.00	Slabs			
<b>Sample Number:</b>	140	<b>Type:</b>	R	<b>Area:</b>	32.00 Slabs	<b>PCI:</b>	93
<b>Sample Comments:</b>							
65	JT SEAL DMG	M	32.00	Slabs			



<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	PTA	<b>Name:</b>	PARALLEL TAXIWAY A	<b>Use:</b>	TAXIWAY	<b>Area:</b>	550,920 SqFt	
<b>Section:</b>	001	of 2	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	P
<b>Area:</b>	96,750 SqFt	<b>Length:</b>	1,200 Ft	<b>Width:</b>	75 Ft			
<b>Slabs:</b>	155	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	5,925 Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	7	<b>Surveyed:</b>	3			
<b>Conditions:</b>	PCI: 100							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	101	<b>Type:</b>	R	<b>Area:</b>	24.00 Slabs	<b>PCI:</b>	100	
<b>Sample Comments:</b>								
<No Distress>								
<b>Sample Number:</b>	103	<b>Type:</b>	R	<b>Area:</b>	24.00 Slabs	<b>PCI:</b>	100	
<b>Sample Comments:</b>								
<No Distress>								
<b>Sample Number:</b>	105	<b>Type:</b>	R	<b>Area:</b>	24.00 Slabs	<b>PCI:</b>	100	
<b>Sample Comments:</b>								
<No Distress>								

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	PTB	<b>Name:</b>	PARALLEL TAXIWAY B	<b>Use:</b>	TAXIWAY	<b>Area:</b>	403,000 SqFt	
<b>Section:</b>	001	of 2	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	AC	<b>Family:</b>	MN2013 Asphalt Taxiways	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	P
<b>Area:</b>	154,700 SqFt	<b>Length:</b>	2,060 Ft	<b>Width:</b>	75 Ft			
<b>Slabs:</b>		<b>Slab Length:</b>	Ft	<b>Slab Width:</b>	Ft	<b>Joint Length:</b>	Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>Total Samples:</b>	41	<b>Surveyed:</b>	5			
<b>Conditions:</b>	PCI: 60	<b>Inspection Comments:</b>						
<b>Sample Number:</b>	102	<b>Type:</b>	R	<b>Area:</b>	3750.00 SqFt	<b>PCI:</b>	51	
<b>Sample Comments:</b>								
48	L & T CR	L	116.00	Ft				
48	L & T CR	M	72.00	Ft				
57	WEATHERING	L	3100.00	SqFt				
43	BLOCK CR	L	100.00	SqFt				
43	BLOCK CR	M	400.00	SqFt				
57	WEATHERING	M	550.00	SqFt				
48	L & T CR	L	41.00	Ft				
43	BLOCK CR	L	250.00	SqFt				
<b>Sample Number:</b>	112	<b>Type:</b>	R	<b>Area:</b>	3750.00 SqFt	<b>PCI:</b>	64	
<b>Sample Comments:</b>								
57	WEATHERING	L	3100.00	SqFt				
48	L & T CR	L	65.00	Ft				
48	L & T CR	M	50.00	Ft				
48	L & T CR	L	242.00	Ft				
48	L & T CR	M	50.00	Ft				
57	WEATHERING	M	400.00	SqFt				
<b>Sample Number:</b>	122	<b>Type:</b>	R	<b>Area:</b>	3750.00 SqFt	<b>PCI:</b>	57	
<b>Sample Comments:</b>								
48	L & T CR	M	123.00	Ft				
57	WEATHERING	M	400.00	SqFt				
57	WEATHERING	L	3100.00	SqFt				
48	L & T CR	L	532.00	Ft				
<b>Sample Number:</b>	132	<b>Type:</b>	R	<b>Area:</b>	3750.00 SqFt	<b>PCI:</b>	62	
<b>Sample Comments:</b>								
48	L & T CR	L	127.00	Ft				
48	L & T CR	L	251.00	Ft				
57	WEATHERING	M	400.00	SqFt				
48	L & T CR	M	40.00	Ft				
48	L & T CR	M	50.00	Ft				
57	WEATHERING	L	3100.00	SqFt				
<b>Sample Number:</b>	140	<b>Type:</b>	R	<b>Area:</b>	3750.00 SqFt	<b>PCI:</b>	66	
<b>Sample Comments:</b>								
57	WEATHERING	L	3100.00	SqFt				
48	L & T CR	L	244.00	Ft				
48	L & T CR	M	106.00	Ft				
57	WEATHERING	M	400.00	SqFt				

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport						
<b>Branch:</b>	PTB	<b>Name:</b>	PARALLEL TAXIWAY B	<b>Use:</b>	TAXIWAY	<b>Area:</b>	403,000 SqFt		
<b>Section:</b>	002	of 2	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000	
<b>Surface:</b>	AC	<b>Family:</b>	MN2013 Asphalt Taxiways	<b>Zone:</b>		<b>Category:</b>		<b>Rank:</b>	P
<b>Area:</b>	248,300 SqFt	<b>Length:</b>	4,085 Ft	<b>Width:</b>	60 Ft				
<b>Slabs:</b>		<b>Slab Length:</b>	Ft	<b>Slab Width:</b>	Ft	<b>Joint Length:</b>	Ft		
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0		
<b>Section Comments:</b>									
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	82	<b>Surveyed:</b>	8				
<b>Conditions:</b>	PCI: 68								
<b>Inspection Comments:</b>									
<b>Sample Number:</b>	144	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	66		
<b>Sample Comments:</b>									
48	L & T CR	L	214.00	Ft					
57	WEATHERING	L	3000.00	SqFt					
41	ALLIGATOR CR	M	3.00	SqFt					
48	L & T CR	M	80.00	Ft					
<b>Sample Number:</b>	154	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	73		
<b>Sample Comments:</b>									
48	L & T CR	L	92.00	Ft					
57	WEATHERING	L	3000.00	SqFt					
48	L & T CR	M	73.00	Ft					
<b>Sample Number:</b>	164	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	69		
<b>Sample Comments:</b>									
48	L & T CR	M	107.00	Ft					
57	WEATHERING	L	3000.00	SqFt					
48	L & T CR	L	261.00	Ft					
<b>Sample Number:</b>	174	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	64		
<b>Sample Comments:</b>									
57	WEATHERING	L	3000.00	SqFt					
48	L & T CR	L	214.00	Ft					
48	L & T CR	M	154.00	Ft					
<b>Sample Number:</b>	184	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	69		
<b>Sample Comments:</b>									
57	WEATHERING	L	3000.00	SqFt					
48	L & T CR	L	249.00	Ft					
48	L & T CR	M	98.00	Ft					
<b>Sample Number:</b>	194	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	66		
<b>Sample Comments:</b>									
48	L & T CR	L	235.00	Ft					
57	WEATHERING	L	3000.00	SqFt					
48	L & T CR	M	128.00	Ft					
<b>Sample Number:</b>	204	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	69		
<b>Sample Comments:</b>									
48	L & T CR	M	98.00	Ft					
57	WEATHERING	L	3000.00	SqFt					
48	L & T CR	L	251.00	Ft					
<b>Sample Number:</b>	214	<b>Type:</b>	R	<b>Area:</b>	3000.00 SqFt	<b>PCI:</b>	70		
<b>Sample Comments:</b>									
48	L & T CR	L	208.00	Ft					
48	L & T CR	M	95.00	Ft					
57	WEATHERING	L	3000.00	SqFt					

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	RY1331	<b>Name:</b>	RUNWAY 13-31	<b>Use:</b>	RUNWAY	<b>Area:</b>	1,357,410 SqFt	
<b>Section:</b>	02W	of 4	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	P
<b>Area:</b>	150,000 SqFt	<b>Length:</b>	1,500 Ft	<b>Width:</b>	100 Ft			
<b>Slabs:</b>	240	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	20,800 Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	16	<b>Surveyed:</b>	5			
<b>Conditions:</b>	PCI: 90							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	139	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	98	
<b>Sample Comments:</b>								
65	JT SEAL DMG	L		16.00	Slabs			
<b>Sample Number:</b>	144	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	88	
<b>Sample Comments:</b>								
65	JT SEAL DMG	M		16.00	Slabs			
75	CORNER SPALL	H		1.00	Slabs			
<b>Sample Number:</b>	539	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	100	
<b>Sample Comments:</b>								
<No Distress>								
<b>Sample Number:</b>	542	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	82	
<b>Sample Comments:</b>								
65	JT SEAL DMG	M		16.00	Slabs			
63	LINEAR CR	M		1.00	Slabs			
<b>Sample Number:</b>	544	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	83	
<b>Sample Comments:</b>								
74	JOINT SPALL	M		1.00	Slabs			
63	LINEAR CR	L		1.00	Slabs			
65	JT SEAL DMG	M		16.00	Slabs			



<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport						
<b>Branch:</b>	RY1331	<b>Name:</b>	RUNWAY 13-31	<b>Use:</b>	RUNWAY	<b>Area:</b>	1,357,410 SqFt		
<b>Section:</b>	02C	of 4	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000	
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>		<b>Rank:</b>	P
<b>Area:</b>	75,000 SqFt	<b>Length:</b>	1,500 Ft	<b>Width:</b>	50 Ft				
<b>Slabs:</b>	120	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	4,450 Ft		
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0		
<b>Section Comments:</b>									
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	8	<b>Surveyed:</b>	3				
<b>Conditions:</b>	PCI: 89								
<b>Inspection Comments:</b>									
<b>Sample Number:</b>	339	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	70		
<b>Sample Comments:</b>									
63	LINEAR CR	M	1.00	Slabs					
63	LINEAR CR	L	2.00	Slabs					
63	LINEAR CR	M	1.00	Slabs					
63	LINEAR CR	L	1.00	Slabs					
65	JT SEAL DMG	L	16.00	Slabs					
<b>Sample Number:</b>	342	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	98		
<b>Sample Comments:</b>									
65	JT SEAL DMG	L	16.00	Slabs					
<b>Sample Number:</b>	344	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	98		
<b>Sample Comments:</b>									
65	JT SEAL DMG	L	16.00	Slabs					

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport		
<b>Branch:</b>	RY1331	<b>Name:</b>	RUNWAY 13-31	<b>Use:</b>	RUNWAY
<b>Area:</b>				<b>Area:</b>	1,357,410 SqFt
<b>Section:</b>	01C	of 4	<b>From:</b>	A	<b>To:</b> B
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>	
<b>Area:</b>	377,470 SqFt	<b>Length:</b>	7,550 Ft	<b>Width:</b>	50 Ft
<b>Slabs:</b>	604	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0
<b>Joint Length:</b>				<b>Joint Length:</b>	22,600 Ft
<b>Lanes:</b>				<b>Lanes:</b>	0
<b>Section Comments:</b>					
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	29	<b>Surveyed:</b>	8
<b>Conditions:</b>	PCI: 55				
<b>Inspection Comments:</b>					
<b>Sample Number:</b>	301	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs
<b>PCI:</b>	40				
<b>Sample Comments:</b>					
71	FAULTING	M	1.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
67	LARGE PATCH	L	2.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
63	LINEAR CR	L	1.00	Slabs	
66	SMALL PATCH	L	1.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
65	JT SEAL DMG	M	16.00	Slabs	
62	CORNER BREAK	L	1.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
63	LINEAR CR	M	1.00	Slabs	
63	LINEAR CR	L	1.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
63	LINEAR CR	M	1.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
63	LINEAR CR	M	1.00	Slabs	
63	LINEAR CR	L	2.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
<b>Sample Number:</b>	307	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs
<b>PCI:</b>	72				
<b>Sample Comments:</b>					
66	SMALL PATCH	L	1.00	Slabs	
74	JOINT SPALL	M	1.00	Slabs	
66	SMALL PATCH	L	1.00	Slabs	
65	JT SEAL DMG	M	16.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
66	SMALL PATCH	L	1.00	Slabs	
66	SMALL PATCH	L	1.00	Slabs	
62	CORNER BREAK	M	1.00	Slabs	
<b>Sample Number:</b>	311	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs
<b>PCI:</b>	32				
<b>Sample Comments:</b>					
66	SMALL PATCH	M	1.00	Slabs	
66	SMALL PATCH	M	1.00	Slabs	
63	LINEAR CR	M	1.00	Slabs	
64	DURABIL. CR	M	1.00	Slabs	
65	JT SEAL DMG	M	16.00	Slabs	
66	SMALL PATCH	L	2.00	Slabs	
63	LINEAR CR	L	2.00	Slabs	
63	LINEAR CR	M	1.00	Slabs	
74	JOINT SPALL	H	1.00	Slabs	
75	CORNER SPALL	M	1.00	Slabs	
66	SMALL PATCH	L	2.00	Slabs	
63	LINEAR CR	M	1.00	Slabs	
72	SHAT. SLAB	M	1.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
63	LINEAR CR	L	1.00	Slabs	
63	LINEAR CR	L	1.00	Slabs	

<b>Sample Number:</b>	314	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	46
<b>Sample Comments:</b>							
63	LINEAR CR		M	1.00	Slabs		
63	LINEAR CR		M	1.00	Slabs		
63	LINEAR CR		M	1.00	Slabs		
63	LINEAR CR		L	1.00	Slabs		
63	LINEAR CR		L	1.00	Slabs		
66	SMALL PATCH		L	1.00	Slabs		
66	SMALL PATCH		L	1.00	Slabs		
66	SMALL PATCH		L	1.00	Slabs		
66	SMALL PATCH		L	1.00	Slabs		
63	LINEAR CR		L	2.00	Slabs		
63	LINEAR CR		M	1.00	Slabs		
63	LINEAR CR		M	1.00	Slabs		
67	LARGE PATCH		M	1.00	Slabs		
63	LINEAR CR		M	1.00	Slabs		
<hr/>							
<b>Sample Number:</b>	320	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	49
<b>Sample Comments:</b>							
63	LINEAR CR		L	1.00	Slabs		
63	LINEAR CR		L	2.00	Slabs		
62	CORNER BREAK		L	1.00	Slabs		
67	LARGE PATCH		L	1.00	Slabs		
65	JT SEAL DMG		M	16.00	Slabs		
63	LINEAR CR		L	1.00	Slabs		
67	LARGE PATCH		L	1.00	Slabs		
63	LINEAR CR		L	1.00	Slabs		
63	LINEAR CR		L	1.00	Slabs		
62	CORNER BREAK		M	1.00	Slabs		
72	SHAT. SLAB		L	2.00	Slabs		
66	SMALL PATCH		L	1.00	Slabs		
<hr/>							
<b>Sample Number:</b>	327	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	76
<b>Sample Comments:</b>							
63	LINEAR CR		L	2.00	Slabs		
66	SMALL PATCH		L	1.00	Slabs		
72	SHAT. SLAB		L	1.00	Slabs		
66	SMALL PATCH		L	1.00	Slabs		
66	SMALL PATCH		L	1.00	Slabs		
66	SMALL PATCH		L	1.00	Slabs		
65	JT SEAL DMG		L	16.00	Slabs		
66	SMALL PATCH		L	1.00	Slabs		
<hr/>							
<b>Sample Number:</b>	333	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	57
<b>Sample Comments:</b>							
67	LARGE PATCH		L	1.00	Slabs		
75	CORNER SPALL		M	1.00	Slabs		
65	JT SEAL DMG		L	16.00	Slabs		
67	LARGE PATCH		L	1.00	Slabs		
75	CORNER SPALL		H	1.00	Slabs		
67	LARGE PATCH		L	1.00	Slabs		
63	LINEAR CR		L	1.00	Slabs		
66	SMALL PATCH		L	1.00	Slabs		
74	JOINT SPALL		H	1.00	Slabs		
66	SMALL PATCH		L	1.00	Slabs		
64	DURABIL. CR		L	1.00	Slabs		
<hr/>							
<b>Sample Number:</b>	336	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	71
<b>Sample Comments:</b>							
63	LINEAR CR		M	1.00	Slabs		
63	LINEAR CR		L	4.00	Slabs		
65	JT SEAL DMG		L	16.00	Slabs		
63	LINEAR CR		L	1.00	Slabs		
63	LINEAR CR		L	1.00	Slabs		
63	LINEAR CR		L	1.00	Slabs		
63	LINEAR CR		L	1.00	Slabs		

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport		
<b>Branch:</b>	RY1331	<b>Name:</b>	RUNWAY 13-31	<b>Use:</b>	RUNWAY
		<b>Area:</b>	1,357,410 SqFt		
<b>Section:</b>	01W	of 4	<b>From:</b>	A	<b>To:</b> B
					<b>Last Const.:</b> 1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>	
				<b>Category:</b>	<b>Rank:</b> P
<b>Area:</b>	754,940 SqFt	<b>Length:</b>	7,550 Ft	<b>Width:</b>	100 Ft
<b>Slabs:</b>	1,208	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft
				<b>Joint Length:</b>	45,200 Ft
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0
				<b>Lanes:</b>	0
<b>Section Comments:</b>					
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	58	<b>Surveyed:</b>	11
<b>Conditions:</b>	PCI: 46				
<b>Inspection Comments:</b>					
<b>Sample Number:</b>	101	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs
				<b>PCI:</b>	53
<b>Sample Comments:</b>					
66	SMALL PATCH	L	2.00 Slabs		
67	LARGE PATCH	L	8.00 Slabs		
63	LINEAR CR	L	9.00 Slabs		
67	LARGE PATCH	L	8.00 Slabs		
64	DURABIL. CR	L	2.00 Slabs		
63	LINEAR CR	L	5.00 Slabs		
65	JT SEAL DMG	M	16.00 Slabs		
<b>Sample Number:</b>	111	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs
				<b>PCI:</b>	41
<b>Sample Comments:</b>					
71	FAULTING	M	2.00 Slabs		
75	CORNER SPALL	H	1.00 Slabs		
71	FAULTING	L	1.00 Slabs		
65	JT SEAL DMG	M	16.00 Slabs		
63	LINEAR CR	L	2.00 Slabs		
66	SMALL PATCH	L	1.00 Slabs		
63	LINEAR CR	L	3.00 Slabs		
63	LINEAR CR	M	3.00 Slabs		
<b>Sample Number:</b>	114	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs
				<b>PCI:</b>	13
<b>Sample Comments:</b>					
63	LINEAR CR	M	2.00 Slabs		
63	LINEAR CR	L	1.00 Slabs		
63	LINEAR CR	M	1.00 Slabs		
66	SMALL PATCH	M	1.00 Slabs		
64	DURABIL. CR	M	1.00 Slabs		
66	SMALL PATCH	L	3.00 Slabs		
63	LINEAR CR	H	1.00 Slabs		
72	SHAT. SLAB	H	1.00 Slabs		
66	SMALL PATCH	L	4.00 Slabs		
63	LINEAR CR	L	4.00 Slabs		
63	LINEAR CR	M	3.00 Slabs		
64	DURABIL. CR	M	2.00 Slabs		
65	JT SEAL DMG	H	16.00 Slabs		
<b>Sample Number:</b>	127	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs
				<b>PCI:</b>	41
<b>Sample Comments:</b>					
65	JT SEAL DMG	L	16.00 Slabs		
63	LINEAR CR	L	1.00 Slabs		
66	SMALL PATCH	L	6.00 Slabs		
64	DURABIL. CR	L	1.00 Slabs		
63	LINEAR CR	M	7.00 Slabs		
66	SMALL PATCH	L	3.00 Slabs		
63	LINEAR CR	M	1.00 Slabs		
<b>Sample Number:</b>	133	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs
				<b>PCI:</b>	33
<b>Sample Comments:</b>					
65	JT SEAL DMG	H	16.00 Slabs		
66	SMALL PATCH	L	2.00 Slabs		
64	DURABIL. CR	M	3.00 Slabs		

66	SMALL PATCH	L	2.00 Slabs
66	SMALL PATCH	L	4.00 Slabs
63	LINEAR CR	M	3.00 Slabs
63	LINEAR CR	M	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
71	FAULTING	L	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
74	JOINT SPALL	M	1.00 Slabs

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**Sample Number:** 501      **Type:** R      **Area:** 16.00 Slabs      **PCI:** 47

**Sample Comments:**

67	LARGE PATCH	L	3.00 Slabs
63	LINEAR CR	L	6.00 Slabs
66	SMALL PATCH	L	5.00 Slabs
65	JT SEAL DMG	L	16.00 Slabs
63	LINEAR CR	M	3.00 Slabs
67	LARGE PATCH	L	3.00 Slabs
66	SMALL PATCH	L	6.00 Slabs
63	LINEAR CR	L	2.00 Slabs

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**Sample Number:** 507      **Type:** R      **Area:** 16.00 Slabs      **PCI:** 83

**Sample Comments:**

66	SMALL PATCH	L	4.00 Slabs
66	SMALL PATCH	L	3.00 Slabs
65	JT SEAL DMG	L	16.00 Slabs
63	LINEAR CR	L	2.00 Slabs

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**Sample Number:** 520      **Type:** R      **Area:** 16.00 Slabs      **PCI:** 50

**Sample Comments:**

65	JT SEAL DMG	M	16.00 Slabs
66	SMALL PATCH	L	6.00 Slabs
66	SMALL PATCH	L	2.00 Slabs
63	LINEAR CR	M	5.00 Slabs
64	DURABIL. CR	M	1.00 Slabs

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**Sample Number:** 527      **Type:** R      **Area:** 16.00 Slabs      **PCI:** 61

**Sample Comments:**

66	SMALL PATCH	M	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
75	CORNER SPALL	H	2.00 Slabs
63	LINEAR CR	M	1.00 Slabs
66	SMALL PATCH	M	1.00 Slabs
63	LINEAR CR	L	3.00 Slabs
63	LINEAR CR	L	1.00 Slabs
65	JT SEAL DMG	L	16.00 Slabs
66	SMALL PATCH	L	2.00 Slabs

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**Sample Number:** 533      **Type:** R      **Area:** 16.00 Slabs      **PCI:** 49

**Sample Comments:**

65	JT SEAL DMG	M	16.00 Slabs
64	DURABIL. CR	L	3.00 Slabs
64	DURABIL. CR	L	2.00 Slabs
64	DURABIL. CR	L	2.00 Slabs
72	SHAT. SLAB	L	1.00 Slabs
63	LINEAR CR	L	1.00 Slabs
66	SMALL PATCH	L	2.00 Slabs
64	DURABIL. CR	M	3.00 Slabs
66	SMALL PATCH	L	5.00 Slabs
63	LINEAR CR	L	1.00 Slabs

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**Sample Number:** 536      **Type:** R      **Area:** 16.00 Slabs      **PCI:** 37

**Sample Comments:**

65	JT SEAL DMG	M	16.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
63	LINEAR CR	M	1.00 Slabs
63	LINEAR CR	L	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
63	LINEAR CR	M	1.00 Slabs



63	LINEAR CR	L	2.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
66	SMALL PATCH	L	3.00 Slabs
64	DURABIL. CR	L	2.00 Slabs
72	SHAT. SLAB	L	1.00 Slabs
63	LINEAR CR	L	2.00 Slabs
64	DURABIL. CR	L	1.00 Slabs

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport						
<b>Branch:</b>	RY220	<b>Name:</b>	RUNWAY 2-20	<b>Use:</b>	RUNWAY	<b>Area:</b>	1,077,780 SqFt		
<b>Section:</b>	01W	of 4	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000	
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>		<b>Rank:</b>	P
<b>Area:</b>	510,540 SqFt	<b>Length:</b>	5,044 Ft	<b>Width:</b>	100 Ft				
<b>Slabs:</b>	817	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	30,164 Ft		
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0		
<b>Section Comments:</b>									
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	56	<b>Surveyed:</b>	12				
<b>Conditions:</b>	PCI: 40								
<b>Inspection Comments:</b>									
<b>Sample Number:</b>	100	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	67		
<b>Sample Comments:</b>									
67	LARGE PATCH	L	4.00	Slabs					
74	JOINT SPALL	M	1.00	Slabs					
67	LARGE PATCH	L	2.00	Slabs					
66	SMALL PATCH	L	1.00	Slabs					
67	LARGE PATCH	L	6.00	Slabs					
65	JT SEAL DMG	M	16.00	Slabs					
74	JOINT SPALL	M	1.00	Slabs					
66	SMALL PATCH	L	1.00	Slabs					
<b>Sample Number:</b>	102	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	33		
<b>Sample Comments:</b>									
64	DURABIL. CR	M	2.00	Slabs					
64	DURABIL. CR	L	4.00	Slabs					
75	CORNER SPALL	L	1.00	Slabs					
65	JT SEAL DMG	H	16.00	Slabs					
75	CORNER SPALL	L	1.00	Slabs					
64	DURABIL. CR	M	2.00	Slabs					
66	SMALL PATCH	L	8.00	Slabs					
67	LARGE PATCH	L	7.00	Slabs					
66	SMALL PATCH	M	2.00	Slabs					
67	LARGE PATCH	L	2.00	Slabs					
67	LARGE PATCH	L	4.00	Slabs					
64	DURABIL. CR	L	2.00	Slabs					
67	LARGE PATCH	M	1.00	Slabs					
75	CORNER SPALL	M	1.00	Slabs					
<b>Sample Number:</b>	104	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	31		
<b>Sample Comments:</b>									
64	DURABIL. CR	M	3.00	Slabs					
64	DURABIL. CR	M	1.00	Slabs					
63	LINEAR CR	M	1.00	Slabs					
67	LARGE PATCH	L	3.00	Slabs					
71	FAULTING	M	1.00	Slabs					
65	JT SEAL DMG	M	16.00	Slabs					
66	SMALL PATCH	L	6.00	Slabs					
67	LARGE PATCH	L	2.00	Slabs					
64	DURABIL. CR	M	1.00	Slabs					
64	DURABIL. CR	L	1.00	Slabs					
64	DURABIL. CR	M	2.00	Slabs					
64	DURABIL. CR	L	7.00	Slabs					
66	SMALL PATCH	L	1.00	Slabs					
67	LARGE PATCH	M	1.00	Slabs					
<b>Sample Number:</b>	109	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	42		
<b>Sample Comments:</b>									
64	DURABIL. CR	M	1.00	Slabs					
67	LARGE PATCH	M	1.00	Slabs					
64	DURABIL. CR	L	5.00	Slabs					
64	DURABIL. CR	L	3.00	Slabs					
67	LARGE PATCH	L	3.00	Slabs					

<b>Branch:</b>	RY220	<b>Name:</b>	RUNWAY 2-20	<b>Use:</b>	RUNWAY	<b>Area:</b>	1,077,780 SqFt
66	SMALL PATCH	L	2.00 Slabs				
65	JT SEAL DMG	M	16.00 Slabs				
66	SMALL PATCH	L	5.00 Slabs				
67	LARGE PATCH	L	4.00 Slabs				
66	SMALL PATCH	L	4.00 Slabs				
66	SMALL PATCH	L	3.00 Slabs				
64	DURABIL. CR	L	2.00 Slabs				
67	LARGE PATCH	L	2.00 Slabs				
67	LARGE PATCH	L	3.00 Slabs				
66	SMALL PATCH	M	1.00 Slabs				
64	DURABIL. CR	L	4.00 Slabs				
<b>Sample Number:</b>	115	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	24
<b>Sample Comments:</b>							
67	LARGE PATCH	L	3.00 Slabs				
66	SMALL PATCH	M	1.00 Slabs				
66	SMALL PATCH	L	2.00 Slabs				
67	LARGE PATCH	L	4.00 Slabs				
64	DURABIL. CR	L	4.00 Slabs				
66	SMALL PATCH	L	2.00 Slabs				
67	LARGE PATCH	M	2.00 Slabs				
67	LARGE PATCH	L	6.00 Slabs				
64	DURABIL. CR	H	1.00 Slabs				
63	LINEAR CR	L	1.00 Slabs				
64	DURABIL. CR	M	2.00 Slabs				
65	JT SEAL DMG	M	16.00 Slabs				
66	SMALL PATCH	L	2.00 Slabs				
64	DURABIL. CR	L	5.00 Slabs				
64	DURABIL. CR	L	3.00 Slabs				
<b>Sample Number:</b>	118	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	35
<b>Sample Comments:</b>							
64	DURABIL. CR	L	7.00 Slabs				
66	SMALL PATCH	L	3.00 Slabs				
64	DURABIL. CR	M	1.00 Slabs				
65	JT SEAL DMG	M	16.00 Slabs				
64	DURABIL. CR	M	1.00 Slabs				
64	DURABIL. CR	L	7.00 Slabs				
67	LARGE PATCH	L	8.00 Slabs				
67	LARGE PATCH	H	1.00 Slabs				
66	SMALL PATCH	M	1.00 Slabs				
66	SMALL PATCH	L	2.00 Slabs				
67	LARGE PATCH	L	6.00 Slabs				
<b>Sample Number:</b>	123	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	18
<b>Sample Comments:</b>							
66	SMALL PATCH	L	10.00 Slabs				
67	LARGE PATCH	M	7.00 Slabs				
67	LARGE PATCH	L	9.00 Slabs				
65	JT SEAL DMG	M	16.00 Slabs				
63	LINEAR CR	M	1.00 Slabs				
64	DURABIL. CR	M	7.00 Slabs				
64	DURABIL. CR	L	2.00 Slabs				
<b>Sample Number:</b>	500	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	67
<b>Sample Comments:</b>							
64	DURABIL. CR	L	1.00 Slabs				
67	LARGE PATCH	L	1.00 Slabs				
67	LARGE PATCH	L	1.00 Slabs				
66	SMALL PATCH	L	4.00 Slabs				
65	JT SEAL DMG	M	16.00 Slabs				
66	SMALL PATCH	L	4.00 Slabs				
66	SMALL PATCH	M	1.00 Slabs				
64	DURABIL. CR	L	2.00 Slabs				
66	SMALL PATCH	L	1.00 Slabs				
66	SMALL PATCH	L	3.00 Slabs				
67	LARGE PATCH	L	3.00 Slabs				

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**Sample Number:** 502      **Type:** R      **Area:** 16.00 Slabs      **PCI:** 54

**Sample Comments:**

65	JT SEAL DMG	M	16.00 Slabs
64	DURABIL. CR	L	2.00 Slabs
66	SMALL PATCH	L	4.00 Slabs
74	JOINT SPALL	M	1.00 Slabs
67	LARGE PATCH	L	6.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
66	SMALL PATCH	M	1.00 Slabs
64	DURABIL. CR	L	3.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
66	SMALL PATCH	L	4.00 Slabs
66	SMALL PATCH	L	2.00 Slabs
64	DURABIL. CR	L	3.00 Slabs

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**Sample Number:** 509      **Type:** R      **Area:** 16.00 Slabs      **PCI:** 38

**Sample Comments:**

66	SMALL PATCH	L	4.00 Slabs
67	LARGE PATCH	L	2.00 Slabs
64	DURABIL. CR	L	4.00 Slabs
64	DURABIL. CR	L	2.00 Slabs
67	LARGE PATCH	L	7.00 Slabs
66	SMALL PATCH	L	5.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
65	JT SEAL DMG	M	16.00 Slabs
72	SHAT. SLAB	L	1.00 Slabs
64	DURABIL. CR	L	4.00 Slabs
66	SMALL PATCH	L	2.00 Slabs
64	DURABIL. CR	M	3.00 Slabs

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**Sample Number:** 518      **Type:** R      **Area:** 16.00 Slabs      **PCI:** 46

**Sample Comments:**

64	DURABIL. CR	M	1.00 Slabs
64	DURABIL. CR	L	8.00 Slabs
66	SMALL PATCH	L	6.00 Slabs
66	SMALL PATCH	M	1.00 Slabs
66	SMALL PATCH	M	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
67	LARGE PATCH	L	6.00 Slabs
64	DURABIL. CR	L	7.00 Slabs
65	JT SEAL DMG	M	16.00 Slabs
67	LARGE PATCH	L	8.00 Slabs

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**Sample Number:** 527      **Type:** R      **Area:** 16.00 Slabs      **PCI:** 27

**Sample Comments:**

66	SMALL PATCH	L	5.00 Slabs
64	DURABIL. CR	L	14.00 Slabs
63	LINEAR CR	M	1.00 Slabs
67	LARGE PATCH	L	9.00 Slabs
65	JT SEAL DMG	M	16.00 Slabs
64	DURABIL. CR	M	2.00 Slabs
66	SMALL PATCH	H	1.00 Slabs
67	LARGE PATCH	M	3.00 Slabs
66	SMALL PATCH	M	2.00 Slabs

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport		
<b>Branch:</b>	RY220	<b>Name:</b>	RUNWAY 2-20	<b>Use:</b>	RUNWAY
<b>Area:</b>				<b>Area:</b>	1,077,780 SqFt
<b>Section:</b>	01C	of 4	<b>From:</b>	A	<b>To:</b> B
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>	
<b>Area:</b>	252,240 SqFt	<b>Length:</b>	5,044 Ft	<b>Width:</b>	50 Ft
<b>Slabs:</b>	404	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0
<b>Joint Length:</b>				<b>Joint Length:</b>	15,082 Ft
<b>Lanes:</b>				<b>Lanes:</b>	0
<b>Section Comments:</b>					
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	28	<b>Surveyed:</b>	8
<b>Conditions:</b>	PCI: 44				
<b>Inspection Comments:</b>					
<b>Sample Number:</b>	300	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs
<b>PCI:</b>				<b>PCI:</b>	66
<b>Sample Comments:</b>					
74	JOINT SPALL	M	2.00	Slabs	
74	JOINT SPALL	L	1.00	Slabs	
65	JT SEAL DMG	M	16.00	Slabs	
66	SMALL PATCH	L	2.00	Slabs	
64	DURABIL. CR	M	2.00	Slabs	
74	JOINT SPALL	M	1.00	Slabs	
<b>Sample Number:</b>	302	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs
<b>PCI:</b>				<b>PCI:</b>	42
<b>Sample Comments:</b>					
74	JOINT SPALL	M	1.00	Slabs	
66	SMALL PATCH	L	1.00	Slabs	
75	CORNER SPALL	L	1.00	Slabs	
66	SMALL PATCH	L	1.00	Slabs	
66	SMALL PATCH	L	1.00	Slabs	
66	SMALL PATCH	L	1.00	Slabs	
66	SMALL PATCH	L	1.00	Slabs	
66	SMALL PATCH	M	1.00	Slabs	
66	SMALL PATCH	L	1.00	Slabs	
66	SMALL PATCH	M	1.00	Slabs	
66	SMALL PATCH	M	1.00	Slabs	
67	LARGE PATCH	L	2.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
64	DURABIL. CR	M	1.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
65	JT SEAL DMG	M	16.00	Slabs	
64	DURABIL. CR	M	2.00	Slabs	
62	CORNER BREAK	M	1.00	Slabs	
66	SMALL PATCH	M	1.00	Slabs	
75	CORNER SPALL	L	1.00	Slabs	
66	SMALL PATCH	L	1.00	Slabs	
<b>Sample Number:</b>	304	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs
<b>PCI:</b>				<b>PCI:</b>	44
<b>Sample Comments:</b>					
66	SMALL PATCH	L	1.00	Slabs	
66	SMALL PATCH	L	1.00	Slabs	
66	SMALL PATCH	L	1.00	Slabs	
64	DURABIL. CR	M	1.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
64	DURABIL. CR	L	1.00	Slabs	
64	DURABIL. CR	L	1.00	Slabs	
66	SMALL PATCH	L	1.00	Slabs	
64	DURABIL. CR	L	1.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
64	DURABIL. CR	M	2.00	Slabs	
66	SMALL PATCH	L	2.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
65	JT SEAL DMG	M	16.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	
67	LARGE PATCH	L	1.00	Slabs	



67	LARGE PATCH	L	1.00 Slabs
64	DURABIL. CR	M	2.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
67	LARGE PATCH	L	2.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs

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**Sample Number:** 309      **Type:** R      **Area:** 16.00 Slabs      **PCI:** 38

**Sample Comments:**

64	DURABIL. CR	L	1.00 Slabs
65	JT SEAL DMG	M	16.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
64	DURABIL. CR	M	2.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
63	LINEAR CR	L	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
66	SMALL PATCH	M	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs

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**Sample Number:** 315      **Type:** R      **Area:** 16.00 Slabs      **PCI:** 37

**Sample Comments:**

67	LARGE PATCH	L	1.00 Slabs
65	JT SEAL DMG	M	16.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
64	DURABIL. CR	M	2.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
67	LARGE PATCH	L	3.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
64	DURABIL. CR	M	2.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
66	SMALL PATCH	L	2.00 Slabs
64	DURABIL. CR	L	3.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
62	CORNER BREAK	M	1.00 Slabs

---

**Sample Number:** 318      **Type:** R      **Area:** 16.00 Slabs      **PCI:** 48

**Sample Comments:**

67	LARGE PATCH	L	4.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
67	LARGE PATCH	L	12.00 Slabs
64	DURABIL. CR	L	11.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
65	JT SEAL DMG	M	16.00 Slabs

64	DURABIL. CR	L	4.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
74	JOINT SPALL	M	1.00 Slabs

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**Sample Number:** 323      **Type:** R      **Area:** 16.00 Slabs      **PCI:** 39

**Sample Comments:**

67	LARGE PATCH	L	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
67	LARGE PATCH	L	2.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
64	DURABIL. CR	M	2.00 Slabs
65	JT SEAL DMG	M	16.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
66	SMALL PATCH	L	2.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
66	SMALL PATCH	L	4.00 Slabs
66	SMALL PATCH	L	2.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
67	LARGE PATCH	L	4.00 Slabs

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**Sample Number:** 327      **Type:** R      **Area:** 16.00 Slabs      **PCI:** 39

**Sample Comments:**

64	DURABIL. CR	M	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
64	DURABIL. CR	L	2.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
64	DURABIL. CR	M	2.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
67	LARGE PATCH	L	2.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
67	LARGE PATCH	L	1.00 Slabs
64	DURABIL. CR	L	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
66	SMALL PATCH	L	1.00 Slabs
64	DURABIL. CR	M	1.00 Slabs
64	DURABIL. CR	M	1.00 Slabs

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	RY220	<b>Name:</b>	RUNWAY 2-20	<b>Use:</b>	RUNWAY	<b>Area:</b>	1,077,780 SqFt	
<b>Section:</b>	02W	of 4	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	P
<b>Area:</b>	210,000 SqFt	<b>Length:</b>	2,100 Ft	<b>Width:</b>	100 Ft			
<b>Slabs:</b>	336	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	12,500 Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	22	<b>Surveyed:</b>	6			
<b>Conditions:</b>	PCI: 91							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	129	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	93	
<b>Sample Comments:</b>								
65	JT SEAL DMG	M		16.00	Slabs			
<b>Sample Number:</b>	132	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	98	
<b>Sample Comments:</b>								
65	JT SEAL DMG	L		16.00	Slabs			
<b>Sample Number:</b>	137	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	88	
<b>Sample Comments:</b>								
65	JT SEAL DMG	M		16.00	Slabs			
63	LINEAR CR	L		1.00	Slabs			
<b>Sample Number:</b>	529	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	80	
<b>Sample Comments:</b>								
65	JT SEAL DMG	M		16.00	Slabs			
63	LINEAR CR	L		4.00	Slabs			
<b>Sample Number:</b>	535	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	93	
<b>Sample Comments:</b>								
65	JT SEAL DMG	M		16.00	Slabs			
<b>Sample Number:</b>	537	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	93	
<b>Sample Comments:</b>								
65	JT SEAL DMG	M		16.00	Slabs			

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	RY220	<b>Name:</b>	RUNWAY 2-20	<b>Use:</b>	RUNWAY	<b>Area:</b>	1,077,780 SqFt	
<b>Section:</b>	02C	of 4	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	PCC	<b>Family:</b>	MN2013 PCC	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	P
<b>Area:</b>	105,000 SqFt	<b>Length:</b>	2,100 Ft	<b>Width:</b>	50 Ft			
<b>Slabs:</b>	168	<b>Slab Length:</b>	25 Ft	<b>Slab Width:</b>	25 Ft	<b>Joint Length:</b>	6,250 Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	11	<b>Surveyed:</b>	4			
<b>Conditions:</b>	PCI: 94							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	329	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	93	
<b>Sample Comments:</b>								
65	JT SEAL DMG	M		16.00	Slabs			
<b>Sample Number:</b>	332	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	89	
<b>Sample Comments:</b>								
67	LARGE PATCH	L		1.00	Slabs			
65	JT SEAL DMG	M		16.00	Slabs			
<b>Sample Number:</b>	335	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	98	
<b>Sample Comments:</b>								
65	JT SEAL DMG	L		16.00	Slabs			
<b>Sample Number:</b>	337	<b>Type:</b>	R	<b>Area:</b>	16.00 Slabs	<b>PCI:</b>	98	
<b>Sample Comments:</b>								
65	JT SEAL DMG	L		16.00	Slabs			

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	TLA	<b>Name:</b>	TAXILANE A	<b>Use:</b>	TAXILANE	<b>Area:</b>	179,580 SqFt	
<b>Section:</b>	002	of 3	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	AC	<b>Family:</b>	MN2013 Asphalt Taxilanes	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	T
<b>Area:</b>	135,870 SqFt	<b>Length:</b>	500 Ft	<b>Width:</b>	300 Ft			
<b>Slabs:</b>		<b>Slab Length:</b>	Ft	<b>Slab Width:</b>	Ft	<b>Joint Length:</b>	Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>Total Samples:</b>	34	<b>Surveyed:</b>	6			
<b>Conditions:</b>	PCI: 55	<b>Inspection Comments:</b>						
<b>Sample Number:</b>	105	<b>Type:</b>	R	<b>Area:</b>	4500.00 SqFt	<b>PCI:</b>	47	
<b>Sample Comments:</b>								
48	L & T CR	H	80.00	Ft				
48	L & T CR	L	145.00	Ft				
57	WEATHERING	M	2000.00	SqFt				
41	ALLIGATOR CR	M	40.00	SqFt				
48	L & T CR	M	140.00	Ft				
<b>Sample Number:</b>	202	<b>Type:</b>	R	<b>Area:</b>	3750.00 SqFt	<b>PCI:</b>	35	
<b>Sample Comments:</b>								
41	ALLIGATOR CR	L	100.00	SqFt				
41	ALLIGATOR CR	M	50.00	SqFt				
57	WEATHERING	M	2000.00	SqFt				
48	L & T CR	M	160.00	Ft				
48	L & T CR	L	56.00	Ft				
48	L & T CR	H	15.00	Ft				
50	PATCHING	M	20.00	SqFt				
<b>Sample Number:</b>	302	<b>Type:</b>	R	<b>Area:</b>	3750.00 SqFt	<b>PCI:</b>	60	
<b>Sample Comments:</b>								
48	L & T CR	L	142.00	Ft				
48	L & T CR	M	170.00	Ft				
57	WEATHERING	M	3000.00	SqFt				
48	L & T CR	H	30.00	Ft				
<b>Sample Number:</b>	402	<b>Type:</b>	R	<b>Area:</b>	3750.00 SqFt	<b>PCI:</b>	54	
<b>Sample Comments:</b>								
48	L & T CR	L	152.00	Ft				
48	L & T CR	M	75.00	Ft				
57	WEATHERING	M	3000.00	SqFt				
48	L & T CR	H	75.00	Ft				
<b>Sample Number:</b>	703	<b>Type:</b>	R	<b>Area:</b>	3750.00 SqFt	<b>PCI:</b>	70	
<b>Sample Comments:</b>								
48	L & T CR	M	76.00	Ft				
48	L & T CR	L	188.00	Ft				
57	WEATHERING	M	3750.00	SqFt				
<b>Sample Number:</b>	706	<b>Type:</b>	R	<b>Area:</b>	3750.00 SqFt	<b>PCI:</b>	65	
<b>Sample Comments:</b>								
48	L & T CR	M	117.00	Ft				
57	WEATHERING	M	3750.00	SqFt				
48	L & T CR	H	10.00	Ft				
48	L & T CR	L	156.00	Ft				



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**Network:** RST **Name:** Rochester International Airport

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**Branch:** TLA **Name:** TAXILANE A **Use:** TAXILANE **Area:** 179,580 SqFt

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**Section:** 003 of 3 **From:** A **To:** B **Last Const.:** 1/1/2000

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**Surface:** AC **Family:** MN2013 Asphalt Taxilanes **Zone:** **Category:** **Rank:** T

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**Area:** 29,830 SqFt **Length:** 280 Ft **Width:** 50 Ft

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**Slabs:** **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

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**Shoulder:** **Street Type:** **Grade:** 0 **Lanes:** 0

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**Section Comments:**

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**Last Insp. Date:** 6/25/2017 **TotalSamples:** 6 **Surveyed:** 1

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**Conditions:** PCI: 71

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**Inspection Comments:**

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**Sample Number:** 600 **Type:** R **Area:** 5000.00 SqFt **PCI:** 71

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**Sample Comments:**

41	ALLIGATOR CR	L	10.00 SqFt
45	DEPRESSION	L	24.00 SqFt
48	L & T CR	M	50.00 Ft
45	DEPRESSION	M	10.00 SqFt
57	WEATHERING	L	3750.00 SqFt

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	TLA	<b>Name:</b>	TAXILANE A	<b>Use:</b>	TAXILANE	<b>Area:</b>	179,580 SqFt	
<b>Section:</b>	001	of 3	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	AC	<b>Family:</b>	MN2013 Asphalt Taxilanes	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	T
<b>Area:</b>	13,880 SqFt	<b>Length:</b>	280 Ft	<b>Width:</b>	50 Ft			
<b>Slabs:</b>		<b>Slab Length:</b>	Ft	<b>Slab Width:</b>	Ft	<b>Joint Length:</b>	Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	3	<b>Surveyed:</b>	1			
<b>Conditions:</b>	PCI: 74							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	101	<b>Type:</b>	R	<b>Area:</b>	4500.00 SqFt	<b>PCI:</b>	74	
<b>Sample Comments:</b>								
48	L & T CR	L	372.00 Ft					
57	WEATHERING	L	4500.00 SqFt					

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**Network:** RST **Name:** Rochester International Airport

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**Branch:** TLB **Name:** TAXILANE B **Use:** TAXILANE **Area:** 15,210 SqFt

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**Section:** 002 of 2 **From:** A **To:** B **Last Const.:** 1/1/2000

**Surface:** AC **Family:** MN2013 Asphalt Taxilanes **Zone:** **Category:** **Rank:** T

**Area:** 7,410 SqFt **Length:** 185 Ft **Width:** 40 Ft

**Slabs:** **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

**Shoulder:** **Street Type:** **Grade:** 0 **Lanes:** 0

**Section Comments:**

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**Last Insp. Date:** 6/25/2017 **TotalSamples:** 2 **Surveyed:** 1

**Conditions:** PCI: 66

**Inspection Comments:**

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**Sample Number:** 100 **Type:** R **Area:** 4000.00 SqFt **PCI:** 66

**Sample Comments:**

48 L & T CR M 86.00 Ft  
57 WEATHERING L 4000.00 SqFt  
48 L & T CR L 437.00 Ft

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	TLB	<b>Name:</b>	TAXILANE B	<b>Use:</b>	TAXILANE	<b>Area:</b>	15,210 SqFt	
<b>Section:</b>	001	of 2	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	AC	<b>Family:</b>	MN2013 Asphalt Taxilanes	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	T
<b>Area:</b>	7,800 SqFt	<b>Length:</b>	290 Ft	<b>Width:</b>	25 Ft			
<b>Slabs:</b>		<b>Slab Length:</b>	Ft	<b>Slab Width:</b>	Ft	<b>Joint Length:</b>	Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	3	<b>Surveyed:</b>	1			
<b>Conditions:</b>	PCI: 86							
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	102	<b>Type:</b>	R	<b>Area:</b>	2400.00 SqFt	<b>PCI:</b>	86	
<b>Sample Comments:</b>								
48	L & T CR	L		115.00	Ft			

<b>Network:</b>	RST	<b>Name:</b>	Rochester International Airport					
<b>Branch:</b>	TLC	<b>Name:</b>	TAXILANE C	<b>Use:</b>	TAXILANE	<b>Area:</b>	29,490 SqFt	
<b>Section:</b>	002	of 2	<b>From:</b>	A	<b>To:</b>	B	<b>Last Const.:</b>	1/1/2000
<b>Surface:</b>	AC	<b>Family:</b>	MN2013 Asphalt Taxilanes	<b>Zone:</b>		<b>Category:</b>	<b>Rank:</b>	T
<b>Area:</b>	19,820 SqFt	<b>Length:</b>	990 Ft	<b>Width:</b>	20 Ft			
<b>Slabs:</b>		<b>Slab Length:</b>	Ft	<b>Slab Width:</b>	Ft	<b>Joint Length:</b>	Ft	
<b>Shoulder:</b>		<b>Street Type:</b>		<b>Grade:</b>	0	<b>Lanes:</b>	0	
<b>Section Comments:</b>								
<b>Last Insp. Date:</b>	6/25/2017	<b>TotalSamples:</b>	5	<b>Surveyed:</b>	1			
<b>Conditions: PCI:</b>								
<b>Inspection Comments:</b>								
<b>Sample Number:</b>	301	<b>Type:</b>	R	<b>Area:</b>	2000.00 SqFt	<b>PCI:</b>		
<b>Sample Comments:</b>								
41	ALLIGATOR CR		H	1000.00	SqFt			
41	ALLIGATOR CR		M	1000.00	SqFt			



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**Network:** RST **Name:** Rochester International Airport

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**Branch:** TLC **Name:** TAXILANE C **Use:** TAXILANE **Area:** 29,490 SqFt

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**Section:** 001 of 2 **From:** A **To:** B **Last Const.:** 1/1/2000

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**Surface:** AC **Family:** MN2013 Asphalt Taxilanes **Zone:** **Category:** **Rank:** T

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**Area:** 9,670 SqFt **Length:** 242 Ft **Width:** 30 Ft

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**Slabs:** **Slab Length:** Ft **Slab Width:** Ft **Joint Length:** Ft

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**Shoulder:** **Street Type:** **Grade:** 0 **Lanes:** 0

**Section Comments:**

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**Last Insp. Date:** 6/25/2017 **TotalSamples:** 3 **Surveyed:** 1

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**Conditions:** PCI: 25

**Inspection Comments:**

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**Sample Number:** 400 **Type:** R **Area:** 3200.00 SqFt **PCI:** 25

**Sample Comments:**

57	WEATHERING	L	3000.00 SqFt
41	ALLIGATOR CR	M	350.00 SqFt
41	ALLIGATOR CR	M	72.00 SqFt
50	PATCHING	L	72.00 SqFt
50	PATCHING	L	70.00 SqFt
50	PATCHING	M	80.00 SqFt

*Appendix D*

# Distress Identification

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This appendix lists and describes distress types most commonly identified during the PCI inspections of Minnesota 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**

### *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  $\frac{1}{4}$  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  $\frac{1}{4}$  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.

Raveling – At low severity, the number of missing coarse aggregates (> 3/8 inch) is between 5-20 missing/yd<sup>2</sup>, medium severity (pictured below where the missing coarse aggregates have been dotted with yellow paint) is 21-40 missing/yd<sup>2</sup>, and high severity is > 40 missing/yd<sup>2</sup>.



Weathering – 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 ¼ the width of the longest side. At high severity, the coarse is exposed greater than ¼ the width of the longest side.

Low severity



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 and Major Rehabilitation Policies

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Table E1. Localized maintenance policy for asphalt surfaces.

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

Table E2. Localized maintenance policy for PCC surfaces.

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

Table E3. Unit costs for localized maintenance treatments.

<b>Treatment name</b>	<b>Unit cost</b>
Crack Sealing - AC	\$1.24 ft
Crack Sealing - PCC	\$1.88 ft
Grinding (Localized)	\$4.88 ft
Joint Seal (Localized)	\$1.88 ft
Patching - AC Deep	\$11.59 sf
Patching - AC Leveling	\$4.06 sf
Patching - AC Shallow	\$7.79 sf
Patching - PCC Full Depth	\$72.86 sf
Patching - PCC Partial Depth	\$10.47 sf
Slab Replacement - PCC	\$39.22 sf
Surface Treatment	\$0.51 sf
Undersealing - PCC	\$3.11 ft

Table E4. Major rehabilitation unit costs based on PCI ranges.

<b>PCI range</b>	<b>Cost</b>
0-29	\$8.42 sf
30-39	\$6.99 sf
40-49	\$5.82 sf
50-59	\$4.11 sf
60-69	\$2.61 sf
> 70	\$1.27 sf

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*Appendix F*

# Localized Maintenance Recommendations

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Table F.1. Recommended maintenance by section report (RST)

Branch	Section	Treatment	Quantity	Unit	Cost
APA	001	Crack Sealing - PCC	76	Ft	\$144
APA	001	Joint Seal (Localized)	21,674	Ft	\$40,747
APA	001	Patching - PCC Full Depth	251	SqFt	\$18,304
APA	001	Patching - PCC Partial Depth	66	SqFt	\$690
<b>Preventive</b>		<b>PCI Before: 75 After: 82</b>	<b>-</b>	<b>Total</b>	<b>\$59,884</b>
APA	002	Grinding (Localized)	112	Ft	\$547
APA	002	Joint Seal (Localized)	29,485	Ft	\$55,432
APA	002	Patching - PCC Partial Depth	24	SqFt	\$253
<b>Preventive</b>		<b>PCI Before: 79 After: 88</b>	<b>-</b>	<b>Total</b>	<b>\$56,232</b>
APA	003	Crack Sealing - AC	175	Ft	\$217
APA	003	Surface Treatment	18,150	SqFt	\$9,257
<b>Preventive</b>		<b>PCI Before: 70 After: 84</b>	<b>-</b>	<b>Total</b>	<b>\$9,473</b>
APB	001	Crack Sealing - AC	20,126	Ft	\$24,956
APB	001	Patching - AC Deep	2,079	SqFt	\$24,090
APB	001	Surface Treatment	10,711	SqFt	\$5,463
<b>Preventive</b>		<b>PCI Before: 53 After: 67</b>	<b>-</b>	<b>Total</b>	<b>\$54,509</b>
APB	002	Crack Sealing - AC	4,301	Ft	\$5,332
APB	002	Patching - AC Deep	113	SqFt	\$1,313
<b>Preventive</b>		<b>PCI Before: 66 After: 72</b>	<b>-</b>	<b>Total</b>	<b>\$6,645</b>
APB	004	Joint Seal (Localized)	714	Ft	\$1,342
<b>Preventive</b>		<b>PCI Before: 54 After: 56</b>	<b>-</b>	<b>Total</b>	<b>\$1,342</b>
CTA1	001	Grinding (Localized)	125	Ft	\$612
CTA1	001	Patching - PCC Full Depth	81	SqFt	\$5,901
<b>Preventive</b>		<b>PCI Before: 62 After: 65</b>	<b>-</b>	<b>Total</b>	<b>\$6,513</b>
CTA3	001	Crack Sealing - PCC	37	Ft	\$70
CTA3	001	Patching - PCC Full Depth	913	SqFt	\$66,530
CTA3	001	Patching - PCC Partial Depth	13	SqFt	\$125
<b>Restorative</b>		<b>PCI Before: 49 After: 61</b>	<b>-</b>	<b>Total</b>	<b>\$66,725</b>
CTA6	001	Crack Sealing - PCC	113	Ft	\$213
CTA6	001	Patching - PCC Full Depth	698	SqFt	\$50,796
CTA6	001	Patching - PCC Partial Depth	25	SqFt	\$255
<b>Stopgap</b>		<b>PCI Before: 48 After: 56</b>	<b>-</b>	<b>Total</b>	<b>\$51,265</b>
CTA7	001	Patching - PCC Full Depth	526	SqFt	\$38,346
<b>Restorative</b>		<b>PCI Before: 57 After: 65</b>	<b>-</b>	<b>Total</b>	<b>\$38,346</b>
CTA8	001	Crack Sealing - AC	16	Ft	\$20
<b>Preventive</b>		<b>PCI Before: 73 After: 74</b>	<b>-</b>	<b>Total</b>	<b>\$20</b>
CTA9	001	Grinding (Localized)	90	Ft	\$437
CTA9	001	Joint Seal (Localized)	7,690	Ft	\$14,457
CTA9	001	Patching - PCC Full Depth	793	SqFt	\$57,751
CTA9	001	Patching - PCC Partial Depth	43	SqFt	\$454
CTA9	001	Slab Replacement - PCC	1,119	SqFt	\$43,918
<b>Preventive</b>		<b>PCI Before: 61 After: 80</b>	<b>-</b>	<b>Total</b>	<b>\$117,018</b>

Branch	Section	Treatment	Quantity	Unit	Cost
CTA10	001	Joint Seal (Localized)	2,147	Ft	\$4,036
CTA10	001	Patching - PCC Partial Depth	13	SqFt	\$136
<b>Preventive</b>		<b>PCI Before: 90 After: 93</b>	<b>-</b>	<b>Total</b>	<b>\$4,172</b>
CTB1	001	Crack Sealing - AC	599	Ft	\$742
<b>Preventive</b>		<b>PCI Before: 75 After: 83</b>	<b>-</b>	<b>Total</b>	<b>\$742</b>
CTB2	001	Crack Sealing - AC	221	Ft	\$274
<b>Preventive</b>		<b>PCI Before: 83 After: 90</b>	<b>-</b>	<b>Total</b>	<b>\$274</b>
CTB3	001	Crack Sealing - AC	230	Ft	\$285
<b>Preventive</b>		<b>PCI Before: 80 After: 82</b>	<b>-</b>	<b>Total</b>	<b>\$285</b>
CTB4	001	Crack Sealing - AC	2,362	Ft	\$2,929
CTB4	001	Patching - AC Shallow	9	SqFt	\$70
CTB4	001	Surface Treatment	8,089	SqFt	\$4,125
<b>Restorative</b>		<b>PCI Before: 55 After: 65</b>	<b>-</b>	<b>Total</b>	<b>\$7,125</b>
CTC	001	Joint Seal (Localized)	1,275	Ft	\$2,398
<b>Preventive</b>		<b>PCI Before: 93 After: 100</b>	<b>-</b>	<b>Total</b>	<b>\$2,398</b>
CTD	001	Joint Seal (Localized)	1,027	Ft	\$1,930
<b>Preventive</b>		<b>PCI Before: 96 After: 99</b>	<b>-</b>	<b>Total</b>	<b>\$1,930</b>
CTD	002	Joint Seal (Localized)	970	Ft	\$1,823
<b>Preventive</b>		<b>PCI Before: 93 After: 100</b>	<b>-</b>	<b>Total</b>	<b>\$1,823</b>
CTE	001	Joint Seal (Localized)	1,344	Ft	\$2,528
CTE	001	Patching - PCC Partial Depth	4	SqFt	\$41
<b>Preventive</b>		<b>PCI Before: 93 After: 98</b>	<b>-</b>	<b>Total</b>	<b>\$2,569</b>
CTF	001	Joint Seal (Localized)	2,980	Ft	\$5,602
CTF	001	Patching - PCC Partial Depth	19	SqFt	\$199
<b>Preventive</b>		<b>PCI Before: 84 After: 96</b>	<b>-</b>	<b>Total</b>	<b>\$5,801</b>
CTG	001	Crack Sealing - AC	787	Ft	\$976
CTG	001	Patching - AC Deep	263	SqFt	\$3,044
CTG	001	Patching - AC Shallow	16	SqFt	\$123
CTG	001	Surface Treatment	9,445	SqFt	\$4,817
<b>Restorative</b>		<b>PCI Before: 49 After: 62</b>	<b>-</b>	<b>Total</b>	<b>\$8,959</b>
CTH	001	Crack Sealing - AC	1,168	Ft	\$1,448
CTH	001	Patching - AC Deep	74	SqFt	\$857
<b>Stopgap</b>		<b>PCI Before: 46 After: 57</b>	<b>-</b>	<b>Total</b>	<b>\$2,305</b>
CTJ	001	Crack Sealing - AC	2,069	Ft	\$2,565
CTJ	001	Patching - AC Deep	988	SqFt	\$11,447
<b>Stopgap</b>		<b>PCI Before: 28 After: 58</b>	<b>-</b>	<b>Total</b>	<b>\$14,013</b>
CTK	001	Surface Treatment	1,145	SqFt	\$584
<b>Restorative</b>		<b>PCI Before: 59 After: 61</b>	<b>-</b>	<b>Total</b>	<b>\$584</b>
CTM	001	Joint Seal (Localized)	4,328	Ft	\$8,137
CTM	001	Patching - PCC Partial Depth	3	SqFt	\$33
<b>Preventive</b>		<b>PCI Before: 88 After: 99</b>	<b>-</b>	<b>Total</b>	<b>\$8,170</b>
PTA	002	Crack Sealing - PCC	126	Ft	\$237
PTA	002	Joint Seal (Localized)	28,250	Ft	\$53,110
PTA	002	Patching - PCC Full Depth	1,760	SqFt	\$128,226

Branch	Section	Treatment	Quantity	Unit	Cost
PTA	002	Patching - PCC Partial Depth	147	SqFt	\$1,536
<b>Preventive</b>		<b>PCI Before: 83 After: 93</b>	<b>-</b>	<b>Total</b>	<b>\$183,109</b>
PTB	001	Crack Sealing - AC	5,057	Ft	\$6,271
PTB	001	Surface Treatment	17,739	SqFt	\$9,047
<b>Preventive</b>		<b>PCI Before: 60 After: 69</b>	<b>-</b>	<b>Total</b>	<b>\$15,317</b>
PTB	002	Crack Sealing - AC	8,618	Ft	\$10,686
PTB	002	Patching - AC Deep	57	SqFt	\$666
<b>Preventive</b>		<b>PCI Before: 68 After: 71</b>	<b>-</b>	<b>Total</b>	<b>\$11,352</b>
RY1331	01C	Crack Sealing - PCC	1,769	Ft	\$3,327
RY1331	01C	Grinding (Localized)	118	Ft	\$576
RY1331	01C	Joint Seal (Localized)	11,300	Ft	\$21,244
RY1331	01C	Patching - PCC Full Depth	1,368	SqFt	\$99,753
RY1331	01C	Patching - PCC Partial Depth	171	SqFt	\$1,782
<b>Restorative</b>		<b>PCI Before: 55 After: 71</b>	<b>-</b>	<b>Total</b>	<b>\$126,681</b>
RY1331	01W	Crack Sealing - PCC	5,491	Ft	\$10,323
RY1331	01W	Grinding (Localized)	343	Ft	\$1,675
RY1331	01W	Joint Seal (Localized)	28,764	Ft	\$54,076
RY1331	01W	Patching - PCC Full Depth	9,711	SqFt	\$707,551
RY1331	01W	Patching - PCC Partial Depth	154	SqFt	\$1,624
RY1331	01W	Slab Replacement - PCC	4,289	SqFt	\$168,245
<b>Restorative</b>		<b>PCI Before: 46 After: 67</b>	<b>-</b>	<b>Total</b>	<b>\$943,493</b>
RY1331	02C	Crack Sealing - PCC	125	Ft	\$235
<b>Preventive</b>		<b>PCI Before: 89 After: 92</b>	<b>-</b>	<b>Total</b>	<b>\$235</b>
RY1331	02W	Crack Sealing - PCC	75	Ft	\$141
RY1331	02W	Joint Seal (Localized)	12,480	Ft	\$23,462
RY1331	02W	Patching - PCC Partial Depth	28	SqFt	\$287
<b>Preventive</b>		<b>PCI Before: 90 After: 100</b>	<b>-</b>	<b>Total</b>	<b>\$23,891</b>
RY220	01C	Joint Seal (Localized)	13,197	Ft	\$24,810
RY220	01C	Patching - PCC Full Depth	12,500	SqFt	\$910,792
RY220	01C	Patching - PCC Partial Depth	144	SqFt	\$1,512
<b>Restorative</b>		<b>PCI Before: 44 After: 67</b>	<b>-</b>	<b>Total</b>	<b>\$937,114</b>
RY220	01W	Crack Sealing - PCC	319	Ft	\$600
RY220	01W	Grinding (Localized)	106	Ft	\$519
RY220	01W	Joint Seal (Localized)	30,164	Ft	\$56,709
RY220	01W	Patching - PCC Full Depth	21,464	SqFt	\$1,563,904
RY220	01W	Patching - PCC Partial Depth	233	SqFt	\$2,422
RY220	01W	Slab Replacement - PCC	2,660	SqFt	\$104,306
<b>Restorative</b>		<b>PCI Before: 40 After: 62</b>	<b>-</b>	<b>Total</b>	<b>\$1,728,459</b>
RY220	02C	Joint Seal (Localized)	3,125	Ft	\$5,875
<b>Preventive</b>		<b>PCI Before: 94 After: 98</b>	<b>-</b>	<b>Total</b>	<b>\$5,875</b>
RY220	02W	Joint Seal (Localized)	10,417	Ft	\$19,583
<b>Preventive</b>		<b>PCI Before: 91 After: 96</b>	<b>-</b>	<b>Total</b>	<b>\$19,583</b>
TLA	002	Crack Sealing - AC	5,749	Ft	\$7,129
TLA	002	Patching - AC Deep	622	SqFt	\$7,212

Branch	Section	Treatment	Quantity	Unit	Cost
TLA	002	Patching - AC Shallow	165	SqFt	\$1,281
TLA	002	Surface Treatment	102,268	SqFt	\$52,157
<b>Preventive</b>		<b>PCI Before: 55 After: 68</b>	<b>-</b>	<b>Total</b>	<b>\$67,778</b>
TLA	003	Crack Sealing - AC	327	Ft	\$406
TLA	003	Patching - AC Shallow	95	SqFt	\$738
<b>Preventive</b>		<b>PCI Before: 71 After: 76</b>	<b>-</b>	<b>Total</b>	<b>\$1,144</b>
TLB	002	Crack Sealing - AC	159	Ft	\$198
<b>Preventive</b>		<b>PCI Before: 66 After: 68</b>	<b>-</b>	<b>Total</b>	<b>\$198</b>
TLC	001	Patching - AC Deep	1,423	SqFt	\$16,492
TLC	001	Patching - AC Shallow	308	SqFt	\$2,402
<b>Restorative</b>		<b>PCI Before: 25 After: 75</b>	<b>-</b>	<b>Total</b>	<b>\$18,894</b>
TLC	002	Patching - AC Deep	20,630	SqFt	\$239,094
<b>Restorative</b>		<b>PCI Before: 0 After: 62</b>	<b>-</b>	<b>Total</b>	<b>\$239,094</b>

Table F.2. Recommended maintenance by treatment. (RST)

Branch	Section	Distress Type	Severity	Treatment	Estimated Quantity	Unit	Cost
APA	003	L & T CR	M	Crack Sealing - AC	175	Ft	\$217
APB	001	L & T CR	M	Crack Sealing - AC	20,126	Ft	\$24,956
APB	002	ALLIGATOR CR	L	Crack Sealing - AC	149	Ft	\$185
APB	002	L & T CR	M	Crack Sealing - AC	4,151	Ft	\$5,147
CTA8	001	L & T CR	M	Crack Sealing - AC	16	Ft	\$20
CTB1	001	L & T CR	M	Crack Sealing - AC	599	Ft	\$742
CTB2	001	L & T CR	M	Crack Sealing - AC	221	Ft	\$274
CTB3	001	L & T CR	M	Crack Sealing - AC	230	Ft	\$285
CTB4	001	ALLIGATOR CR	L	Crack Sealing - AC	409	Ft	\$507
CTB4	001	BLOCK CR	M	Crack Sealing - AC	365	Ft	\$453
CTB4	001	L & T CR	M	Crack Sealing - AC	1,588	Ft	\$1,969
CTG	001	BLOCK CR	M	Crack Sealing - AC	384	Ft	\$476
CTG	001	L & T CR	M	Crack Sealing - AC	403	Ft	\$500
CTH	001	ALLIGATOR CR	L	Crack Sealing - AC	8	Ft	\$10
CTH	001	BLOCK CR	M	Crack Sealing - AC	404	Ft	\$501
CTH	001	L & T CR	M	Crack Sealing - AC	651	Ft	\$807
CTH	001	BLOCK CR	H	Crack Sealing - AC	73	Ft	\$91
CTH	001	L & T CR	H	Crack Sealing - AC	32	Ft	\$39
CTJ	001	BLOCK CR	M	Crack Sealing - AC	98	Ft	\$121
CTJ	001	L & T CR	M	Crack Sealing - AC	50	Ft	\$61
CTJ	001	BLOCK CR	H	Crack Sealing - AC	1,922	Ft	\$2,383
PTB	001	L & T CR	M	Crack Sealing - AC	4,051	Ft	\$5,023
PTB	001	BLOCK CR	M	Crack Sealing - AC	1,006	Ft	\$1,247
PTB	002	L & T CR	M	Crack Sealing - AC	8,618	Ft	\$10,686
TLA	002	ALLIGATOR CR	L	Crack Sealing - AC	209	Ft	\$259
TLA	002	L & T CR	M	Crack Sealing - AC	4,313	Ft	\$5,348
TLA	002	L & T CR	H	Crack Sealing - AC	1,227	Ft	\$1,522
TLA	003	ALLIGATOR CR	L	Crack Sealing - AC	29	Ft	\$36
TLA	003	L & T CR	M	Crack Sealing - AC	298	Ft	\$370
TLB	002	L & T CR	M	Crack Sealing - AC	159	Ft	\$198
				<b>Total:</b>	<b>51,964</b>	<b>Ft</b>	<b>\$64,434</b>
APA	001	LINEAR CR	M	Crack Sealing - PCC	76	Ft	\$144
CTA3	001	LINEAR CR	M	Crack Sealing - PCC	37	Ft	\$70
CTA6	001	SHAT. SLAB	M	Crack Sealing - PCC	113	Ft	\$213
PTA	002	LINEAR CR	M	Crack Sealing - PCC	126	Ft	\$237
RY1331	01C	SHAT. SLAB	M	Crack Sealing - PCC	236	Ft	\$444
RY1331	01C	LINEAR CR	M	Crack Sealing - PCC	1,533	Ft	\$2,883
RY1331	01W	LINEAR CR	M	Crack Sealing - PCC	5,491	Ft	\$10,323
RY1331	02C	LINEAR CR	M	Crack Sealing - PCC	125	Ft	\$235
RY1331	02W	LINEAR CR	M	Crack Sealing - PCC	75	Ft	\$141
RY220	01W	LINEAR CR	M	Crack Sealing - PCC	319	Ft	\$600
				<b>Total:</b>	<b>8,133</b>	<b>Ft</b>	<b>\$15,290</b>
APA	002	FAULTING	M	Grinding (Localized)	112	Ft	\$547



Branch	Section	Distress Type	Severity	Treatment	Estimated Quantity	Unit	Cost
CTA1	001	FAULTING	M	Grinding (Localized)	125	Ft	\$612
CTA9	001	FAULTING	M	Grinding (Localized)	90	Ft	\$437
RY1331	01C	FAULTING	M	Grinding (Localized)	118	Ft	\$576
RY1331	01W	FAULTING	M	Grinding (Localized)	343	Ft	\$1,675
RY220	01W	FAULTING	M	Grinding (Localized)	106	Ft	\$519
				<b>Total:</b>	<b>895</b>	<b>Ft</b>	<b>\$4,366</b>
APA	001	JT SEAL DMG	M	Joint Seal (Localized)	18,085	Ft	\$34,000
APA	001	JT SEAL DMG	H	Joint Seal (Localized)	3,588	Ft	\$6,746
APA	002	JT SEAL DMG	M	Joint Seal (Localized)	13,329	Ft	\$25,058
APA	002	JT SEAL DMG	H	Joint Seal (Localized)	16,156	Ft	\$30,374
APB	004	JT SEAL DMG	M	Joint Seal (Localized)	714	Ft	\$1,342
CTA10	001	JT SEAL DMG	M	Joint Seal (Localized)	2,147	Ft	\$4,036
CTA9	001	JT SEAL DMG	H	Joint Seal (Localized)	7,690	Ft	\$14,457
CTC	001	JT SEAL DMG	M	Joint Seal (Localized)	1,275	Ft	\$2,398
CTD	001	JT SEAL DMG	M	Joint Seal (Localized)	1,027	Ft	\$1,930
CTD	002	JT SEAL DMG	M	Joint Seal (Localized)	970	Ft	\$1,823
CTE	001	JT SEAL DMG	M	Joint Seal (Localized)	1,344	Ft	\$2,528
CTF	001	JT SEAL DMG	M	Joint Seal (Localized)	929	Ft	\$1,746
CTF	001	JT SEAL DMG	H	Joint Seal (Localized)	2,051	Ft	\$3,856
CTM	001	JT SEAL DMG	M	Joint Seal (Localized)	1,332	Ft	\$2,504
CTM	001	JT SEAL DMG	H	Joint Seal (Localized)	2,996	Ft	\$5,633
PTA	002	JT SEAL DMG	M	Joint Seal (Localized)	28,250	Ft	\$53,110
RY1331	01C	JT SEAL DMG	M	Joint Seal (Localized)	11,300	Ft	\$21,244
RY1331	01W	JT SEAL DMG	M	Joint Seal (Localized)	20,546	Ft	\$38,626
RY1331	01W	JT SEAL DMG	H	Joint Seal (Localized)	8,218	Ft	\$15,450
RY1331	02W	JT SEAL DMG	M	Joint Seal (Localized)	12,480	Ft	\$23,462
RY220	01C	JT SEAL DMG	M	Joint Seal (Localized)	13,197	Ft	\$24,810
RY220	01W	JT SEAL DMG	M	Joint Seal (Localized)	27,650	Ft	\$51,983
RY220	01W	JT SEAL DMG	H	Joint Seal (Localized)	2,514	Ft	\$4,726
RY220	02C	JT SEAL DMG	M	Joint Seal (Localized)	3,125	Ft	\$5,875
RY220	02W	JT SEAL DMG	M	Joint Seal (Localized)	10,417	Ft	\$19,583
				<b>Total:</b>	<b>211,330</b>	<b>Ft</b>	<b>\$397,302</b>
APB	001	ALLIGATOR CR	M	Patching - AC Deep	2,079	SqFt	\$24,090
APB	002	ALLIGATOR CR	M	Patching - AC Deep	113	SqFt	\$1,313
CTG	001	ALLIGATOR CR	M	Patching - AC Deep	263	SqFt	\$3,044
CTH	001	ALLIGATOR CR	M	Patching - AC Deep	74	SqFt	\$857
CTJ	001	ALLIGATOR CR	M	Patching - AC Deep	988	SqFt	\$11,447
PTB	002	ALLIGATOR CR	M	Patching - AC Deep	57	SqFt	\$666
TLA	002	ALLIGATOR CR	M	Patching - AC Deep	622	SqFt	\$7,212
TLC	001	ALLIGATOR CR	M	Patching - AC Deep	1,423	SqFt	\$16,492
TLC	002	ALLIGATOR CR	M	Patching - AC Deep	10,315	SqFt	\$119,547
TLC	002	ALLIGATOR CR	H	Patching - AC Deep	10,315	SqFt	\$119,547
				<b>Total:</b>	<b>26,249</b>	<b>SqFt</b>	<b>\$304,214</b>
CTB4	001	RAVELING	H	Patching - AC Shallow	9	SqFt	\$70

Branch	Section	Distress Type	Severity	Treatment	Estimated Quantity	Unit	Cost
CTG	001	RAVELING	H	Patching - AC Shallow	16	SqFt	\$123
TLA	002	PATCHING	M	Patching - AC Shallow	165	SqFt	\$1,281
TLA	003	DEPRESSION	M	Patching - AC Shallow	95	SqFt	\$738
TLC	001	PATCHING	M	Patching - AC Shallow	308	SqFt	\$2,402
				<b>Total:</b>	<b>592</b>	<b>SqFt</b>	<b>\$4,613</b>
APA	001	LINEAR CR	H	Patching - PCC Full Depth	251	SqFt	\$18,304
CTA1	001	CORNER BREAK	M	Patching - PCC Full Depth	81	SqFt	\$5,901
CTA3	001	DURABIL. CR	M	Patching - PCC Full Depth	913	SqFt	\$66,530
CTA6	001	DURABIL. CR	M	Patching - PCC Full Depth	698	SqFt	\$50,796
CTA7	001	LARGE PATCH	M	Patching - PCC Full Depth	287	SqFt	\$20,916
CTA7	001	DURABIL. CR	M	Patching - PCC Full Depth	239	SqFt	\$17,430
CTA9	001	DURABIL. CR	M	Patching - PCC Full Depth	735	SqFt	\$53,535
CTA9	001	CORNER BREAK	M	Patching - PCC Full Depth	58	SqFt	\$4,215
PTA	002	DURABIL. CR	M	Patching - PCC Full Depth	1,553	SqFt	\$113,140
PTA	002	LINEAR CR	H	Patching - PCC Full Depth	207	SqFt	\$15,085
RY1331	01C	LARGE PATCH	M	Patching - PCC Full Depth	580	SqFt	\$42,299
RY1331	01C	DURABIL. CR	M	Patching - PCC Full Depth	483	SqFt	\$35,249
RY1331	01C	CORNER BREAK	M	Patching - PCC Full Depth	305	SqFt	\$22,204
RY1331	01W	DURABIL. CR	M	Patching - PCC Full Depth	9,148	SqFt	\$666,533
RY1331	01W	LINEAR CR	H	Patching - PCC Full Depth	563	SqFt	\$41,017
RY220	01C	CORNER BREAK	M	Patching - PCC Full Depth	203	SqFt	\$14,852
RY220	01C	DURABIL. CR	M	Patching - PCC Full Depth	12,297	SqFt	\$895,941
RY220	01W	LARGE PATCH	M	Patching - PCC Full Depth	7,853	SqFt	\$572,160
RY220	01W	DURABIL. CR	M	Patching - PCC Full Depth	13,088	SqFt	\$953,600
RY220	01W	LARGE PATCH	H	Patching - PCC Full Depth	523	SqFt	\$38,144
				<b>Total:</b>	<b>50,065</b>	<b>SqFt</b>	<b>\$3,647,854</b>
APA	001	SMALL PATCH	M	Patching - PCC Partial Depth	66	SqFt	\$690
APA	002	CORNER SPALL	M	Patching - PCC Partial Depth	12	SqFt	\$126
APA	002	CORNER SPALL	H	Patching - PCC Partial Depth	12	SqFt	\$126
CTA10	001	JOINT SPALL	M	Patching - PCC Partial Depth	13	SqFt	\$136
CTA3	001	CORNER SPALL	M	Patching - PCC Partial Depth	4	SqFt	\$42
CTA3	001	SMALL PATCH	M	Patching - PCC Partial Depth	4	SqFt	\$42
CTA3	001	CORNER SPALL	H	Patching - PCC Partial Depth	4	SqFt	\$42
CTA6	001	SMALL PATCH	M	Patching - PCC Partial Depth	25	SqFt	\$255
CTA9	001	SMALL PATCH	M	Patching - PCC Partial Depth	14	SqFt	\$151
CTA9	001	CORNER SPALL	M	Patching - PCC Partial Depth	10	SqFt	\$101
CTA9	001	CORNER SPALL	H	Patching - PCC Partial Depth	19	SqFt	\$202
CTE	001	CORNER SPALL	H	Patching - PCC Partial Depth	4	SqFt	\$41
CTF	001	JOINT SPALL	M	Patching - PCC Partial Depth	8	SqFt	\$75
CTF	001	CORNER SPALL	H	Patching - PCC Partial Depth	3	SqFt	\$31
CTF	001	JOINT SPALL	H	Patching - PCC Partial Depth	9	SqFt	\$93
CTM	001	CORNER SPALL	H	Patching - PCC Partial Depth	3	SqFt	\$33
PTA	002	JOINT SPALL	M	Patching - PCC Partial Depth	66	SqFt	\$683
PTA	002	CORNER SPALL	M	Patching - PCC Partial Depth	14	SqFt	\$142

Branch	Section	Distress Type	Severity	Treatment	Estimated Quantity	Unit	Cost
PTA	002	SMALL PATCH	M	Patching - PCC Partial Depth	61	SqFt	\$640
PTA	002	CORNER SPALL	H	Patching - PCC Partial Depth	6	SqFt	\$71
RY1331	01C	JOINT SPALL	M	Patching - PCC Partial Depth	30	SqFt	\$319
RY1331	01C	SMALL PATCH	M	Patching - PCC Partial Depth	26	SqFt	\$266
RY1331	01C	CORNER SPALL	M	Patching - PCC Partial Depth	26	SqFt	\$266
RY1331	01C	CORNER SPALL	H	Patching - PCC Partial Depth	13	SqFt	\$133
RY1331	01C	JOINT SPALL	H	Patching - PCC Partial Depth	76	SqFt	\$798
RY1331	01W	SMALL PATCH	M	Patching - PCC Partial Depth	55	SqFt	\$580
RY1331	01W	JOINT SPALL	M	Patching - PCC Partial Depth	44	SqFt	\$464
RY1331	01W	CORNER SPALL	H	Patching - PCC Partial Depth	55	SqFt	\$580
RY1331	02W	JOINT SPALL	M	Patching - PCC Partial Depth	19	SqFt	\$203
RY1331	02W	CORNER SPALL	H	Patching - PCC Partial Depth	9	SqFt	\$85
RY220	01C	SMALL PATCH	M	Patching - PCC Partial Depth	42	SqFt	\$445
RY220	01C	JOINT SPALL	M	Patching - PCC Partial Depth	102	SqFt	\$1,067
RY220	01W	JOINT SPALL	M	Patching - PCC Partial Depth	83	SqFt	\$863
RY220	01W	CORNER SPALL	M	Patching - PCC Partial Depth	12	SqFt	\$120
RY220	01W	SMALL PATCH	M	Patching - PCC Partial Depth	126	SqFt	\$1,319
RY220	01W	SMALL PATCH	H	Patching - PCC Partial Depth	12	SqFt	\$120
				<b>Total:</b>	<b>1,087</b>	<b>SqFt</b>	<b>\$11,351</b>
CTA9	001	DURABIL. CR	H	Slab Replacement - PCC	1,119	SqFt	\$43,918
RY1331	01W	SHAT. SLAB	H	Slab Replacement - PCC	4,289	SqFt	\$168,245
RY220	01W	DURABIL. CR	H	Slab Replacement - PCC	2,660	SqFt	\$104,306
				<b>Total:</b>	<b>8,069</b>	<b>SqFt</b>	<b>\$316,469</b>
APA	003	WEATHERING	M	Surface Treatment	18,150	SqFt	\$9,257
APB	001	WEATHERING	M	Surface Treatment	10,711	SqFt	\$5,463
CTB4	001	RAVELING	M	Surface Treatment	1,198	SqFt	\$611
CTB4	001	WEATHERING	M	Surface Treatment	6,891	SqFt	\$3,514
CTG	001	WEATHERING	M	Surface Treatment	9,445	SqFt	\$4,817
CTK	001	WEATHERING	M	Surface Treatment	1,145	SqFt	\$584
PTB	001	WEATHERING	M	Surface Treatment	17,739	SqFt	\$9,047
TLA	002	WEATHERING	M	Surface Treatment	102,268	SqFt	\$52,157
				<b>Total:</b>	<b>167,548</b>	<b>SqFt</b>	<b>\$85,450</b>

*Appendix G*

# 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 involves complete removal and replacement of existing sealant.

## Maintenance Activities

### *Flexible (Asphalt) Pavement*

Longitudinal and transverse (L&T) cracks at medium severity ( $>1/4$ " 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, load-related (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.

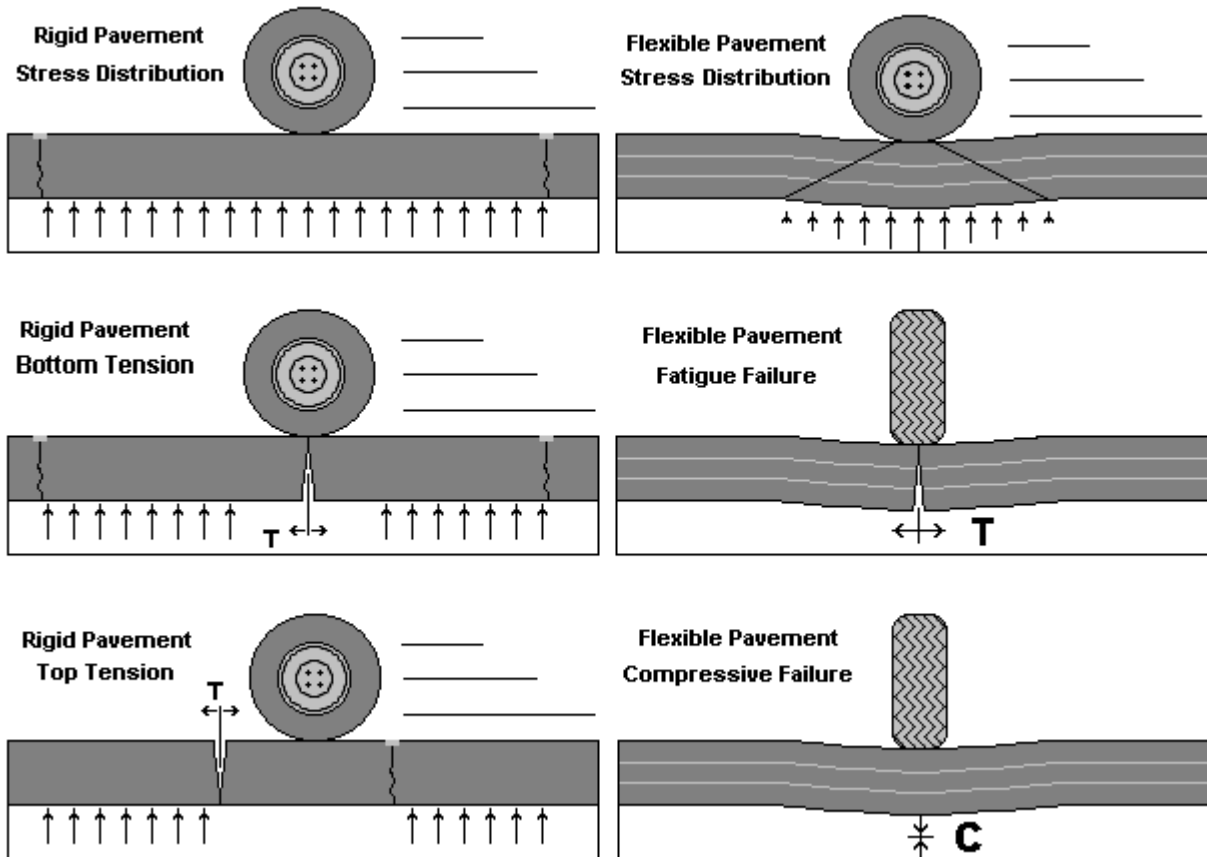


Figure 1. Pavement failure.

### 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 ( $\frac{1}{2}$  -  $1\frac{1}{2}$  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 air-entrained 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.

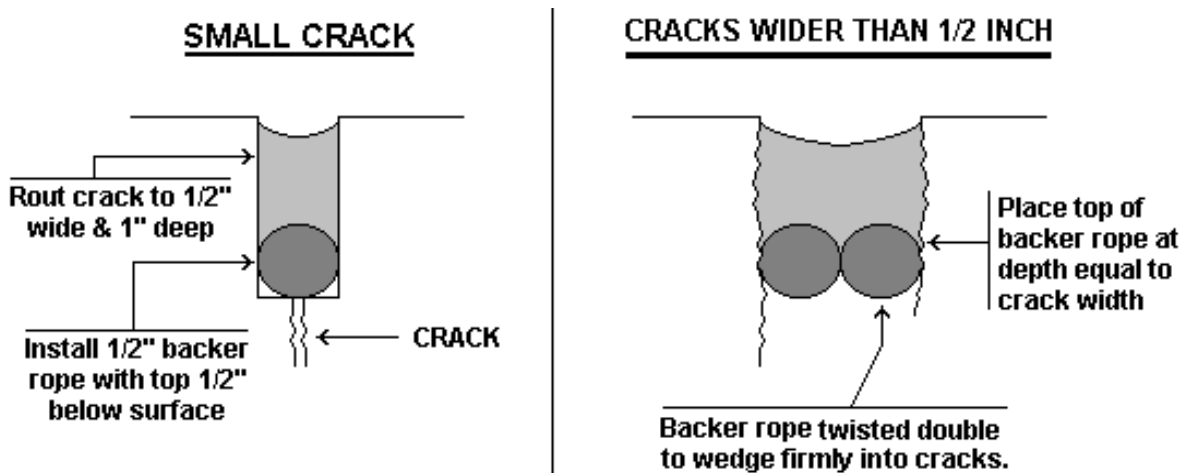


Figure 2. Crack sealing.

#### 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.

### ***Overband Technique***

A latex modified, fiber reinforced, asphalt cement sealant using the techniques outlined below.

#### **Material**

- Blend grade 20 or equivalent asphalt cement with latex rubber at 5 percent by weight of asphalt.
- Again, at 5 percent by weight of asphalt, add polyester fibers into agitator tank.
- Maintain blended asphalt temperature at least 20 degrees below flash point.
- Continuously recycle hot blended asphalt through pumps and hoses when heating kettle is in standby mode.

#### **Application**

- Sealant should be applied to dry pavement, with ambient temperatures above 40 degrees.
- Cracks should be sand cleaned and blown free of debris immediately before sealing.
- Application of sealant immediately follows cleaning of the crack.
- Sealant should be pressure applied from a wand-type applicator with a special "overband" nozzle.
- Seat the sealant with a steel-wheeled roller immediately after placement.
- In wider cracks, a backer rope is recommended to limit material quantities required.

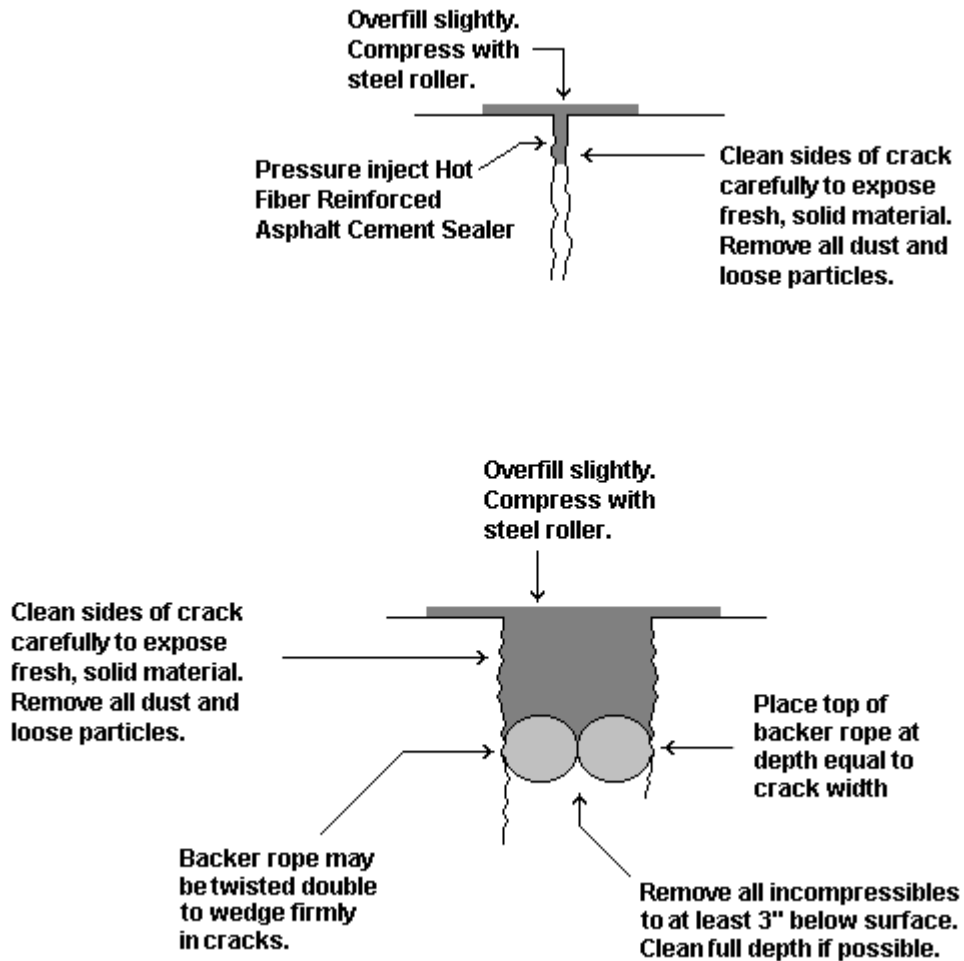


Figure 3. Overband sealing.

### **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.

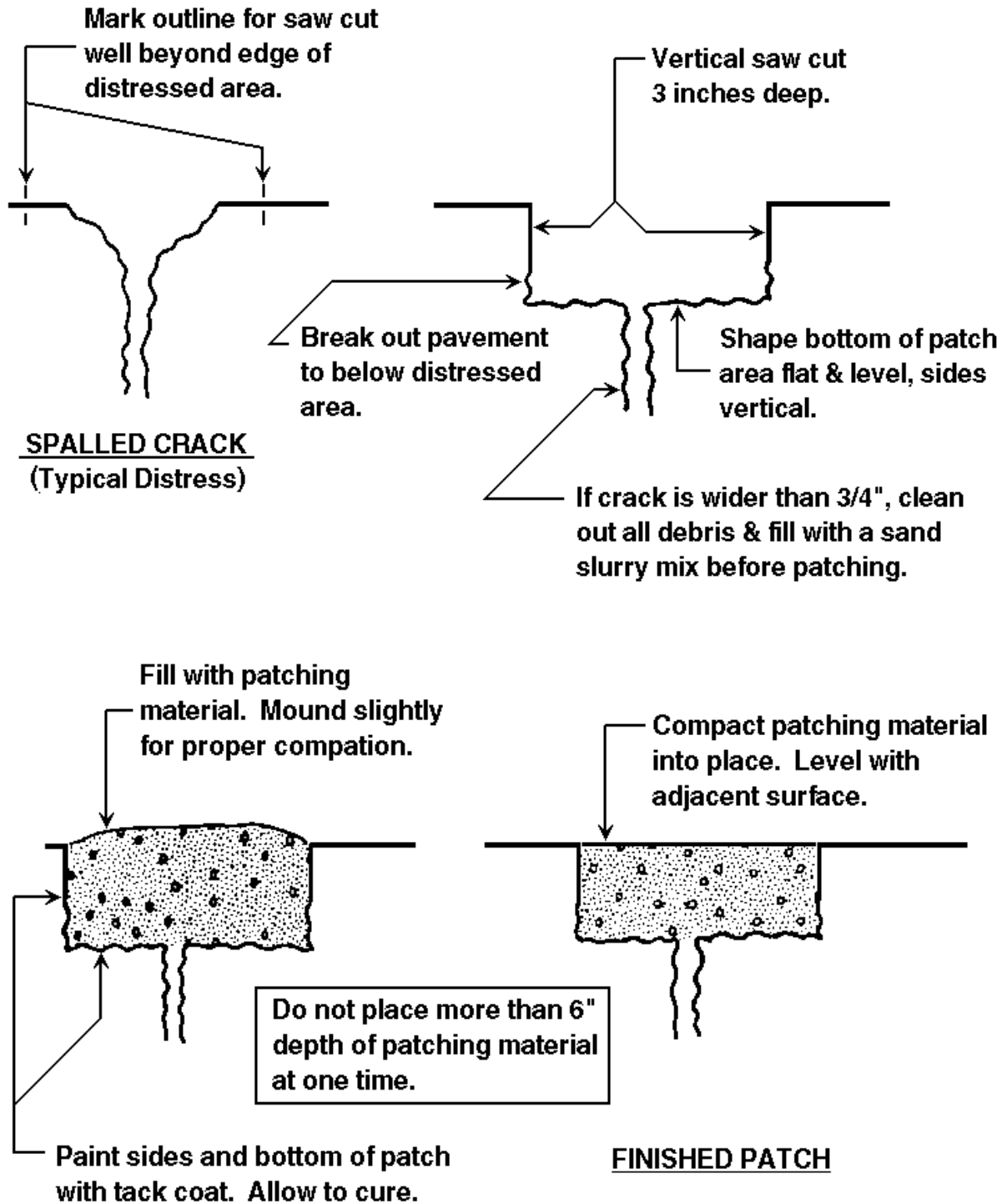


Figure 4. AC patch.

## *Patching (PCC)*

The technique outlined here simulates a thin bonded PCC overlay. This procedure has been proven in service throughout the country.

- Examine the distressed area and mark the patch outline. This examination may require a pick or chisel to test pavement integrity in and around the distressed area.
- Saw cut the area to a depth of 2 inches. The enclosed area is then chipped or jack hammered to solid pavement, but not less than a 2-inch nominal depth.
- The sides and bottom are sand cleaned and air-blasted to expose vital, clean concrete.
- A 25 percent solution of muriatic acid is applied to all exposed surfaces within the patch.
- The muriatic acid solution is thoroughly flushed from the patch area with water.
- Compressed air is used to remove excess water from the area, but exposed concrete must be maintained in a moist condition.
- The sides and bottom of the area are then coated with approximately a 1/16-inch layer of cement grout applied at the consistency of paste. The grout acts as an adhesive to bond the fresh concrete to existing concrete.
- If the patch is adjacent to joints, the continuity of the joint must be maintained by placing inserts approximately the shape of the desired joint against the wall of the patch.
- Before concrete grout begins to dry, concrete is placed in the patch area and is compacted into position with hand tampers or a vibrating plate tamper.
- When the patch has been struck to the proper slope and elevation, a surface texture is applied to approximate the texture of adjacent pavement.
- Joint edges may be edged slightly to remove sharp edges. The patch should be covered with polyethylene or sprayed with a curing compound.
- Clean the surrounding pavement before concrete spillover has a chance to set up.
- The patch may be open to traffic in 72 hours.

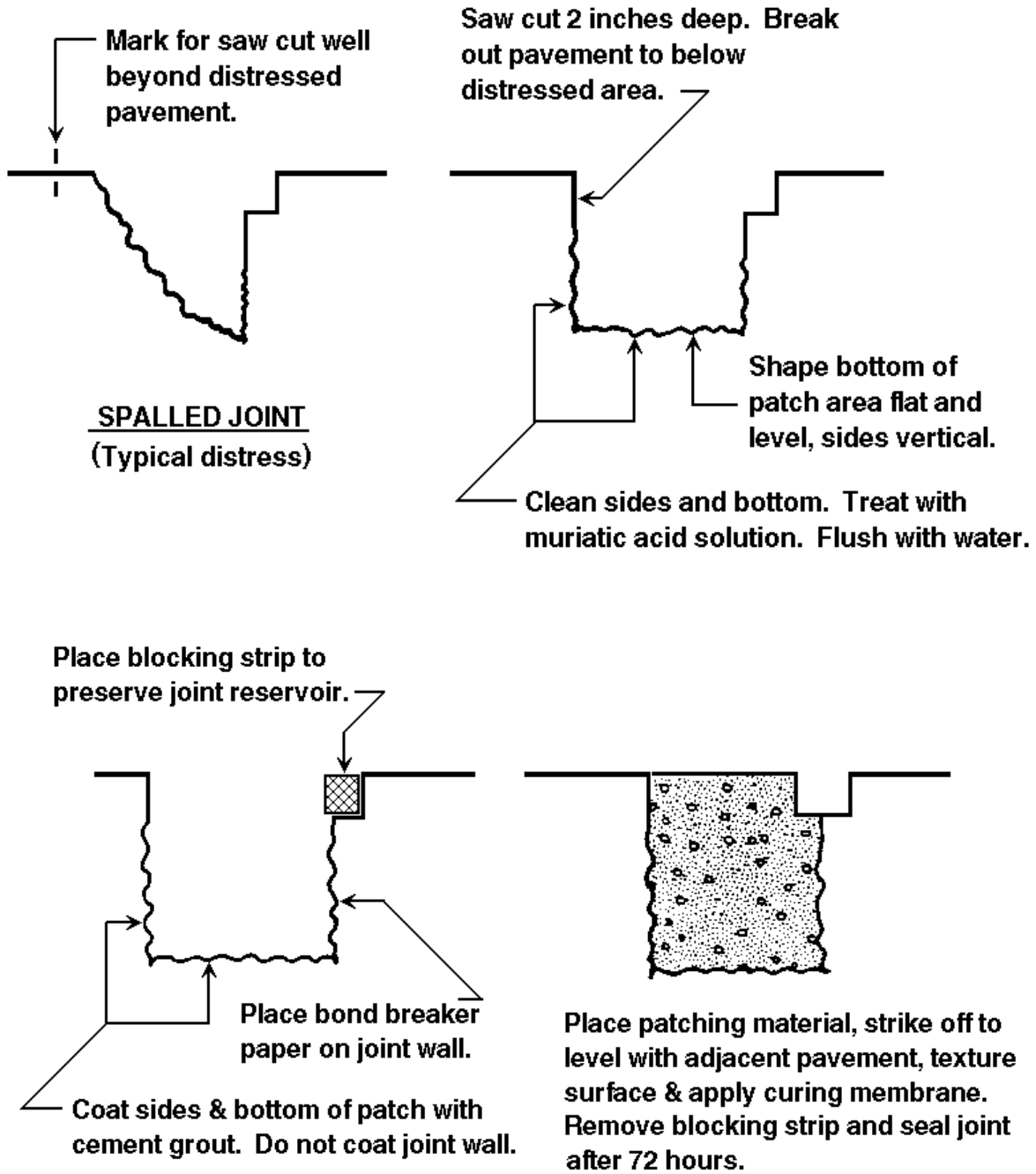


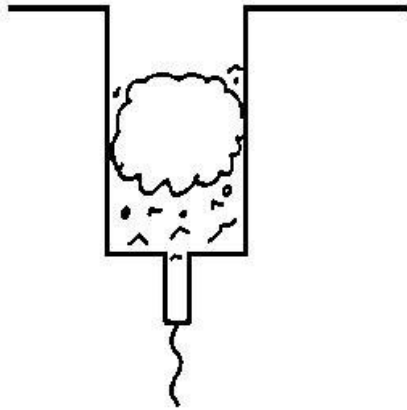
Figure 5. PCC patch.



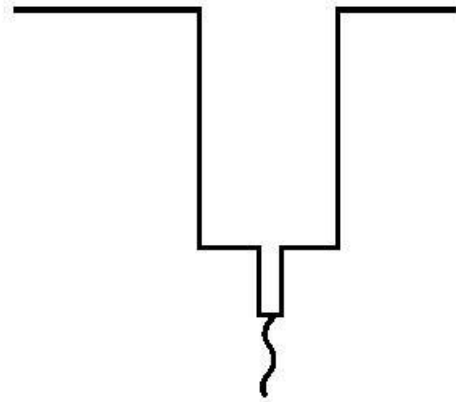
### *Joint Repair (PCC)*

Seal joints in PCC pavement when existing sealant has deteriorated to a degree that allows water and incompressibles to enter the joint. Hairline cracks are not yet candidates for sealing.

- Rout a reservoir for the sealant. Sealant reservoir should be  $\frac{1}{2}$  inch wide and 1 inch deep.
- For cracks wider than  $\frac{1}{2}$  inch, the reservoir should be  $\frac{1}{4}$  inch wider than the crack. Depth should be such that sealant above the backer rope is at most equal to reservoir width, or as recommended by manufacturer.
- Routed cracks should be sand cleaned, using fine sand at reduced pressure. Proper cleaning will expose fresh, vital pavement on the vertical crack edge.
- Immediately prior to sealing, cracks should be cleaned with compressed air. Ensure that all sand, debris, and incompressibles are removed from the crack. A small hand-held hook or plowing tool may be needed to dislodge some particles. Water cleaning is not recommended, simply because the drying time delays the sealing operation.
- After cleaning with compressed air, a backing material should be placed into the crack. The backer rope may be any compressible substance compatible with bituminous sealant material that will wedge into cracks at a designated depth and support the sealant. Several sizes should be immediately available in the field to accommodate various crack sizes.
- Sealant should be pressure applied with a wand type applicator to within  $\frac{1}{4}$  inch of the pavement surface. Follow the equipment manufacturer's instructions.
- The final activity is to clean the surrounding pavement area. A vacuum sweeper works well. Brooms should not be used until the sealant has taken an initial set.



Typical joint with deficient sealant and a collection of debris & incompressibles.



Rout out old sealant, debris and incompressibles. Clean joint sides to expose fresh, clean concrete and stone. Retain existing reservoir shape.

Fill to 1/8" below surface.  
Do not overfill.

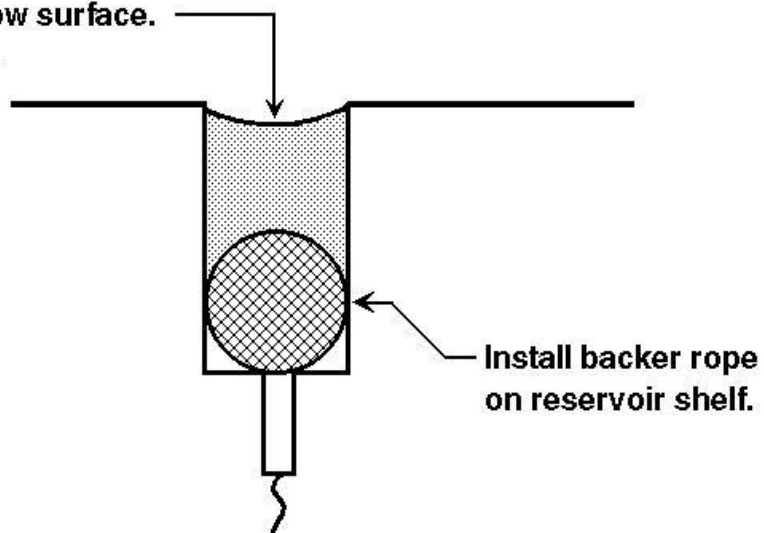


Figure 6. PCC joint/crack repair.

