JORDAN AIRPORT

Branch: 37A **APRON** **A-11**

Length: 250 LF **Width:** 200 LF **Area:** 50,000 SF **Last Const. :** 2003 **Family:** 9ACAM
From: T-12 **To:** **Surface:** AC

Inspections

Samples Surveyed: 4 **Total Samples:** 12 **Last Inspection Date:** 6/16/2009 **PCI: 88**

Sample # 3 **Area:** 4150 SF

Distress Description	Severity	Quantity
OIL SPILLAGE	N	113 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	34 LF
PATCHING	L	36 SF
DEPRESSION	L	6 SF
WEATHERING/RAVELING	M	1 SF

Sample # 4 **Area:** 4150 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	3 LF

Sample # 8 **Area:** 4150 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	39 LF
PATCHING	L	60 SF
OIL SPILLAGE	N	5 SF
DEPRESSION	L	2 SF

Sample # 12 **Area:** 4150 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	165 LF
DEPRESSION	L	11 SF
PATCHING	L	2 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	L	726 LF	1.45 %	5.99
WEATHERING/RAVELING	M	3 SF	0.01 %	4.00
OIL SPILLAGE	N	355 SF	0.71 %	3.25
PATCHING	L	295 SF	0.59 %	2.65
DEPRESSION	L	57 SF	0.11 %	0.30

* Multiple deduct values are scaled down from their algebraic sum to keep the model consistent with experimental data.

Percent of Deduct Values Based on Distress Mechanism

0.0 **% Load** 78.0 **% Climate/Durability** 22.0 **% Other**

JORDAN AIRPORT

Branch: 37R **RUNWAY** **R-1**

Length: 4,300 LF **Width:** 75 LF **Area:** 322,500 SF **Last Const. :** 2003 **Family:** 9ACRML
From: STA 0+00 **To:** STA 43+00 **Surface:** AC

Inspections

Samples Surveyed: 7 **Total Samples:** 66 **Last Inspection Date:** 6/16/2009 **PCI: 83**

Sample # 14 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	382 LF

Sample # 23 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	215 LF

Sample # 32 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	176 LF
WEATHERING/RAVELING	M	5 SF

Sample # 41 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	283 LF
WEATHERING/RAVELING	M	5 SF

Sample # 50 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	225 LF
WEATHERING/RAVELING	M	5 SF

Sample # 59 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	358 LF
WEATHERING/RAVELING	M	5 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	L	15493 LF	4.80 %	14.35
WEATHERING/RAVELING	M	189 SF	0.06 %	4.00
WEATHERING/RAVELING	L	0 SF	0.00 %	1.00

* Multiple deduct values are scaled down from their algebraic sum to keep the model consistent with experimental data.

Percent of Deduct Values Based on Distress Mechanism

0.0 **% Load** 100.0 **% Climate/Durability** 0.0 **% Other**

JORDAN AIRPORT

Branch: 37T **TAXIWAY** **T-1**

Length: 272 LF **Width:** 85 LF **Area:** 24,538 SF **Last Const. :** 2003 **Family:** 9ACRML
From: RUNWAY 10/28 **To:** **Surface:** AC

Inspections

Samples Surveyed: 3 **Total Samples:** 4 **Last Inspection Date:** 6/16/2009 **PCI: 90**

Sample # 1 **Area:** 5780 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	M	18 SF

Sample # 2 **Area:** 5780 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	17 LF
PATCHING	L	4 SF
WEATHERING/RAVELING	M	4 SF

Sample # 3 **Area:** 3536 SF

Distress Description	Severity	Quantity
PATCHING	L	93 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	15 LF
WEATHERING/RAVELING	M	5 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
WEATHERING/RAVELING	M	44 SF	0.18 %	4.53
LONGITUDINAL/TRANSVERSE CRACKING	L	52 LF	0.21 %	3.18
PATCHING	L	158 SF	0.64 %	2.77
WEATHERING/RAVELING	L	0 SF	0.00 %	1.00

* Multiple deduct values are scaled down from their algebraic sum to keep the model consistent with experimental data.

Percent of Deduct Values Based on Distress Mechanism

0.0 **% Load** 100.0 **% Climate/Durability** 0.0 **% Other**

JORDAN AIRPORT

Branch: 37T **TAXIWAY** **T-12**

Length: 186 LF **Width:** 35 LF **Area:** 14,425 SF **Last Const. :** 2003 **Family:** 9ACRML
From: RUNWAY **To:** APRON **Surface:** AC

Inspections

Samples Surveyed: 3 **Total Samples:** 3 **Last Inspection Date:** 6/16/2009 **PCI: 84**

Sample # 1 **Area:** 3675 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	120 LF
PATCHING	L	76 SF
DEPRESSION	L	4 SF
WEATHERING/RAVELING	H	1 SF

Sample # 2 **Area:** 2878 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	61 LF
WEATHERING/RAVELING	M	1 SF

Sample # 3 **Area:** 4370 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	7 LF
WEATHERING/RAVELING	H	2 SF
PATCHING	L	2 SF
WEATHERING/RAVELING	M	1 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	L	248 LF	1.72 %	6.68
WEATHERING/RAVELING	H	4 SF	0.03 %	6.00
WEATHERING/RAVELING	M	3 SF	0.02 %	4.00
PATCHING	L	103 SF	0.71 %	2.92
DEPRESSION	L	5 SF	0.04 %	0.30

* Multiple deduct values are scaled down from their algebraic sum to keep the model consistent with experimental data.

Percent of Deduct Values Based on Distress Mechanism

0.0 **% Load** 98.0 **% Climate/Durability** 2.0 **% Other**

JORDAN AIRPORT

FIRST YEAR LOCAL:2010 LOCAL REPAIR COST: $6,529

Section	Distress Description	Severity	Quantity	Work Description	Quantity	Cost	Policy
A-11	OIL SPILLAGE	N	356 SF	Patching - AC Shallow	436 SF	$6,529	PREV.

FIFTEEN YEAR PROJECTIONS: ESTIMATED AVERAGE ANNUAL COST: $99,545

PLAN YEAR: 2010 ESTIMATED COST: $6,529

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$6,529				$6,529	86	86

PLAN YEAR: 2011 ESTIMATED COST: $7,663

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$620				$620	82	82
R-1	Basic Prev.	$6,556				$6,556	78	78
T-1	Basic Prev.	$225				$225	84	84
T-12	Basic Prev.	$263				$263	79	79

PLAN YEAR: 2012 ESTIMATED COST: $10,173

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$923				$923	79	79
R-1	Basic Prev.	$8,542				$8,542	76	76
T-1	Basic Prev.	$353				$353	81	81
T-12	Basic Prev.	$356				$356	77	77

PLAN YEAR: 2013 ESTIMATED COST: $670,864

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Prev. & Thin AC	$1,309	$80,000			$81,310	76	94
R-1	Prev. & Thin AC	$10,277	$516,001			$526,278	74	88
T-1	Prev. & Thin AC	$499	$39,261			$39,760	78	96
T-12	Prev. & Thin AC	$437	$23,080			$23,517	74	89

PLAN YEAR: 2014 ESTIMATED COST: $3,088

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$26				$26	90	90
R-1	Basic Prev.	$2,954				$2,954	84	84
T-12	Basic Prev.	$107				$107	85	85

PLAN YEAR: 2015 ESTIMATED COST: $5,235

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$332				$332	86	86
R-1	Basic Prev.	$4,635				$4,635	81	81
T-1	Basic Prev.	$83				$83	88	88
T-12	Basic Prev.	$185				$185	82	82

PLAN YEAR: 2016 ESTIMATED COST: $7,656

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$619				$619	83	83
R-1	Basic Prev.	$6,550				$6,550	78	78
T-1	Basic Prev.	$224				$224	84	84
T-12	Basic Prev.	$263				$263	79	79

PLAN YEAR: 2017 ESTIMATED COST: $10,173

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$923				$923	79	79
R-1	Basic Prev.	$8,542				$8,542	76	76
T-1	Basic Prev.	$353				$353	81	81
T-12	Basic Prev.	$356				$356	77	77

PLAN YEAR: 2018 ESTIMATED COST: $12,520

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$1,308				$1,308	76	76
R-1	Basic Prev.	$10,277				$10,277	74	74
T-1	Basic Prev.	$498				$498	78	78
T-12	Basic Prev.	$437				$437	74	74

PLAN YEAR: 2019 ESTIMATED COST: $14,615

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$1,677				$1,677	73	73
R-1	Basic Prev.	$11,781				$11,781	72	72
T-1	Basic Prev.	$650				$650	76	76
T-12	Basic Prev.	$507				$507	72	72

JORDAN AIRPORT

PLAN YEAR: 2020 ESTIMATED COST: $16,474

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$2,034				$2,034	70	70
R-1	Basic Prev.	$13,090				$13,090	70	70
T-1	Basic Prev.	$782				$782	74	74
T-12	Basic Prev.	$568				$568	71	71

PLAN YEAR: 2021 ESTIMATED COST: $17,545

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$2,233				$2,233	67	67
R-1	Basic Prev.	$13,806				$13,806	69	69
T-1	Basic Prev.	$896				$896	72	72
T-12	Basic Prev.	$609				$609	69	69

PLAN YEAR: 2022 ESTIMATED COST: $18,430

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$2,417				$2,417	65	65
R-1	Basic Prev.	$14,381				$14,381	67	67
T-1	Basic Prev.	$996				$996	70	70
T-12	Basic Prev.	$635				$635	68	68

PLAN YEAR: 2023 ESTIMATED COST: $677,601

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Prev. & Thin AC	$2,600	$80,000			$82,601	62	76
R-1	Prev. & Thin AC	$14,948	$516,001			$530,949	66	74
T-1	Prev. & Thin AC	$1,050	$39,261			$40,311	69	78
T-12	Prev. & Thin AC	$661	$23,080			$23,741	67	74

PLAN YEAR: 2024 ESTIMATED COST: $14,615

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$1,677				$1,677	73	73
R-1	Basic Prev.	$11,781				$11,781	72	72
T-1	Basic Prev.	$650				$650	76	76
T-12	Basic Prev.	$507				$507	72	72

JORDAN AIRPORT

6/16/2009

A-11, overview

A-11, surface detail

T-1, surface detail with patches

T-1, overview with patches

JORDAN AIRPORT

6/16/2009

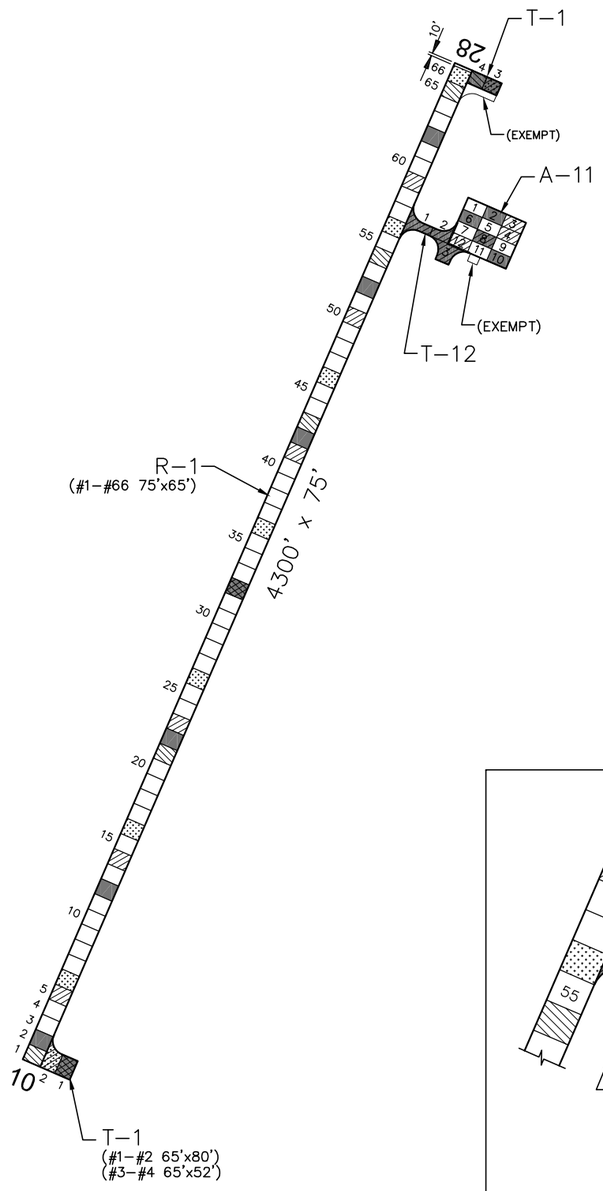
T-12, overview

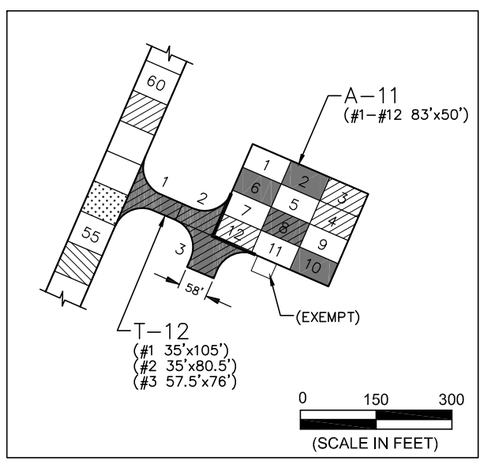
R-1, aggregate voids

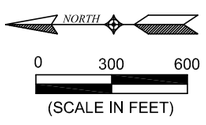
R-1, surface detail with crack

R-1, overview

JORDAN







PAVEMENT STRENGTH SURVEY/PAVEMENT CONDITION SURVEY

JORDAN

PAVE. IDENT.	SOIL CLASS	SUB GRADE CLASS	SUBBASE COURSE	BASE COURSE	SURFACE COURSE	OVERLAY	PAVEMENT STRENGTH MAX. GROSS LOAD (LBS) SINGLE	DUAL	DUAL TAN.	REMARKS
RUNWAYS										
R–1	E–7	CBR=2.8	7" P–154	5" P–208	1.5" TRIPLE SHOT	3.5" P–401	12,500			1 2 3
TAXIWAYS										
T–1	E–7	CBR=2.8	7" P–154	5" P–208	P–609	3.5" P–401	12,500			1 2 3
T–12	E–7	CBR=2.8	GEOGRID,FABRIC, 11" P–154	4" P–208	3" P–401		12,500			2 3
APRONS										
A–11	E–7	CBR=2.8	GEOGRID,FABRIC, 11" P–154	4" P–208	3" P–401		12,500			2 3

REMARKS:

ADAP–01, 1981, REHABILITATE RUNWAY AND TAXIWAY, CONSTRUCT RUNWAY EXTENSION, REHABILITATE AND EXPAND APRON.

1 AIP–01, 1991, RECONSTRUCT RUNWAY.

2 AIP–002–2003, RECONSTRUCT APRON AND TAXIWAY (T–12); OVERLAY REMAINING PAVEMENTS.

3 AIP–004–2009, CRACK SEAL, FOG SEAL, AND REMARK ALL PAVEMENTS. [INSPECTED AFTER FOG SEAL APPLICATION]

LEGEND

- 1997 SURVEY AREA
- 2000 SURVEY AREA
- 2003 SURVEY AREA (NOT SURVEYED)
- 2006 SURVEY AREA
- 2009 SURVEY AREA

DATE OF PAVEMENT STRENGTH SURVEY:	AUG. 1, 1989
EVALUATED BY:	J. STYBA
DATE OF MOST RECENT PAVEMENT CONDITION SURVEY:	JULY 14, 2009
EVALUATED BY:	B. BURKLAND

MONTANA AVIATION SYSTEM PLAN
2009 UPDATE - PAVEMENT CONDITION INDEXES

JORDAN AIRPORT

PREPARED FOR: MONTANA AERONAUTICS DIVISION

JORDAN
MONTANA

DATE: NOV. 2009

PREPARED BY: RPA