TERRY AIRPORT

Branch: 41A **APRON** **A-11**

Length: 287 LF **Width:** 182 LF **Area:** 52,234 SF **Last Const. :** 2001 **Family:** 9ACAM
From: T-11 **To:** HANGARS **Surface:** AC

Inspections

Samples Surveyed: 5 **Total Samples:** 14 **Last Inspection Date:** 7/17/2009 **PCI: 76**

Sample # 2 **Area:** 3731 SF

Distress Description	Severity	Quantity
DEPRESSION	L	56 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	12 LF
WEATHERING/RAVELING	L	37 SF
OIL SPILLAGE	N	16 SF
WEATHERING/RAVELING	M	2 SF
PATCHING	L	1 SF

Sample # 5 **Area:** 3731 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	51 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	10 LF
WEATHERING/RAVELING	L	24 SF
PATCHING	L	18 SF
OIL SPILLAGE	N	3 SF
WEATHERING/RAVELING	H	2 SF
DEPRESSION	L	2 SF

Sample # 6 **Area:** 3731 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	81 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	20 LF
WEATHERING/RAVELING	L	24 SF
DEPRESSION	L	23 SF
PATCHING	L	10 SF
WEATHERING/RAVELING	M	2 SF
OIL SPILLAGE	N	2 SF

Sample # 9 **Area:** 3731 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	87 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	22 LF
WEATHERING/RAVELING	M	11 SF
DEPRESSION	L	8 SF
OIL SPILLAGE	N	7 SF
WEATHERING/RAVELING	H	4 SF

Sample # 12 **Area:** 3731 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	38 LF
WEATHERING/RAVELING	L	37 SF
OIL SPILLAGE	N	37 SF
PATCHING	L	36 SF
DEPRESSION	L	16 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	4 LF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
WEATHERING/RAVELING	H	17 SF	0.03 %	6.00
LONGITUDINAL/TRANSVERSE CRACKING	L	571 LF	1.09 %	5.15
LONGITUDINAL/TRANSVERSE CRACKING	M	95 LF	0.18 %	4.88
WEATHERING/RAVELING	M	42 SF	0.08 %	4.00
DEPRESSION	L	294 SF	0.56 %	3.78
OIL SPILLAGE	N	182 SF	0.35 %	2.94
WEATHERING/RAVELING	L	585 SF	1.12 %	2.80
PATCHING	L	182 SF	0.35 %	2.19

* 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** 79.0 **% Climate/Durability** 21.0 **% Other**

TERRY AIRPORT

Branch: 41R **RUNWAY** **R-11**

Length: 4,300 LF **Width:** 75 LF **Area:** 322,500 SF **Last Const. :** 2001 **Family:** 9ACRML
From: STA 12+00 **To:** STA 55+00 **Surface:** AC

Inspections

Samples Surveyed: 7 **Total Samples:** 66 **Last Inspection Date:** 7/17/2009 **PCI: 79**

Sample # 9 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	157 LF
WEATHERING/RAVELING	L	25 SF
WEATHERING/RAVELING	M	12 SF
SWELLING	L	12 SF

Sample # 17 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	257 LF
WEATHERING/RAVELING	M	48 SF
SWELLING	L	36 SF
WEATHERING/RAVELING	L	25 SF

Sample # 25 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	156 LF
SWELLING	L	37 SF
WEATHERING/RAVELING	L	25 SF
WEATHERING/RAVELING	M	25 SF

Sample # 33 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	114 LF
SWELLING	L	39 SF
WEATHERING/RAVELING	M	27 SF
WEATHERING/RAVELING	L	25 SF

Sample # 41 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	99 LF
SWELLING	L	77 SF
WEATHERING/RAVELING	M	65 SF
WEATHERING/RAVELING	L	25 SF

Sample # 49 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	256 LF
SWELLING	L	27 SF
WEATHERING/RAVELING	L	25 SF
WEATHERING/RAVELING	M	18 SF
PATCHING	L	1 SF

Sample # 57 **Area:** 4875 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	138 LF
SWELLING	L	57 SF
WEATHERING/RAVELING	M	45 SF
WEATHERING/RAVELING	L	25 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	L	11126 LF	3.45 %	11.18
WEATHERING/RAVELING	M	2268 SF	0.70 %	6.92
SWELLING	L	2693 SF	0.84 %	2.60
PATCHING	L	9 SF	0.00 %	2.00
WEATHERING/RAVELING	L	1654 SF	0.51 %	1.79

* 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** 89.0 **% Climate/Durability** 11.0 **% Other**

TERRY AIRPORT

Branch: 41T **TAXIWAY** **T-11**

Length: 595 LF **Width:** 39 LF **Area:** 23,463 SF **Last Const. :** 2001 **Family:** 9ACRML

From: R-11 **To:** A-11 **Surface:** AC

Inspections

Samples Surveyed: 3 **Total Samples:** 3 **Last Inspection Date:** 7/17/2009 **PCI: 73**

Sample # 1 **Area:** 7400 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	67 LF
WEATHERING/RAVELING	L	87 SF
WEATHERING/RAVELING	M	28 SF
OIL SPILLAGE	N	2 SF

Sample # 2 **Area:** 8663 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	112 LF
WEATHERING/RAVELING	L	87 SF
ALLIGATOR CRACKING	L	70 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	16 LF
WEATHERING/RAVELING	M	6 SF
OIL SPILLAGE	N	3 SF

Sample # 3 **Area:** 7400 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	152 LF
WEATHERING/RAVELING	L	148 SF
DEPRESSION	L	89 SF
PATCHING	L	54 SF
WEATHERING/RAVELING	M	26 SF
SWELLING	L	15 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
ALLIGATOR CRACKING	L	70 SF	0.30 %	10.76
LONGITUDINAL/TRANSVERSE CRACKING	L	331 LF	1.41 %	5.89
WEATHERING/RAVELING	M	60 SF	0.26 %	4.98
LONGITUDINAL/TRANSVERSE CRACKING	M	16 LF	0.07 %	4.00
WEATHERING/RAVELING	L	322 SF	1.37 %	3.17
DEPRESSION	L	89 SF	0.38 %	2.31
PATCHING	L	54 SF	0.23 %	2.04
OIL SPILLAGE	N	5 SF	0.02 %	2.00
SWELLING	L	15 SF	0.06 %	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

30.0 **% Load** 55.0 **% Climate/Durability** 15.0 **% Other**

TERRY AIRPORT

FIRST YEAR LOCAL:2010 LOCAL REPAIR COST: $4,041

Section	Distress Description	Severity	Quantity	Work Description	Quantity	Cost	Policy
A-11	L & T CR	M	96 LF	Crack Sealing - AC	96 LF	$143	PREV.
A-11	OIL SPILLAGE	N	182 SF	Patching - AC Shallow	241 SF	$3,604	PREV.
T-11	L & T CR	M	16 LF	Crack Sealing - AC	16 LF	$24	PREV.
T-11	OIL SPILLAGE	N	5 SF	Patching - AC Shallow	18 SF	$270	PREV.

FIFTEEN YEAR PROJECTIONS: ESTIMATED AVERAGE ANNUAL COST: $97,067

PLAN YEAR: 2010 ESTIMATED COST: $4,041

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$3,747				$3,747	75	75
T-11	Basic Prev.	$294				$294	72	72

PLAN YEAR: 2011 ESTIMATED COST: $649,034

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Prev. & Thin AC	$1,941	$83,575			$85,515	72	88
R-11	Prev. & Thin AC	$9,036	$516,001			$525,038	75	91
T-11	Prev. & Thin AC	$941	$37,541			$38,481	70	82

PLAN YEAR: 2012 ESTIMATED COST: $2,567

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$498				$498	84	84
R-11	Basic Prev.	$1,612				$1,612	87	87
T-11	Basic Prev.	$456				$456	79	79

PLAN YEAR: 2013 ESTIMATED COST: $4,821

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$790				$790	81	81
R-11	Basic Prev.	$3,428				$3,428	84	84
T-11	Basic Prev.	$603				$603	76	76

PLAN YEAR: 2014 ESTIMATED COST: $6,960

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$1,168				$1,168	78	78
R-11	Basic Prev.	$5,060				$5,060	80	80
T-11	Basic Prev.	$732				$732	74	74

PLAN YEAR: 2015 ESTIMATED COST: $9,520

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$1,561				$1,561	75	75
R-11	Basic Prev.	$7,116				$7,116	78	78
T-11	Basic Prev.	$843				$843	72	72

PLAN YEAR: 2016 ESTIMATED COST: $11,917

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$1,941				$1,941	72	72
R-11	Basic Prev.	$9,036				$9,036	75	75
T-11	Basic Prev.	$941				$941	70	70

PLAN YEAR: 2017 ESTIMATED COST: $13,940

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$2,236				$2,236	69	69
R-11	Basic Prev.	$10,705				$10,705	73	73
T-11	Basic Prev.	$999				$999	69	69

PLAN YEAR: 2018 ESTIMATED COST: $15,619

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$2,429				$2,429	66	66
R-11	Basic Prev.	$12,149				$12,149	71	71
T-11	Basic Prev.	$1,041				$1,041	68	68

PLAN YEAR: 2019 ESTIMATED COST: $17,059

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$2,620				$2,620	63	63
R-11	Basic Prev.	$13,357				$13,357	70	70
T-11	Basic Prev.	$1,082				$1,082	66	66

PLAN YEAR: 2020 ESTIMATED COST: $17,903

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$2,813				$2,813	60	60
R-11	Basic Prev.	$13,965				$13,965	68	68
T-11	Basic Prev.	$1,126				$1,126	65	65

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PLAN YEAR: 2021 ESTIMATED COST: $656,019

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Prev. & Thin AC	$3,193	$83,575			$86,767	58	72
R-11	Prev. & Thin AC	$14,534	$516,001			$530,535	67	75
T-11	Prev. & Thin AC	$1,175	$37,541			$38,716	63	70

PLAN YEAR: 2022 ESTIMATED COST: $13,933

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$2,236				$2,236	69	69
R-11	Basic Prev.	$10,699				$10,699	73	73
T-11	Basic Prev.	$999				$999	69	69

PLAN YEAR: 2023 ESTIMATED COST: $15,618

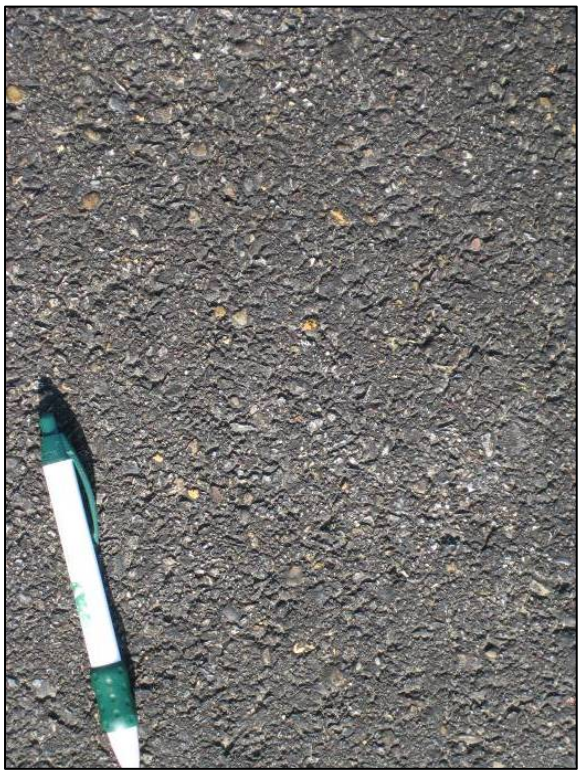
SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$2,428				$2,428	66	66
R-11	Basic Prev.	$12,149				$12,149	71	71
T-11	Basic Prev.	$1,041				$1,041	68	68

PLAN YEAR: 2024 ESTIMATED COST: $17,059

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A-11	Basic Prev.	$2,620				$2,620	63	63
R-11	Basic Prev.	$13,357				$13,357	70	70
T-11	Basic Prev.	$1,082				$1,082	66	66

TERRY AIRPORT

7/17/2009



A-11, surface detail

A-11, depression

T-11, overview

T-11, surface detail with crack

TERRY AIRPORT

7/17/2009

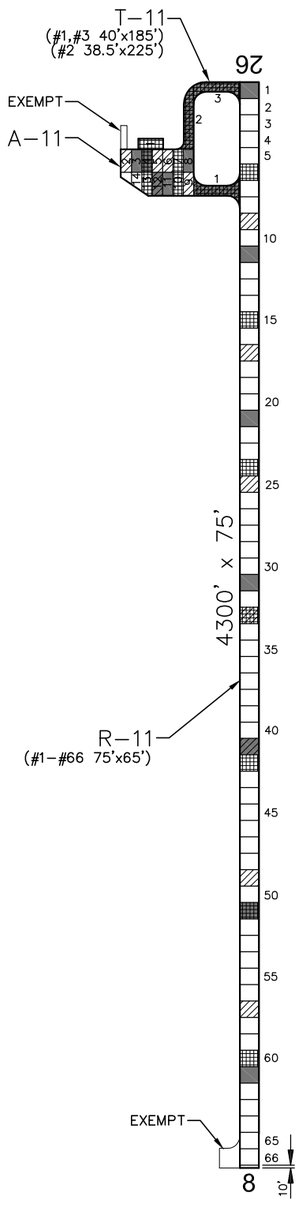
T-11 & A-11, overview

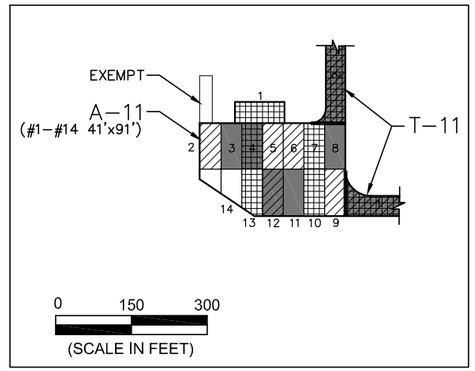
R-11, overview with soil sterilant

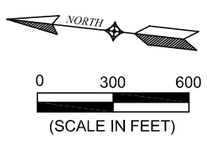
R-11, surface detail with swell & scrape

R-11, overview

TERRY







PAVEMENT STRENGTH SURVEY/PAVEMENT CONDITION SURVEY

TERRY

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–11	E–1			11.5" P–207	2.5" P–401		12,500			1 2
TAXIWAYS										
T–11	E–1			11.5" P–207	2.5" P–401		12,500			1 2
APRONS										
A–11	E–1			11.5" P–207	2.5" P–401		12,500			1 2

REMARKS:

ADAP, 1977, CONSTRUCTION

1 AIP–01, 2001, RECONSTRUCT RUNWAY, TAXIWAY, AND APRON.

2 AIP–002–2008, CRACK SEAL, FOG SEAL, AND REMARK ALL PAVEMENTS.

LEGEND

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

DATE OF PAVEMENT STRENGTH SURVEY:	
EVALUATED BY:	
DATE OF MOST RECENT PAVEMENT CONDITION SURVEY:	JULY 17, 2009
EVALUATED BY:	B. BURKLAND

MONTANA AVIATION SYSTEM PLAN
2009 UPDATE - PAVEMENT CONDITION INDEXES

TERRY AIRPORT

PREPARED FOR: MONTANA AERONAUTICS DIVISION

TERRY MONTANA

DATE: NOV. 2009

PREPARED BY: RPA