BENCHMARK AIRPORT

Branch: 11A **APRON** **A1A**

Length: 150 LF **Width:** 150 LF **Area:** 22,500 SF **Last Const. :** 1966 **Family:** 9ACAH
From: SOUTH T-1 **To:** END **Surface:** AC

Inspections

Samples Surveyed: 3 **Total Samples:** 4 **Last Inspection Date:** 11/4/2009 **PCI: 33**

Sample # 1 **Area:** 5625 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	4200 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	641 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	300 LF
WEATHERING/RAVELING	M	563 SF
DEPRESSION	L	45 SF
ALLIGATOR CRACKING	M	24 SF
BLEEDING	N	8 SF
PATCHING	L	4 SF
DEPRESSION	M	4 SF
PATCHING	M	4 SF

Sample # 2 **Area:** 5625 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	4200 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	306 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	291 LF
WEATHERING/RAVELING	M	563 SF
DEPRESSION	L	36 SF
LONGITUDINAL/TRANSVERSE CRACKING	H	7 LF
WEATHERING/RAVELING	H	22 SF
OIL SPILLAGE	N	18 SF
ALLIGATOR CRACKING	L	16 SF
PATCHING	L	6 SF
SWELLING	L	6 SF
PATCHING	M	6 SF
DEPRESSION	M	6 SF

Sample # 4 **Area:** 5625 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	4200 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	379 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	329 LF
WEATHERING/RAVELING	M	675 SF
ALLIGATOR CRACKING	L	165 SF
DEPRESSION	L	123 SF
RUTTING	L	70 SF
OIL SPILLAGE	N	10 SF
PATCHING	M	6 SF
WEATHERING/RAVELING	H	4 SF
DEPRESSION	M	4 SF
SWELLING	M	3 SF
PATCHING	L	2 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	M	1227 LF	5.45 %	26.90
WEATHERING/RAVELING	L	16800 SF	74.67 %	23.66
WEATHERING/RAVELING	M	2401 SF	10.67 %	21.29
ALLIGATOR CRACKING	L	241 SF	1.07 %	21.13
LONGITUDINAL/TRANSVERSE CRACKING	L	1768 LF	7.86 %	20.11
ALLIGATOR CRACKING	M	32 SF	0.14 %	12.80
RUTTING	L	93 SF	0.41 %	12.01
SWELLING	M	4 SF	0.02 %	10.00
DEPRESSION	L	272 SF	1.21 %	7.78
LONGITUDINAL/TRANSVERSE CRACKING	H	9 LF	0.04 %	7.50
WEATHERING/RAVELING	H	35 SF	0.15 %	7.46
PATCHING	M	21 SF	0.09 %	6.20
DEPRESSION	M	19 SF	0.08 %	5.20
OIL SPILLAGE	N	37 SF	0.17 %	2.30
PATCHING	L	16 SF	0.07 %	2.00
SWELLING	L	8 SF	0.04 %	1.00
BLEEDING	N	11 SF	0.05 %	0.00

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

BENCHMARK AIRPORT

Branch: 11A **APRON** **A1A**

Percent of Deduct Values Based on Distress Mechanism

25.0 **% Load** 61.0 **% Climate/Durability** 14.0 **% Other**

BENCHMARK AIRPORT

Branch: 11A **APRON** **A1B**

Length: 300 LF **Width:** 150 LF **Area:** 45,000 SF **Last Const. :** 1966 **Family:** 9ACAH
From: NORTH T-1 **To:** END **Surface:** AC

Inspections

Samples Surveyed: 4 **Total Samples:** 9 **Last Inspection Date:** 11/6/2009 **PCI: 17**

Sample # 2 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	M	3500 SF
WEATHERING/RAVELING	L	2000 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	524 LF
LONGITUDINAL/TRANSVERSE CRACKING	L	517 LF
WEATHERING/RAVELING	H	50 SF
OIL SPILLAGE	N	23 SF
DEPRESSION	M	3 SF
PATCHING	M	2 SF
PATCHING	L	1 SF

Sample # 4 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	M	3750 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	902 LF
WEATHERING/RAVELING	L	2000 SF
ALLIGATOR CRACKING	M	945 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	286 LF
WEATHERING/RAVELING	H	70 SF
SWELLING	L	60 SF
DEPRESSION	M	20 SF
OIL SPILLAGE	N	12 SF
DEPRESSION	L	10 SF

Sample # 6 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	M	3500 SF
WEATHERING/RAVELING	L	2000 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	393 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	273 LF
WEATHERING/RAVELING	H	50 SF
ALLIGATOR CRACKING	M	25 SF
DEPRESSION	L	20 SF
OIL SPILLAGE	N	18 SF

Sample # 8 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	M	3500 SF
WEATHERING/RAVELING	L	2000 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	390 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	356 LF
ALLIGATOR CRACKING	M	680 SF
WEATHERING/RAVELING	H	400 SF
DEPRESSION	L	75 SF
DEPRESSION	M	3 SF
PATCHING	M	2 SF
PATCHING	L	1 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
ALLIGATOR CRACKING	M	3712 SF	8.25 %	53.67
WEATHERING/RAVELING	M	32062 SF	71.25 %	49.14
WEATHERING/RAVELING	H	1282 SF	2.85 %	31.86
LONGITUDINAL/TRANSVERSE CRACKING	M	3239 LF	7.20 %	31.07
LONGITUDINAL/TRANSVERSE CRACKING	L	4956 LF	11.01 %	24.58
WEATHERING/RAVELING	L	18000 SF	40.00 %	18.51
PATCHING	M	9 SF	0.02 %	6.20
DEPRESSION	M	58 SF	0.13 %	5.29
DEPRESSION	L	236 SF	0.52 %	3.49
OIL SPILLAGE	N	119 SF	0.26 %	2.76
PATCHING	L	4 SF	0.01 %	2.00
SWELLING	L	135 SF	0.30 %	1.61

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

BENCHMARK AIRPORT

Branch: 11A **APRON** **A1B**

Percent of Deduct Values Based on Distress Mechanism

23.0 **% Load**	71.0 **% Climate/Durability**	6.0 **% Other**

BENCHMARK AIRPORT

Branch: 11R **RUNWAY** **R-1**

Length: 4,650 LF **Width:** 100 LF **Area:** 465,000 SF **Last Const. :** 1966 **Family:** 9ACRH
From: STA 7+50 **To:** STA 54+00 **Surface:** AC

Inspections

Samples Surveyed: 7 **Total Samples:** 93 **Last Inspection Date:** 11/4/2009 **PCI: 29**

Sample # 3 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3500 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	433 LF
WEATHERING/RAVELING	M	1100 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	323 LF
WEATHERING/RAVELING	H	50 SF
DEPRESSION	L	38 SF
LONGITUDINAL/TRANSVERSE CRACKING	H	8 LF
ALLIGATOR CRACKING	L	8 SF

Sample # 18 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3500 SF
WEATHERING/RAVELING	M	1200 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	179 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	46 LF
DEPRESSION	L	97 SF
RUTTING	L	80 SF
WEATHERING/RAVELING	H	50 SF

Sample # 33 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3500 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	349 LF
WEATHERING/RAVELING	M	1100 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	199 LF
ALLIGATOR CRACKING	L	70 SF
WEATHERING/RAVELING	H	50 SF
LONGITUDINAL/TRANSVERSE CRACKING	H	7 LF
SWELLING	L	8 SF
DEPRESSION	L	8 SF
DEPRESSION	M	1 SF

Sample # 48 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3500 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	463 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	423 LF
WEATHERING/RAVELING	M	1100 SF
DEPRESSION	L	645 SF
RUTTING	L	100 SF
ALLIGATOR CRACKING	L	60 SF
WEATHERING/RAVELING	H	55 SF
LONGITUDINAL/TRANSVERSE CRACKING	H	10 LF
SWELLING	L	31 SF
DEPRESSION	M	2 SF

Sample # 63 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3600 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	458 LF
WEATHERING/RAVELING	M	1300 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	115 LF
RUTTING	L	150 SF
DEPRESSION	L	150 SF
WEATHERING/RAVELING	H	50 SF
ALLIGATOR CRACKING	L	15 SF
LONGITUDINAL/TRANSVERSE CRACKING	H	4 LF
SWELLING	L	4 SF
SWELLING	M	2 SF

Sample # 78 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3600 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	563 LF
WEATHERING/RAVELING	M	1200 SF

BENCHMARK AIRPORT

Branch: 11R **RUNWAY** **R-1**

LONGITUDINAL/TRANSVERSE CRACKING	L	273	LF
LONGITUDINAL/TRANSVERSE CRACKING	H	72	LF
DEPRESSION	L	127	SF
WEATHERING/RAVELING	H	50	SF
DEPRESSION	M	47	SF
ALLIGATOR CRACKING	L	40	SF

Sample # 93 **Area:** 5000 SF

Distress Description	Severity	Quantity	
WEATHERING/RAVELING	L	3600	SF
LONGITUDINAL/TRANSVERSE CRACKING	M	484	LF
WEATHERING/RAVELING	M	1200	SF
LONGITUDINAL/TRANSVERSE CRACKING	L	308	LF
ALLIGATOR CRACKING	L	63	SF
DEPRESSION	L	24	SF
LONGITUDINAL/TRANSVERSE CRACKING	H	2	LF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity		Density	Deduct
WEATHERING/RAVELING	M	108942	SF	23.43 %	30.21
LONGITUDINAL/TRANSVERSE CRACKING	M	30073	LF	6.47 %	29.42
WEATHERING/RAVELING	L	329483	SF	70.86 %	23.20
LONGITUDINAL/TRANSVERSE CRACKING	L	31269	LF	6.72 %	18.16
ALLIGATOR CRACKING	L	3401	SF	0.73 %	17.66
WEATHERING/RAVELING	H	4052	SF	0.87 %	15.44
RUTTING	L	4384	SF	0.94 %	15.08
DEPRESSION	L	14468	SF	3.11 %	14.87
LONGITUDINAL/TRANSVERSE CRACKING	H	1369	LF	0.29 %	11.76
SWELLING	M	27	SF	0.01 %	10.00
DEPRESSION	M	664	SF	0.14 %	5.41
SWELLING	L	571	SF	0.12 %	1.22

* 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

17.0 **% Load** 67.0 **% Climate/Durability** 16.0 **% Other**

BENCHMARK AIRPORT

Branch: 11R **RUNWAY** **R2A**

Length: 750 LF **Width:** 100 LF **Area:** 75,000 SF **Last Const. :** 1966 **Family:** 9ACRH
From: STA 0+00 **To:** STA 7+50 **Surface:** AC

Inspections

Samples Surveyed: 5 **Total Samples:** 15 **Last Inspection Date:** 11/4/2009 **PCI: 28**

Sample # 3 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3500 SF
WEATHERING/RAVELING	M	1100 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	273 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	117 LF
ALLIGATOR CRACKING	L	375 SF
WEATHERING/RAVELING	H	160 SF
DEPRESSION	L	45 SF
LONGITUDINAL/TRANSVERSE CRACKING	H	8 LF
BLEEDING	N	12 SF

Sample # 6 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3500 SF
WEATHERING/RAVELING	M	1100 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	173 LF
ALLIGATOR CRACKING	L	500 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	144 LF
WEATHERING/RAVELING	H	80 SF

Sample # 9 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3500 SF
WEATHERING/RAVELING	M	1100 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	218 LF
ALLIGATOR CRACKING	L	680 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	195 LF
DEPRESSION	L	150 SF
DEPRESSION	H	4 SF

Sample # 10 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3500 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	340 LF
WEATHERING/RAVELING	M	1100 SF
ALLIGATOR CRACKING	L	660 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	94 LF
DEPRESSION	L	91 SF
BLEEDING	N	25 SF
DEPRESSION	M	3 SF
DEPRESSION	H	2 SF

Sample # 15 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3500 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	421 LF
LONGITUDINAL/TRANSVERSE CRACKING	L	391 LF
WEATHERING/RAVELING	M	1100 SF
ALLIGATOR CRACKING	L	108 SF
DEPRESSION	L	72 SF
BLEEDING	N	8 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
ALLIGATOR CRACKING	L	6969 SF	9.29 %	42.49
WEATHERING/RAVELING	M	16500 SF	22.00 %	29.38
WEATHERING/RAVELING	L	52500 SF	70.00 %	23.09
LONGITUDINAL/TRANSVERSE CRACKING	M	3070 LF	4.09 %	23.06
WEATHERING/RAVELING	H	720 SF	0.96 %	16.46
LONGITUDINAL/TRANSVERSE CRACKING	L	4030 LF	5.37 %	15.55
DEPRESSION	H	18 SF	0.02 %	12.00
DEPRESSION	L	1074 SF	1.43 %	8.87
LONGITUDINAL/TRANSVERSE CRACKING	H	24 LF	0.03 %	7.50
DEPRESSION	M	9 SF	0.01 %	5.20
BLEEDING	N	135 SF	0.18 %	0.86

BENCHMARK AIRPORT

Branch: 11R **RUNWAY** **R2A**

* 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

23.0 **% Load**	62.0 **% Climate/Durability**	15.0 **% Other**

BENCHMARK AIRPORT

Branch: 11R **RUNWAY** **R2B**

Length: 600 LF **Width:** 100 LF **Area:** 60,000 SF **Last Const. :** 1966 **Family:** 9ACRH
From: STA 54+00 **To:** STA 60+00 **Surface:** AC

Inspections

Samples Surveyed: 4 **Total Samples:** 12 **Last Inspection Date:** 11/4/2009 **PCI: 25**

Sample # 2 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3500 SF
WEATHERING/RAVELING	M	1100 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	286 LF
ALLIGATOR CRACKING	L	204 SF
DEPRESSION	L	16 SF

Sample # 5 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3500 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	484 LF
LONGITUDINAL/TRANSVERSE CRACKING	L	438 LF
WEATHERING/RAVELING	M	1100 SF
ALLIGATOR CRACKING	L	295 SF
WEATHERING/RAVELING	H	98 SF
DEPRESSION	L	55 SF
SWELLING	L	10 SF

Sample # 8 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3500 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	719 LF
WEATHERING/RAVELING	M	1100 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	293 LF
ALLIGATOR CRACKING	M	180 SF
ALLIGATOR CRACKING	L	175 SF
WEATHERING/RAVELING	H	50 SF
DEPRESSION	L	50 SF

Sample # 12 **Area:** 5000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3500 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	601 LF
WEATHERING/RAVELING	M	1200 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	305 LF
ALLIGATOR CRACKING	L	241 SF
LONGITUDINAL/TRANSVERSE CRACKING	H	35 LF
WEATHERING/RAVELING	H	80 SF
DEPRESSION	L	30 SF
BLEEDING	N	1 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
ALLIGATOR CRACKING	L	2745 SF	4.58 %	35.28
LONGITUDINAL/TRANSVERSE CRACKING	M	5413 LF	9.02 %	34.76
WEATHERING/RAVELING	M	13500 SF	22.50 %	29.68
ALLIGATOR CRACKING	M	540 SF	0.90 %	28.16
WEATHERING/RAVELING	L	42000 SF	70.00 %	23.09
WEATHERING/RAVELING	H	684 SF	1.14 %	18.44
LONGITUDINAL/TRANSVERSE CRACKING	L	3966 LF	6.61 %	17.95
LONGITUDINAL/TRANSVERSE CRACKING	H	105 LF	0.18 %	9.72
DEPRESSION	L	453 SF	0.75 %	5.13
SWELLING	L	30 SF	0.05 %	1.00
BLEEDING	N	3 SF	0.00 %	0.00

* 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

31.0 **% Load** 66.0 **% Climate/Durability** 3.0 **% Other**

BENCHMARK AIRPORT

Branch: 11T **TAXIWAY** **T-1**

Length: 0 LF **Width:** 0 LF **Area:** 13,500 SF **Last Const. :** 1966 **Family:** 9ACRH
From: RUNWAY **To:** EACH APRON **Surface:** AC

Inspections

Samples Surveyed: 3 **Total Samples:** 4 **Last Inspection Date:** 11/6/2009 **PCI: 33**

Sample # 1 **Area:** 3000 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	2400 SF
LONGITUDINAL/TRANSVERSE CRACKING	M	246 LF
LONGITUDINAL/TRANSVERSE CRACKING	L	128 LF
WEATHERING/RAVELING	M	382 SF
ALLIGATOR CRACKING	L	180 SF
LONGITUDINAL/TRANSVERSE CRACKING	H	5 LF
DEPRESSION	L	12 SF
ALLIGATOR CRACKING	M	10 SF
WEATHERING/RAVELING	H	7 SF

Sample # 3 **Area:** 3750 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3000 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	506 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	205 LF
WEATHERING/RAVELING	M	400 SF
ALLIGATOR CRACKING	L	24 SF
DEPRESSION	L	4 SF
BLEEDING	N	4 SF
WEATHERING/RAVELING	H	3 SF

Sample # 4 **Area:** 3750 SF

Distress Description	Severity	Quantity
WEATHERING/RAVELING	L	3000 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	603 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	223 LF
WEATHERING/RAVELING	M	400 SF
DEPRESSION	L	135 SF
WEATHERING/RAVELING	H	15 SF
OIL SPILLAGE	N	8 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	M	867 LF	6.42 %	29.31
ALLIGATOR CRACKING	L	262 SF	1.94 %	26.81
LONGITUDINAL/TRANSVERSE CRACKING	L	1591 LF	11.78 %	25.51
WEATHERING/RAVELING	L	10800 SF	80.00 %	24.28
WEATHERING/RAVELING	M	1520 SF	11.26 %	21.80
ALLIGATOR CRACKING	M	13 SF	0.10 %	10.00
DEPRESSION	L	194 SF	1.44 %	8.90
WEATHERING/RAVELING	H	32 SF	0.24 %	8.24
LONGITUDINAL/TRANSVERSE CRACKING	H	6 LF	0.05 %	7.50
OIL SPILLAGE	N	10 SF	0.08 %	2.00
BLEEDING	N	5 SF	0.04 %	0.00

* 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

22.0 **% Load** 71.0 **% Climate/Durability** 7.0 **% Other**

BENCHMARK AIRPORT

FIRST YEAR LOCAL:2010 LOCAL REPAIR COST: $105,797

Section	Distress Description	Severity	Quantity	Work Description	Quantity	Cost	Policy
A1A	L & T CR	H	10 LF	Crack Sealing - AC	10 LF	$14	SAFET
A1A	WEATH/RAVEL	H	35 SF	Patching - AC Shallow	35 SF	$520	SAFET
A1B	WEATH/RAVEL	H	1283 SF	Patching - AC Shallow	1283 SF	$19,237	SAFET
R-1	L & T CR	H	1369 LF	Crack Sealing - AC	1369 LF	$2,053	SAFET
R-1	WEATH/RAVEL	H	4053 SF	Patching - AC Shallow	4053 SF	$60,782	SAFET
R2A	L & T CR	H	24 LF	Crack Sealing - AC	24 LF	$36	SAFET
R2A	DEPRESSION	H	18 SF	Patching - AC Deep	40 SF	$1,446	SAFET
R2A	WEATH/RAVEL	H	720 SF	Patching - AC Shallow	720 SF	$10,800	SAFET
R2B	L & T CR	H	106 LF	Crack Sealing - AC	106 LF	$158	SAFET
R2B	WEATH/RAVEL	H	684 SF	Patching - AC Shallow	684 SF	$10,260	SAFET
T-1	L & T CR	H	7 LF	Crack Sealing - AC	7 LF	$10	SAFET
T-1	WEATH/RAVEL	H	33 SF	Patching - AC Shallow	33 SF	$482	SAFET

FIFTEEN YEAR PROJECTIONS: ESTIMATED AVERAGE ANNUAL COST: $173,882

PLAN YEAR: 2010 ESTIMATED COST: $2,152,767

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A1A	Reconstruct			$64,560		$64,560	32	100
A1B	Reconstruct			$170,946		$170,946	16	100
R-1	Reconstruct			$1,441,007		$1,441,007	28	100
R2A	Reconstruct			$237,181		$237,181	27	100
R2B	Reconstruct			$200,358		$200,358	24	100
T-1	Reconstruct			$38,715		$38,715	32	100

PLAN YEAR: 2012 ESTIMATED COST: $50

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A1A	Basic Prev.	$17				$17	90	90
A1B	Basic Prev.	$33				$33	90	90

PLAN YEAR: 2013 ESTIMATED COST: $3,043

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A1A	Basic Prev.	$184				$184	85	85
A1B	Basic Prev.	$368				$368	85	85
R-1	Basic Prev.	$1,888				$1,888	88	88
R2A	Basic Prev.	$304				$304	88	88
R2B	Basic Prev.	$244				$244	88	88
T-1	Basic Prev.	$55				$55	88	88

PLAN YEAR: 2014 ESTIMATED COST: $6,806

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A1A	Basic Prev.	$334				$334	81	81
A1B	Basic Prev.	$669				$669	81	81
R-1	Basic Prev.	$4,398				$4,398	84	84
R2A	Basic Prev.	$709				$709	84	84
R2B	Basic Prev.	$567				$567	84	84
T-1	Basic Prev.	$128				$128	84	84

PLAN YEAR: 2015 ESTIMATED COST: $146,508

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A1A	Prev. & Fog Seal	$518	$4,500			$5,018	77	85
A1B	Prev. & Fog Seal	$1,035	$9,000			$10,035	77	85
R-1	Prev. & Fog Seal	$6,636	$93,001			$99,636	81	88
R2A	Prev. & Fog Seal	$1,070	$15,000			$16,070	81	88
R2B	Prev. & Fog Seal	$856	$12,000			$12,856	81	88
T-1	Prev. & Fog Seal	$193	$2,700			$2,893	81	88

PLAN YEAR: 2016 ESTIMATED COST: $6,806

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A1A	Basic Prev.	$334				$334	81	81
A1B	Basic Prev.	$669				$669	81	81
R-1	Basic Prev.	$4,398				$4,398	84	84
R2A	Basic Prev.	$709				$709	84	84
R2B	Basic Prev.	$567				$567	84	84
T-1	Basic Prev.	$128				$128	84	84

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PLAN YEAR: 2017 ESTIMATED COST: $10,320

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A1A	Basic Prev.	$518				$518	77	77
A1B	Basic Prev.	$1,036				$1,036	77	77
R-1	Basic Prev.	$6,644				$6,644	81	81
R2A	Basic Prev.	$1,072				$1,072	81	81
R2B	Basic Prev.	$857				$857	81	81
T-1	Basic Prev.	$193				$193	81	81

PLAN YEAR: 2018 ESTIMATED COST: $14,123

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A1A	Basic Prev.	$697				$697	74	74
A1B	Basic Prev.	$1,394				$1,394	74	74
R-1	Basic Prev.	$9,120				$9,120	79	79
R2A	Basic Prev.	$1,471				$1,471	79	79
R2B	Basic Prev.	$1,177				$1,177	79	79
T-1	Basic Prev.	$265				$265	79	79

PLAN YEAR: 2019 ESTIMATED COST: $18,130

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A1A	Basic Prev.	$855				$855	71	71
A1B	Basic Prev.	$1,709				$1,709	71	71
R-1	Basic Prev.	$11,798				$11,798	76	76
R2A	Basic Prev.	$1,903				$1,903	76	76
R2B	Basic Prev.	$1,522				$1,522	76	76
T-1	Basic Prev.	$343				$343	76	76

PLAN YEAR: 2020 ESTIMATED COST: $157,817

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A1A	Prev. & Fog Seal	$962	$4,500			$5,462	69	74
A1B	Prev. & Fog Seal	$1,924	$9,000			$10,924	69	74
R-1	Prev. & Fog Seal	$14,195	$93,001			$107,196	74	79
R2A	Prev. & Fog Seal	$2,290	$15,000			$17,290	74	79
R2B	Prev. & Fog Seal	$1,832	$12,000			$13,832	74	79
T-1	Prev. & Fog Seal	$412	$2,700			$3,112	74	79

PLAN YEAR: 2021 ESTIMATED COST: $18,147

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A1A	Basic Prev.	$855				$855	71	71
A1B	Basic Prev.	$1,709				$1,709	71	71
R-1	Basic Prev.	$11,811				$11,811	76	76
R2A	Basic Prev.	$1,905				$1,905	76	76
R2B	Basic Prev.	$1,524				$1,524	76	76
T-1	Basic Prev.	$343				$343	76	76

PLAN YEAR: 2022 ESTIMATED COST: $21,633

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A1A	Basic Prev.	$962				$962	69	69
A1B	Basic Prev.	$1,924				$1,924	69	69
R-1	Basic Prev.	$14,208				$14,208	74	74
R2A	Basic Prev.	$2,292				$2,292	74	74
R2B	Basic Prev.	$1,833				$1,833	74	74
T-1	Basic Prev.	$413				$413	74	74

PLAN YEAR: 2023 ESTIMATED COST: $24,674

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A1A	Basic Prev.	$1,026				$1,026	67	67
A1B	Basic Prev.	$2,052				$2,052	67	67
R-1	Basic Prev.	$16,368				$16,368	72	72
R2A	Basic Prev.	$2,640				$2,640	72	72
R2B	Basic Prev.	$2,112				$2,112	72	72
T-1	Basic Prev.	$475				$475	72	72

PLAN YEAR: 2024 ESTIMATED COST: $27,415

SectionI	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	PCI before	PCI after
A1A	Basic Prev.	$1,081				$1,081	65	65
A1B	Basic Prev.	$2,162				$2,162	65	65
R-1	Basic Prev.	$18,321				$18,321	71	71
R2A	Basic Prev.	$2,955				$2,955	71	71
R2B	Basic Prev.	$2,364				$2,364	71	71
T-1	Basic Prev.	$532				$532	71	71

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A-1A, overview

A-1A, surface detail with vegetation damage

A-1B, overview with weathering & alligator cracking

A-1B, surface detail with weathering

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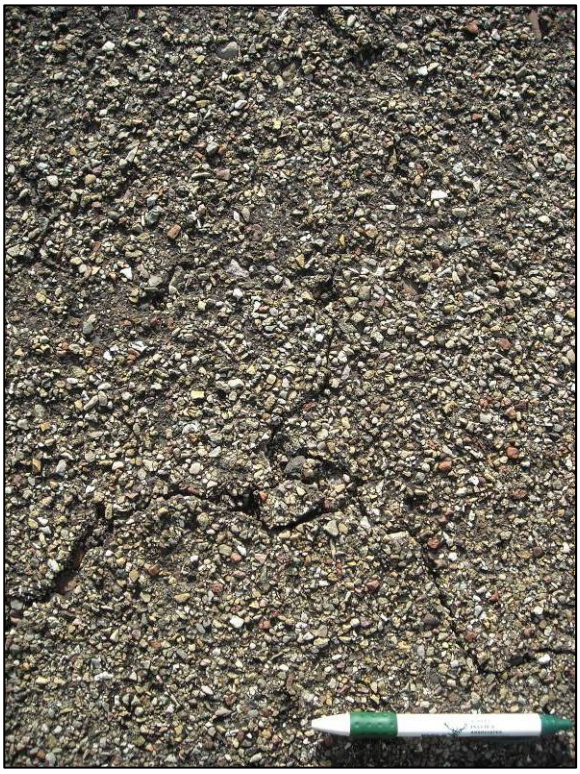
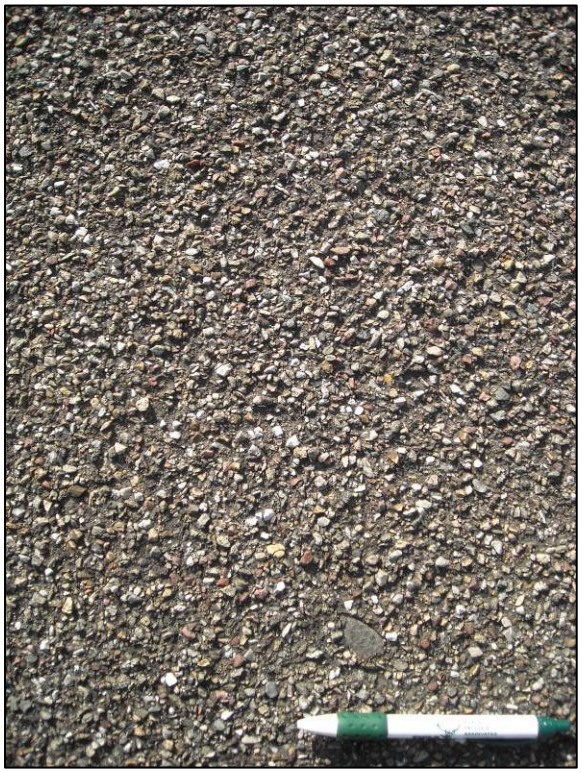
T-1, overview



T-1, surface detail



R-1, surface detail

R-1, overview

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R-2A, overview

R-2A, surface detail

R-2B, surface detail with vegetation damage

R-2B, overview

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A-1A, surface detail with crack

R-1, alligator cracking

R-1, high severity crack

R-2A, surface detail with depression

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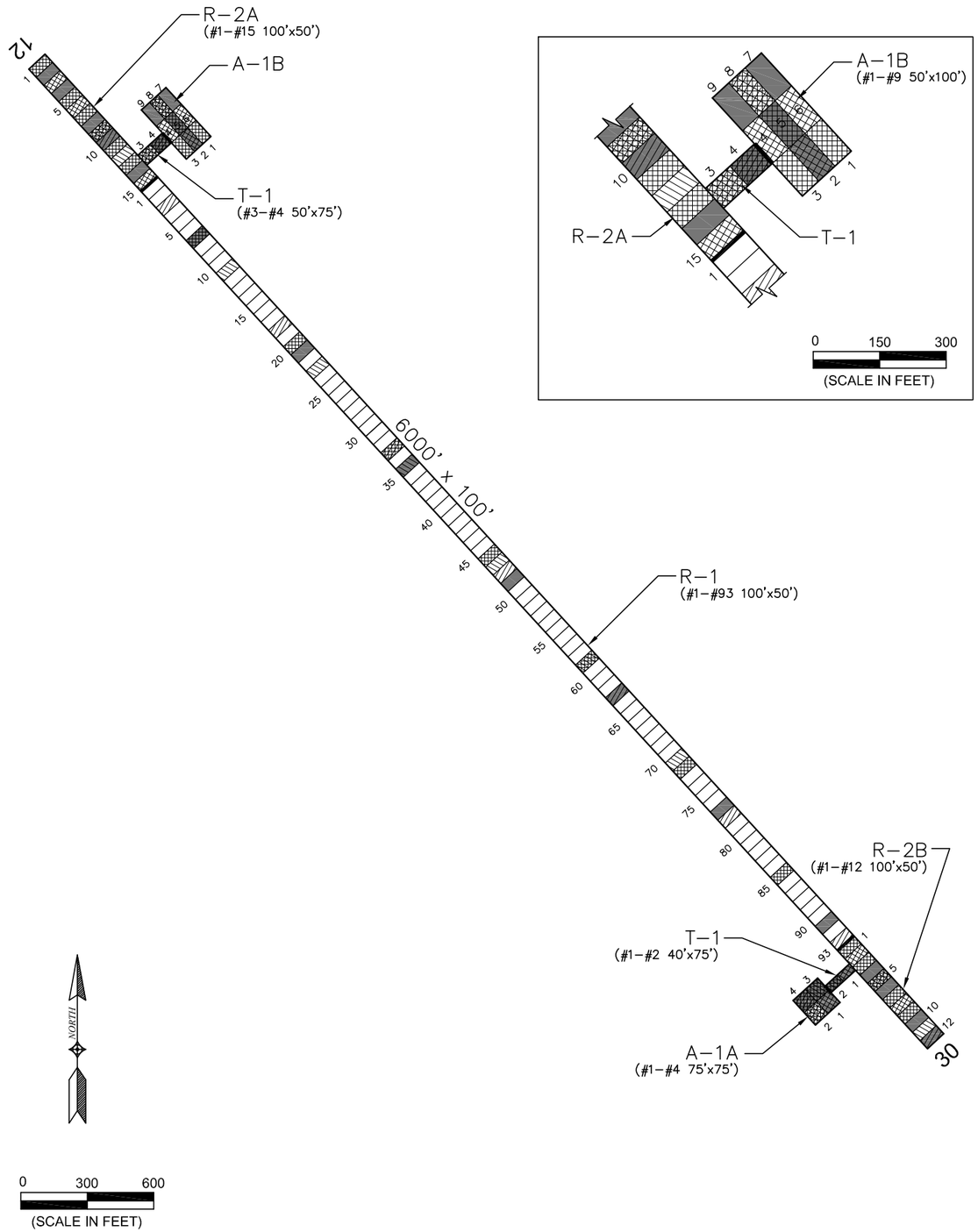

PAVEMENT STRENGTH SURVEY/PAVEMENT CONDITION SURVEY

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–1	FA		5" P–209	2" P–401		45,000	80,000	140,000	
R–2A	E–1	FA		6" P–209	3" P–401		45,000	80,000	140,000	
R–2B	E–1	FA					45,000	80,000	140,000	
TAXIWAYS										
T–1	E–1	FA		6" P–209	3" P–401		45,000	80,000	140,000	
APRONS										
A–1A	E–1	FA		6" P–209	3" P–401		45,000	80,000	140,000	
A–1B	E–1	FA		6" P–209	3" P–401		45,000	80,000	140,000	

REMARKS:

FAAP–01, 1966, ORIGINAL CONSTRUCTION

LEGEND

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

DATE OF PAVEMENT STRENGTH SURVEY:	SEPT. 11, 1968
EVALUATED BY:	W. MOORE
DATE OF MOST RECENT PAVEMENT CONDITION SURVEY:	NOV. 4, 2009
EVALUATED BY:	B. BURKLAND

MONTANA AVIATION SYSTEM PLAN
2009 UPDATE - PAVEMENT CONDITION INDEXES

BENCHMARK AIRPORT

PREPARED FOR: MONTANA AERONAUTICS DIVISION

BENCHMARK MONTANA

DATE: NOV. 2009

PREPARED BY: RPA

BENCHMARK