

WEST YELLOWSTONE AIRPORT

Branch: 10A

APRON

A-1

Length: 800 LF

Width: 250 LF

Area: 195,680 SF

Last Const: 1980

Family: ACAH

From: 5+00A

To: 14+00A

Surface: AC

Inspections

Samples Surveyed: 6

Total Samples: 39

Last Inspection Date: 8/28/2012

PCI: 49

Sample # 2

Area: 5,000 SF

Distress Description	Severity	Quantity
ALLIGATOR CRACKING	L	116 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	281 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	39 LF
LONGITUDINAL/TRANSVERSE CRACKING	H	6 LF
RAVELING	L	150 SF
WEATHERING	L	4,000 SF

Sample # 9

Area: 5,000 SF

Distress Description	Severity	Quantity
BLEEDING	N	50 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	40 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	11 LF
RAVELING	L	150 SF
WEATHERING	L	4,000 SF

Sample # 16

Area: 5,000 SF

Distress Description	Severity	Quantity
ALLIGATOR CRACKING	L	518 SF
BLEEDING	N	46 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	114 LF
RAVELING	L	150 SF
WEATHERING	L	4,000 SF

Sample # 24

Area: 5,000 SF

Distress Description	Severity	Quantity
ALLIGATOR CRACKING	L	598 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	209 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	43 LF
RAVELING	L	150 SF
WEATHERING	L	4,000 SF

Sample # 30

Area: 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	102 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	3 LF
RAVELING	L	150 SF
WEATHERING	L	4,000 SF

Sample # 37

Area: 5,000 SF

Distress Description	Severity	Quantity
ALLIGATOR CRACKING	L	822 SF
ALLIGATOR CRACKING	M	242 SF
BLEEDING	N	54 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	100 LF
RAVELING	L	150 SF
WEATHERING	L	4,000 SF

WEST YELLOWSTONE AIRPORT

Branch: 10A

APRON

A-1

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
ALLIGATOR CRACKING	L	13,398 SF	6.85%	39.35
ALLIGATOR CRACKING	M	1,578 SF	0.81%	27.13
BLEEDING	N	978 SF	0.50%	3.13
LONGITUDINAL/TRANSVERSE CRACKING	L	5,518 LF	2.82%	9.58
LONGITUDINAL/TRANSVERSE CRACKING	M	626 LF	0.32%	6.70
LONGITUDINAL/TRANSVERSE CRACKING	H	39 LF	0.02%	7.50
RAVELING	L	5,870 SF	3.00%	5.08
WEATHERING	L	156,544 SF	80.00%	5.71

* 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

64.0 % Load

33.0 % Climate/Durability

3.0 % Other

WEST YELLOWSTONE AIRPORT

Branch: 10A

APRON

A-2

Length: 500 LF

Width: 250 LF

Area: 125,000 SF

Last Const: 1980

Family: ACAM

From: 13+00A

To: 18+00A

Surface: AC

Inspections

Samples Surveyed: 5

Total Samples: 25

Last Inspection Date: 8/28/2012

PCI: 55

Sample # 2

Area: 5,000 SF

Distress Description	Severity	Quantity
BLEEDING	N	255 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	520 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	7 LF
RAVELING	L	150 SF
WEATHERING	L	4,000 SF

Sample # 6

Area: 5,000 SF

Distress Description	Severity	Quantity
DEPRESSION	M	21 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	403 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	43 LF
LONGITUDINAL/TRANSVERSE CRACKING	H	22 LF
RAVELING	L	150 SF
WEATHERING	L	4,000 SF

Sample # 11

Area: 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	239 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	35 LF
LONGITUDINAL/TRANSVERSE CRACKING	H	8 LF
PATCHING	L	72 SF
RAVELING	L	200 SF
WEATHERING	L	4,000 SF

Sample # 16

Area: 5,000 SF

Distress Description	Severity	Quantity
DEPRESSION	M	10 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	120 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	219 LF
RAVELING	L	150 SF
WEATHERING	L	4,000 SF

Sample # 21

Area: 5,000 SF

Distress Description	Severity	Quantity
BLEEDING	N	300 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	136 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	71 LF
LONGITUDINAL/TRANSVERSE CRACKING	H	18 LF
RAVELING	L	150 SF
WEATHERING	L	4,000 SF

WEST YELLOWSTONE AIRPORT

Branch: 10A

APRON

A-2

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
BLEEDING	N	2,775 SF	2.22%	11.96
DEPRESSION	M	155 SF	0.12%	5.25
LONGITUDINAL/TRANSVERSE CRACKING	L	7,088 LF	5.67%	16.16
LONGITUDINAL/TRANSVERSE CRACKING	M	1,875 LF	1.50%	13.59
LONGITUDINAL/TRANSVERSE CRACKING	H	240 LF	0.19%	10.06
PATCHING	L	360 SF	0.29%	2.10
RAVELING	L	4,000 SF	3.20%	5.27
WEATHERING	L	100,000 SF	80.00%	5.71

* 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

75.0 % Climate/Durability

25.0 % Other

WEST YELLOWSTONE AIRPORT

Branch: 10A APRON **A-3**

Length: 500 LF Width: 250 LF Area: 125,000 SF Last Const: 1980 Family: ACAH
 From: 0+00A To: 5+00A Surface: AC

Inspections

Samples Surveyed: 5 Total Samples: 25 Last Inspection Date: 8/28/2012 **PCI: 62**

Sample # 3 **Area:** 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	211 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	31 LF
PATCHING	M	140 SF
RAVELING	L	150 SF
WEATHERING	L	3,000 SF
WEATHERING	M	2,000 SF

Sample # 8 **Area:** 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	56 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	40 LF
PATCHING	M	34 SF
RAVELING	L	88 SF
WEATHERING	L	3,000 SF
WEATHERING	M	2,000 SF

Sample # 11 **Area:** 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	130 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	57 LF
RAVELING	L	150 SF
WEATHERING	L	2,500 SF
WEATHERING	M	2,500 SF

Sample # 18 **Area:** 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	88 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	47 LF
RAVELING	L	150 SF
RAVELING	M	86 SF
WEATHERING	L	2,400 SF
WEATHERING	M	2,600 SF

Sample # 23 **Area:** 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	122 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	66 LF
PATCHING	M	50 SF
RAVELING	M	150 SF
WEATHERING	L	3,000 SF
WEATHERING	M	2,000 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
WEATHERING	M	55,500 SF	44.40%	14.33
LONGITUDINAL/TRANSVERSE CRACKING	M	1,205 LF	0.96%	11.05
PATCHING	M	948 SF	0.76%	8.72
LONGITUDINAL/TRANSVERSE CRACKING	L	3,035 LF	2.43%	8.55
RAVELING	M	430 SF	0.34%	5.44
WEATHERING	L	69,500 SF	55.60%	5.04
RAVELING	L	3,440 SF	2.75%	4.83
PATCHING	L	170 SF	0.14%	2

* 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

WEST YELLOWSTONE AIRPORT

Branch: 10A

APRON

A-4

Length: 300 LF

Width: 250 LF

Area: 75,000 SF

Last Const: 1980

Family: ACAM

From: 18+00A

To: 21+00A

Surface: AC

Inspections

Samples Surveyed: 5

Total Samples: 15

Last Inspection Date: 8/28/2012

PCI: 65

Sample # 1

Area: 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	40 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	68 LF
LONGITUDINAL/TRANSVERSE CRACKING	H	11 LF
RAVELING	L	50 SF
WEATHERING	M	4,000 SF

Sample # 5

Area: 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	46 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	20 LF
LONGITUDINAL/TRANSVERSE CRACKING	H	16 LF
RAVELING	L	50 SF
WEATHERING	M	3,000 SF

Sample # 6

Area: 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	19 LF
RAVELING	L	50 SF
WEATHERING	M	3,000 SF

Sample # 11

Area: 5,000 SF

Distress Description	Severity	Quantity
ALLIGATOR CRACKING	L	180 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	23 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	42 LF
OIL SPILLAGE	N	2 SF
RAVELING	L	50 SF
WEATHERING	M	4,000 SF

Sample # 12

Area: 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	129 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	42 LF
RAVELING	L	50 SF
WEATHERING	M	4,000 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
ALLIGATOR CRACKING	L	540 SF	0.72%	17.52
LONGITUDINAL/TRANSVERSE CRACKING	L	771 LF	1.03%	5.00
LONGITUDINAL/TRANSVERSE CRACKING	M	516 LF	0.69%	9.54
LONGITUDINAL/TRANSVERSE CRACKING	H	81 LF	0.11%	7.84
OIL SPILLAGE	N	6 SF	0.01%	2.00
RAVELING	L	750 SF	1.00%	2.62
WEATHERING	M	54,000 SF	72.00%	18.08

* 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

28.0 % Load

69.0 % Climate/Durability

3.0 % Other

WEST YELLOWSTONE AIRPORT

Branch: 10A

APRON

A-5

Length: 72 LF

Width: 60 LF

Area: 4,320 SF

Last Const: 1988

Family: PCAA

From: FUELING STATION PAD

To:

Surface: PCC

Inspections

Samples Surveyed: 2

Total Samples: 2

Last Inspection Date: 8/28/2012

PCI: 71

Sample # 1

Distress Description

Severity

Quantity

Area: 15 SLABS

LINEAR CRACKING

L

1 SLABS

JOINT SEAL DAMAGE

L

15 SLABS

SCALING/CRAZING

L

13 SLABS

SHRINKAGE CRACKING

N

9 SLABS

JOINT SPALLING

L

5 SLABS

CORNER SPALLING

L

3 SLABS

Sample # 2

Distress Description

Severity

Quantity

Area: 15 SLABS

LINEAR CRACKING

L

2 SLABS

JOINT SEAL DAMAGE

L

15 SLABS

SCALING/CRAZING

L

11 SLABS

SHRINKAGE CRACKING

N

5 SLABS

JOINT SPALLING

L

7 SLABS

Extrapolated Distress Quantities*

Distress Description

Severity

Quantity

Density

Deduct

LINEAR CRACKING

L

3 SLABS

10.00%

8.48

JOINT SEAL DAMAGE

L

30 SLABS

100.00%

2.00

SCALING/CRAZING

L

24 SLABS

80.00%

5.89

SHRINKAGE CRACKING

N

14 SLABS

46.67%

6.78

JOINT SPALLING

L

12 SLABS

40.00%

9.74

CORNER SPALLING

L

3 SLABS

10.00%

4.03

* 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

5.0 % Climate/Durability

72.0 % Other

WEST YELLOWSTONE AIRPORT

Branch: 10R

RUNWAY

R-1

Length: 6750 LF Width: 150 LF

Area: 1,012,500 SF

Last Const: 2003

Family: ACRH

From: 5+00 / 29+50 / 57+50

To: 26+50 / 54+50 / 78+50

Surface: AAC

Inspections

Samples Surveyed: 7

Total Samples: 201

Last Inspection Date: 8/28/2012

PCI: 82

Sample # 11

Area: 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	223 LF
RAVELING	L	54 SF
WEATHERING	L	4,000 SF

Sample # 40

Area: 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	123 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	15 LF
RAVELING	L	51 SF
WEATHERING	L	4,000 SF

Sample # 69

Area: 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	39 LF
RAVELING	L	50 SF
WEATHERING	L	3,500 SF

Sample # 98

Area: 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	69 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	6 LF
RAVELING	L	50 SF
WEATHERING	L	4,000 SF

Sample # 127

Area: 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	234 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	4 LF
RAVELING	L	50 SF
WEATHERING	L	4,000 SF

Sample # 156

Area: 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	27 LF
RAVELING	L	25 SF
WEATHERING	L	4,000 SF

Sample # 185

Area: 5,000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	102 LF
RAVELING	L	25 SF
WEATHERING	L	4,000 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	L	23,635 LF	2.33%	8.30
LONGITUDINAL/TRANSVERSE CRACKING	M	723 LF	0.07%	4.00
RAVELING	L	8,809 SF	0.87%	2.41
WEATHERING	L	795,536 SF	78.57%	5.68

* 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

WEST YELLOWSTONE AIRPORT

Branch: 10R

RUNWAY

R-2

Length: 1,650 LF Width: 150 LF

Area: 247,500 SF

Last Const: 2003

Family: ACRH

From: 00+00/26+50/54+50/78+50

To: 5+00/29+50/57+50/84+00

Surface: AAC

Inspections

Samples Surveyed: 7

Total Samples: 48

Last Inspection Date: 8/28/2012

PCI: 85

Sample # 3

Distress Description

LONGITUDINAL/TRANSVERSE CRACKING
RAVELING
WEATHERING

Severity

L
L
L

Quantity

101 LF
50 SF
2,500 SF

Area: 5,000 SF

Sample # 11

Distress Description

LONGITUDINAL/TRANSVERSE CRACKING
RAVELING
WEATHERING

Severity

L
L
L

Quantity

78 LF
50 SF
4,000 SF

Area: 5,000 SF

Sample # 17

Distress Description

LONGITUDINAL/TRANSVERSE CRACKING
RAVELING
WEATHERING

Severity

L
L
L

Quantity

131 LF
50 SF
4,000 SF

Area: 5,000 SF

Sample # 24

Distress Description

LONGITUDINAL/TRANSVERSE CRACKING
RAVELING
WEATHERING

Severity

L
L
L

Quantity

60 LF
60 SF
100 SF

Area: 5,000 SF

Sample # 32

Distress Description

LONGITUDINAL/TRANSVERSE CRACKING
RAVELING
WEATHERING

Severity

L
L
L

Quantity

102 LF
50 SF
4,000 SF

Area: 5,000 SF

Sample # 38

Distress Description

LONGITUDINAL/TRANSVERSE CRACKING
RAVELING
WEATHERING

Severity

L
L
L

Quantity

170 LF
25 SF
4,000 SF

Area: 5,000 SF

Sample # 45

Distress Description

LONGITUDINAL/TRANSVERSE CRACKING
RAVELING
WEATHERING

Severity

L
L
L

Quantity

132 LF
25 SF
4,000 SF

Area: 5,000 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	L	5,473 LF	2.21%	7.97
RAVELING	L	2,192 SF	0.89%	2.44
WEATHERING	L	159,814 SF	64.57%	5.34

* 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

WEST YELLOWSTONE AIRPORT

Branch: 10T TAXIWAY

T-1

Length: 0 LF Width: 0 LF Area: 750,000 SF Last Const: 1980 Family: ACRH
 From: 0+00 To: 84+00 Surface: AC

Inspections

Samples Surveyed: 6 Total Samples: 166 Last Inspection Date: 8/28/2012 **PCI: 44**

Sample # 21

Distress Description	Severity	Quantity
ALLIGATOR CRACKING	L	225 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	112 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	142 LF
LONGITUDINAL/TRANSVERSE CRACKING	H	36 LF
RAVELING	L	150 SF
WEATHERING	L	4,000 SF

Area: 4,875 SF

Sample # 49

Distress Description	Severity	Quantity
ALLIGATOR CRACKING	L	300 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	149 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	150 LF
LONGITUDINAL/TRANSVERSE CRACKING	H	18 LF
RAVELING	L	150 SF
WEATHERING	L	4,000 SF

Area: 4,875 SF

Sample # 77

Distress Description	Severity	Quantity
ALLIGATOR CRACKING	L	300 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	248 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	114 LF
LONGITUDINAL/TRANSVERSE CRACKING	H	11 LF
RAVELING	L	150 SF
WEATHERING	L	4,000 SF

Area: 4,875 SF

Sample # 105

Distress Description	Severity	Quantity
ALLIGATOR CRACKING	L	1,430 SF
DEPRESSION	L	1 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	52 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	33 LF
LONGITUDINAL/TRANSVERSE CRACKING	H	31 LF
PATCHING	L	36 SF
RAVELING	L	150 SF
WEATHERING	L	4,000 SF

Area: 4,875 SF

Sample # 133

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	85 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	119 LF
LONGITUDINAL/TRANSVERSE CRACKING	H	17 LF
RAVELING	L	150 SF
WEATHERING	L	4,000 SF

Area: 4,875 SF

Sample # 164

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	241 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	139 LF
RAVELING	L	150 SF
WEATHERING	L	4,000 SF

Area: 4,875 SF

WEST YELLOWSTONE AIRPORT

Branch: 10T

TAXIWAY

T-1

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
ALLIGATOR CRACKING	L	57,821 SF	7.71%	40.56
DEPRESSION	L	26 SF	0.00%	0.30
LONGITUDINAL/TRANSVERSE CRACKING	L	22,744 LF	3.03%	10.13
LONGITUDINAL/TRANSVERSE CRACKING	M	17,872 LF	2.38%	17.22
LONGITUDINAL/TRANSVERSE CRACKING	H	2,897 LF	0.39%	13.02
PATCHING	L	910 SF	0.12%	2.00
RAVELING	L	23,077 SF	3.08%	5.16
WEATHERING	L	615,385 SF	82.05%	5.75

* 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

43.0 % Load

57.0 % Climate/Durability

0.0 % Other

WEST YELLOWSTONE AIRPORT

Branch: 10T TAXIWAY

T-2

Length: 280 LF Width: 25 LF Area: 7,000 SF Last Const: 1993 Family: ACRMU
 From: NE CORNER OF MAIN RAMP To: Surface: AC

Inspections

Samples Surveyed: 2 Total Samples: 2 Last Inspection Date: 8/28/2012 **PCI: 91**

Sample # 1

Distress Description	Severity	Quantity	Area:
LONGITUDINAL/TRANSVERSE CRACKING	L	7 LF	3,488 SF
RAVELING	L	35 SF	
WEATHERING	M	310 SF	

Sample # 2

Distress Description	Severity	Quantity	Area:
RAVELING	L	35 SF	3,488 SF
WEATHERING	M	310 SF	

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	L	7 LF	0.10%	2.50
RAVELING	L	70 SF	1.00%	2.62
WEATHERING	M	623 SF	8.90%	5.01

* 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

WEST YELLOWSTONE AIRPORT

FIRST YEAR LOCAL: 2013

LOCAL REPAIR COST: \$71,158

Section	Distress Description	Severity	Quantity	Work Description	Quantity	Cost	Polciv
A-1	L & T CR	H	39 LF	Crack Sealing - AC	39 LF	\$97.84	SAFETY
A-2	DEPRESSION	M	155 SF	Patching - AC Deep	209 SF	\$8,364.39	PREV.
A-2	L & T CR	H	240 LF	Crack Sealing - AC	240 LF	\$600.00	PREV.
A-2	L & T CR	M	1,875 LF	Crack Sealing - AC	1,875 LF	\$4,687.50	PREV.
A-3	L & T CR	M	1,205 LF	Crack Sealing - AC	1,205 LF	\$3,012.50	PREV.
A-3	PATCHING	M	948 SF	Patching - AC Deep	1,075 SF	\$43,015.72	PREV.
A-4	L & T CR	H	81 LF	Crack Sealing - AC	81 LF	\$202.50	PREV.
A-4	L & T CR	M	516 LF	Crack Sealing - AC	516 LF	\$1,290.00	PREV.
A-4	OIL SPILLAGE	N	6 SF	Patching - AC Shallow	20 SF	\$397.18	PREV.
R-1	L & T CR	M	723 LF	Crack Sealing - AC	723 LF	\$1,808.04	PREV.
T-1	L & T CR	H	2,897 LF	Crack Sealing - AC	2,897 LF	\$7,243.59	SAFETY
T-3	L & T CR	H	175 LF	Crack Sealing - AC	175 LF	\$438.39	SAFETY

FIFTEEN YEAR PROJECTIONS

ESTIMATED AVERAGE ANNUAL COST: \$654,769

Plan Year: 2013		Estimated Cost: \$6,246,509				PCI		
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After
A-1	Major Below Critical	\$0	\$0	\$1,048,258	\$0	\$1,048,258	48	100
A-2	Preventive	\$30,169	\$0	\$0	\$0	\$30,169	54	54
A-3	Global MR + Preventive	\$16,725	\$31,250	\$0	\$0	\$47,975	62	63
A-4	Major Above Critical	\$0	\$0	\$0	\$219,412	\$219,412	64	100
A-5	Preventive	\$221	\$0	\$0	\$0	\$221	70	70
R-1	Global MR + Preventive	\$9,660	\$253,127	\$0	\$0	\$262,788	80	86
R-2	Global MR + Preventive	\$1,676	\$61,876	\$0	\$0	\$63,552	83	90
T-1	Major Below Critical	\$0	\$0	\$4,572,376	\$0	\$4,572,376	43	100
T-2	Global MR + Preventive	\$7	\$1,750	\$0	\$0	\$1,757	89	96

Plan Year: 2014		Estimated Cost: \$59,095				PCI		
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After
A-2	Preventive	\$34,474	\$0	\$0	\$0	\$34,474	52	52
A-3	Preventive	\$16,338	\$0	\$0	\$0	\$16,338	62	62
A-5	Preventive	\$304	\$0	\$0	\$0	\$304	68	68
R-1	Preventive	\$7,063	\$0	\$0	\$0	\$7,063	83	83
R-2	Preventive	\$917	\$0	\$0	\$0	\$917	86	87

Plan Year: 2015		Estimated Cost: \$69,056				PCI		
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After
A-2	Preventive	\$39,127	\$0	\$0	\$0	\$39,127	50	50
A-3	Preventive	\$17,704	\$0	\$0	\$0	\$17,704	62	62
A-5	Preventive	\$385	\$0	\$0	\$0	\$385	67	67
R-1	Preventive	\$10,099	\$0	\$0	\$0	\$10,099	81	81
R-2	Preventive	\$1,734	\$0	\$0	\$0	\$1,734	83	83
T-2	Preventive	\$6	\$0	\$0	\$0	\$6	89	89

Plan Year: 2016		Estimated Cost: \$758,885				PCI		
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After
A-1	Preventive	\$882	\$0	\$0	\$0	\$882	86	86
A-2	Major Below Critical	\$0	\$0	\$714,918	\$0	\$714,918	48	100
A-3	Preventive	\$18,946	\$0	\$0	\$0	\$18,946	61	61
A-4	Preventive	\$173	\$0	\$0	\$0	\$173	88	88
A-5	Preventive	\$464	\$0	\$0	\$0	\$464	65	65
R-1	Preventive	\$18,717	\$0	\$0	\$0	\$18,717	78	78
R-2	Preventive	\$2,503	\$0	\$0	\$0	\$2,503	81	81
T-1	Preventive	\$2,254	\$0	\$0	\$0	\$2,254	87	87
T-2	Preventive	\$29	\$0	\$0	\$0	\$29	86	86

Plan Year: 2017		Estimated Cost: \$60,986				PCI		
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After
A-1	Preventive	\$1,729	\$0	\$0	\$0	\$1,729	82	82
A-3	Preventive	\$20,077	\$0	\$0	\$0	\$20,077	61	61
A-4	Preventive	\$454	\$0	\$0	\$0	\$454	85	85
A-5	Preventive	\$541	\$0	\$0	\$0	\$541	64	64
R-1	Preventive	\$28,617	\$0	\$0	\$0	\$28,617	76	76
R-2	Preventive	\$4,568	\$0	\$0	\$0	\$4,568	78	78
T-1	Preventive	\$4,948	\$0	\$0	\$0	\$4,948	84	84
T-2	Preventive	\$52	\$0	\$0	\$0	\$52	83	84

WEST YELLOWSTONE AIRPORT

Plan Year: 2018		Estimated Cost: \$481,939					PCI		
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After	
A-1	Preventive	\$3,338	\$0	\$0	\$0	\$3,338	79	79	
A-3	Global MR + Preventive	\$21,085	\$36,228	\$0	\$0	\$57,313	60	61	
A-4	Preventive	\$731	\$0	\$0	\$0	\$731	82	82	
A-5	Preventive	\$618	\$0	\$0	\$0	\$618	63	63	
R-1	Global MR + Preventive	\$38,123	\$293,444	\$0	\$0	\$331,566	74	78	
R-2	Global MR + Preventive	\$7,069	\$71,731	\$0	\$0	\$78,800	76	81	
T-1	Preventive	\$7,472	\$0	\$0	\$0	\$7,472	81	81	
T-2	Global MR + Preventive	\$74	\$2,029	\$0	\$0	\$2,102	81	87	

Plan Year: 2019		Estimated Cost: \$76,997					PCI		
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After	
A-1	Preventive	\$6,223	\$0	\$0	\$0	\$6,223	76	76	
A-2	Preventive	\$313	\$0	\$0	\$0	\$313	88	88	
A-3	Preventive	\$21,270	\$0	\$0	\$0	\$21,270	61	61	
A-4	Preventive	\$1,339	\$0	\$0	\$0	\$1,339	79	79	
A-5	Preventive	\$693	\$0	\$0	\$0	\$693	62	62	
R-1	Preventive	\$29,832	\$0	\$0	\$0	\$29,832	76	76	
R-2	Preventive	\$4,703	\$0	\$0	\$0	\$4,703	79	79	
T-1	Preventive	\$12,571	\$0	\$0	\$0	\$12,571	79	79	
T-2	Preventive	\$53	\$0	\$0	\$0	\$53	84	84	

Plan Year: 2020		Estimated Cost: \$103,518					PCI		
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After	
A-1	Preventive	\$8,961	\$0	\$0	\$0	\$8,961	73	73	
A-2	Preventive	\$827	\$0	\$0	\$0	\$827	85	85	
A-3	Preventive	\$22,353	\$0	\$0	\$0	\$22,353	60	60	
A-4	Preventive	\$2,357	\$0	\$0	\$0	\$2,357	76	76	
A-5	Preventive	\$769	\$0	\$0	\$0	\$769	61	61	
R-1	Preventive	\$39,947	\$0	\$0	\$0	\$39,947	74	75	
R-2	Preventive	\$7,378	\$0	\$0	\$0	\$7,378	76	77	
T-1	Preventive	\$20,849	\$0	\$0	\$0	\$20,849	77	77	
T-2	Preventive	\$76	\$0	\$0	\$0	\$76	81	81	

Plan Year: 2021		Estimated Cost: \$128,859					PCI		
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After	
A-1	Preventive	\$11,531	\$0	\$0	\$0	\$11,531	71	71	
A-2	Preventive	\$1,331	\$0	\$0	\$0	\$1,331	82	82	
A-3	Preventive	\$23,356	\$0	\$0	\$0	\$23,356	60	60	
A-4	Preventive	\$3,363	\$0	\$0	\$0	\$3,363	74	74	
A-5	Preventive	\$855	\$0	\$0	\$0	\$855	60	60	
R-1	Preventive	\$49,665	\$0	\$0	\$0	\$49,665	73	73	
R-2	Preventive	\$9,932	\$0	\$0	\$0	\$9,932	75	75	
T-1	Preventive	\$28,695	\$0	\$0	\$0	\$28,695	75	75	
T-2	Preventive	\$130	\$0	\$0	\$0	\$130	79	79	

Plan Year: 2022		Estimated Cost: \$155,654					PCI		
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After	
A-1	Preventive	\$15,726	\$0	\$0	\$0	\$15,726	69	69	
A-2	Preventive	\$2,440	\$0	\$0	\$0	\$2,440	79	79	
A-3	Preventive	\$24,286	\$0	\$0	\$0	\$24,286	60	60	
A-4	Preventive	\$4,365	\$0	\$0	\$0	\$4,365	71	71	
A-5	Preventive	\$957	\$0	\$0	\$0	\$957	59	59	
R-1	Preventive	\$59,071	\$0	\$0	\$0	\$59,071	71	71	
R-2	Preventive	\$12,388	\$0	\$0	\$0	\$12,388	73	73	
T-1	Preventive	\$36,211	\$0	\$0	\$0	\$36,211	73	73	
T-2	Preventive	\$212	\$0	\$0	\$0	\$212	77	77	

Plan Year: 2023		Estimated Cost: \$652,301					PCI		
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After	
A-1	Preventive	\$20,801	\$0	\$0	\$0	\$20,801	67	67	
A-2	Preventive	\$4,286	\$0	\$0	\$0	\$4,286	76	76	
A-3	Global MR + Preventive	\$25,181	\$41,998	\$0	\$0	\$67,179	60	60	
A-4	Preventive	\$5,866	\$0	\$0	\$0	\$5,866	69	69	
A-5	Preventive	\$1,058	\$0	\$0	\$0	\$1,058	58	58	
R-1	Global MR + Preventive	\$68,858	\$340,182	\$0	\$0	\$409,040	70	73	
R-2	Global MR + Preventive	\$14,768	\$83,156	\$0	\$0	\$97,923	71	75	
T-1	Preventive	\$43,505	\$0	\$0	\$0	\$43,505	72	72	
T-2	Global MR + Preventive	\$292	\$2,352	\$0	\$0	\$2,644	75	79	

WEST YELLOWSTONE AIRPORT

Plan Year: 2024		Estimated Cost: \$192,817				PCI		
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After
A-1	Preventive	\$25,489	\$0	\$0	\$0	\$25,489	66	66
A-2	Preventive	\$6,125	\$0	\$0	\$0	\$6,125	74	74
A-3	Preventive	\$25,747	\$0	\$0	\$0	\$25,747	60	60
A-4	Preventive	\$8,170	\$0	\$0	\$0	\$8,170	67	67
A-5	Preventive	\$1,161	\$0	\$0	\$0	\$1,161	57	57
R-1	Preventive	\$62,226	\$0	\$0	\$0	\$62,226	71	71
R-2	Preventive	\$13,018	\$0	\$0	\$0	\$13,018	73	73
T-1	Preventive	\$50,665	\$0	\$0	\$0	\$50,665	70	70
T-2	Preventive	\$217	\$0	\$0	\$0	\$217	77	77

Plan Year: 2025		Estimated Cost: \$228,250				PCI		
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After
A-1	Preventive	\$29,768	\$0	\$0	\$0	\$29,768	64	64
A-2	Preventive	\$7,949	\$0	\$0	\$0	\$7,949	71	71
A-3	Preventive	\$26,697	\$0	\$0	\$0	\$26,697	60	60
A-4	Preventive	\$10,501	\$0	\$0	\$0	\$10,501	65	65
A-5	Preventive	\$1,263	\$0	\$0	\$0	\$1,263	56	56
R-1	Preventive	\$72,059	\$0	\$0	\$0	\$72,059	70	70
R-2	Preventive	\$15,556	\$0	\$0	\$0	\$15,556	71	72
T-1	Preventive	\$64,156	\$0	\$0	\$0	\$64,156	69	69
T-2	Preventive	\$302	\$0	\$0	\$0	\$302	75	75

Plan Year: 2026		Estimated Cost: \$277,096				PCI		
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After
A-1	Preventive	\$33,678	\$0	\$0	\$0	\$33,678	63	63
A-2	Preventive	\$10,683	\$0	\$0	\$0	\$10,683	69	69
A-3	Preventive	\$27,701	\$0	\$0	\$0	\$27,701	60	60
A-4	Preventive	\$12,864	\$0	\$0	\$0	\$12,864	63	63
A-5	Preventive	\$1,366	\$0	\$0	\$0	\$1,366	56	56
R-1	Preventive	\$93,076	\$0	\$0	\$0	\$93,076	69	69
R-2	Preventive	\$18,042	\$0	\$0	\$0	\$18,042	70	70
T-1	Preventive	\$79,301	\$0	\$0	\$0	\$79,301	68	68
T-2	Preventive	\$387	\$0	\$0	\$0	\$387	73	73

Plan Year: 2027		Estimated Cost: \$329,579				PCI		
Section	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	Before	After
A-1	Preventive	\$37,235	\$0	\$0	\$0	\$37,235	62	62
A-2	Preventive	\$14,880	\$0	\$0	\$0	\$14,880	67	67
A-3	Preventive	\$28,730	\$0	\$0	\$0	\$28,730	60	60
A-4	Preventive	\$15,293	\$0	\$0	\$0	\$15,293	62	62
A-5	Preventive	\$1,468	\$0	\$0	\$0	\$1,468	55	55
R-1	Preventive	\$113,938	\$0	\$0	\$0	\$113,938	68	68
R-2	Preventive	\$23,174	\$0	\$0	\$0	\$23,174	69	69
T-1	Preventive	\$94,390	\$0	\$0	\$0	\$94,390	67	67
T-2	Preventive	\$471	\$0	\$0	\$0	\$471	71	71

WEST YELLOWSTONE AIRPORT

8/28/2012



A-1, Overview



A-1, Surface detail with crack



A-1, Surface detail with cracking



A-1, Surface detail with raveling

WEST YELLOWSTONE AIRPORT

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A-1, Surface detail with raveling 2



A-2, Overview



A-2, Surface detail with cracking



A-2, Surface detail with depression

WEST YELLOWSTONE AIRPORT

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A-2, Surface detail with raveling



A-3, Surface detail patching



A-3, Surface detail with raveling



A-5, Surface detail with corner spalling

WEST YELLOWSTONE AIRPORT

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A-5, Surface detail with crack



A-5, Surface detail with scaling



A-5, Surface detail with spalling



R-1, Overview

WEST YELLOWSTONE AIRPORT

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R-1, Surface detail with crack 2



R-1, Surface detail with cracking



R-1, Surface detail with raveling



R-1, Surface detail with raveling 2

WEST YELLOWSTONE AIRPORT

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R-2, North overview



R-2, South overview



R-2, Surface detail with crack



T-1, Overview

WEST YELLOWSTONE AIRPORT

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T-1, Surface detail with crack

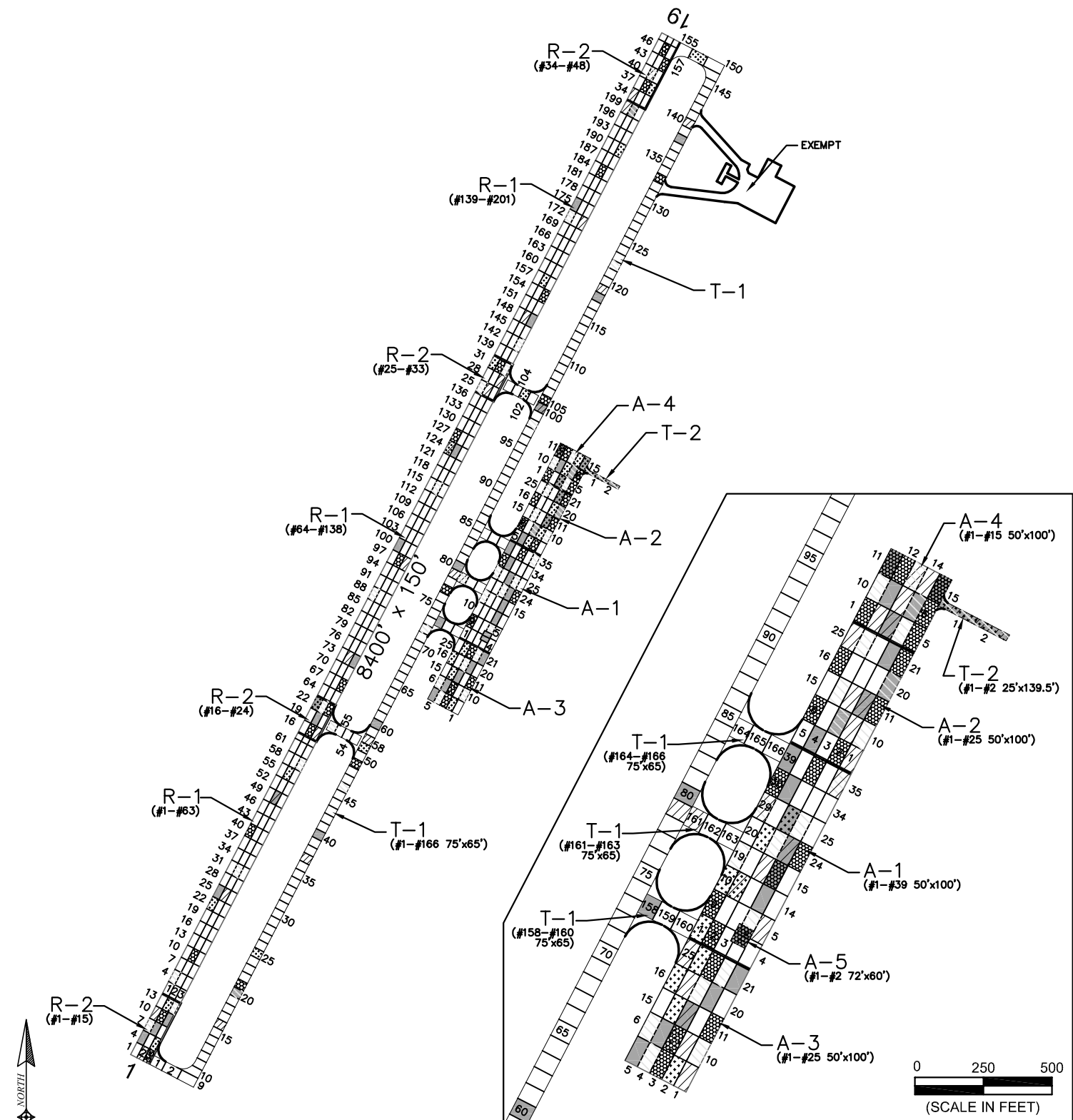


T-1, Surface detail with depression

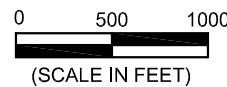


T-1, Surface detail with patch and crack

WEST YELLOWSTONE



RUNWAY SAMPLE SIZE:
R-1, R-2 = 100'x50'



PAVEMENT STRENGTH SURVEY/PAVEMENT CONDITION SURVEY

PAVE. IDENT.	SOIL CLASS	SUB GRADE CLASS	SUBBASE COURSE	BASE COURSE	SURFACE COURSE	OVERLAY	PAVEMENT STRENGTH			REMARKS
							MAX. GROSS LOAD (LBS)			
							SINGLE	DUAL	DUAL TAN.	
RUNWAYS										
R-1	E-1	FA		7" P-201	2.5" P-401	3" P-401	105,000	190,000	360,000	◁
R-2	E-1	FA		8" P-201	3" P-401	3" P-401	90,000	150,000	280,000	◁
TAXIWAYS										
T-1	E-1	FA		8" P-201	3" P-401		90,000	150,000	280,000	
T-2			P-152	4" P-208	3" P-401		12,500			◁
APRONS										
A-1	E-1	FA		8" P-201	3" P-401		90,000	150,000	280,000	
A-2	E-1	FA			1.5"		30,000			◁
A-3	E-1	FA		7" P-201	4" P-401		90,000	150,000	280,000	◁
A-4			6" P-152	6" P-208	P-609	2" P-402				◁
A-5			32"		16" P-501					

REMARKS:

- PRESENT CRITICAL AIRCRAFT IS 100,000 LBS. (737) ON DUAL GEAR (9/69)
- ◁ ESTIMATED SINGLE WHEEL LOADING
- ◁ AIP-003, 1991, CONSTRUCT ACCESS TAXIWAY (T-2); REHABILITATE APRON (A-4).
- ◁ AIP-005, 2003, OVERLAY AND GROOVE RUNWAY 1-19 (R-1,R-2).

LEGEND

- 1997 SURVEY AREA
- 2000 SURVEY AREA
- 2003 SURVEY AREA (NOT SURVEYED)
- 2006 SURVEY AREA
- 2009 SURVEY AREA
- 2012 SURVEY AREA

DATE OF PAVEMENT STRENGTH SURVEY:	
EVALUATED BY:	
DATE OF MOST RECENT PAVEMENT CONDITION SURVEY:	AUG. 28, 2012
EVALUATED BY:	S. BROWN

**MONTANA AVIATION SYSTEM PLAN
2012 UPDATE - PAVEMENT CONDITION INDEXES**

WEST YELLOWSTONE AIRPORT

PREPARED FOR: 	WEST YELLOWSTONE MONTANA DATE: DEC. 2012	PREPARED BY:
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