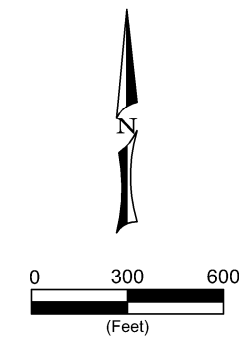
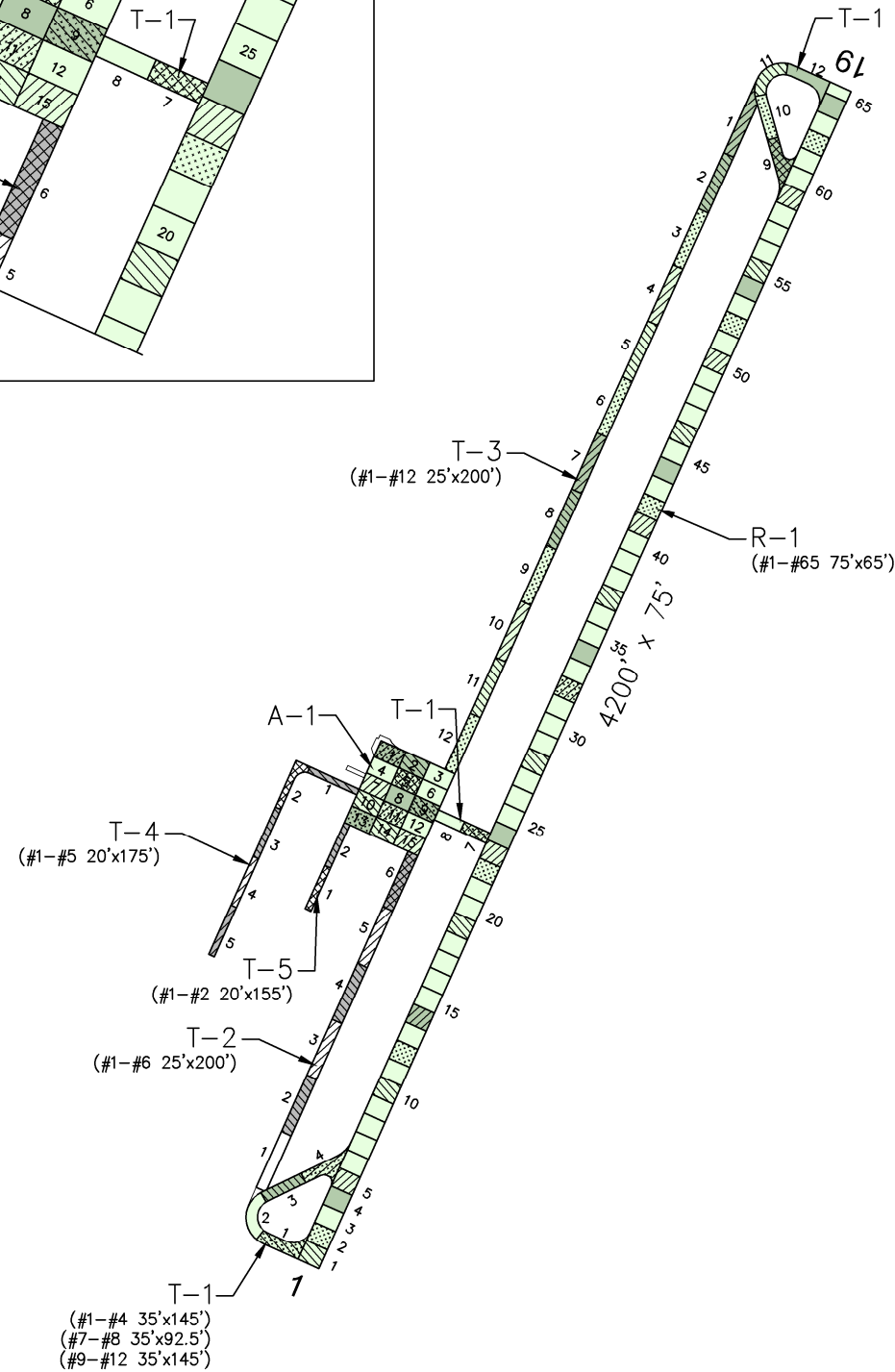
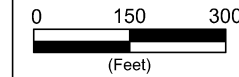
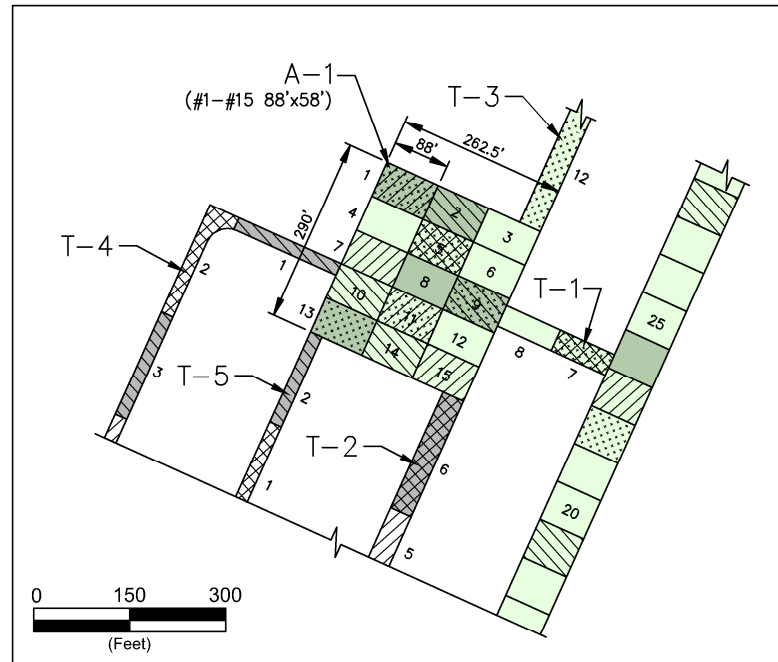


# EUREKA



## 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.	
<b>RUNWAYS</b>										
R-1	CBR=22		6" P-152	4" P-208	3" P-401	3"P-401,P-608	12,500			1,3,4,5
<b>TAXIWAYS</b>										
T-1			6" P-152	4" P-208	3" P-401	3"P-401,P-608	12,500			1,3,4,5
T-2			6" P-152	4" P-208	3" P-401	P-608	12,500			2,3,5
T-3	CBR=20			6" P-208	3" P-401	3"P-401,P-608	12,500			3,4,5
T-4	CBR=20			6" P-208	3" P-401	P-608	12,500			3,5
T-5			6" P-152	4" P-208	3" P-401	P-608	12,500			1,3,5
<b>APRONS</b>										
A-1			6" P-152	4" P-208	3" P-401	3"P-401,P-608	12,500			1,3,4,5

### REMARKS:

1. AIP-03, 1991, ALL NEW CONSTRUCTION
2. OWNER CONSTRUCTED
3. AIP-004, 2002, CONSTRUCT TAXIWAYS (T-3,T-4); CRACK SEAL, FOG SEAL, AND REMARK REMAINING PAVEMENTS.
4. AIP-011/012-2010, OVERLAY RUNWAY (R-1), TAXIWAYS (T-1,T-3) AND APRON (A-1).
5. AIP-013-2014, CRACK SEAL, SEAL COAT, AND REMARK ALL PAVEMENTS.

### LEGEND

- 2003 SURVEY AREA
- 2006 SURVEY AREA
- 2009 SURVEY AREA
- 2012 SURVEY AREA
- 2015 SURVEY AREA

- MAINTAIN: PCI > 60
- TRANSITION: PCI 45 TO 60
- RECONSTRUCT: PCI < 45

DATE OF PAVEMENT STRENGTH SURVEY:

EVALUATED BY:

DATE OF MOST RECENT PAVEMENT CONDITION SURVEY:

EVALUATED BY:

LOCATION:

SEPT. 22, 2015

D. SCHANDEL

EUREKA MONTANA

**MONTANA AVIATION SYSTEM PLAN  
2015 UPDATE - PAVEMENT CONDITION INDEXES**

**EUREKA AIRPORT  
(88M)**

Date: DECEMBER 2015

Prepared For:

MONTANA  
**MDT**  
DEPARTMENT OF TRANSPORTATION

Prepared By:

**RPA**  
Robert Peccia & Associates, Inc.

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# EUREKA AIRPORT

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9/22/2015



**A-1**, Surface detail with tie down



**A-1**, Overview



**R-1**, Overview



**R-1**, Surface detail with core hole

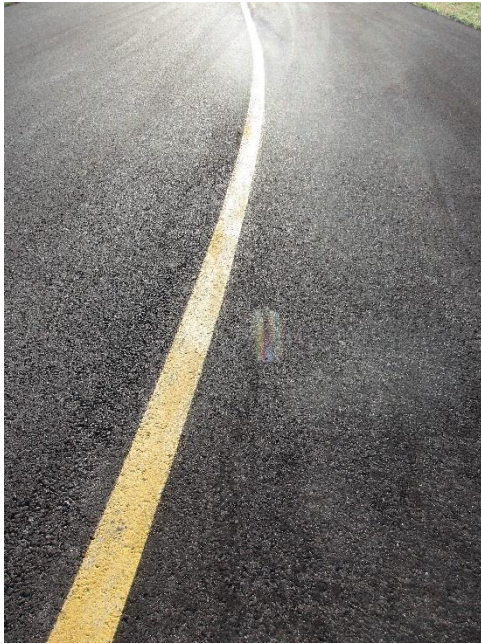


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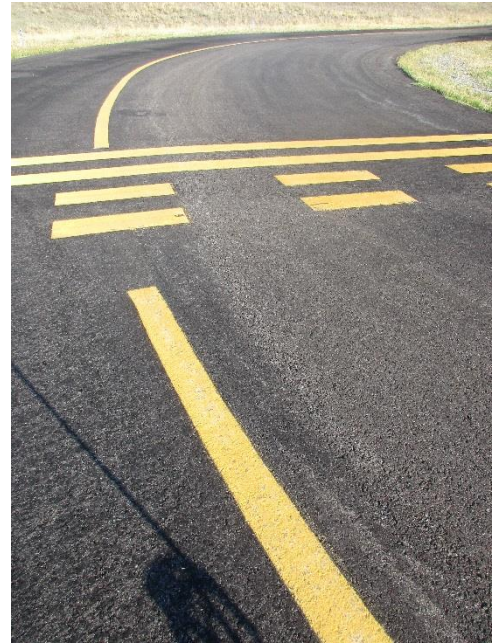
# EUREKA AIRPORT

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9/22/2015



**T-1, Overview**



**T-1, Striping overview**



**T-3, Overview**



**T-3, Surface detail with minor bleeding**

# EUREKA AIRPORT

Branch: 54A

APRON

**A-1**

**Length:** 290 LF **Width:** 263 LF **Area:** 76,125 SF **Last Const. :** 2010 **Family:** ACAM15  
**From:** ENTIRE APRON **To:** **Surface:** AAC

**Inspections**

**Samples Surveyed:** 5 **Total Samples:** 15 **Last Inspection Date (RPA)** 9/22/2015 **PCI:** 77

**Sample # 1** **Area:** 5104 SF

Distress Description	Severity	Quantity
WEATHERING	L	26 SF
RAVELING	L	26 SF
LONGITUDINAL/TRANSVERSE CRACKING	L	3 LF
RAVELING	H	4 SF
PATCHING	L	2 SF
DEPRESSION	H	1 SF

**Sample # 5** **Area:** 5104 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	36 LF
WEATHERING	L	26 SF
RAVELING	L	26 SF
DEPRESSION	H	8 SF
PATCHING	L	8 SF
RAVELING	H	3 SF

**Sample # 9** **Area:** 5104 SF

Distress Description	Severity	Quantity
WEATHERING	L	26 SF
RAVELING	L	26 SF
RAVELING	H	3 SF
PATCHING	L	1 SF

**Sample # 11** **Area:** 5104 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	59 LF
RAVELING	L	26 SF
WEATHERING	L	26 SF
PATCHING	L	9 SF
DEPRESSION	H	8 SF

**Sample # 13** **Area:** 5104 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	73 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	21 LF
WEATHERING	L	26 SF
RAVELING	L	26 SF
RAVELING	H	25 SF
SWELLING	L	3 SF
PATCHING	L	2 SF
DEPRESSION	H	1 SF

**Extrapolated Distress Quantities\***

Distress Description	Severity	Quantity	Density	Deduct
DEPRESSION	H	54 SF	0.07 %	12.00
RAVELING	H	104 SF	0.14 %	7.19
LONGITUDINAL/TRANSVERSE CRACKING	L	510 LF	0.67 %	4.33
LONGITUDINAL/TRANSVERSE CRACKING	M	63 LF	0.08 %	4.00
PATCHING	L	66 SF	0.09 %	2.00
RAVELING	L	388 SF	0.51 %	1.79
SWELLING	L	9 SF	0.01 %	1.00
WEATHERING	L	388 SF	0.51 %	0.32

\* 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 60.0 % Climate/Durability 40.0 % Other







**EUREKA AIRPORT**

Branch: 54T

**TAXIWAY**

**T-3**

**Length:** 2,400 LF    **Width:** 25 LF    **Area:** 60,000 SF    **Last Const. :** 2010    **Family:** ACRML15  
**From:** A-1    **To:** T-1    **Surface:** AAC

**Inspections**

**Samples Surveyed:** 4    **Total Samples:** 12    **Last Inspection Date (RPA)** 9/22/2015    **PCI:** 79

**Sample # 3**    **Area:** 5000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	24 LF
RAVELING	H	29 SF
RAVELING	L	25 SF
WEATHERING	L	25 SF
BLEEDING	N	18 SF

**Sample # 6**    **Area:** 5000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	32 LF
BLEEDING	N	54 SF
WEATHERING	L	25 SF
RAVELING	L	25 SF
RAVELING	H	23 SF

**Sample # 9**    **Area:** 5000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	147 LF
RAVELING	L	25 SF
WEATHERING	L	25 SF
RAVELING	H	16 SF

**Sample # 12**    **Area:** 5000 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	45 LF
LONGITUDINAL/TRANSVERSE CRACKING	M	26 LF
WEATHERING	L	25 SF
RAVELING	L	25 SF
RAVELING	H	22 SF
PATCHING	L	1 SF

**Extrapolated Distress Quantities\***

Distress Description	Severity	Quantity	Density	Deduct
RAVELING	H	270 SF	0.45 %	10.37
LONGITUDINAL/TRANSVERSE CRACKING	L	744 LF	1.24 %	5.48
LONGITUDINAL/TRANSVERSE CRACKING	M	78 LF	0.13 %	4.12
BLEEDING	N	216 SF	0.36 %	2.47
PATCHING	L	3 SF	0.01 %	2.00
RAVELING	L	300 SF	0.50 %	1.77
WEATHERING	L	300 SF	0.50 %	0.32

\* 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                      91.0 % Climate/Durability                      9.0 % Other

**EUREKA AIRPORT****FIFTEEN YEAR PROJECTIONS: ESTIMATED AVERAGE ANNUAL COST: \$173,691**

PLAN YEAR: 2016			ESTIMATED COST:			\$26,396	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
A-1	Prev. & Seal Coat	\$2,314	\$21,315			\$23,629	75	81
T-1	Basic Prev.	\$203				\$203	86	87
T-3	Basic Prev.	\$1,162				\$1,162	78	78
R-1	Basic Prev.	\$1,402				\$1,402	86	86
PLAN YEAR: 2017			ESTIMATED COST:			\$5,659	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-3	Basic Prev.	\$1,550				\$1,550	76	76
T-1	Basic Prev.	\$365				\$365	84	84
R-1	Basic Prev.	\$2,267				\$2,267	83	83
A-1	Basic Prev.	\$1,477				\$1,477	78	78
PLAN YEAR: 2018			ESTIMATED COST:			\$7,854	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-1	Basic Prev.	\$512				\$512	81	82
A-1	Basic Prev.	\$2,354				\$2,354	75	75
T-3	Basic Prev.	\$1,933				\$1,933	75	75
R-1	Basic Prev.	\$3,055				\$3,055	81	81
PLAN YEAR: 2019			ESTIMATED COST:			\$11,085	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
A-1	Basic Prev.	\$3,227				\$3,227	73	73
T-1	Basic Prev.	\$731				\$731	80	80
T-3	Basic Prev.	\$2,321				\$2,321	74	74
R-1	Basic Prev.	\$4,806				\$4,806	79	79
PLAN YEAR: 2020			ESTIMATED COST:			\$962,711	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-1	Prev. & Thin AC	\$1,179	\$124,442			\$125,621	78	91
A-1	Basic Prev.	\$4,109				\$4,109	71	71
R-1	Prev. & Thin AC	\$7,217	\$691,343			\$698,560	77	90
T-3	Prev. & Thin AC	\$2,737	\$131,684			\$134,421	72	80
PLAN YEAR: 2021			ESTIMATED COST:			\$33,276	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-1	Basic Prev.	\$173				\$173	87	88
T-3	Basic Prev.	\$1,199				\$1,199	78	78
A-1	Prev. & Seal Coat	\$5,895	\$24,710			\$30,605	68	73
R-1	Basic Prev.	\$1,299				\$1,299	86	87
PLAN YEAR: 2022			ESTIMATED COST:			\$8,638	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Basic Prev.	\$2,345				\$2,345	84	84
T-1	Basic Prev.	\$370				\$370	85	85
A-1	Basic Prev.	\$4,258				\$4,258	71	71
T-3	Basic Prev.	\$1,665				\$1,665	77	77
PLAN YEAR: 2023			ESTIMATED COST:			\$11,959	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-3	Basic Prev.	\$2,113				\$2,113	75	75
T-1	Basic Prev.	\$547				\$547	82	82
R-1	Basic Prev.	\$3,297				\$3,297	81	82
A-1	Basic Prev.	\$6,002				\$6,002	69	69
PLAN YEAR: 2024			ESTIMATED COST:			\$16,225	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Basic Prev.	\$4,708				\$4,708	80	80
T-3	Basic Prev.	\$2,563				\$2,563	74	74
T-1	Basic Prev.	\$709				\$709	80	80
A-1	Basic Prev.	\$8,245				\$8,245	66	67
PLAN YEAR: 2025			ESTIMATED COST:			\$22,417	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-1	Basic Prev.	\$1,219				\$1,219	78	78
T-3	Basic Prev.	\$3,034				\$3,034	73	73
R-1	Basic Prev.	\$7,576				\$7,576	78	78
A-1	Basic Prev.	\$10,588				\$10,588	64	64



PLAN YEAR: 2026		ESTIMATED COST:				\$57,258	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-1	Basic Prev.	\$10,277				\$10,277	76	77
A-1	Prev. & Seal Coat	\$13,065	\$28,646			\$41,711	62	67
T-3	Basic Prev.	\$3,551				\$3,551	71	72
T-1	Basic Prev.	\$1,719				\$1,719	77	77
PLAN YEAR: 2027		ESTIMATED COST:				\$30,192	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
A-1	Basic Prev.	\$10,949				\$10,949	65	65
T-1	Basic Prev.	\$2,197				\$2,197	76	76
R-1	Basic Prev.	\$12,906				\$12,906	75	75
T-3	Basic Prev.	\$4,140				\$4,140	70	70
PLAN YEAR: 2028		ESTIMATED COST:				\$37,475	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
A-1	Basic Prev.	\$13,567				\$13,567	62	63
T-1	Basic Prev.	\$2,677				\$2,677	74	74
T-3	Basic Prev.	\$5,655				\$5,655	68	69
R-1	Basic Prev.	\$15,576				\$15,576	74	74
PLAN YEAR: 2029		ESTIMATED COST:				\$45,433	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-3	Basic Prev.	\$7,507				\$7,507	66	67
A-1	Basic Prev.	\$16,377				\$16,377	60	60
T-1	Basic Prev.	\$3,177				\$3,177	73	73
R-1	Basic Prev.	\$18,372				\$18,372	73	73
PLAN YEAR: 2030		ESTIMATED COST:				\$1,328,786	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-1	Prev. & Thin AC	\$3,722	\$167,239			\$170,961	72	79
A-1	Basic Prev.	\$20,502				\$20,502	58	58
T-3	Prev. & Thin AC	\$9,765	\$176,973			\$186,738	64	73
R-1	Prev. & Thin AC	\$21,477	\$929,107			\$950,585	71	79