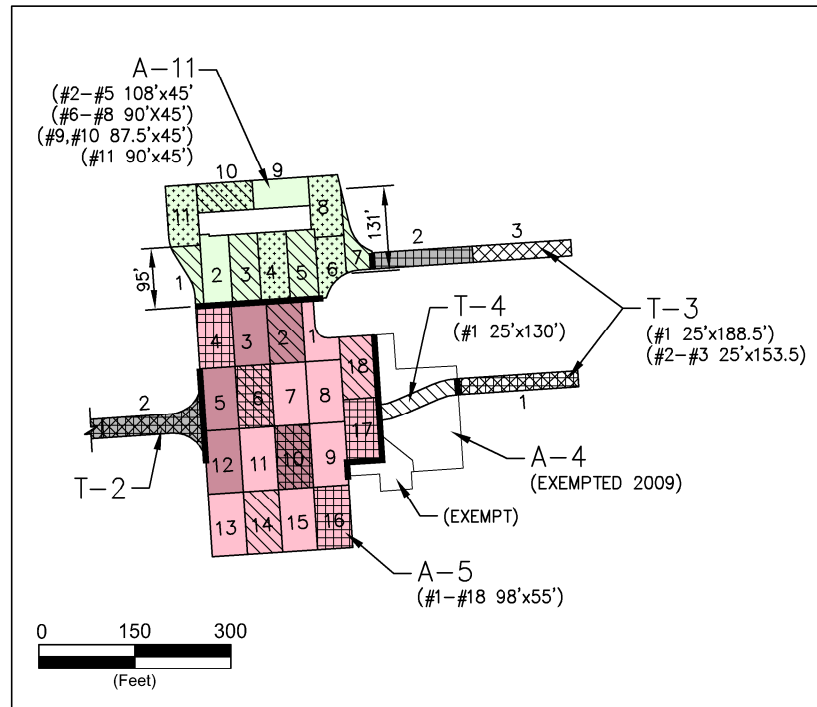
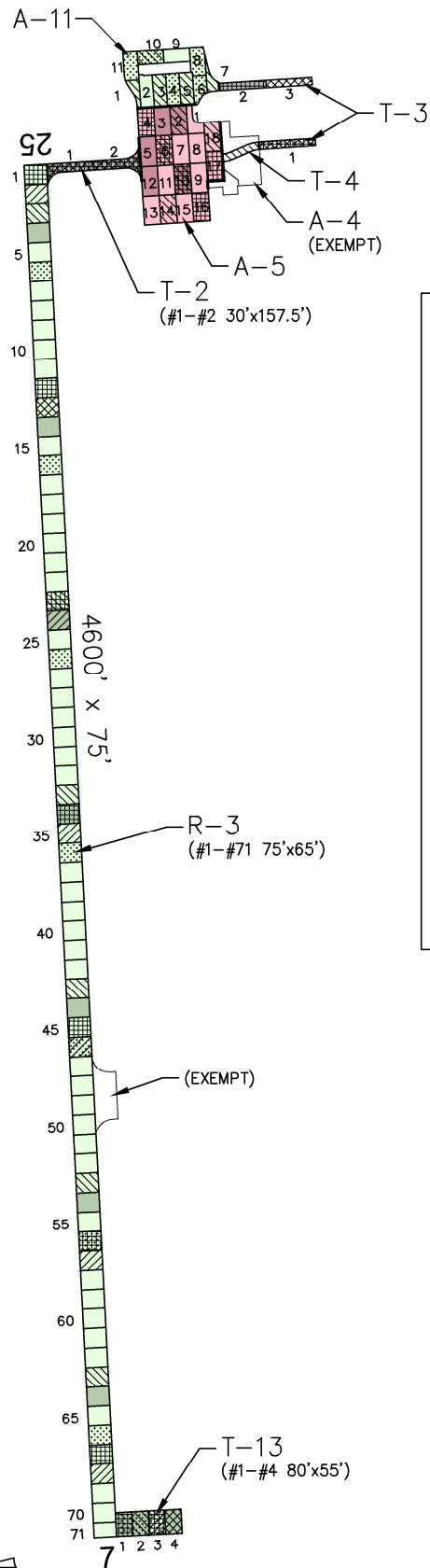


CHESTER



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-3	E-6	F6	6" COMP. P-152	3"P-208, 10"P-207	3" P-401	2"P-401,P-608	12,500			2,3,4,5
TAXIWAYS										
T-2	E-6	F6	6" COMP. P-152	3"P-208, 10"P-207	3" P-401	2"P-401,P-608	12,500			2,3,4,5
T-3	E-6	F6	6" COMP. P-152	12" P-207	3" P-401	P-608	12,500			2,3,5
T-4	E-6	F6	6" COMP. P-152	12" P-207	3" P-401	P-608	12,500			4,5
T-13	E-6	F6	6" COMP. P-152	12" P-207	3" P-401	2"P-401,P-608	12,500			4,5
APRONS										
A-4	E-6	F6			UNKNOWN	1" P-402	4,000			1
A-5	E-6	F6	6" COMP. P-152	3"P-208, 8"P-207	3" P-401	P-609,P-608	12,500			2,3,4,5
A-11	E-6	F6	6" COMP. P-152	12" P-208	3" P-401	P-608	12,500			4,5

REMARKS:

- AIP-01, 1985, RUNWAY EXTENDED 1400 LF; ALL SURFACES RECEIVED 1" P-402 OVERLAY.
- AIP-02, 1997, REHABILITATE RUNWAY 7/25, TAXIWAY, AND APRON; CONSTRUCT HANGAR ACCESS TAXIWAYS AND TURNAROUND EXTENSION; INSTALL EDGE DRAIN NORTH SIDE OF RUNWAY.
- AIP-003-2005, CRACK SEAL, FOG SEAL, AND REMARK PAVEMENTS.
- AIP-005-2010, 2" OVERLAY RUNWAY (R-3), TAXIWAYS (T-2,T-13); RECONSTRUCT APRON (A-11); CRACK SEAL, FOG SEAL, AND REMARK REMAINING PAVEMENTS.
- AIP-006-2015, CRACK SEAL, SEAL COAT, AND REMARK PAVEMENTS [INSPECTED AFTER MAINTENANCE PROJFECT].

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:	SEPT. 22, 1987
EVALUATED BY:	C. NEW
DATE OF MOST RECENT PAVEMENT CONDITION SURVEY:	SEPT. 19, 2015
EVALUATED BY:	B. BURKLAND
LOCATION:	CHESTER MONTANA

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

**LIBERTY COUNTY AIRPORT
(LTY)**

Date: DECEMBER 2015 Prepared For: MONTANA DEPARTMENT OF TRANSPORTATION Prepared By: RPA Robert Peccia & Associates, Inc.

CHESTER

CHESTER AIRPORT

9/19/2015



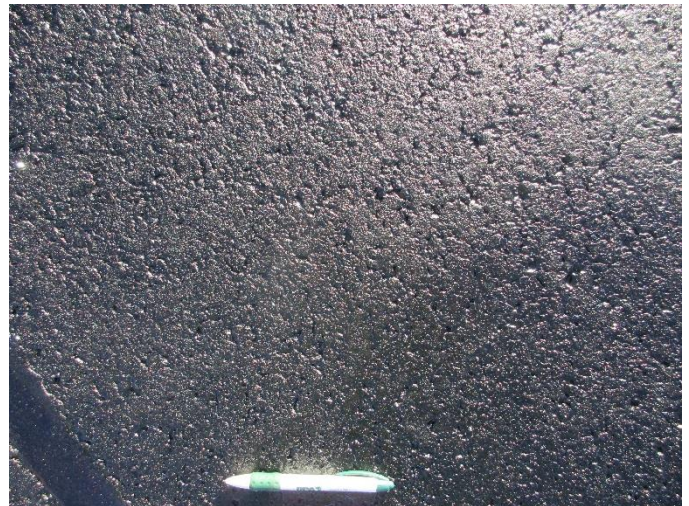
A-11, Surface detail with depression



A-11, Overview



T-13, Overview



T-13, Surface detail

CHESTER AIRPORT

9/19/2015



R-3, Overview



R-3, Surface detail

CHESTER AIRPORT

Branch: 15A

APRON

A-11

Length: 315 LF **Width:** 180 LF **Area:** 42,706 SF **Last Const. :** 2010 **Family:** ACAM15
From: A-5 **To:** T-3 **Surface:** AC

Inspections

Samples Surveyed: 5 **Total Samples:** 11 **Last Inspection Date (RPA)** 9/29/2015 **PCI:** 90

Sample # 4 **Distress Description** **Severity** **Quantity** **Area:** 4950 SF

LONGITUDINAL/TRANSVERSE CRACKING L 81 LF
RAVELING L 74 SF
PATCHING L 1 SF

Sample # 6 **Distress Description** **Severity** **Quantity** **Area:** 3800 SF

LONGITUDINAL/TRANSVERSE CRACKING L 60 LF
RAVELING L 57 SF

Sample # 8 **Distress Description** **Severity** **Quantity** **Area:** 3800 SF

RAVELING L 81 SF
RAVELING M 2 SF

Sample # 10 **Distress Description** **Severity** **Quantity** **Area:** 4524 SF

RAVELING L 67 SF

Sample # 11 **Distress Description** **Severity** **Quantity** **Area:** 4050 SF

DEPRESSION L 92 SF
RAVELING L 41 SF
LONGITUDINAL/TRANSVERSE CRACKING L 9 LF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	L	303 LF	0.71 %	4.40
RAVELING	M	4 SF	0.01 %	4.00
RAVELING	L	647 SF	1.51 %	3.37
DEPRESSION	L	186 SF	0.44 %	2.78
PATCHING	L	2 SF	0.00 %	2.00

* 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

83.0 % Climate/Durability

17.0 % Other

CHESTER AIRPORT

Branch: 15R

RUNWAY

R-3

Length: 4,600 LF **Width:** 75 LF **Area:** 345,000 SF **Last Const. :** 1997 **Family:** ACRML15
From: T-2 **To:** T-3 **Surface:** AC

Inspections

Samples Surveyed: 7 **Total Samples:** 71 **Last Inspection Date (RPA)** 9/19/2015 **PCI:** **85**

Sample # 6	Distress Description LONGITUDINAL/TRANSVERSE CRACKING RAVELING	Severity L L	Quantity 197 LF 98 SF	Area: 4875 SF
Sample # 16	Distress Description LONGITUDINAL/TRANSVERSE CRACKING RAVELING	Severity L L	Quantity 191 LF 98 SF	Area: 4875 SF
Sample # 26	Distress Description LONGITUDINAL/TRANSVERSE CRACKING RAVELING	Severity L L	Quantity 164 LF 98 SF	Area: 4875 SF
Sample # 36	Distress Description LONGITUDINAL/TRANSVERSE CRACKING RAVELING	Severity L L	Quantity 176 LF 98 SF	Area: 4875 SF
Sample # 46	Distress Description LONGITUDINAL/TRANSVERSE CRACKING RAVELING	Severity L L	Quantity 161 LF 98 SF	Area: 4875 SF
Sample # 56	Distress Description LONGITUDINAL/TRANSVERSE CRACKING RAVELING	Severity L L	Quantity 103 LF 98 SF	Area: 4875 SF
Sample # 66	Distress Description LONGITUDINAL/TRANSVERSE CRACKING RAVELING RAVELING	Severity L L M	Quantity 83 LF 98 SF 1 SF	Area: 4875 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	L	10868 LF	3.15 %	10.43
RAVELING	M	10 SF	0.00 %	4.00
RAVELING	L	6935 SF	2.01 %	4.00

* 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**

CHESTER AIRPORT

Branch: 15T

TAXIWAY

T-13

Length: 320 LF **Width:** 55 LF **Area:** 17,600 SF **Last Const. :** 1997 **Family:** ACRML15
From: R-3 **To:** End **Surface:** AC

Inspections

Samples Surveyed: 3 **Total Samples:** 4 **Last Inspection Date (RPA)** 9/29/2015 **PCI:** **86**

Sample # 1 **Area:** 4400 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	53 LF
RAVELING	L	44 SF
PATCHING	L	1 SF

Sample # 2 **Area:** 4400 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	140 LF
RAVELING	L	44 SF
PATCHING	L	2 SF
RAVELING	M	1 SF

Sample # 3 **Area:** 4400 SF

Distress Description	Severity	Quantity
LONGITUDINAL/TRANSVERSE CRACKING	L	122 LF
RAVELING	L	44 SF
PATCHING	L	2 SF

Extrapolated Distress Quantities*

Distress Description	Severity	Quantity	Density	Deduct
LONGITUDINAL/TRANSVERSE CRACKING	L	420 LF	2.39 %	8.44
RAVELING	M	1 SF	0.01 %	4.00
RAVELING	L	176 SF	1.00 %	2.62
PATCHING	L	7 SF	0.04 %	2.00

* 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**

CHESTER AIRPORT**FIFTEEN YEAR PROJECTIONS: ESTIMATED AVERAGE ANNUAL COST: \$38,612**

PLAN YEAR: 2016			ESTIMATED COST:			\$116,163	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-13	Prev. & Seal Coat	\$108	\$4,928			\$5,036	84	90
R-3	Prev. & Seal Coat	\$2,446	\$96,600			\$99,046	83	89
A-11	Prev. & Seal Coat	\$123	\$11,958			\$12,081	87	95
PLAN YEAR: 2017			ESTIMATED COST:			\$1,555	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-13	Basic Prev.	\$56				\$56	87	87
R-3	Basic Prev.	\$1,499				\$1,499	86	86
PLAN YEAR: 2018			ESTIMATED COST:			\$2,720	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
A-11	Basic Prev.	\$122				\$122	87	88
T-13	Basic Prev.	\$109				\$109	84	84
R-3	Basic Prev.	\$2,489				\$2,489	83	83
PLAN YEAR: 2019			ESTIMATED COST:			\$3,825	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-3	Basic Prev.	\$3,387				\$3,387	81	81
A-11	Basic Prev.	\$281				\$281	84	84
T-13	Basic Prev.	\$157				\$157	82	82
PLAN YEAR: 2020			ESTIMATED COST:			\$5,865	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-13	Basic Prev.	\$210				\$210	80	80
R-3	Basic Prev.	\$5,220				\$5,220	79	79
A-11	Basic Prev.	\$435				\$435	81	81
PLAN YEAR: 2021			ESTIMATED COST:			\$140,734	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-13	Prev. & Seal Coat	\$356	\$5,713			\$6,069	78	82
R-3	Prev. & Seal Coat	\$7,951	\$111,986			\$119,938	78	81
A-11	Prev. & Seal Coat	\$865	\$13,862			\$14,727	78	85
PLAN YEAR: 2022			ESTIMATED COST:			\$5,811	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
A-11	Basic Prev.	\$444				\$444	81	81
T-13	Basic Prev.	\$208				\$208	80	80
R-3	Basic Prev.	\$5,159				\$5,159	79	79
PLAN YEAR: 2023			ESTIMATED COST:			\$9,302	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-3	Basic Prev.	\$8,093				\$8,093	78	78
T-13	Basic Prev.	\$360				\$360	78	78
A-11	Basic Prev.	\$849				\$849	78	79
PLAN YEAR: 2024			ESTIMATED COST:			\$12,822	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-13	Basic Prev.	\$506				\$506	77	77
A-11	Basic Prev.	\$1,443				\$1,443	76	76
R-3	Basic Prev.	\$10,873				\$10,873	76	76
PLAN YEAR: 2025			ESTIMATED COST:			\$16,254	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-3	Basic Prev.	\$13,575				\$13,575	75	75
A-11	Basic Prev.	\$2,033				\$2,033	73	74
T-13	Basic Prev.	\$646				\$646	75	76
PLAN YEAR: 2026			ESTIMATED COST:			\$172,249	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
A-11	Prev. & Seal Coat	\$2,626	\$16,070			\$18,696	71	76
T-13	Prev. & Seal Coat	\$786	\$6,623			\$7,409	74	77
R-3	Prev. & Seal Coat	\$16,321	\$129,823			\$146,144	74	77
PLAN YEAR: 2027			ESTIMATED COST:			\$16,834	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-13	Basic Prev.	\$668				\$668	76	76
A-11	Basic Prev.	\$2,088				\$2,088	74	74
R-3	Basic Prev.	\$14,078				\$14,078	75	75

PLAN YEAR: 2028			ESTIMATED COST:			\$20,537	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-13	Basic Prev.	\$817				\$817	74	74
A-11	Basic Prev.	\$2,720				\$2,720	71	71
R-3	Basic Prev.	\$17,000				\$17,000	74	74
PLAN YEAR: 2029			ESTIMATED COST:			\$24,721	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
R-3	Basic Prev.	\$20,061				\$20,061	73	73
A-11	Basic Prev.	\$3,688				\$3,688	69	69
T-13	Basic Prev.	\$972				\$972	73	73
PLAN YEAR: 2030			ESTIMATED COST:			\$29,786	PCI	
SectionID	Maintenance	Local	Global	Major<Crit	Major>Crit	Total	before	after
T-13	Basic Prev.	\$1,139				\$1,139	72	72
A-11	Basic Prev.	\$5,187				\$5,187	67	67
R-3	Basic Prev.	\$23,460				\$23,460	71	71