

## **PAVEMENT STRENGTH SURVEY/PAVEMENT CONDITION SURVEY**

		SUB					PAVE	MENT ST	RENGTH	
AVE. Dent.	SOIL CLASS	GRADE	SUBBASE COURSE	BASE COURSE	SURFACE COURSE	OVERLAY	MAX. G	ROSS LC	DAD (LBS)	REMARKS
		CLASS					SINGLE	DUAL	DUAL TAN.	
					RUNWAYS	5			-	•
R-21	E-7			14"P-207/208	3" P-401	P-609	12,500			2,3
22	E-7	CBR=1.9	18" P-154	14"P-207/208	3"P-401	P-609	12,500			2,3
									_	
									_	
					TAXIWAYS	 6				
T-6	E-7	CBR=1.9	8" P-154	4" P-208	3" P-401	2" P-401	12,500			1,4
T-7		CBR=2	18" P-154	4"P-209	3"P-401		12,500			4
-17				4"P-209	3"P-401		12,500			4
ſ <u>–</u> 21	E-7			6"P-207/208	3"P-401	P-609	12,500			2,3
-22	E-7	CBR=1.9	FABRIC,18" P-154	6"P-207/208	3"P-401	P-609	12,500		_	2,3
					APRONS					
-21	E-7	CBR=1.9	18" P-154	6"P-207/208	3" P-401	P-609	12,500			2,3
-22	E-7	CBR=1.9	GEOGRID, FABRIC 18" P-154	4" P-208	6"P-501		12,500			
MARKS:										
	P-001-198	34, EXPAND	) APRON.							
				RLAY; DRAINAGE						
AIF	-003-19	89, UVERLA	AT RUNWAT	11—29, TAXIWAY,	, AND APRON;	DRAINAGE IMPR	OVEMENTS.			
1. AIF	P-004-19	94–95 EXT	END RUNWA	( 5-23; CONSTR	RUCT TAXIWAY	T-6; EXPAND A	APRON.			
				NSTRUCT APRON	I (A-22); CRA	CK SEAL, FOG S	SEAL, AND	REMARK	T-6; PULVER	RIZE AND
			NG PAVEMEN	IS. SEAL, AND REMA	PK PUNWAYS	(R_21 R_22) T	AYIWAYS (T	-21 T-22		N (A-21)
				VERLAY TAXIWA						
				ACE SEAL, AND						
			1							
GEND			DATE OF PAVE						SYSTEM P	
_	SURVEY ARE		STRENGTH SUF	(VEY:		2018 UPD/	ATE - PAVE	MENT CO	NDITION IN	DEXES
_	SURVEY ARE		EVALUATED BY	*			SHELB	Y AIRI	PORT	
2012	SURVEY ARE			-			(	(SBX)		
2015	SURVEY ARE		DATE OF MOS							

SHELBY MONTANA

LOCATION:

TRANSITION: PCI 45 TO 60

RECONSTRUCT: PCI < 45

MONTANA AVIATION SYSTEM PLAN 2018 UPDATE - PAVEMENT CONDITION INDEXES							
	SHELBY A (SBX						
Date: Pr	repared For:	F	Prepared By:				
DECEMBER 2018	DEPARTMENT OF TR	ANSPORTATION	<b>KLJ</b>				

# Shelby Airport

Inspection Photos October 17, 2018





A-21, Tie Down Patch





A-22, Overview

A-21, Overview



R-21, Overview

A-22, Joint Spall



R-21, Sealed Crack and Depression





R-22, Overview



T-6, Overview









T-21, Overview



T-21, Sealed Crack and Depression

	BY AIR		Branch:	14A	APRON		A-21
Length: From:	697 LF T-22	Width: 143 LF Area: 97,273 S To: TERMINAL	SF Las	t Const: 2003		Family: Surface:	ACAN AC
10111.	1-22	Inspections				Surface.	
Samples S	Surveyed:	5 Total Samples: 20	Last Inspecti	on Date: 10/17	7/2018	PCI:	79
-	-		Lust Inspects	JII Dutter 10/1			
Sample #	1	Distress Description WEATHERING	Severity L	Quantity 5005 SF	Area:	5,005	SF
		DEPRESSION	L	161 SF			
		LONGITUDINAL/TRANSVERSE CRACKING	М	1 LF			
		LONGITUDINAL/TRANSVERSE CRACKING	L	77 LF			
ample #	5				Area:	5,005	SF
	-	Distress Description	Severity	Quantity		-,	
		RAVELING	Н	36 SF			
		DEPRESSION	L	4.5 SF			
		LONGITUDINAL/TRANSVERSE CRACKING	L	35 LF			
		WEATHERING	L	5005 SF			
ample #	9				Area:	5,724	SF
umpie "	,	Distress Description	Severity	Quantity	111 cui	3,7211	01
		LONGITUDINAL/TRANSVERSE CRACKING	M	4 LF			
		LONGITUDINAL/TRANSVERSE CRACKING	L	222 LF			
		WEATHERING	L	5724 SF			
		PATCHING	L	0.2 SF			
ample #	15				Area:	4,702	SF
umpre "	10	Distress Description	Severity	Quantity		.,	
		PATCHING	М	2.64 SF			
		PATCHING	L	14.4 SF			
		WEATHERING	L	4702.5 SF			
		DEPRESSION	L	24 SF			
ample #	20				Area:	4,702	SF
		Distress Description	Severity	Quantity		.,	
		WEATHERING	L	4702.5 SF			
		LONGITUDINAL/TRANSVERSE CRACKING	L	114 LF			
		Extrapolated Distress	Quantities*				
		Distress Description	Severity	Quantity	Density		Deduc
		DEPRESSION	LOW	733 SF	0.75%		5.1
		LONGITUDINAL/TRANSVERSE CRACKING	LOW	1,733 LF	1.78%		6.8
		LONGITUDINAL/TRANSVERSE CRACKING	MEDIUM	19 LF	0.02%		4.0
		PATCHING	LOW	56 SF	0.06%		2.0
		PATCHING	MEDIUM	10 SF	0.01%		6.2
		RAVELING	HIGH	139 SF	0.14%		7.3
		WEATHERING	LOW	97,273 SF	100.00%		5.9
Multiple of	leduct values are	scaled down from their algebraic sum to keep the model consis	stent with experim	ental data.			
		Percent of Deduct Values Based o					

2018 Update

SHEL	LBY AI	RPORT				Branch:	14A	APRON		A-22
Length:	265	105 Width:	105 LF	Area:	22,193 SF	Las	t Const: 200	)3	Family:	PCAA
From:	A-21			To:	TERMINAL				Surface:	PCC
					Inspections					
Samples S	Surveyed:		4 Tota	l Samples:	6	Last Inspectio	on Date: 10	)/17/2018	PCI:	71
Sample #	1							Area:	27	SLABS
		Distress Desc	ription			Severity	Quantit	У		
		LINEAR CRA	ACKING			L	2 SL	ABS		
		JOINT SEAL				М	27 SL			
		JOINT SPAL				L	16 SL			
		JOINT SPAL	LING			М	4 SL	LABS		
ample #	2							Area:	27	SLABS
		Distress Desc	ription			Severity	Quantit	У		
		LINEAR CRA	ACKING			L	3 SL	ABS		
		JOINT SEAL	DAMAGE			Μ	27 SL	ABS		
		LARGE PAT	СН			L	1 SL	ABS		
		JOINT SPAL	LING			М	1 SL	ABS		
		JOINT SPAL	LING			L	17 SL	ABS		
		CORNER SP.	ALLING			L	2 SL	ABS		
ample #	4							Area:	24	SLABS
•		Distress Desc	ription			Severity	Quantit	V		
		JOINT SEAL	DAMAGE			М	24 SL	ABS		
		JOINT SPAL	LING			М	2 SL	ABS		
		JOINT SPAL	LING			L	10 SL	ABS		
		CORNER SP.	ALLING			L	3 SL	ABS		
		CORNER SP.	ALLING			М	1 SL	ABS		
ample #	5							Area:	24	SLABS
<b></b>		Distress Desc	ription			Severity	Quantit			
		JOINT SEAL	-			М	24 SL	•		
		LARGE PAT	СН			L	1 SL	ABS		
		JOINT SPAL	LING			М	1 SL	ABS		
		JOINT SPAL	LING			L	14 SL	ABS		
		CORNER SP.	ALLING			L	5 SL	ABS		
				Extrapol	ated Distress Q	uantities*				
		Distress Desc	ription	P	v	Severity	Quantit	y Densi	ity	Deduc
		LINEAR CRA	ACKING			LOW	7 FA	LSE 4.90	)%	4.73
		JOINT SEAL	DAMAGE			MEDIUM	150 FA	LSE 100.00	)%	7.00
		LARGE PAT	СН			LOW	3 FA	LSE 1.96	5%	1.40
		JOINT SPAL	LING			LOW	84 FA	LSE 55.88	3%	11.7
		JOINT SPAL	LING			MEDIUM	12 FA			5.8
		CORNER SP.	ALLING			LOW	15 FA	LSE 9.80	)%	3.9
		CORNER SP.				MEDIUM	1 FA	LSE 0.98	3%	0.87
Multiple of	deduct values	are scaled down from th	-	-		-				
					alues Based on					
		1200	Lood		20.0.0/	Climate/Duna	1. 11:4		(7.0	0/ Other

13.0 % Load

20.0 % Climate/Durability

67.0 % Other

	BY AIRPO		76 1 5		0.05	Branch:	14R1	RUNWAY	F '1	<b>R-2</b>
Length: From:	5,000 LF 12+00 R/W 5-23	Width:	75 LF	Area: 375,000 To: 62+00 R/V		Last	t Const: 2004	4	Family: Surface:	ACRM A
				Inspectio						
Samples S	Surveyed:	7	Total	Samples: 77	Last	Inspectio	on Date: 10/	17/2018	PCI:	6
Sample #	6							Area:	4,875	SF
		Distress Des	-		S	everity	Quantity			
		WEATHERI				L	4875 SF			
		DEPRESSIO				L	200.5 SF			
		RAVELING	NAL/IRANSV	ERSE CRACKING		L H	227 LF 3.02 SF			
			NAL/TRANSV	ERSE CRACKING		п М	13 LF			
Sample #	18							Area:	4,875	SF
		Distress Des	-		S	everity	Quantity			
				ERSE CRACKING		L	155 LF			
		DEPRESSIO				L	292.5 SF			
		WEATHERI				L	4875 SF			
		LONGITUDI	NAL/IRANSV	ERSE CRACKING		М	1 LF			
Sample #	30							Area:	4,875	SF
-		Distress Des	cription		S	everity	Quantity			
		DEPRESSIO	N			Н	50 SF			
		DEPRESSIO	N			L	294 SF			
		DEPRESSIO	N			Μ	99 SF			
		WEATHERI	NG			L	4875 SF			
				ERSE CRACKING		Μ	3 LF			
		LONGITUDI	NAL/TRANSV	ERSE CRACKING		L	154 LF			
Sample #	42							Area:	4,875	SF
-		Distress Des	cription		S	everity	Quantity			
		LONGITUDI	NAL/TRANSV	ERSE CRACKING		L	186 LF			
		WEATHERI	NG			L	4875 SF			
				ERSE CRACKING		Μ	63 LF			
		DEPRESSIO				L	75 SF			
		DEPRESSIO	N			М	40 SF			
Sample #	54							Area:	4,875	SF
		Distress Des			S	everity	Quantity			
		WEATHERI				L	4875 SF			
				ERSE CRACKING		М	42 LF			
				ERSE CRACKING		L	197 LF			
				ERSE CRACKING		Н	2 LF			
		DEPRESSIO	IN			L	40 SF			
Sample #	66							Area:	4,875	SF
		Distress Des			S	everity	Quantity			
		LONGITUDI	NAL/TRANSV	ERSE CRACKING		L	283 LF			
				ERSE CRACKING		Н	2 LF			
				ERSE CRACKING		Μ	45 LF			
		WEATHERI	NG			L	4875 SF			
Sample #	76							Area:	4,875	SF
•		Distress Des	cription		S	everity	Quantity		,	
		DEPRESSIO	-			L	75 SF			
		LONGITUDI	NAL/TRANSV	ERSE CRACKING		М	4 LF			
		LONGITUDI	NAL/TRANSV	ERSE CRACKING		L	146 LF			
		WEATHERI	NG			L	4875 SF			

## SHELBY AIRPORT

SHELBY AIRPORT	Branch:	14R1	RUNWAY	<b>R-21</b>
Extrapolated Distress (	Quantities*			
Distress Description	Severity	Quantity	Density	Deduct
DEPRESSION	HIGH	549 SF	0.15%	13.72
DEPRESSION	LOW	10,736 SF	2.86%	14.15
DEPRESSION	MEDIUM	1,527 SF	0.41%	9.36
LONGITUDINAL/TRANSVERSE CRACKING	HIGH	44 LF	0.01%	7.50
LONGITUDINAL/TRANSVERSE CRACKING	LOW	14,813 LF	3.95%	12.40
LONGITUDINAL/TRANSVERSE CRACKING	MEDIUM	1,879 LF	0.50%	8.30
RAVELING	HIGH	33 SF	0.01%	6.00
WEATHERING	LOW	375,000 SF	100.00%	5.96
* Multiple deduct values are scaled down from their algebraic sum to keep the model consist	tent with experin	nental data.		
Percent of Deduct Values Based or	n Distress Mec	hanism		
0.0 % Load 52.0 %	% Climate/Dur	ability		48.0 % Other

Length:	BY AIRPC 3,700 LF	Width:	60 LF Area: 222,000		14R2 t Const: 200	RUNWAY 3	Family:	
From:	12+00 RW 11-29	)	To: 49+00 RW Inspectio				Surface:	A
Samples S	urveved:	7	Total Samples: 44	Last Inspectio	<b>n Date:</b> 10/	17/2018	PCI:	6
-	-							_
ample #		Distress Des	cription	Severity	Quantity	Area:	4,800	SF
		SWELL		L	4 SF			
			NAL/TRANSVERSE CRACKING	М	4 LF			
		DEPRESSIO		L	11.5 SF			
		ALLIGATOR	NAL/TRANSVERSE CRACKING	L L	12.5 SF 99 LF			
		WEATHERI		L	4800 SF			
ample #	8					Area:	4,800	SF
•		Distress Des	cription	Severity	Quantity			
		WEATHERI		L	4800 SF			
		LONGITUDI	NAL/TRANSVERSE CRACKING	М	66 LF			
			NAL/TRANSVERSE CRACKING	L L	240 SF 307 LF			
		Longinopi		L	507 EA			
Sample #						Area:	4,800	SF
		Distress Des	-	Severity	Quantity			
		DEPRESSIO	N NAL/TRANSVERSE CRACKING	L L	274 SF 294 LF			
		WEATHERI		L	4800 SF			
			NAL/TRANSVERSE CRACKING	М	12 LF			
Sample #	20					Area:	4,800	SF
		Distress Des	cription	Severity	Quantity			
		DEPRESSIO		L	80 SF			
			NAL/TRANSVERSE CRACKING	L	150 LF			
		WEATHERI	NAL/TRANSVERSE CRACKING	M L	13 LF 4800 SF			
		DEPRESSIO		M	28 SF			
Sample #	26					Area:	4,800	SF
		Distress Des	cription	Severity	Quantity		,	
			NAL/TRANSVERSE CRACKING	L	126 LF			
		WEATHERI		L	4800 SF			
		DEPRESSIO PATCHING	N	M L	900 SF 0.2 SF			
		DEPRESSIO	N	L	60 SF			
ample #	32					Area:	4,800	SF
		Distress Des	cription	Severity	Quantity		.,000	
			NAL/TRANSVERSE CRACKING	L	115 LF			
		WEATHERI	NG	L	4800 SF			
		RAVELING		Н	13.33 SF			
ample #	38					Area:	4,800	SF
		Distress Des	-	Severity	Quantity			
		WEATHERI		L	4800 SF			
		DEPRESSIO LONGITUDI	N NAL/TRANSVERSE CRACKING	L L	50.25 SF 124 LF			
			Extrapolated Distres	s Quantities*				
		Distress Des		Severity	Quantity	Densi	ty	Dedu

SHELBY AIRPORT	Branch:	14R2	RUNWAY	<b>R-22</b>
ALLIGATOR	LOW	83 SF	0.04%	7.00
DEPRESSION	LOW	4,729 SF	2.13%	11.74
DEPRESSION	MEDIUM	6,131 SF	2.76%	24.99
LONGITUDINAL/TRANSVERSE CRACKING	LOW	8,028 LF	3.62%	11.59
LONGITUDINAL/TRANSVERSE CRACKING	MEDIUM	628 LF	0.28%	6.27
PATCHING	LOW	1 SF	0.00%	2.00
RAVELING	HIGH	88 SF	0.04%	6.00
SWELL	LOW	26 SF	0.01%	1.00
WEATHERING	LOW	222,000 SF	100.00%	5.96
* Multiple deduct values are scaled down from their algebraic sum to keep the model consist	ent with experin	nental data.		
Percent of Deduct Values Based on	<mark>ı Distress Mec</mark>	hanism		

		rere
9.0	%	Load

42.0 % Climate/Durability

49.0 % Other

SHEL	BY AIR	PORT				Branch:	14T	TAXIWAY		<b>T-6</b>
Length:	1,400 LF	Width:	35 LF	Area:	115,000 SF APRON A-1	Las	t Const: 199	4	Family: Surface:	ACRMU
From:				To:	Inspections				Surface:	AC
Samples S	urveved:	4	Tot	al Samples:	11	Last Inspectio	on Date: 10/	/17/2018	PCI:	75
-	-			<b>F</b>		<b>F</b>				
Sample #	1	Distress Dese	N			Severity L	Quantity 105 SF	Area:	4,375	SF
		LONGITUDI WEATHERII		SVERSE CF	ACKING	L L	74 LF 1627.5 SF			
		LONGITUDI		SVERSE CF	RACKING	M	1 LF			
Sample #	3							Area:	4,375	SF
		Distress Des	cription			Severity	Quantity			
		RAVELING				Н	9 SF			
		LONGITUDI	NAL/TRANS	SVERSE CF	RACKING	L	61 LF			
		PATCHING		EVEDEE CI	ACKING	L	0.2 SF			
		LONGITUDI	INAL/IRAN:	SVERSE CF	ACKING	М	1 LF			
Sample # 9						~ •	0	Area:	4,375	SF
		Distress Des	-	EVEDEE CI	ACKING	Severity	Quantity			
		LONGITUDI DEPRESSIO		SVERSE CF	ACKING	M L	1 LF 218 SF			
		PATCHING	11			L	0.2 SF			
		LONGITUDI	NAL/TRANS	SVERSE CF	RACKING	L	139 LF			
Sample #	11							Area:	4,375	SF
_		Distress Des	cription			Severity	Quantity			
		RAVELING				Н	20 SF			
		PATCHING				L	0.2 SF			
		DEPRESSIO				L	20 SF			
		LONGITUDI LONGITUDI				M L	1 LF 69 LF			
				Eutoonal	ated Distance O					
		Distress Des	cription	Extrapol	ated Distress Q	Severity	Quantity	Density	7	Deduc
		DEPRESSIO				LOW	2,254 SF	1.96%		11.10
		LONGITUDI	NAL/TRANS	SVERSE CF	RACKING	LOW	2,254 LF	1.96%		7.30
		LONGITUDI	NAL/TRANS	SVERSE CF	RACKING	MEDIUM	26 LF	0.02%		4.00
		PATCHING				LOW	4 SF	0.00%		2.00
		RAVELING				HIGH	191 SF	0.17%		7.60
		WEATHERI				LOW	10,695 SF	9.30%		1.63
<ul> <li>Multiple d</li> </ul>	educt values are	scaled down from t	their algebraic	sum to keep t	the model consiste	ent with experim	ental data.			
maniple			_		alues Based on					

SHEL	BY AIR	PORT			Branch:	14T	TAXIWAY		<b>T-7</b>
Length: From:	440 LF T-17	Width: 57 LF	Area: To:	25,080 SF HANGARS	Las	t Const: 201	2	Family: A Surface:	CRMU AC
				Inspections					
Samples S	Surveyed:	3	Total Samples:	5	Last Inspectio	on Date: 10/	17/2018	PCI:	97
Sample #	1	<b>Distress Description</b> PATCHING DEPRESSION			Severity L L	Quantity 0.4 SF 30 SF	Area:	5,016 SF	7
Sample #	3	<b>Distress Description</b> PATCHING			Severity L	<b>Quantity</b> 0.2 SF	Area:	5,016 SF	7
Sample #	5	<b>Distress Description</b> PATCHING			Severity L	<b>Quantity</b> 0.2 SF	Area:	5,016 SF	7
			Extrapol	ated Distress Qu	antities*				
* Multiple of	deduct values are	Distress Description DEPRESSION PATCHING scaled down from their algeb			Severity LOW LOW	Quantity 50 SF 1 SF ental data.	<b>Density</b> 0.20% 0.01%		<b>Deduct</b> 0.78 2.00
		5		alues Based on					
		0.0 % Load			Climate/Dura			28.0 %	Other

SHEL	BY AIR	PORT	Branch:	14T	TAXIWAY		<b>T-17</b>
Length:	2,038 LF	Width: 35 LF Area: 71,330 S	SF Las	t Const: 201	2	Family: A	ACRMU
From:	T-6	To: HANGARS				Surface:	AC
		Inspections	1				
Samples S	Surveyed:	4 Total Samples: 10	Last Inspectio	on Date: 10/	17/2018	PCI:	83
Sample #	2				Area:	4,674 S	F
		Distress Description	Severity	Quantity			
		PATCHING	L	0.2 SF			
		LONGITUDINAL/TRANSVERSE CRACKING	L	12 LF			
Sample #	5				Area:	4,674 S	F
<b></b>	-	Distress Description	Severity	Quantity		.,	-
		LONGITUDINAL/TRANSVERSE CRACKING	L	108 LF			
		DEPRESSION	L	66 SF			
		PATCHING	L	0.2 SF			
Sample #	6				Area:	5,073 S	F
ampie "	Ū	Distress Description	Severity	Quantity	mca.	5,075 5	•
		LONGITUDINAL/TRANSVERSE CRACKING	L	69 LF			
		DEPRESSION	L	186 SF			
Sample #	9				Area:	5,073 S	F
Jumpic #		Distress Description	Severity	Quantity		5,075 5.	
		LONGITUDINAL/TRANSVERSE CRACKING	L	78 LF			
		LONGITUDINAL/TRANSVERSE CRACKING	M	39 LF			
		PATCHING	М	117 SF			
		PATCHING	L	0.4 SF			
		Extrapolated Distress	Quantities*				
		Distress Description	Severity	Quantity	Density		Deduct
		DEPRESSION	LOW	922 SF	1.29%		8.20
		LONGITUDINAL/TRANSVERSE CRACKING	LOW	977 LF	1.37%		5.79
		LONGITUDINAL/TRANSVERSE CRACKING	MEDIUM	143 LF	0.20%		5.15
		PATCHING	LOW	3 SF	0.00%		2.00
		PATCHING	MEDIUM	428 SF	0.60%		8.27
Multiple	deduct values are	scaled down from their algebraic sum to keep the model consi	-				
		Percent of Deduct Values Based of					
		0.0 % Load 72.0 °	% Climate/Dura	bility		28.0 %	6 Other

	BY AIR		Branch:	14T	TAXIWAY		<b>T-2</b> 1
Length: From:	2,550 LF R-21	Width: 35 LF Area: 89,250 To: R-22	SF Las	t Const: 2003	3	Family: Surface:	ACRM
10111.	K-21	Inspection	ns			Surface.	A
'ammlag 6				<b>D</b> otor 10/	17/2018	PCI:	7
samples 5	Surveyed:	5 <b>Total Samples:</b> 18	Last Inspection	on Date: 10/	17/2018	1 01.	/
ample #	2		a	<b>A</b>	Area:	5,005	SF
		Distress Description	Severity	Quantity			
		ALLIGATOR	L L	18 SF 35 SF			
		DEPRESSION LONGITUDINAL/TRANSVERSE CRACKING	L	33 SF 127 LF			
		LONGITUDINAL/TRANSVERSE CRACKING	L M	127 LF			
		RAVELING	H	2 SF			
Sample #	8				Area:	4,970	SF
		Distress Description	Severity	Quantity		.,,	
		LONGITUDINAL/TRANSVERSE CRACKING	L	168 LF			
		DEPRESSION	L	141 SF			
Sample #	11				Area:	4,970	SF
		Distress Description	Severity	Quantity			
		LONGITUDINAL/TRANSVERSE CRACKING	L	380 LF			
Sample #	15		~ •		Area:	4,970	SF
		Distress Description	Severity	Quantity			
		SWELL	L	8 SF			
		LONGITUDINAL/TRANSVERSE CRACKING LONGITUDINAL/TRANSVERSE CRACKING	H L	2 LF 222 LF			
		LONGITUDINAL/TRANSVERSE CRACKING	L M	222 LF 19 LF			
		RAVELING	Н	10.5 SF			
Sample #	18				Area:	4,970	SF
		Distress Description	Severity	Quantity			
		PATCHING	L	0.29 SF			
		LONGITUDINAL/TRANSVERSE CRACKING	М	13 LF			
		LONGITUDINAL/TRANSVERSE CRACKING	L	88 LF			
		RAVELING DEPRESSION	H L	19.5 SF 31 SF			
		DEPRESSION	L	51 56			
		Extrapolated Distres	s Quantities*				
		Distress Description	Severity	Quantity	Density		Dedu
		ALLIGATOR	LOW	65 SF	0.07%		7.0
		DEPRESSION	LOW	742 SF	0.83%		5.6
		LONGITUDINAL/TRANSVERSE CRACKING	HIGH	7 LF	0.01%		7.5
		LONGITUDINAL/TRANSVERSE CRACKING	LOW	3,533 LF	3.96%		12.4
		LONGITUDINAL/TRANSVERSE CRACKING	MEDIUM LOW	118 LF 1 SF	0.13%		4.1 2.0
		PATCHING RAVELING	LOW HIGH	1 SF 115 SF	0.13%		2.0
		SWELL	LOW	29 SF	0.03%		1.0
Multiple of	deduct values are	scaled down from their algebraic sum to keep the model con			0.05 /	-	1.0
		Percent of Deduct Values Based	on Distress Mech	anism			

Montana	Aviation	System	Plan

Length:	<b>BY AIR</b> 1,840 LF	Width: 35 LF Area: 64,400 S	Branch: SF Las	14T st Const: 2004	TAXIWAY 4	Family:	T-22
From:	R-22	<b>To:</b> R-21				Surface:	A
		Inspections	<b>i</b>				
Samples S	urveyed:	4 Total Samples: 13	Last Inspecti	on Date: 10/	17/2018	PCI:	6
Sample #	1				Area:	3,360	SF
		Distress Description	Severity	Quantity			
		DEPRESSION	L	53 SF			
		WEATHERING	L	3360 SF			
		LONGITUDINAL/TRANSVERSE CRACKING	L	53 LF			
Sample #	4				Area:	4,725	SF
		Distress Description	Severity	Quantity		,	
		LONGITUDINAL/TRANSVERSE CRACKING	м	40 LF			
		LONGITUDINAL/TRANSVERSE CRACKING	L	115 LF			
		WEATHERING	L	4725 SF			
		DEPRESSION	L	4 SF			
Sample #	7				Area:	4,725	SF
F	-	Distress Description	Severity	Quantity		.,	~-
		LONGITUDINAL/TRANSVERSE CRACKING	н	1 LF			
		LONGITUDINAL/TRANSVERSE CRACKING	L	264 LF			
		LONGITUDINAL/TRANSVERSE CRACKING	М	7 LF			
		RAVELING	Н	19.5 SF			
		WEATHERING	L	4725 SF			
Sample #	10				Area:	4,725	SF
•		Distress Description	Severity	Quantity		,	
		PATCHING	L	228 SF			
		LONGITUDINAL/TRANSVERSE CRACKING	М	11 LF			
		RAVELING	Н	74 SF			
		LONGITUDINAL/TRANSVERSE CRACKING	L	196 LF			
		DEPRESSION	L	35 SF			
		WEATHERING	L	4725 SF			
		Extrapolated Distress	Quantities*				
		Distress Description	Severity	Quantity	Density		Dedu
		DEPRESSION	LOW	338 SF	0.52%		3.4
		LONGITUDINAL/TRANSVERSE CRACKING LONGITUDINAL/TRANSVERSE CRACKING	HIGH LOW	4 LF 2,306 LF	0.01% 3.58%		7.5
		LONGITUDINAL/TRANSVERSE CRACKING	MEDIUM	2,306 LF 213 LF	5.58% 0.33%		11.5 6.8
		PATCHING	LOW	837 SF	1.30%		4.1
		RAVELING	HIGH	343 SF	0.53%		4.1
		WEATHERING	LOW	64,400 SF	100.00%		5.9
Multiple	leduct values are	scaled down from their algebraic sum to keep the model consi					
		Percent of Deduct Values Based of	n Distress Mecl	hanism			

#### SHELBY AIRPORT (14)

	AIRPORT (14) EAR PROJECTIONS			EST	MATED AVERAGE	ANNUAL COST:	ç	284,429
Plan Year:		t and	Chaile à	Mata 10.15	Estimated Cost:	\$409,584	PC	
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major&gt;Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-21 A-22	Preventive + Global MR	\$1,487	\$33,072	\$0 \$0	\$0 \$0	\$34,559	79 71	83
A-22 R-21	Preventive Preventive + Global MR	\$1,060 \$29,174	\$0 \$127,499	\$0 \$0	\$0 \$0	\$1,060 \$156,673	64	71 72
R-22	Preventive + Global MR	\$14,986	\$75,479	\$0	\$0	\$90,465	67	73
T-16	Preventive	\$979	\$0	\$0	\$0	\$979	81	82
T-17	Preventive + Global MR	\$545	\$24,252	\$0	\$0	\$24,797	82	91
T-21 T-22	Preventive + Global MR Preventive + Global MR	\$2,449 \$3,703	\$30,345 \$21,896	\$0 \$0	\$0 \$0	\$32,793 \$25,599	76 69	80 75
T-6	Preventive + Global MR	\$3,560	\$39,100	\$0 \$0	\$0 \$0	\$42,660	75	78
T-7	None	\$0	\$0	\$0	\$0	\$0	97	97
Plan Year:	2020				Estimated Cost:	\$40,109	PC	1
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major&gt;Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-21	Preventive	\$825	\$0	\$0	\$0	\$825	82	82
A-22	Preventive	\$1,246	\$0	\$0	\$0	\$1,246	69	69
R-21 R-22	Preventive Preventive	\$19,649 \$10,211	\$0 \$0	\$0 \$0	\$0 \$0	\$19,649 \$10,211	70 71	70 71
T-16	Preventive	\$1,720	\$0	\$0 \$0	\$0	\$1,720	79	79
T-17	Preventive	\$131	\$0	\$0	\$0	\$131	88	88
T-21	Preventive	\$1,299	\$0	\$0	\$0	\$1,299	79	79
T-22 T-6	Preventive Preventive	\$2,442	\$0 \$0	\$0 \$0	\$0 \$0	\$2,442	73 77	73 77
T-6 T-7	None	\$2,585 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$2,585 \$0	96	96
Plan Year:	2021				Estimated Cost:	\$49,656	PC	
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major&gt;Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-21	Preventive	\$953	\$0	\$0	\$0	\$953	80	80
A-22	Preventive	\$1,445	\$0	\$0	\$0	\$1,445	67	67
R-21 R-22	Preventive	\$23,889 \$12,232	\$0 \$0	\$0 \$0	\$0 \$0	\$23,889 \$12,232	67 69	67 69
T-16	Preventive Preventive	\$12,232	\$0 \$0	\$0 \$0	\$0 \$0	\$2,980	69 76	76
T-17	Preventive	\$311	\$0	\$0	\$0	\$311	86	86
T-21	Preventive	\$1,832	\$0	\$0	\$0	\$1,832	77	77
T-22	Preventive	\$2,965	\$0	\$0	\$0	\$2,965	71	71
Т-6 Т-7	Preventive None	\$3,049 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$3,049 \$0	76 96	76 96
Plan Year:	2022				Estimated Cost:	\$360,971	PC	
	Maintenance	Local	Global	Major <crit< td=""><td>Major&gt;Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-21	Preventive	\$1,412	\$0	\$0	\$0	\$1,412	79	79
A-22	Preventive	\$1,643	\$0	\$0	\$0	\$1,643	65	65
R-21	Preventive	\$28,125	\$0	\$0	\$0	\$28,125	65	65
R-22	Preventive	\$14,464	\$0	\$0	\$0	\$14,464	67	67
T-16 T-17	Preventive + Global MR Preventive	\$4,232 \$490	\$247,250 \$0	\$0 \$0	\$0 \$0	\$251,482 \$490	73 83	89 83
T-21	Preventive	\$2,363	\$0 \$0	\$0 \$0	\$0 \$0	\$2,363	76	76
T-22	Preventive	\$3,555	\$0	\$0	\$0	\$3,555	69	69
T-6	Preventive	\$3,514	, \$O	\$0	<b>\$</b> 0	\$3,514	75	75
T-7	Global MR	\$0	\$53,922	\$0	\$0	\$53,922	95	98
Plan Year: Section	2023 Maintenance	Local	Global	Major <crit< td=""><td>Estimated Cost: Maior&gt;Crit</td><td>\$65,086 <b>Total</b></td><td>PC Before</td><td>l After</td></crit<>	Estimated Cost: Maior>Crit	\$65,086 <b>Total</b>	PC Before	l After
A-21 A-22	Preventive Preventive	\$1,926 \$1,842	\$0 \$0	\$0 \$0	\$0 \$0	\$1,926 \$1,842	78 63	78 64
R-22 R-21	Preventive	\$32,362	\$0 \$0	\$0	\$0 \$0	\$32,362	63	63
R-22	Preventive	\$16,706	\$0	\$0	\$0	\$16,706	65	65
T-16	Preventive	\$509	\$0	\$0	\$0	\$509	86	86
T-17 T-21	Preventive Preventive	\$670 \$2,892	\$0 \$0	\$0 \$0	\$0 \$0	\$670 \$2,892	81 74	81 74
T-21	Preventive	\$4,205	\$0 \$0	\$0 \$0	\$0 \$0	\$4,205	67	67
T-6	Preventive	\$3,974	\$0	\$0	\$0	\$3,974	74	74
T-7	None	\$0	\$0	\$0	\$0	\$0	97	97
Plan Year:	2024				Estimated Cost:	\$426,463	PC	
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major&gt;Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-21	Preventive + Global MR	\$2,439 \$2,042	\$33,072	\$0 \$0	\$0 \$0	\$35,511	76 62	80 62
A-22 R-21	Preventive Preventive + Global MR	\$2,042 \$36,601	\$0 \$127,499	\$0 \$0	\$0 \$0	\$2,042 \$164,100	62 60	62 68
R-22	Preventive + Global MR	\$18,935	\$75,479	\$0	\$0	\$94,415	63	70
T-16	Preventive	\$823	\$0	\$0	\$0	\$823	83	83
T-17	Preventive + Global MR	\$1,258	\$24,252	\$0	\$0	\$25,510	78	87
T-21 T-22	Preventive + Global MR Preventive + Global MR	\$3,424 \$4,859	\$30,345 \$21,896	\$0 \$0	\$0 \$0	\$33,768 \$26,755	73 65	78 72
	Preventive + Global MR	\$4,659	\$39,100	\$0 \$0	\$0 \$0	\$43,539	73	76
T-6						+ ,		
T-6 T-7	None	\$0	\$0	\$0	\$0	\$0	97	97

## SHELBY AIRPORT (14)

SHELBY	AIRPORT (14)							
FIFTEEN Y	EAR PROJECTIONS			EST	IMATED AVERAGE A	ANNUAL COST:	\$	<mark>284,429</mark>
Plan Year: Section	2025 Maintenance	Local	Global	Major <crit< th=""><th>Estimated Cost: Major&gt;Crit</th><th>\$120,337</th><th>PCI Before</th><th>After</th></crit<>	Estimated Cost: Major>Crit	\$120,337	PCI Before	After
A-21	Preventive	\$1,346	\$0	\$0		\$1,346	79	79
A-22	Major Below Critical	\$0	\$0	\$67,211	\$0	\$67,211	60	100
R-21	Preventive	\$27,094	\$0	\$0	\$0	\$27,094	66	66
R-22	Preventive	\$13,965	<b>\$</b> 0	\$0	\$0	\$13,965	67	68
T-16	Preventive	\$1,138	\$0	\$0	\$0	\$1,138	80	80
T-17	Preventive	\$438	\$0	\$0	\$0	\$438	84	84
T-21	Preventive	\$2,277	\$0	\$0		\$2,277	76	76
T-22	Preventive	\$3,404	\$0	\$0	\$0	\$3,404	69	70
Т-6 Т-7	Preventive None	\$3,464 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$3,464 \$0	75 96	75 96
Plan Year:		ÛÇ	ŲŲ	ÛÇ	Estimated Cost:	\$63,148	PCI	
	Maintenance	Local	Global	Major <crit< td=""><td>Major&gt;Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-21	Preventive	\$1,860	\$0	\$0	\$0	\$1,860	78	78
A-22	None	\$0	\$0	\$0	\$0	\$0	97	97
R-21	Preventive	\$31,330	\$0	\$0	\$0	\$31,330	63	63
R-22	Preventive	\$16,194	\$0	\$0		\$16,194	65	66
T-16	Preventive	\$2,355	<b>\$</b> 0	\$0	<b>\$</b> 0	\$2,355	77	78
T-17	Preventive	\$618	<b>\$</b> 0	\$0	\$0	\$618	81	82
T-21	Preventive	\$2,806	<b>\$</b> 0	\$0	\$0	\$2,806	75	75
T-22	Preventive	\$4,057	\$0	\$0	\$0	\$4,057	67	68
T-6	Preventive	\$3,928	\$0	\$0 \$0	\$0	\$3,928	74	74
T-7	None	\$0	\$0	\$0	\$0	\$0	96	96
Plan Year: Section	2027 Maintenance	Local	Global	Major <crit< td=""><td>Estimated Cost: Maior&gt;Crit</td><td>\$73,471_ Total</td><td>PCI Before</td><td>After</td></crit<>	Estimated Cost: Maior>Crit	\$73,471_ Total	PCI Before	After
A-21 A-22	Preventive	\$2,373	\$0	\$0 \$0	\$0 \$0	\$2,373	76 94	76 94
A-22 R-21	None Preventive	\$0 \$35,570	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$35,570	94 61	94 61
R-21 R-22	Preventive	\$18,436	\$0 \$0	\$0 \$0	\$0 \$0	\$18,436	63	64
T-16	Preventive	\$3,611	\$0 \$0	\$0 \$0	\$0 \$0	\$3,611	75	75
T-17	Preventive	\$1,047	\$0 \$0	\$0 \$0	\$0	\$1,047	79	79
T-21	Preventive	\$3,337	\$0	\$0	\$0	\$3,337	73	73
T-22	Preventive	\$4,708	\$0	\$0	\$0	\$4,708	65	66
T-6	Preventive	\$4,388	\$0	\$0	\$0	\$4,388	73	73
T-7	None	\$0	\$0	\$0	\$0	\$0	95	95
Plan Year:	2028				Estimated Cost:	\$1,238,458	PCI	
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major&gt;Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-21	Preventive	\$2,887	\$0	\$0	\$0	\$2,887	75	75
A-22	None	\$0	\$0	\$0	\$0	\$0	91	91
R-21	Major Below Critical	\$0	\$0	\$1,194,188		\$1,194,188	59	100
R-22	Preventive	\$20,670	\$0	\$0	\$0	\$20,670	61	62
T-16	Preventive	\$4,866	\$0	\$0	\$0	\$4,866	72	72
T-17	Preventive	\$1,766	\$0	\$0	\$0	\$1,766	76	77
T-21	Preventive	\$3,866	\$0	\$0	\$0	\$3,866	72	72
T-22	Preventive	\$5,361	\$0	\$0	\$0	\$5,361	63	64
T-6	Preventive	\$4,853	\$0	\$0	\$0	\$4,853	72	72
T-7	None	\$0	\$0	\$0	\$0	\$0	95	95
Plan Year: Section	2029 Maintenance	Local	Global	Major <crit< td=""><td>Estimated Cost: Major&gt;Crit</td><td>\$863,851_ <b>Total</b></td><td>PCI Before</td><td>After</td></crit<>	Estimated Cost: Major>Crit	\$863,851_ <b>Total</b>	PCI Before	After
A-21	Preventive + Global MR	\$3,401	\$33,072	\$0	\$0	\$36,473	74	78
A-21 A-22	Preventive + Global NIK	\$3,401 \$44	\$33,072 \$0	\$0 \$0		\$36,473 \$44	74 88	78 88
A-22 R-21	None	\$44 \$0	\$0 \$0	\$0 \$0		\$44 \$0	88 97	88 97
R-21 R-22	Major Below Critical	\$0 \$0	\$0 \$0	\$0 \$687,311		\$687,311	59	100
T-16	Preventive	\$6,216	\$0 \$0	\$087,511 \$0		\$6,216	69	69
T-10 T-17	Preventive + Global MR	\$2,485	\$24,252	\$0 \$0	\$0 \$0	\$26,737	74	82
T-21	Preventive + Global MR	\$4,402	\$30.345	\$0 \$0	\$0 \$0	\$34,747	70	75
T-22	Preventive + Global MR	\$6,015	\$21,896	\$0	\$0	\$27,911	61	68
T-6	Preventive + Global MR	\$5,313	\$39,100	\$0	\$0	\$44,413	71	74
T-7	None	\$0	\$0	\$0		\$0	94	94
Plan Year:					Estimated Cost:	\$23,178	PCI	
	Maintenance	Local	Global	Major <crit< td=""><td>Major&gt;Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-21	Preventive	\$2,299	\$0	\$0	\$0	\$2,299	77	77
A-22	Preventive	\$107	\$0	\$0		\$107	85	85
R-21	None	\$0	\$0	\$0	\$0	\$0	94	94
R-22	None	\$0	\$0	\$0	\$0	\$0	97	97
T-16	Preventive	\$7,786	\$0	\$0	\$0	\$7,786	66	67
T-17	Preventive	\$836	\$0	\$0	\$0	\$836	80	80
T-21 T-22	Preventive	\$3,249	\$0	\$0 \$0	\$0 \$0	\$3,249	73	73
T-22 T-6	Preventive Preventive	\$4,560 \$4,342	\$0 \$0	\$0 \$0		\$4,560 \$4,342	66 73	66 73
T-7	None	\$4,342 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$4,342 \$0	73 94	73 94
		ΨŪ	ΨŪ	ΨŪ	ΨŪ	γŪ		5 4

### SHELBY AIRPORT (14)

SHELDI	AIRPORT (14)							
FIFTEEN Y	EAR PROJECTIONS			ESTI	MATED AVERAGE A	ANNUAL COST:	\$	<mark>284,429</mark>
Plan Year:	: 2031				Estimated Cost:	\$27,683	PCI	
Section	Maintenance	Local	Global	Major <crit< th=""><th>Major&gt;Crit</th><th>Total</th><th>Before</th><th>After</th></crit<>	Major>Crit	Total	Before	After
A-21	Preventive	\$2,813	\$0	\$0	\$0	\$2,813	75	75
A-22	Preventive	\$169	\$0	\$0	\$0	\$169	82	83
R-21	None	\$0	\$0 \$0	ŠÕ	ŠÕ	ŠÖ	91	91
R-22	None	\$0	\$0	ŚO	\$0 \$0	\$0	94	94
T-16	Preventive	\$9,355	\$0 \$0	\$0	\$0 \$0	\$9,355	64	64
T-17	Preventive	\$1,552	\$0	\$0	\$0	\$1,552	77	77
T-21	Preventive	\$3,777	\$0	\$0	\$0	\$3,777	72	72
T-22	Preventive	\$5,210	\$0	\$0	\$0 \$0	\$5,210	64	64
T-6	Preventive	\$4,807	\$0	\$0	\$0	\$4,807	72	72
T-7	None	\$0	\$0	\$0	\$0	\$0	93	93
Plan Year:	2032				Estimated Cost:	\$334,140	PCI	
Section	Maintenance	Local	Global	Maior <crit< td=""><td>Major&gt;Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
		2000					201010	
A-21	Preventive	\$3,326	\$0	\$0	\$0	\$3,326	74	74
A-22	Preventive	\$262	\$0	\$0	\$0	\$262	80	80
R-21	Preventive	\$749	\$0	\$0	\$0	\$749	88	88
R-22	None	\$0	\$0	\$0	\$0 \$0	\$0	91	91
T-16	Preventive + Global MR	\$10,920	\$247,250	\$0	<b>\$</b> 0	\$258,170	61	76
T-17	Preventive	\$2,271	<b>\$</b> 0	\$0	\$0	\$2,271	75	75
T-21	Preventive	\$4,309	<b>\$</b> 0	\$0 \$0	\$0 \$0	\$4,309	70	71
T-22	Preventive	\$5,864	\$0			\$5,864	62	62
T-6	Preventive	\$5,267	<u></u> \$0	<b>\$</b> 0	<b>\$</b> 0	\$5,267	71	71
T-7	Global MR	\$0	\$53,922	\$0	\$0	\$53,922	93	95
Plan Year:	2033				Estimated Cost:	\$220,008	PCI	
Section	Maintenance	Local	Global	Major <crit< td=""><td>Major&gt;Crit</td><td>Total</td><td>Before</td><td>After</td></crit<>	Major>Crit	Total	Before	After
A-21	Preventive	\$3,840	\$0	\$0	\$0	\$3,840	73	73
A-22	Preventive	\$513	\$0	\$0	\$0	\$513	77	77
R-21	Preventive	\$1,791	\$0	ŠÕ	\$0	\$1,791	85	85
R-22	Preventive	Ś443	Ś0	\$0	ŚO	\$443	88	88
T-16	Preventive	\$4,246	\$0	\$0	\$0	\$4,246	73	74
T-17	Preventive	\$2,990	\$0	\$0	\$0	\$2,990	72	72
T-21	Preventive	\$4,935	\$0	\$0	\$0	\$4,935	69	69
T-22	Major Below Critical	\$0	\$0	\$195,518	\$0	\$195,518	60	100
T-6	Preventive	\$5,732	\$0	\$0	\$0	\$5,732	70	70
T-7	None	\$0	\$0	\$0	\$0	\$0	95	95
		-	•		-			