

Alaska DOT&PF

Statewide Design and Engineering Services
Pavement Management and Preservation Office
5800 East Tudor Road, Anchorage AK 99507-1286

Pavement Inspection Report **Sitka Airport**





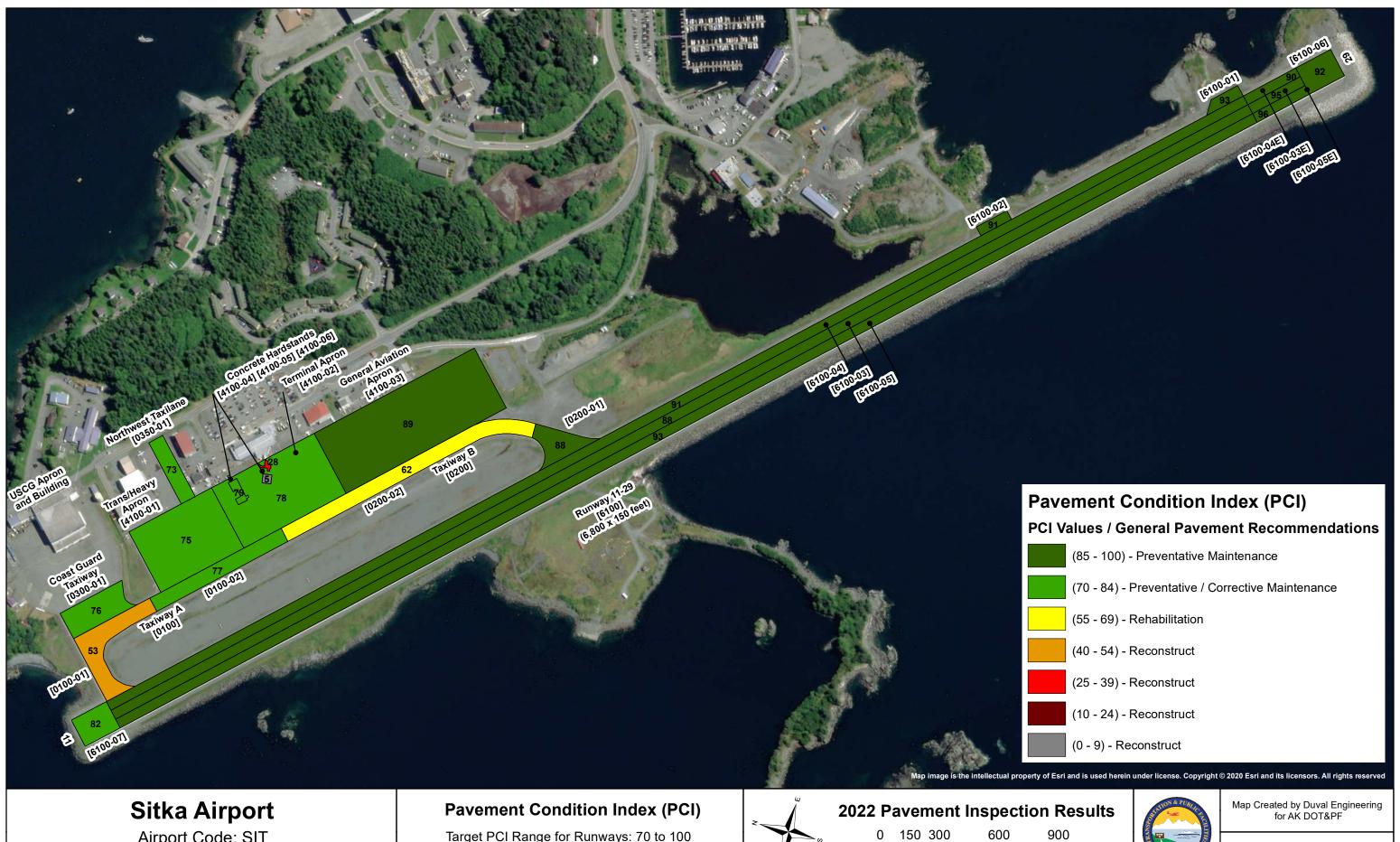
Airport Name	IATA	ICAO	Latitude	Longitude	Elevation (ft)
Sitka Airport	SIT	PASI	57° 2.81'N	135° 21.66'W	26.5

Please refer all questions or for further information about this report, please contact the AKDOT&PF Pavement Management and Preservation Office as follows:

Point of Contact	Phone	Email	Date Inspected	Date Published
Mr. Andrew Pavey, Pavement Management Engineer	(907) 269 6213	andrew.pavey@alaska.gov	October 2022	October 2023

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Airport Code: SIT Site Number: 50703.*A

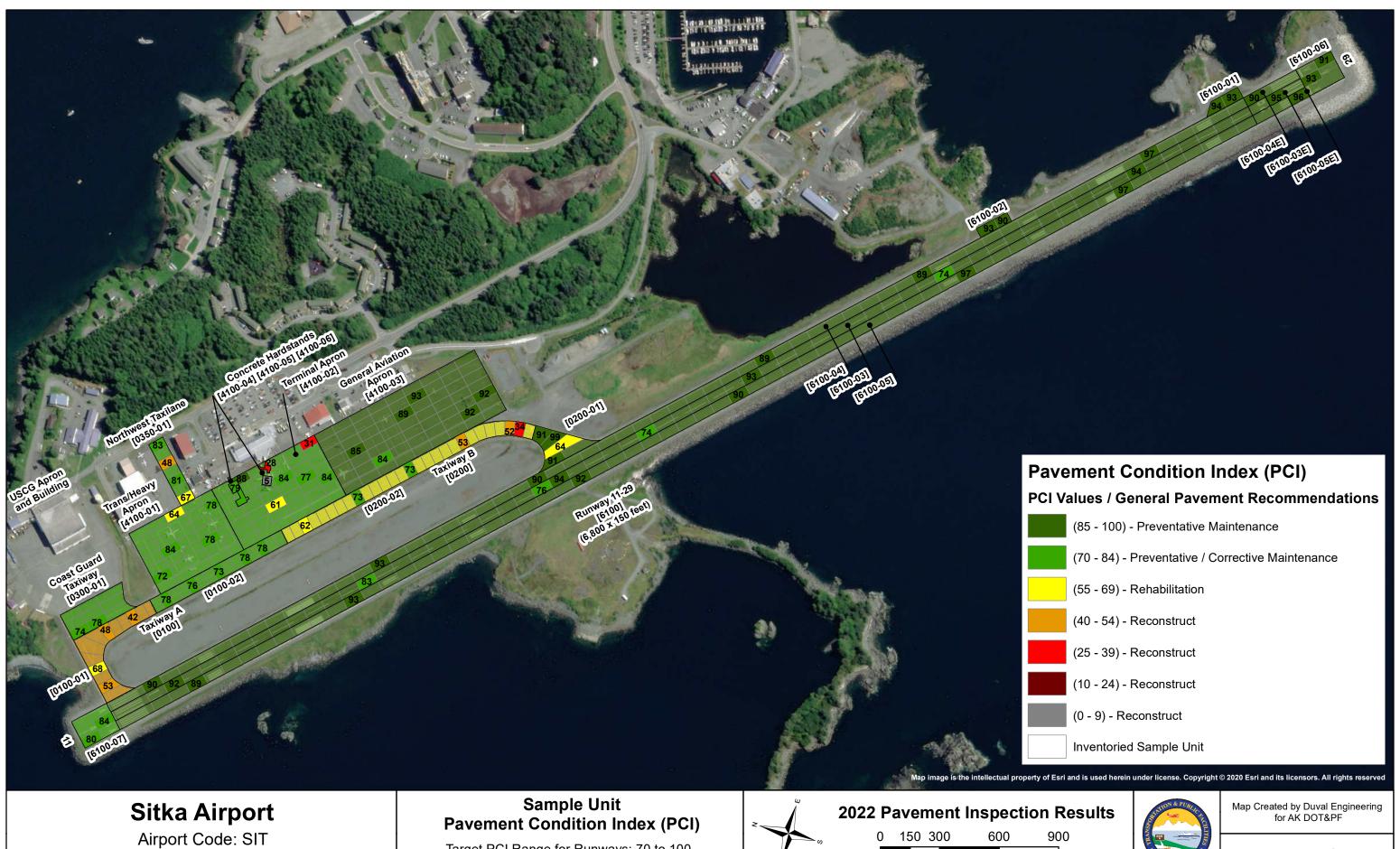
Target PCI Range for Runways: 70 to 100
Target PCI Range for Taxiways and Aprons: 60 to 100



Feet



Map 1 of 6



Site Number: 50703.*A

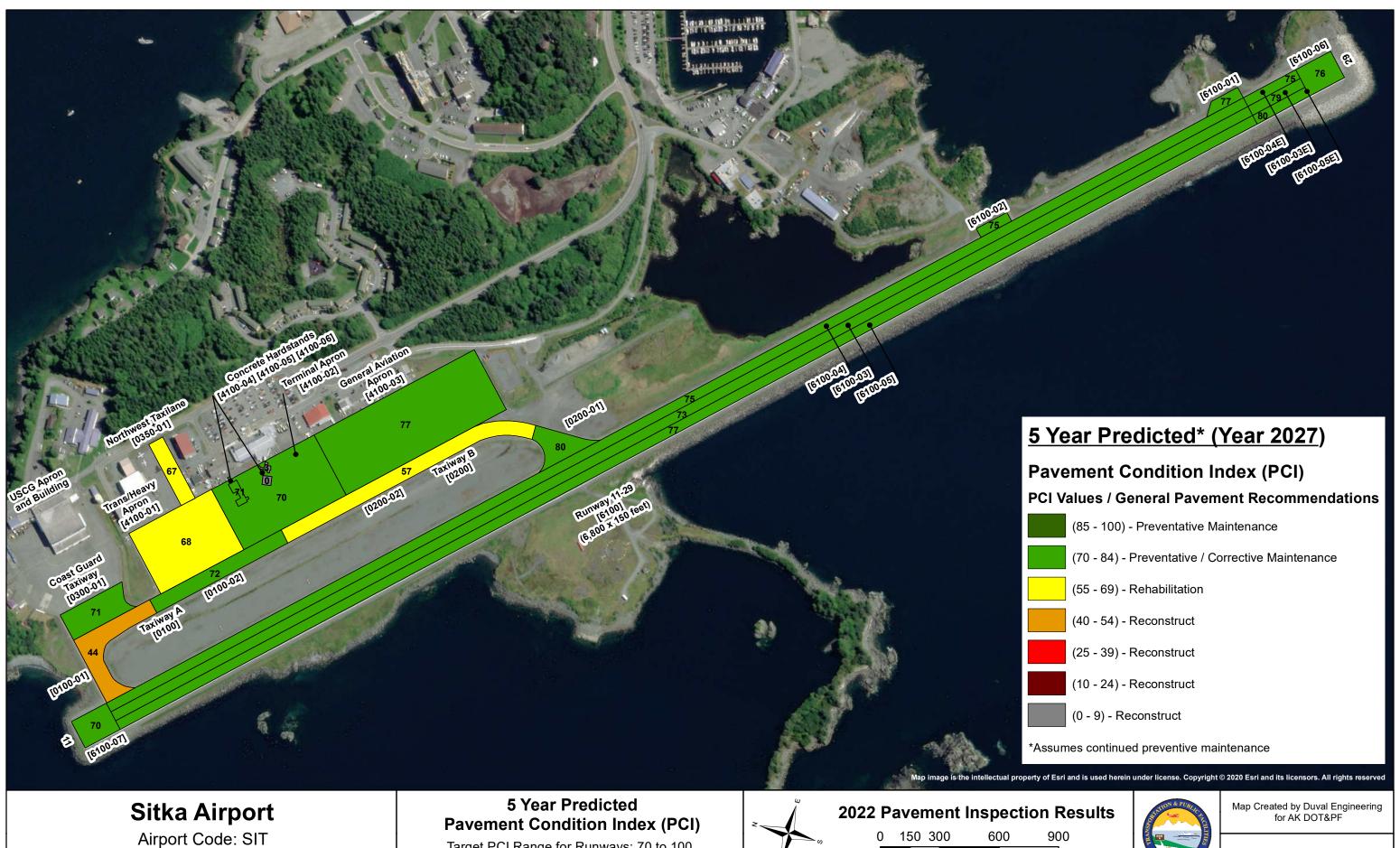
Target PCI Range for Runways: 70 to 100
Target PCI Range for Taxiways and Aprons: 60 to 100



Feet



Map 2 of 6



Site Number: 50703.*A

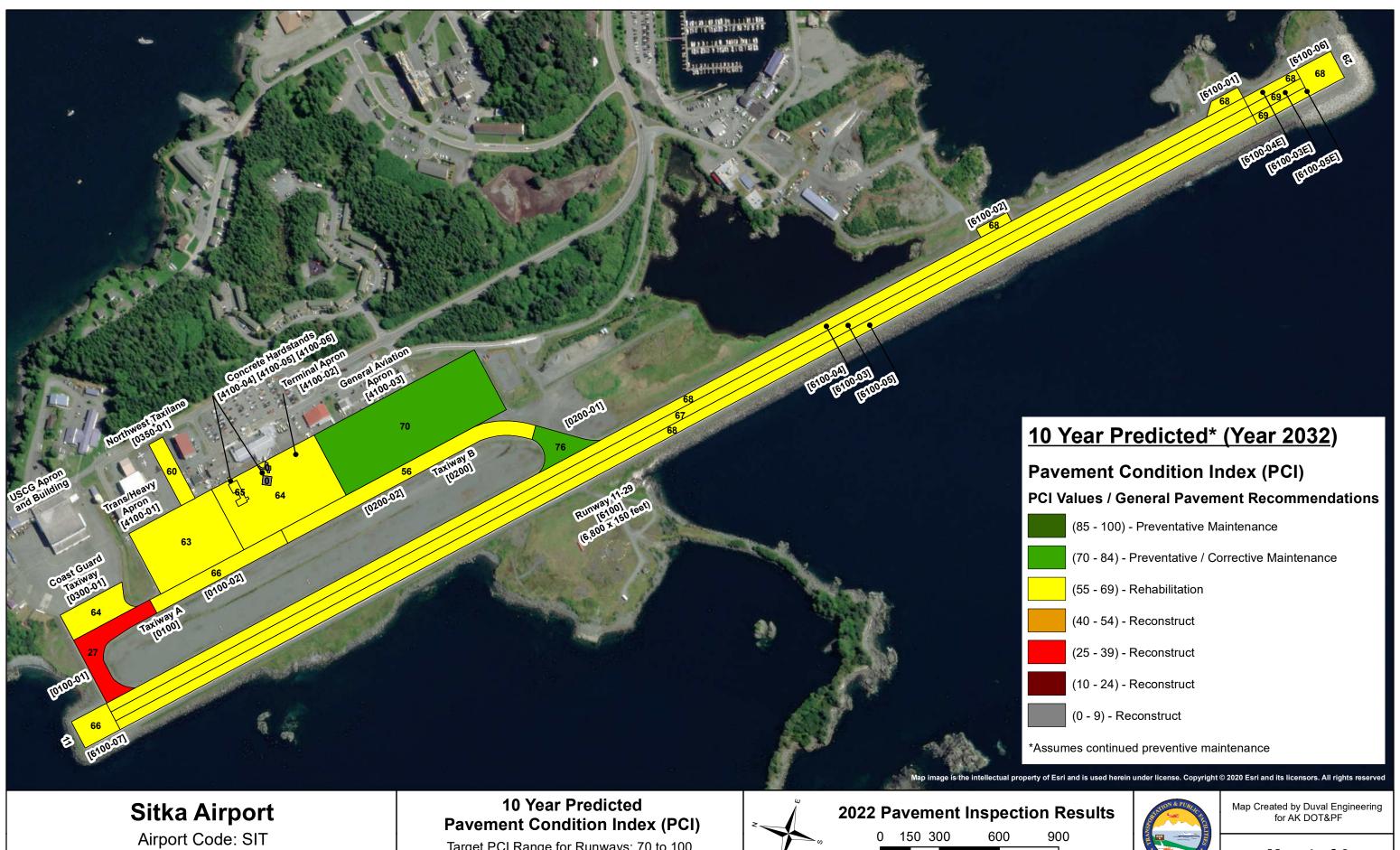
Target PCI Range for Runways: 70 to 100
Target PCI Range for Taxiways and Aprons: 60 to 100



Feet



Map 3 of 6



Site Number: 50703.*A

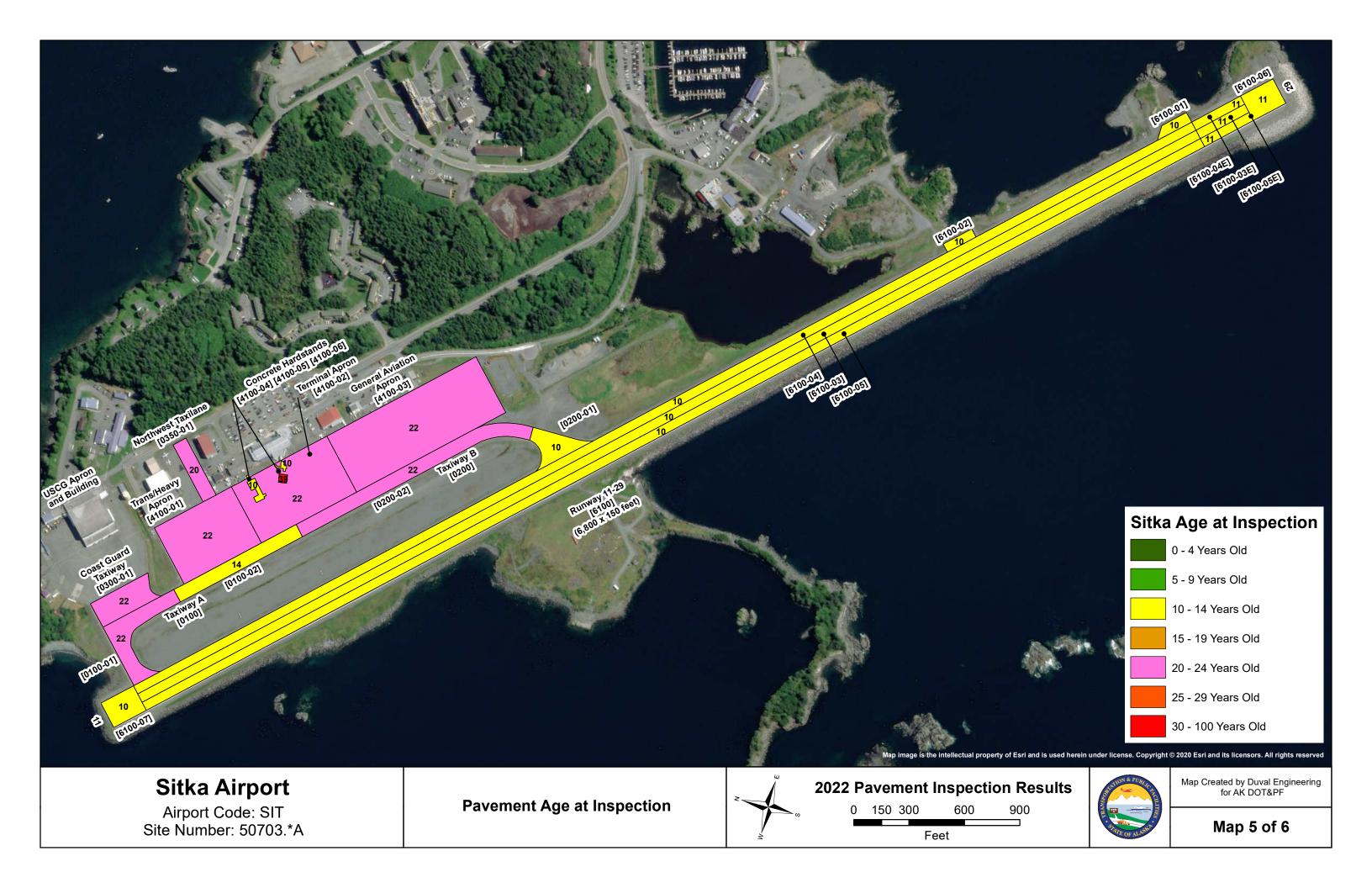
Target PCI Range for Runways: 70 to 100
Target PCI Range for Taxiways and Aprons: 60 to 100

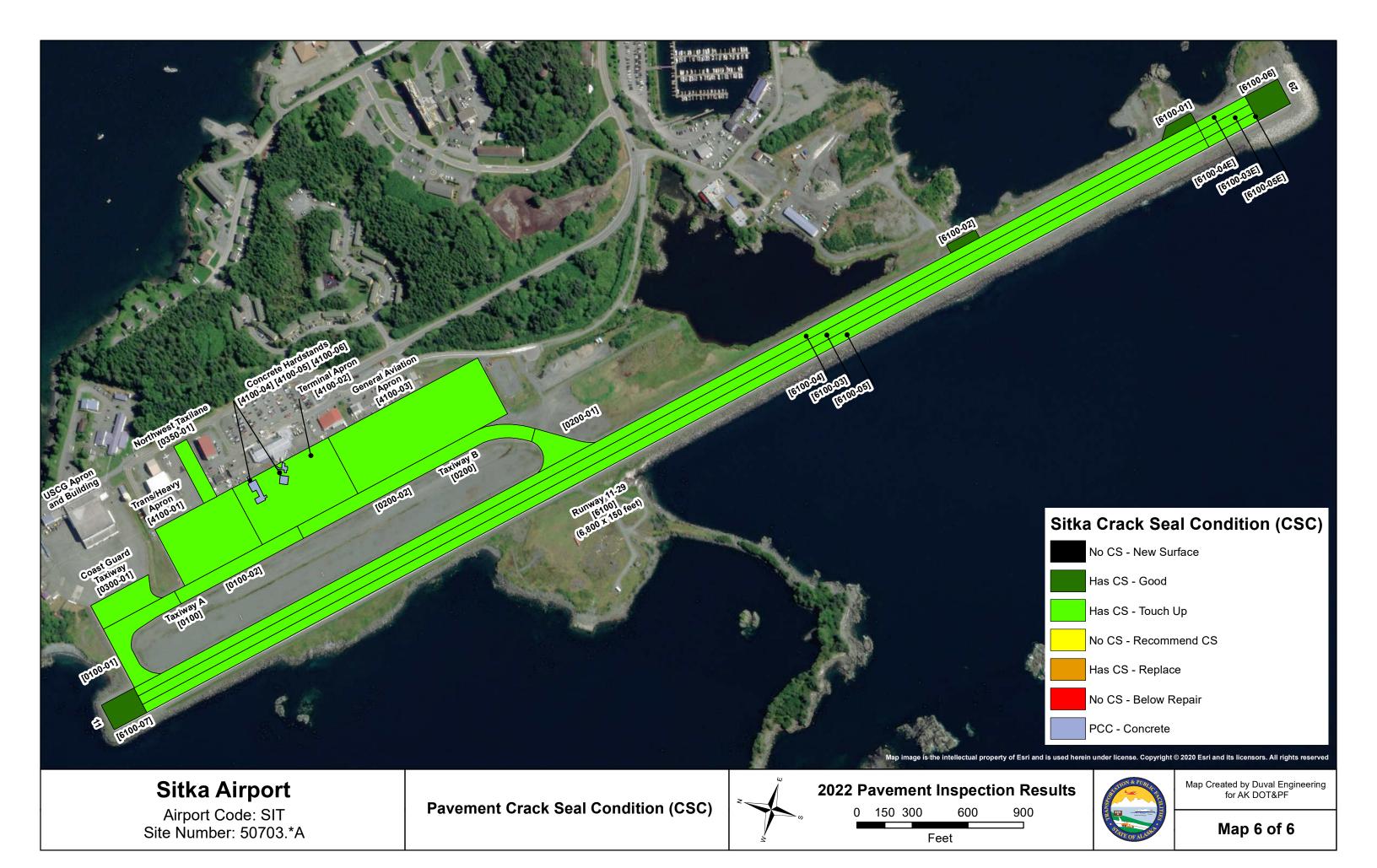


Feet



Map 4 of 6

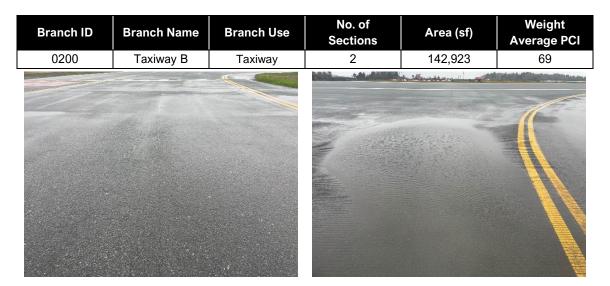




AIRPORT PAVEMENT INSPECTION NOTES BY BRANCH

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI
0100	0100 Taxiway A Taxiway		2	119,474	64

Taxiway A was constructed in 1983 and reconstructed of with four inches of AC in 2000. Section 2 received a 1.5-inch mill and overlay in 2008. Section 01 has a PCI of 53 while Section 2 has a PCI of 77. The most common distresses observed are low severity alligator cracking, low severity longitudinal and transverse cracking, low to medium to high severity raveling, and low severity weathering. Field personnel observed the degradation of the longitudinal joints, causing cracking and raveling. We also observed the development of alligator cracking on the taxiway where it joins Runway 11-29.



Taxiway B was constructed in 1983 and received a 2-inch overlay in 2000. Section 1 received a 3.5-inch overlay in 2012 and has a PCI of 88. Section 2 has a PCI of 62. The most common distresses observed are low severity alligator cracking, low to medium severity depression, low severity longitudinal and transverse cracking, low to medium to high severity raveling, and low severity weathering. Degradation of the longitudinal joints is causing cracking and raveling. We observed alligator cracking in one sample unit on the taxiway. Large depressions with standing water were observed on the south end of the taxiway near the shoulder.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI
0300	Coast Guard TW	Taxiway	1	48,870	76

The Coast Guard Taxiway was constructed in 2000 and has not received any major work since. The most common distresses observed are low severity depression, low severity longitudinal and transverse cracking, low to medium severity raveling, and low severity weathering. Field observations include the development of widespread dimpling across the taxiway leading to areas of standing water. Most of the dimples contained less than ½-inch of standing water and thus the distress was not recorded (per ASTM D5340).

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI			
0350	Northwest Taxi Lane	Taxiway	1	28,000	73			





The Northwest Taxi Lane was constructed in 2002 and has not received any major work since. The most common distresses observed are low to medium severity depression, low severity longitudinal and transverse cracking, and low severity raveling. Field observations include the degradation of the paving joints causing longitudinal cracking and raveling. In addition, we observed a number of large areas of depressions, as evidenced by significant areas of standing water.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI				
4100	Apron	Apron	6	678,678	82				
AC Soctions	AC Sections 4400 04 (75 DCI) / 4400 02 (70 DCI) / 4400 02 (90 DCI)								





The main apron consists of six sections, three constructed of AC and three constructed of PCC. The three AC sections were constructed in 1983 received a 2-inch overlay in 2000. The most common distresses observed are low severity depression, low severity longitudinal and transverse cracking, low to medium severity raveling, and low severity weathering. Degradation of the paving joints is causing longitudinal cracking and raveling to develop. Widespread dimpling was observed across the apron, leading to large areas of standing water. Standing water was measured to be less than 1/2-inch deep, thus the distress was not recorded (per ASTM D5340).

PCC Sections 4100-04 (5 PCI) / 4100-05 (28 PCI) / 4100-06 (79 PCI)





The three PCC sections consist of three separate hardstands. Section 4 was constructed in 1983 and Sections 5 and 6 were constructed in 2012. No major work has been conducted on these PCC sections. The most common distresses observed are medium to high severity joint and corner spalling, low to high severity scaling, and high severity joint seal damage. The concrete is showing its age at nearly 40 years old with numerous high severity distresses.

Branch ID	Branch Name	Branch Use	No. of Sections	Area (sf)	Weight Average PCI				
6100	Runway 11-29	Runway	10	1,099,381	91				



Runway 11/29 was constructed in 1984 at a length of 6,500 ft. In 2011 the runway was lengthened to 6,800 ft. The most recent rehabilitation was a thin overlay in 2012. The most common distresses observed are low severity longitudinal and transverse cracking, low to medium severity raveling, and low severity weathering. We observed an increased loss of the fine aggregate which is exposing the coarse aggregate (weathering). In some areas the distress has progressed to the loss of coarse aggregate (raveling). The west side of the runway has been damaged by waves resulting from the deterioration of the sea wall. Patching has been performed to mitigate the wave damage.

BRANCH CONDITION REPORT

Branch ID	No. of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (Sq Ft)	Use	Average PCI	Standard Deviation PCI	Weighted Average PCI
0100	2	1,420	77	119,474	TAXIWAY	65.00	12.00	64.31
0200	2	1,620	75	142,923	TAXIWAY	75.00	13.00	68.99
0300	1	145	332	48,870	TAXIWAY	76.00	0.00	76.00
0350	1	350	80	28,000	TAXIWAY	73.00	0.00	73.00
4100	6	2,182	193	678,678	APRON	59.00	31.08	82.06
6100	10	21,184	71	1,099,381	RUNWAY	91.10	3.75	90.61

Note: the dimensions in the Branch Condition Report are derived from area calculations and may not reflect actual dimensions of individual sections. Refer to the maps for actual section dimensions.

BRANCH USE CONDITION REPORT

Use Category	No. of Sections	Total Area (Sq Ft)	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
APRON	6	678,678	59.00	31.08	82.06
RUNWAY	10	1,099,381	91.10	3.75	90.61
TAXIWAY	6	339,267	71.50	11.24	68.68
ALL 22		2,117,326	77.00	22.16	84.36

SECTION CONDITION REPORT

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	True Area (Sq Ft)	Last Inspectio n Date	Age At Inspection	PCI
0100	0100-01	9/1/2000	AC	TAXIWAY	Р	63,175.00	10/19/2022	22	53
0100	0100-02	6/1/2008	AAC	TAXIWAY	Р	56,299.00	10/19/2022	14	77
0200	0200-01	6/2/2012	AAC	TAXIWAY	Р	38,413.00	10/19/2022	10	88
0200	0200-02	9/1/2000	AC	TAXIWAY	Р	104,510.00	10/19/2022	22	62
0300	0300-01	8/1/2000	AC	TAXIWAY	Р	48,870.00	10/19/2022	22	76
0350	0350-01	10/1/2002	AC	TAXIWAY	Р	28,000.00	10/19/2022	20	73
4100	4100-01	9/1/2000	AAC	APRON	Р	163,315.00	10/19/2022	22	75
4100	4100-02	9/1/2000	AAC	APRON	Р	192,530.00	10/19/2022	22	78
4100	4100-03	9/1/2000	AAC	APRON	Р	313,950.00	10/19/2022	22	89
4100	4100-04	9/1/1983	PCC	APRON	Р	2,025.00	10/19/2022	39	5
4100	4100-05	9/1/2012	PCC	APRON	Р	1,370.00	10/19/2022	10	28
4100	4100-06	9/1/2012	PCC	APRON	Р	5,488.00	10/19/2022	10	79
6100	6100-01	9/1/2012	AAC	RUNWAY	Р	10,631.00	10/19/2022	10	93
6100	6100-02	9/1/2012	AAC	RUNWAY	Р	8,750.00	10/19/2022	10	91
6100	6100-03	9/1/2012	AAC	RUNWAY	Р	325,000.01	10/19/2022	10	88
6100	6100-03E	9/1/2011	AC	RUNWAY	Р	15,000.00	10/19/2022	11	95
6100	6100-04	9/1/2012	AAC	RUNWAY	Р	325,000.01	10/19/2022	10	91
6100	6100-04E	9/1/2011	AC	RUNWAY	Р	15,000.00	10/19/2022	11	90
6100	6100-05	9/1/2012	AAC	RUNWAY	Р	325,000.01	10/19/2022	10	93
6100	6100-05E	9/1/2011	AC	RUNWAY	Р	15,000.00	10/19/2022	11	96
6100	6100-06	9/1/2011	AC	RUNWAY	Р	30,000.00	10/19/2022	11	92
6100	6100-07	9/1/2012	AAC	RUNWAY	Р	30,000.00	10/19/2022	10	82

SECTION CONDITION REPORT (SUMMARY BY AGE CATEGORY)

Age Category	Average Age at Inspection	Total Area (Sq Ft)	Number of Sections	Arithmetic Average PCI	Standard Deviation PCI	Weighted Average PCI
06-10	10	1,069,652	9	81.44	19.43	90.21
11-15	11.6	131,299	5	90.00	6.84	86.14
16-20	20	28,000	1	73.00	0.00	73.00
21-25	22	886,350	6	72.17	11.62	77.56
36-40	39	2,025	1	5.00	0.00	5.00
ALL	15	2,117,326	22	77.00	22.16	84.36

Pavement Database: Alaska

Network:	Sitka Rock	xy Gutierrez Branch: 0100	Taxiwa	av A	Section:	0100-01 Surface:AC			
L.C.D. 9/1/20				•		0 (Ft) True Area: 63175.00001 (SqFt			
L.C.D. 9/1/20		C. TAMWAT KAIK, F L	lengin. 070	. ,		(Ft) True Area: 03175.00001 (SqFt			
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments			
9/1/2000	CR-AC	Complete Reconstruction - AC	0.00	4.00	V	Realined and relocated, (Funded via A			
9/1/1983	NU-IN	New Construction - Initial	0.00	2.00		(Funded via AIP)			
	7.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1								
Notwork	Network: Sitka Rocky Gutierrez Branch: 0100 Taxiway A Section: 0100-02 Surface: AAC								
				•		~~~~			
L.C.D. 6/1/20		se: TAXIWAY Rank: P L	ength: 750	` '		0 (Ft) True Area: 56299.00001 (SqFt			
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments			
6/1/2008	SR-AC	Surface Reconstruction - AC	0.00	1.50	V	mill and overlay, (Funded via AIP)			
9/1/2000	CR-AC	Complete Reconstruction - AC	0.00	4.00		Realigned and relocated, (Funded via			
9/1/1983	NU-IN	New Construction - Initial	0.00	2.00		(Funded via AIP)			
7/1/1703	TO III	New Construction Initial	0.00	2.00	<u> </u>	(I dilded via 1111)			
Not	Citles D = 1	Cutiomor Durant. 0200	т'	av. D	Continu	0200-01 Surface: AAC			
		xy Gutierrez Branch: 0200	Taxiwa		Section:				
L.C.D. 6/2/2		se: TAXIWAY Rank: P L	ength: 220	. ,		0 (Ft) True Area: 38413.00001 (SqFt			
Work Date	Work Code	Work Description	Cost	Thickness	Major M&R	Comments			
6/2/2012	OL-AS	Overlay - AC Structural	0.00	(in) 3.50	VICK	(Funded via AIP)			
9/1/2000	OL-AS	Overlay - AC Structural	0.00	2.00		(Funded via AIP)			
9/1/1983	NU-IN	New Construction - Initial	0.00	3.00		est. thickness, (Funded via AIP)			
9/1/1963	NO-IN	New Construction - Initial	0.00	3.00	V .	est. tillekliess, (Fullded via AIF)			
NI 4	C'4 D 1	G d	т :	D	G	0200.02			
		ty Gutierrez Branch: 0200	Taxiw	•	Section:				
L.C.D. 9/1/20	000 Us	se: TAXIWAY Rank: P L	ength: 1,400	.00 (Ft) Wid	dth: 75.0	0 (Ft) True Area: 104510.0000 (SqFt			
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments			
9/1/2000	NC-AC	New Construction - AC	0.00	2.00	Wick	(Funded via AIP)			
9/1/1983	NU-IN	New Construction - Initial	0.00	3.00		(Funded via AIP)			
<i>y,</i> 1, 1, 00	1,0 11,	Trow comparation initial	0.00	5.00	<u> </u>	(Tanada (Tanah)			
Notario alla	C:41 D1	xy Gutierrez Branch: 0300	C4	Guard TW	Section:	0300-01 Surface:AC			
L.C.D. 8/1/20		se: TAXIWAY Rank: P L	ength: 145	. ,		0 (Ft) True Area: 48870.00001 (SqFt			
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments			
8/1/2000	NU-IN	New Construction - Initial	0.00	2.00	VICK	(Funded via AIP)			
0/1/2000	110 111	Thew construction initial	0.00	2.00		(runded via riii)			
Not-moules	C:41 D1	Duran de 0250	N41	4 T:1	Castiana	0250 01			
		xy Gutierrez Branch: 0350		vest Taxilan	Section:				
L.C.D. 10/1/2		se: TAXIWAY Rank: P L	ength: 350	. ,		0 (Ft) True Area: 28000.00000 (SqFt			
Work Date	Work	Work Description	Cost	Thickness	Major	Comments			
10/1/2002	Code NU-IN	New Construction - Initial	0.00	(in) 2.00	M&R	(Funded via AIP)			
10/1/2002	INU-IIN	New Construction - Illitial	0.00	2.00	V	(I unded via Air)			
3 7	ara s				a :•	4100.01			
		ty Gutierrez Branch: 4100	Apron		Section:				
L.C.D. 9/1/20	000 Us	se: APRON Rank: P L	ength: 470	.00 (Ft) Wie	dth: 345.0	0 (Ft) True Area: 163315.0000 (SqFt			
Work Date	Work	Work Description	Cost	Thickness	Major	Comments			
	Code			(in)	M&R				
9/1/2000	SR-AC	Surface Reconstruction - AC	0.00	2.00	~	some overlay, some new -split, (Funde			
9/1/1983	NU-IN	New Construction - Initial	0.00	0.00		(Funded via AIP)			

Pavement Database: Alaska

Network:	Sitka Rock	xy Gutierrez Branch: 4100	Apron		Section:	4100-02 Surface: AAC
L.C.D. 9/1/2	000 Us	se: APRON Rank: P	Length: 585	5.00 (Ft) Wi	dth: 345.0	00 (Ft) True Area: 192530.0000 (SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/2000	OL-AS	Overlay - AC Structural	0.00	2.00	V	(Funded via AIP)
9/1/1983	NU-IN	New Construction - Initial	0.00	0.00		(Funded via AIP)
		xy Gutierrez Branch: 4100	Apron		Section:	
L.C.D. 9/1/2		se: APRON Rank: P	Length: 910	. ,		0 (Ft) True Area: 313950.0039 (SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/2000	OL-AS	Overlay - AC Structural	0.00	2.00	V	(Funded via AIP)
9/1/1983	NU-IN	New Construction - Initial	0.00	0.00	>	(Funded via AIP)
		cy Gutierrez Branch: 4100	Apron		Section:	
L.C.D. 9/1/1		se: APRON Rank: P	Length: 45			0 (Ft) True Area: 2025.000000 (SqF
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments
9/1/2000	PA-PP	Patching - PCC Partial Depth	0.00	4.00		check material PCC or AC?, (Funded
9/1/1983	NU-IN	New Construction - Initial	0.00	0.00		(Funded via AIP)
Network:	Sitka Rock	ky Gutierrez Branch: 4100	Apron		Section:	4100-05 Surface:PCC
L.C.D. 9/1/2	012 Us	se: APRON Rank: P	Length: 50	0.00 (Ft) Wi	J41. 20 0	0 (E) JE 1270 000000 (C E
		tunk, i	Ecingui. 30	.00 (Ft) vv I	dth: 30.0	0 (Ft) True Area: 1370.000000 (SqF
Work Date	Work Code	Work Description	Cost	Thickness	Major	Comments
	Work Code NU-IN					
Work Date	Code	Work Description	Cost	Thickness (in)	Major M&R	
Work Date 9/1/2012	Code NU-IN	Work Description	Cost	Thickness (in)	Major M&R	Comments
Work Date 9/1/2012	Code NU-IN Sitka Rock	Work Description New Construction - Initial xy Gutierrez Branch: 4100	Cost 0.00	Thickness (in)	Major M&R	Comments
Work Date 9/1/2012 Network:	Code NU-IN Sitka Rock 012 Us Work	Work Description New Construction - Initial xy Gutierrez Branch: 4100	Cost 0.00	Thickness (in) 0.00 0.00 (Ft) Wi	Major M&R Section: dth: 48.0	Comments 4100-06 Surface:PCC
Work Date 9/1/2012 Network: L.C.D. 9/1/2	Code NU-IN Sitka Rock	Work Description New Construction - Initial xy Gutierrez Branch: 4100 se: APRON Rank: P	Cost 0.00 Apron Length: 122	Thickness (in) 0.00	Major M&R Section: dth: 48.0 Major M&R	Comments 4100-06 Surface:PCC 0 (Ft) True Area: 5488.000001 (SqF
Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date	Code NU-IN Sitka Rock 012 Us Work Code	Work Description New Construction - Initial Exy Gutierrez Branch: 4100 se: APRON Rank: P Work Description	Cost Apron Length: 122 Cost	Thickness (in) 0.00 0.00 (Ft) Wi Thickness (in)	Major M&R Section: dth: 48.0	Comments 4100-06 Surface:PCC 0 (Ft) True Area: 5488.000001 (SqF
Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date 9/1/2012	Code NU-IN Sitka Rock 012 Us Work Code NU-IN	Work Description New Construction - Initial Exy Gutierrez Branch: 4100 se: APRON Rank: P Work Description	Cost Apron Length: 122 Cost	Thickness (in) 0.00 0.00 (Ft) Wi Thickness (in)	Major M&R Section: dth: 48.0 Major M&R	Comments 4100-06 Surface:PCC 0 (Ft) True Area: 5488.000001 (SqF
Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date 9/1/2012	Code NU-IN Sitka Rock 012 U: Work Code NU-IN	Work Description New Construction - Initial Ray Gutierrez Branch: 4100 See: APRON Rank: P Work Description New Construction - Initial Ray Gutierrez Branch: 6100	Cost Apron Length: 122 Cost 0.00	Thickness (in) 0.00 C.00 (Ft) Wi Thickness (in) 0.00	Major M&R Section: dth: 48.0 Major M&R Section:	Comments 4100-06 Surface:PCC 0 (Ft) True Area: 5488.000001 (SqF
Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date 9/1/2012 Network:	Code NU-IN Sitka Rock 012 U: Work Code NU-IN	Work Description New Construction - Initial Ray Gutierrez Branch: 4100 See: APRON Rank: P Work Description New Construction - Initial Ray Gutierrez Branch: 6100	Cost Apron Length: 122 Cost 0.00 11/29	Thickness (in) 0.00 C.00 (Ft) Wi Thickness (in) 0.00	Major M&R Section: dth: 48.0 Major M&R Section:	Comments 4100-06 Surface:PCC 0 (Ft) True Area: 5488.000001 (SqF Comments 6100-01 Surface:AAC
Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date 9/1/2012 Network: L.C.D. 9/1/2	Code NU-IN Sitka Rock 012 Us Work Code NU-IN Sitka Rock 012 Us Work	Work Description New Construction - Initial Exy Gutierrez Branch: 4100 See: APRON Rank: P Work Description New Construction - Initial Exy Gutierrez Branch: 6100 See: RUNWAY Rank: P	Cost Apron Length: 122 Cost 0.00 11/29 Length: 209	Thickness (in) 0.00 C.00 (Ft) Wi Thickness (in) 0.00 0.00 (Ft) Wi Thickness	Major M&R Section: dth: 48.0 Major M&R Section: dth: 59.0 Major	Comments 4100-06 Surface:PCC 10 (Ft) True Area: 5488.000001 (SqF) Comments 6100-01 Surface:AAC 10 (Ft) True Area: 10631.00000 (SqF)
Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date	Code NU-IN Sitka Rock 012 Us Work Code NU-IN Sitka Rock 012 Us Work Code	Work Description New Construction - Initial Exy Gutierrez Branch: 4100 See: APRON Rank: P Work Description New Construction - Initial Exy Gutierrez Branch: 6100 See: RUNWAY Rank: P Work Description	Cost Apron Length: 122 Cost 0.00 11/29 Length: 209 Cost	Thickness (in) 0.00 C.00 (Ft) Wi Thickness (in) 0.00 C.00 (Ft) Wi Thickness (in)	Major M&R Section: dth: 48.0 Major M&R Section: dth: 59.0 Major M&R	Comments 4100-06 Surface:PCC 0 (Ft) True Area: 5488.000001 (SqF Comments 6100-01 Surface:AAC 0 (Ft) True Area: 10631.00000 (SqF Comments
Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date 9/1/2012 9/1/1984	Sitka Rock 012 Us Work Code NU-IN Sitka Rock 012 Us Work Code OL-AT NU-IN	Work Description New Construction - Initial Rey Gutierrez Branch: 4100 See: APRON Rank: P Work Description New Construction - Initial Rey Gutierrez Branch: 6100 See: RUNWAY Rank: P Work Description Overlay - AC Thin New Construction - Initial	Cost Apron Length: 122 Cost 0.00 11/29 Length: 209 Cost 0.00 0.00	Thickness (in) 0.00 (Ft) Wi Thickness (in) 0.00 (Ft) Wi Thickness (in) 0.00 (Oo (Ft) Wi	Major M&R Section: dth: 48.0 Major M&R Section: dth: 59.0 Major M&R	Comments 4100-06 Surface:PCC 0 (Ft) True Area: 5488.000001 (SqF Comments 6100-01 Surface:AAC 0 (Ft) True Area: 10631.00000 (SqF Comments (Funded via AIP) (Funded via AIP)
Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date 9/1/2012 9/1/2012 9/1/1984 Network:	Code NU-IN Sitka Rock 012 Us Work Code NU-IN Sitka Rock 012 Us Work Code OL-AT NU-IN	Work Description New Construction - Initial Exy Gutierrez Branch: 4100 See: APRON Rank: P Work Description New Construction - Initial Exy Gutierrez Branch: 6100 See: RUNWAY Rank: P Work Description Overlay - AC Thin New Construction - Initial Exy Gutierrez Branch: 6100	Cost Apron Length: 122 Cost 0.00 11/29 Length: 209 Cost 0.00 0.00 11/29	Thickness (in) 0.00 Thickness (in) 0.00 0.00 (Ft) Wi Thickness (in) 0.00 Thickness (in) 0.00	Major M&R Section: 48.0 Major M&R V Section: dth: 59.0 Major M&R V Section: Section:	Comments
Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date 9/1/2012 9/1/2012 9/1/1984	Code NU-IN Sitka Rock 012 Us Work Code NU-IN Sitka Rock 012 Us Work Code OL-AT NU-IN Sitka Rock 012 Us	Work Description New Construction - Initial Exy Gutierrez Branch: 4100 See: APRON Rank: P Work Description New Construction - Initial Exy Gutierrez Branch: 6100 See: RUNWAY Rank: P Work Description Overlay - AC Thin New Construction - Initial Exy Gutierrez Branch: 6100	Cost Apron Length: 122 Cost 0.00 11/29 Length: 209 Cost 0.00 0.00 11/29	Thickness (in) 0.00 Thickness (in) 0.00 0.00 (Ft) Wi Thickness (in) 0.00 0.00 (Ft) Wi	Major M&R Section: dth: 48.0 Major M&R Section: dth: 59.0 Major M&R Section: dth: 59.0	Comments 4100-06 Surface:PCC 0 (Ft) True Area: 5488.000001 (SqF Comments 6100-01 Surface:AAC 0 (Ft) True Area: 10631.00000 (SqF Comments (Funded via AIP) (Funded via AIP)
Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date 9/1/2012 9/1/2012 9/1/1984 Network:	Sitka Rock 012 Us Work Code NU-IN Sitka Rock 012 Us Work Code OL-AT NU-IN Sitka Rock 012 Us Work Code OL-AT NU-IN	Work Description New Construction - Initial Exy Gutierrez Branch: 4100 See: APRON Rank: P Work Description New Construction - Initial Exy Gutierrez Branch: 6100 See: RUNWAY Rank: P Work Description Overlay - AC Thin New Construction - Initial Exy Gutierrez Branch: 6100	Cost Apron Length: 122 Cost 0.00 11/29 Length: 209 Cost 0.00 0.00 11/29	Thickness (in) 0.00 Thickness (in) 0.00 0.00 (Ft) Wi Thickness (in) 0.00 Thickness (in) 0.00	Major M&R Section: 48.0 Major M&R V Section: dth: 59.0 Major M&R V Section: Section:	Comments
Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date 9/1/2012 Network: L.C.D. 9/1/2 Work Date 9/1/2012 9/1/2012 9/1/1984 Network: L.C.D. 9/1/2	Code NU-IN Sitka Rock 012 Us Work Code NU-IN Sitka Rock 012 Us Work Code OL-AT NU-IN Sitka Rock 012 Us	Work Description New Construction - Initial Exy Gutierrez Branch: 4100 See: APRON Rank: P Work Description New Construction - Initial Exy Gutierrez Branch: 6100 See: RUNWAY Rank: P Work Description Overlay - AC Thin New Construction - Initial Exy Gutierrez Branch: 6100 See: RUNWAY Rank: P	Cost Apron Length: 122 Cost 0.00 11/29 Length: 209 Cost 0.00 0.00 11/29 Length: 175	Thickness (in) 0.00 Thickness (in) 0.00 0.00 (Ft) Wi Thickness (in) 0.00 0.00 (Ft) Wi Thickness (in) 0.00 0.00 (Ft) Wi Thickness (in) 0.00 0.00 (Ft) Wi	Major M&R Section: dth: 48.0 Major M&R Section: dth: 59.0 Major M&R Section: dth: 59.0 Major M&R	Comments 4100-06 Surface:PCC 0 (Ft) True Area: 5488.000001 (SqF Comments 6100-01 Surface:AAC 0 (Ft) True Area: 10631.00000 (SqF Comments (Funded via AIP) (Funded via AIP) 6100-02 Surface:AAC 0 (Ft) True Area: 8750.000218 (SqF

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Pavement Database: Alaska

Network:	Sitka Rock	ry Gutierrez Branch: 6100	11/29		Section:	6100-03 Surface:AAC	
L.C.D. 9/1/20		•	ength: 6,500	00 (Ft) Wi		0 (Ft) True Area: 325000.0081 (SqFt	
E.C.D. 7/1/2	Work	C. KONWAT Kank. T	0,500	Thickness	Major	(1t) True Area. 323000.0001 (Sqft	
Work Date	Code	Work Description	Cost	(in)	M&R	Comments	
9/1/2012	OL-AT	Overlay - AC Thin	0.00	0.00	V	(Funded via AIP)	
9/1/1984	NU-IN	New Construction - Initial	0.00	0.00		(Funded via AIP)	
			I				
Network:	Sitka Rock	ry Gutierrez Branch: 6100	11/29		Section:	6100-03E Surface:AC	
L.C.D. 9/1/20	011 Us	se: RUNWAY Rank: P L	ength: 300	.00 (Ft) Wie	dth: 50.0	0 (Ft) True Area: 15000.00000 (SqFt	
Work Date	Work	Work Description	Cost	Thickness	Major	Comments	
	Code	•		(in)	M&R	Comments	
9/1/2011	NU-IN	New Construction - Initial	0.00	0.00	V		
		ry Gutierrez Branch: 6100	11/29		Section:		
L.C.D. 9/1/20		se: RUNWAY Rank: P L	ength: 6,500			0 (Ft) True Area: 325000.0081 (SqFt	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
9/1/2012	OL-AT	Overlay - AC Thin	0.00	0.00	Wax ✓	(Funded via AIP)	
9/1/1984	NU-IN	New Construction - Initial	0.00	0.00		(Funded via AIP)	
37171301	1,0 11,	Trow Consulation Initial	0.00	0.00		(1 411474 (141111)	
Network:	Sitka Rock	ty Gutierrez Branch: 6100	11/29		Section:	6100-04E Surface:AC	
L.C.D. 9/1/20		•		.00 (Ft) Wie		0 (Ft) True Area: 15000.00000 (SqFt	
L.C.D. 9/1/20	Work	C. KUNWAI Kalik, I L	300 	Thickness	Major	(Sqrt	
Work Date	Code	Work Description	Cost	(in)	M&R	Comments	
9/1/2011	NU-IN	New Construction - Initial	0.00	0.00	~		
		1	•				
Network:	Sitka Rock	ry Gutierrez Branch: 6100	11/29		Section:	6100-05 Surface: AAC	
L.C.D. 9/1/20	012 Us	se: RUNWAY Rank: P L	ength: 6,500	.00 (Ft) Wie	dth: 50.0	0 (Ft) True Area: 325000.0081 (SqFt	
Work Date	Work	Work Description	Cost	Thickness	Major	Comments	
	Code	•		(in)	M&R		
9/1/2012	OL-AT PA-AD	Overlay - AC Thin Patching - AC Deep	0.00	0.00 4.00		(Funded via AIP) (Funded via AIP)	
9/1/2000 9/1/1984	NU-IN	New Construction - Initial	0.00	0.00		(Funded via AIP)	
9/1/1904	INU-IIN	New Construction - Initial	0.00	0.00	<u> </u>	(Funded via Air)	
No desconde	C:41 D1-	Donale (100	11/20		Castian	C100.05E Sunface.AC	
		ry Gutierrez Branch: 6100	11/29	00 (E)		6100-05E Surface: AC	
L.C.D. 9/1/20		se: RUNWAY Rank: P L	ength: 300	. ,		0 (Ft) True Area: 15000.00000 (SqFt	
Work Date	Work Code	Work Description	Cost	Thickness (in)	Major M&R	Comments	
9/1/2011	NU-IN	New Construction - Initial	0.00	0.00	V		
Network:	Network: Sitka Rocky Gutierrez Branch: 6100 11/29 Section: 6100-06 Surface:AC						
L.C.D. 9/1/20		•		.00 (Ft) Wi o		0 (Ft) True Area: 30000.00000 (SqFt	
	Work		I	Thickness	Major		
Work Date	Code	Work Description	Cost	(in)	M&R	Comments	
9/1/2011	NU-IN	New Construction - Initial	0.00	0.00	V		

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Pavement Database: Alaska

Network:	Sitka Rock	y Gutierrez	Branch: 6100	11/29		Section:	6100-07	Surface:AAC
L.C.D. 9/1/20	012 Us	se: RUNWAY	Rank: P L	ength: 200	.00 (Ft) Wi	dth: 150.0	0 (Ft) True Area:	30000.00000 (SqFt
Work Date	Work Code	Work D	escription	Cost	Thickness (in)	Major M&R	Comr	nents
9/1/2012	OL-AT	Overlay - AC	Γhin	0.00	0.00	V	(Funded via AIP)	
9/1/1984	NU-IN	New Construct	ion - Initial	0.00	0.00		(Funded via AIP)	

Pavement Database: Alaska

Summary:

Work Description	Section Count	Area Total (SqFt)	Thickness Avg (in)	Thickness STD (in)
Complete Reconstruction - AC	2	119,474.00	4.00	0.00
New Construction - AC	1	104,510.00	2.00	0.00
New Construction - Initial	22	2,117,326.03	0.64	1.07
Overlay - AC Structural	4	583,306.00	2.37	0.65
Overlay - AC Thin	6	1,024,381.02	0.00	0.00
Patching - AC Deep	1	325,000.01	4.00	0.00
Patching - PCC Partial Depth	1	2,025.00	4.00	0.00
Surface Reconstruction - AC	2	219,614.00	1.75	0.25

PHYSICAL PROPERTY DATA

		Pave	ement	Ва	ıse	Sub	base	Subg	rade
Branch ID	Section ID	Thick (in)	Туре	Thick (in)	Туре	Thick (in)	Туре	Туре	CBR
Taxiway A	0100-01	4.0 3.0	P-401 P-401	4	P-209	6	P-154	GP	12
0100	0100-02	4.0 3.0	P-401 P-401	4	P-209	6	P-154	GP	12
Taxiway B	0200-01	4.0 3.0	P-401 P-401	4	P-209	6	P-154	GP	12
0200	0200-02	4.0 3.0	P-401 P-401	4	P-209	6	P-154	GP	12
Coast Guard Taxiway 0300	0300-01	4.0 3.0	P-401 P-401	4	P-209	6	P-154	GP	12
NW Taxilane 0350	0350-01	3.0 4.0	P-401 P-401	12	P-209	-	-	GP	12
	4100-01	4.0 3.0	P-401 P-401	4	P-209	6	P-154	GP	12
	4100-02	4.0 3.0	P-401 P-401	4	P-209	6	P-154	GP	12
Parking Apron	4100-03	4.0 3.0	P-401 P-401	4	P-209	6	P-154	GP	12
4100	4100-04	UNK	PCC	UNK	UNK	UNK	UNK	UNK	UNK
	4100-05	UNK	PCC	UNK	UNK	UNK	UNK	UNK	UNK
	4100-06	UNK	PCC	UNK	UNK	UNK	UNK	UNK	UNK

		Pave	ement	Ва	ase	Sub	base	Subg	rade
Branch ID	Section ID	Thick (in)	Туре	Thick (in)	Туре	Thick (in)	Туре	Туре	CBR
	6100-01	7.0	P-401	6	P-209	6	P-154	GP	12
	6100-02	7.0	P-401	6	P-209	6	P-154	GP	12
	6100-03	7.0	P-401	6	P-209	6	P-154	GP	12
	6100-04	7.0	P-401	6	P-209	6	P-154	GP	12
Runway 11-29	6100-05	7.0	P-401	6	P-209	6	P-154	GP	12
6100	6100-03E	7.5	P-401	8	P-209	24	P-154	GP	12
	6100-04E	7.5	P-401	8	P-209	24	P-154	GP	12
	6100-05E	7.5	P-401	8	P-209	24	P-154	GP	12
	6100-06	7.5	P-401	9	P-209	24	P-154	GP	12
	6100-07	7.5	P-401	8	P-209	6	P-154	GP	12

AIRCRAFT FLEET MIX

No.	Aircraft	Gross Wt (lb)	% Gross Wt on Main Gear	Tire Pressure (psi)	Annual Departures	20 Yr Coverages
1	S-3	1,800	95.00	30	275	832
2	Cessna 206 Stationair	3,612	95.00	52	90	312
3	S-5	5,100	95.00	51	99	369
4	PA-32-300	3,400	95.00	50	15	52
5	S-15	17,637	95.00	59	4	21
6	Cessna 208B	8,750	95.00	75	962	3,745
7	S-10	10,450	95.00	52	1,798	8,039
8	PA-31-325 Navajo C/R	6,536	95.00	66	1,059	3,962
9	D-15	17,120	95.00	63	851	6,041
10	Beech King Air B200	12,590	95.00	98	2	13
11	Saab 340B	29,000	95.00	55	2	17
12	D-50	50,706	95.00	81	324	3,127
13	D-100	99,500	95.00	139	2	20
14	Q100/Dash 8	34,700	94.40	131	6	46
15	Learjet 35/36/35A/36A	21,500	95.00	204	6	40
16	CRJ700	73,000	95.00	142	212	1,880
17	B737-300	140,000	90.80	201	2	18
18	B737-400	150,500	93.80	185	1,563	15,118
19	B737-7 MAX	177,500	93.60	204	1,352	12,973
20	CRJ900	85,000	95.00	162	40	357
21	EMB-175 STD	83,026	95.00	136	180	1,634
22	B737-800	174,700	93.60	204	896	8,555
23	B737-900	174,700	94.60	204	25	240
24	B737-900 ER	188,200	94.60	220	99	948
25	C-130	155,000	95.00	105	9	119
26	C-17A	585,000	95.00	138	5	120

PAVEMENT CLASSIFICATION RATING

Runway	Critical Aircraft	Max Allowable Wt (lb)	Subgrade Mr (psi)	Evaluation Thickness (in)	Pass to Traffic Cycle Ratio	PCR
11-29	B737-900ER	155,869	18,000	19.0	1.0	461/F/B/X/T

PCR CALCULATION NOTES

- 1% traffic growth assumed.
- SWL-2, S-5, S-10 and S-15 refer to "generic" single gear aircraft as modeled in FAARFIELD.
- D-15, D-20, D-50 and D-100 refer to "generic" dual gear aircraft as modeled in FAARFIELD.
- Due to satisfactory historical performance of RW 11-29 pavement in support of the aircraft listed above in the fleet mix, the PCR for RW 11-29 is determined to be the ACR of the B737-900ER, which is the critical aircraft determined by FAARFIELD analysis.

REFERENCES

Year	Project No.	Document Title
2012	3-02-0268-028, 029, 69652	Runway Overlay, As-Built
2010	3-02-0268-026-2010, 69298	RSA, As-Builts
2008	3-02-0200-052-2005, 68919	Apron, Taxiway and Runway Repairs
2008	3-02-200-060-2007, 68972	Apron, Taxiway and Runway Repairs
2001	3-02-0268-1101, 68039	Apron and Taxilane IV, As-Built
2000	3-02-0268-0799, 72200	Apron and Taxilane Reconstruction
1998	3-02-0268-02, 69612	Runway Paving
1998	72200	Geotechnical Report—Reconstruct Rd & Lease Lot Development
1981	6-02-0268-03, 81-375-01	Heavy Apron
1981		Sitka Airport Improvements, Soils Report, Airport GA Apron
1973		Geotechnical Report—Proposed Runway Extension and Quarry Site Inspection