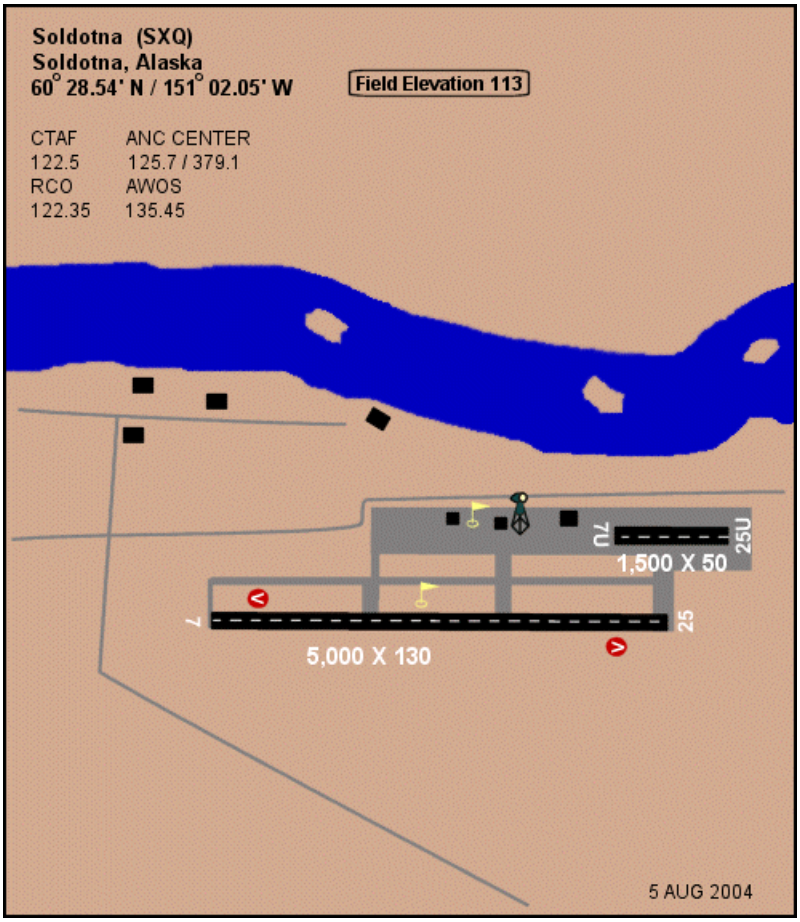
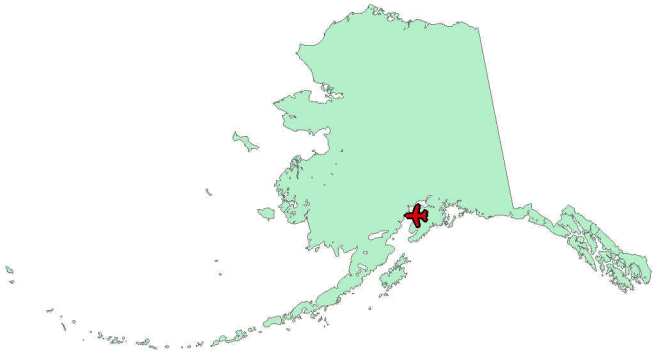


SOLDOTNA AIRPORT



2004 Alaska Airport Pavement Condition Report

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Maps and report compiled by
H. June Finkbiner
Central Region Materials, Alaska DOT&PF

SOLDOTNA AIRPORT - 2004

Contents:

- A Pavement Strength Form showing project history, latest Pavement Condition Index (PCI) data, pavement strength ratings (if available) and other useful information
- A Pavement Condition Survey – PCI Sample Unit Layout Plan
- PCI maps showing as-measured and predicted pavement conditions
- Age map showing pavement age as of January 2004
- A Branch PCI Condition Report
- A Section PCI Condition Report

Airport Information:

- Location:
  The Soldotna Airport is located in the north central part of the Kenai Peninsula near the City of Soldotna, in south central Alaska. It is owned and maintained by the City of Soldotna. This airport serves both civilian passenger and some cargo aircraft. Private aircraft are the main users of the airport.

- District: Peninsula, South Central
- Airport Manager: Steve Bonebrake
- Maintenance Manager: Doug Schoessler
- Pavement Surface: Asphalt Concrete
- Last Pavement Construction: 1996
- Pavement layout:
  Paved areas on the Soldotna Airport consist of Runway 7-25, 3 Aprons, 6 Taxiways and an Ultra-light Aircraft Runway. All hard surfaces on the Soldotna Airport are asphalt concrete.
- Design Aircraft: C-130
- 2002 Enplanements: 2,262
- Airport Class: Non-Primary
- Last pavement condition survey: 2002
- Next planned pavement condition survey: 2005
- 2004 Reported pavement maintenance and/or changed conditions: Tree and obstruction removal on the east end. A small area of Taxiway B was crack sealed using several pieces of equipment in order to assess their effectiveness and planning for the 2004 budget.
- **Recommendations:** See PCI maps. Seal cracks that are greater than ¼" wide and patch with cold mix as required to maintain serviceability.

Date: 3 /15/2003

Branch Condition Report

Pavement Database: NetworkID: Soldotna

Branch ID	Number of Sections	Sum Section Length (Ft)	Avg Section Width (Ft)	True Area (SqFt)	Use	Average PCI	PCI Standard Deviation	Weighted Average PCI
100 (Taxiway A)	1	338.00	50.00	19,046.00	TAXIWAY	71.00	0.00	71.00
200 (Taxiway B)	1	310.00	50.00	24,084.00	TAXIWAY	70.00	0.00	70.00
300 (Taxiway C)	1	510.00	50.00	32,925.00	TAXIWAY	67.00	0.00	67.00
400 (Taxiway D)	1	510.00	50.00	28,719.00	TAXIWAY	78.00	0.00	78.00
4100 (West Apron)	2	3,056.00	120.00	366,720.01	APRON	58.00	4.00	55.67
4200 (East Apron)	1	2,000.00	210.00	330,000.01	APRON	57.00	0.00	57.00
4300 (Main Apron)	2	4,175.00	391.00	1,071,000.04	APRON	57.00	18.00	52.97
500 (Parallel Taxiway)	2	4,815.00	50.00	237,050.01	TAXIWAY	42.50	20.50	36.57
600 (Apron Taxiway)	3	4,386.00	50.00	219,300.01	TAXIWAY	63.33	8.73	65.58
6100 (Runway 7-25)	1	5,019.00	130.00	652,470.02	RUNWAY	80.00	0.00	80.00
6200 (Ultra Light Aircraft R/W)	1	1,500.00	60.00	90,000.00	RUNWAY	64.00	0.00	64.00

Branch Condition Report

Pavement Database:

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average PCI STD.	Weighted Average PCI
APRON	5	1,767,720.06	57.40	11.67	54.28
RUNWAY	2	742,470.02	72.00	8.00	78.06
TAXIWAY	9	561,124.01	62.33	15.85	54.42
All	16	3,071,314.09	62.00	14.53	60.05

Date: 3 /15/2003

Section Condition Report

Pavement Database: *NetworkID: Soldotna*

Branch ID	Section ID	Last Const. Date	Surface	Use	Rank	Lanes	True Area (SqFt)	Last Inspection Date	Age At Inspection	PCI
100 (Taxiway A)	100-01	08/01/1996	AAC	TAXIWAY	P	0	19,046.00	06/12/2002	6	71.00
200 (Taxiway B)	200-01	08/01/1996	AAC	TAXIWAY	P	0	24,084.00	06/12/2002	6	70.00
300 (Taxiway C)	300-01	08/01/1996	AAC	TAXIWAY	P	0	32,925.00	06/12/2002	6	67.00
400 (Taxiway D)	400-01	08/01/1996	AAC	TAXIWAY	P	0	28,719.00	06/12/2002	6	78.00
4100 (West Apron)	4100-01	08/01/1996	AAC	APRON	T	0	76,400.00	06/12/2002	6	62.00
4100 (West Apron)	4100-02	09/01/1980	AC	APRON	T	0	290,320.01	06/12/2002	22	54.00
4200 (East Apron)	4200-01	09/01/1985	AC	APRON	T	0	330,000.01	06/12/2002	17	57.00
4300 (Main Apron)	4300-01	09/01/1996	AC	APRON	P	0	415,554.01	06/12/2002	6	75.00
4300 (Main Apron)	4300-02	09/01/1985	AC	APRON	P	0	655,446.03	06/12/2002	17	39.00
500 (Parallel Taxiway)	500-01	08/01/1996	AAC	TAXIWAY	S	0	84,250.00	06/12/2002	6	63.00
500 (Parallel Taxiway)	500-02	09/01/1980	AC	TAXIWAY	S	0	152,800.00	06/12/2002	22	22.00
600 (Apron Taxiway)	600-01	09/01/1996	AAC	TAXIWAY	P	0	91,350.00	06/12/2002	6	75.00
600 (Apron Taxiway)	600-02	09/01/1985	AC	TAXIWAY	P	0	88,650.00	06/12/2002	17	61.00
600 (Apron Taxiway)	600-03	09/01/1985	AC	TAXIWAY	S	0	39,300.00	06/12/2002	17	54.00
6100 (Runway 7-25)	6100-01	08/01/1996	AAC	RUNWAY	P	0	652,470.02	06/12/2002	6	80.00
6200 (Ultra Light Aircraft R/W)	6200-01	09/01/1985	AC	RUNWAY	S	0	90,000.00	06/12/2002	17	64.00

Section Condition Report

Pavement Database:

Age Category	Average Age At Inspection	Total Area (SqFt)	Number of Sections	Arithmetic Average PCI	PCI Standard Deviation	Weighted Average PCI
06-10	6.00	1,424,798.04	9	71.22	6.00	75.62
16-20	17.00	1,203,396.04	5	55.00	8.69	47.92
21-25	22.00	443,120.01	2	38.00	16.00	42.97
All	11.44	3,071,314.09	16	62.00	14.53	60.05

PAVEMENT STRENGTH SURVEY

STATE Alaska		CITY	Soldotna	AIRPORT	Soldotna				This is a variation of FAA Form 5320-1-1			
	CONSTRUCTION DATES					Existing	SOIL	Subbase	Base	Surface		Pavement
IDENT.	NAME	ORIG.	OVERLAY	CONSTRUCTION AGENCY	SOURCE OF INFORMATION	Pavement Conditions (PCI)	CLASS	Course	Course	Course	Overlay	Strength
						RUNWAYS						
6100-01	Runway 7-25	1996		City of Soldotna	1995 Consulting Engineer's Report, Ak Supp.	80			18"	4" AC		S12*
6100-02	Ultra Light Runway	1995		City of Soldotna		64				AC		
						TAXIWAYS						
100-01	Taxiway A	1996		City of Soldotna	1995 Consulting Engineer's Report	71			18"	2" AC		
200-01	Taxiway B	1996		City of Soldotna	1995 Consulting Engineer's Report	70			18"	2" AC		
300-01	Taxiway C	1996		City of Soldotna	1995 Consulting Engineer's Report	67			18"	2" AC		
400-01	Taxiway D	1996		City of Soldotna	1995 Consulting Engineer's Report	78			18"	2" AC		
500-01	Parallel Taxiway Section 1	1996		City of Soldotna		63						
500-02	Parallel Taxiway Section 2	1996		City of Soldotna		22						
600-01	Apron Taxiway Section 1	1996		City of Soldotna		75						
600-02	Apron Taxiway Section 2	1996		City of Soldotna		61						
600-03	Apron Taxiway Section 3	1996		City of Soldotna		54						
						APRONS						
4100-01	West apron section 1	1996		City of Soldotna		62						
4100-02	West apron section 2	1980		City of Soldotna		54						
4200-01	East apron	1985		City of Soldotna		57						
4300-01	Main apron section 1	1985		City of Soldotna	1995 Consulting Engineer's Report	75			21"	2.5" AC		
4300-02	Main apron section 2	1996		City of Soldotna		39						

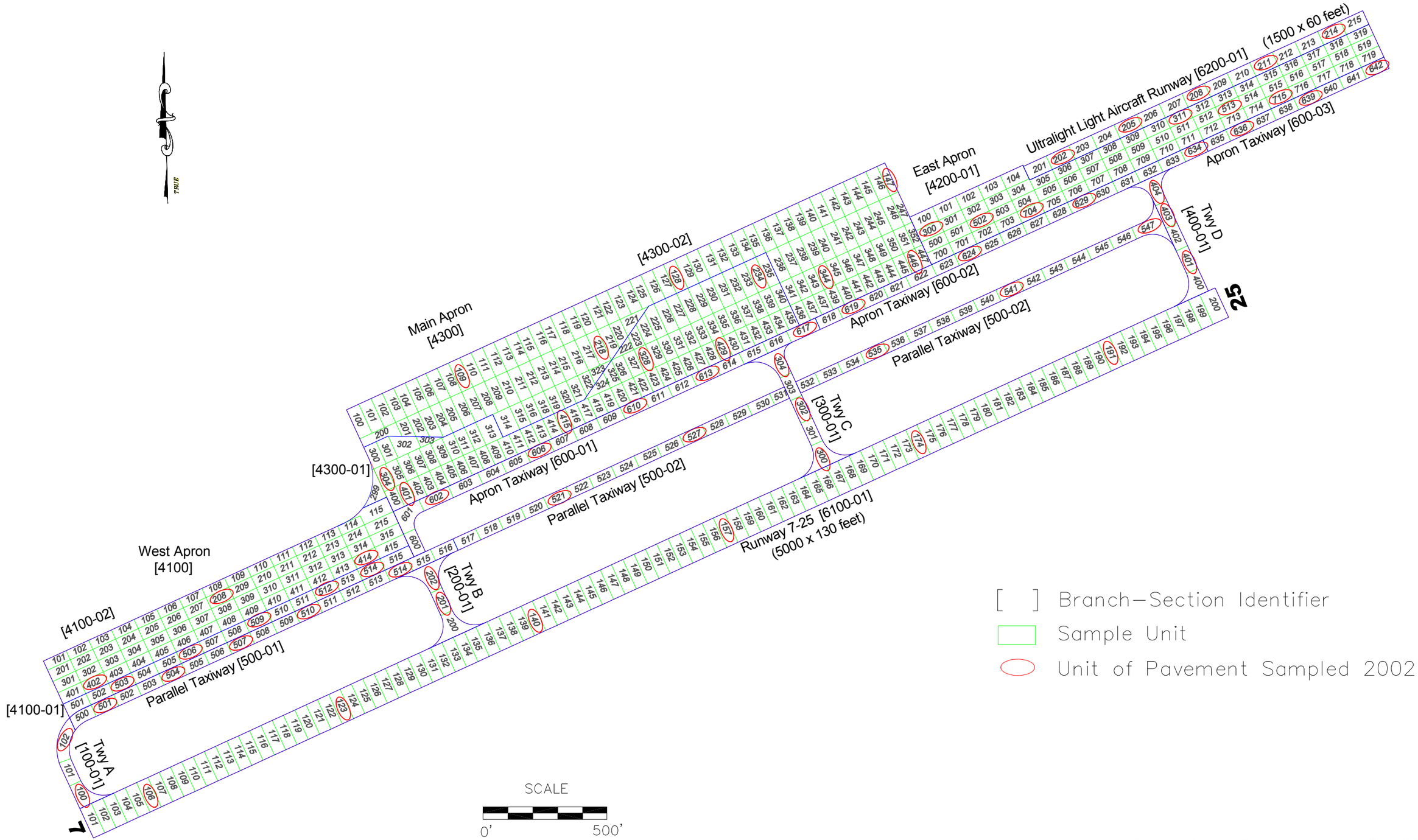
REMARKS:

* Report says 200 operations of ST155 (C130)

Date of Site Inspection:	6/12/2002	Evaluated By:	S. Gartin	1/14/2003	PAGE 1 of 1

Pavement Condition Survey - PCI Sample Unit Layout Plan

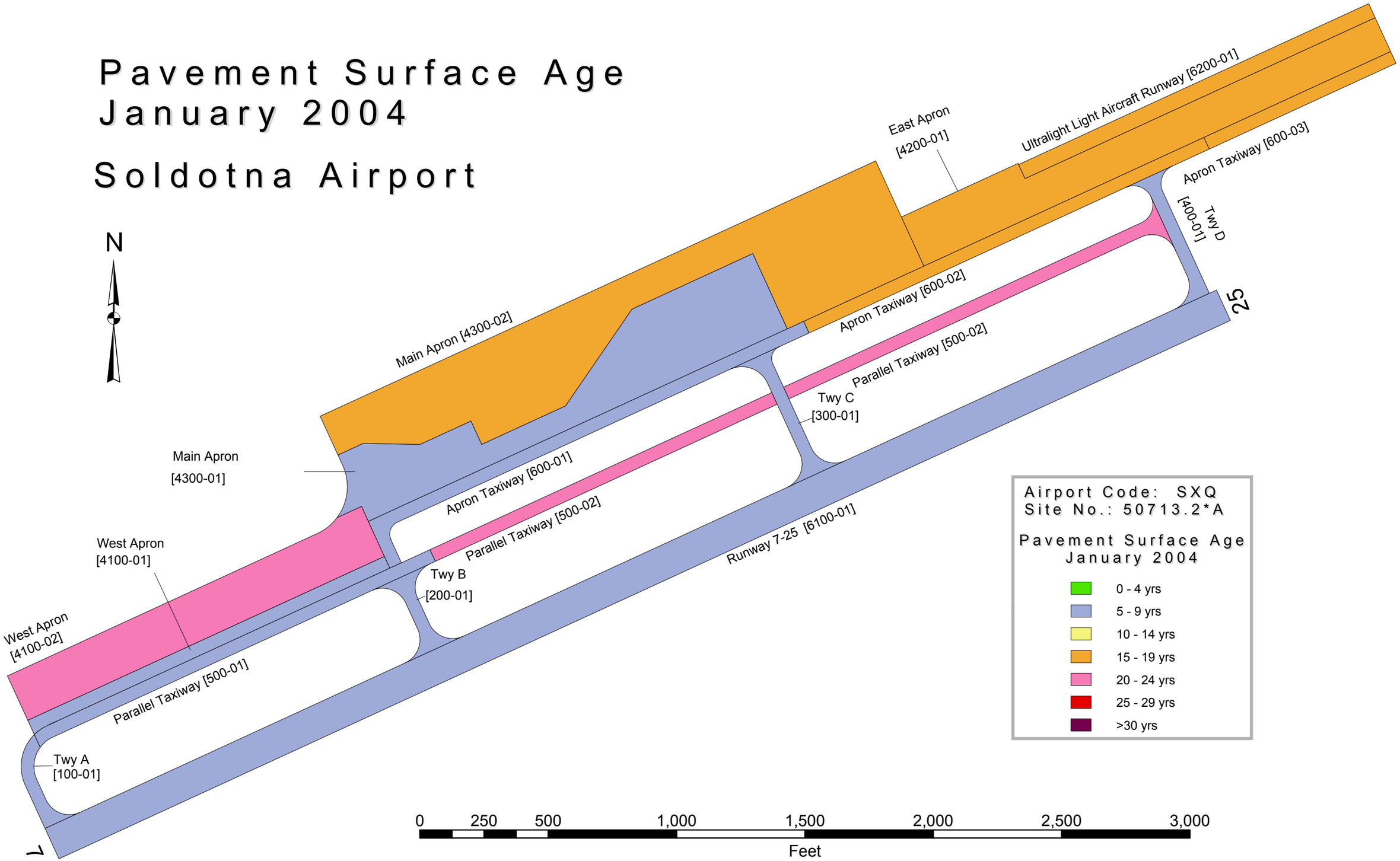
State	City	Airport	Airport Code:	Site No.
Alaska	Soldotna	Soldotna	SXQ	50713.2*A



Map Compiled December 10, 2004

Pavement Surface Age
January 2004

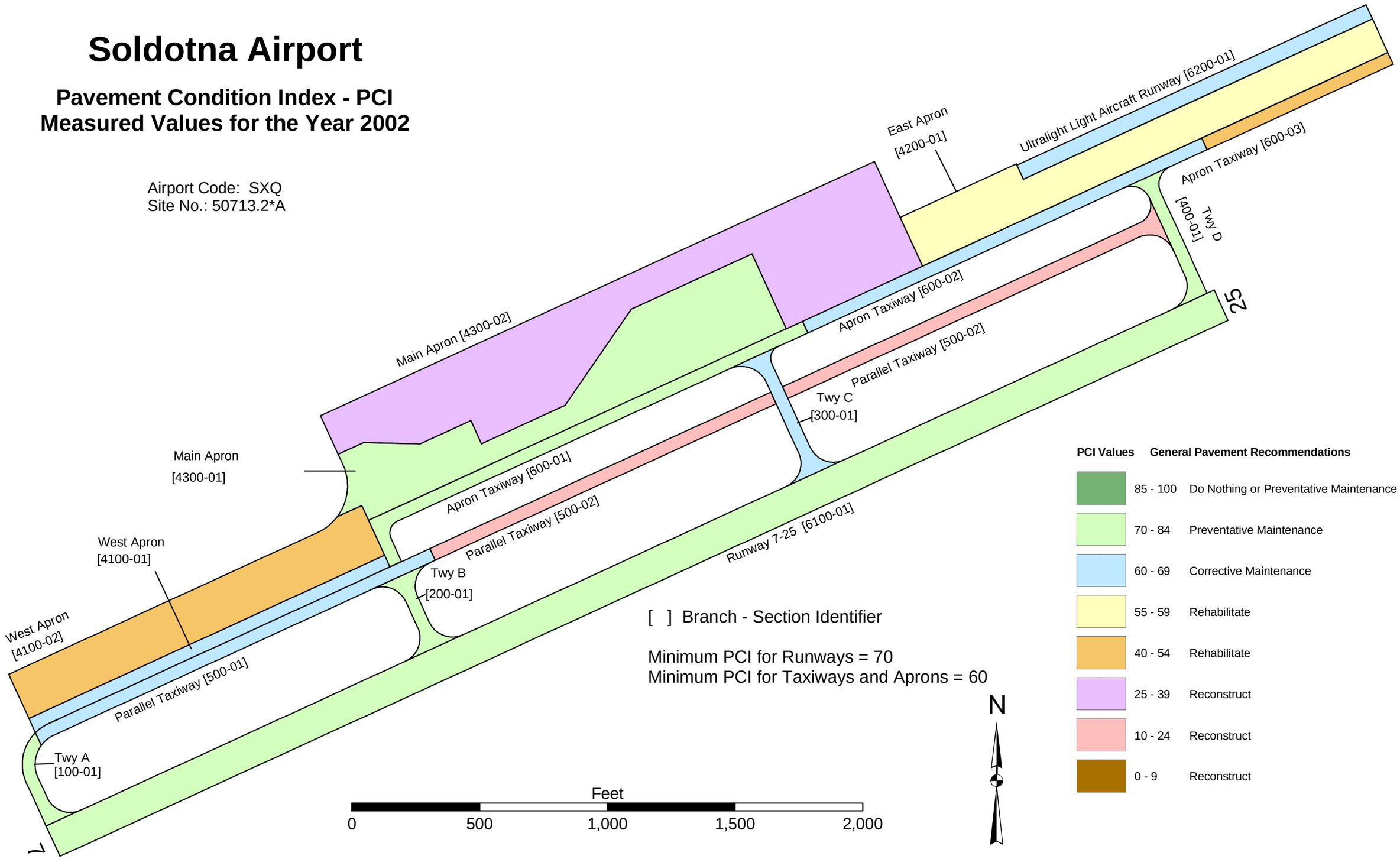
Soldotna Airport



Soldotna Airport

Pavement Condition Index - PCI
Measured Values for the Year 2002

Airport Code: SXQ
Site No.: 50713.2*A

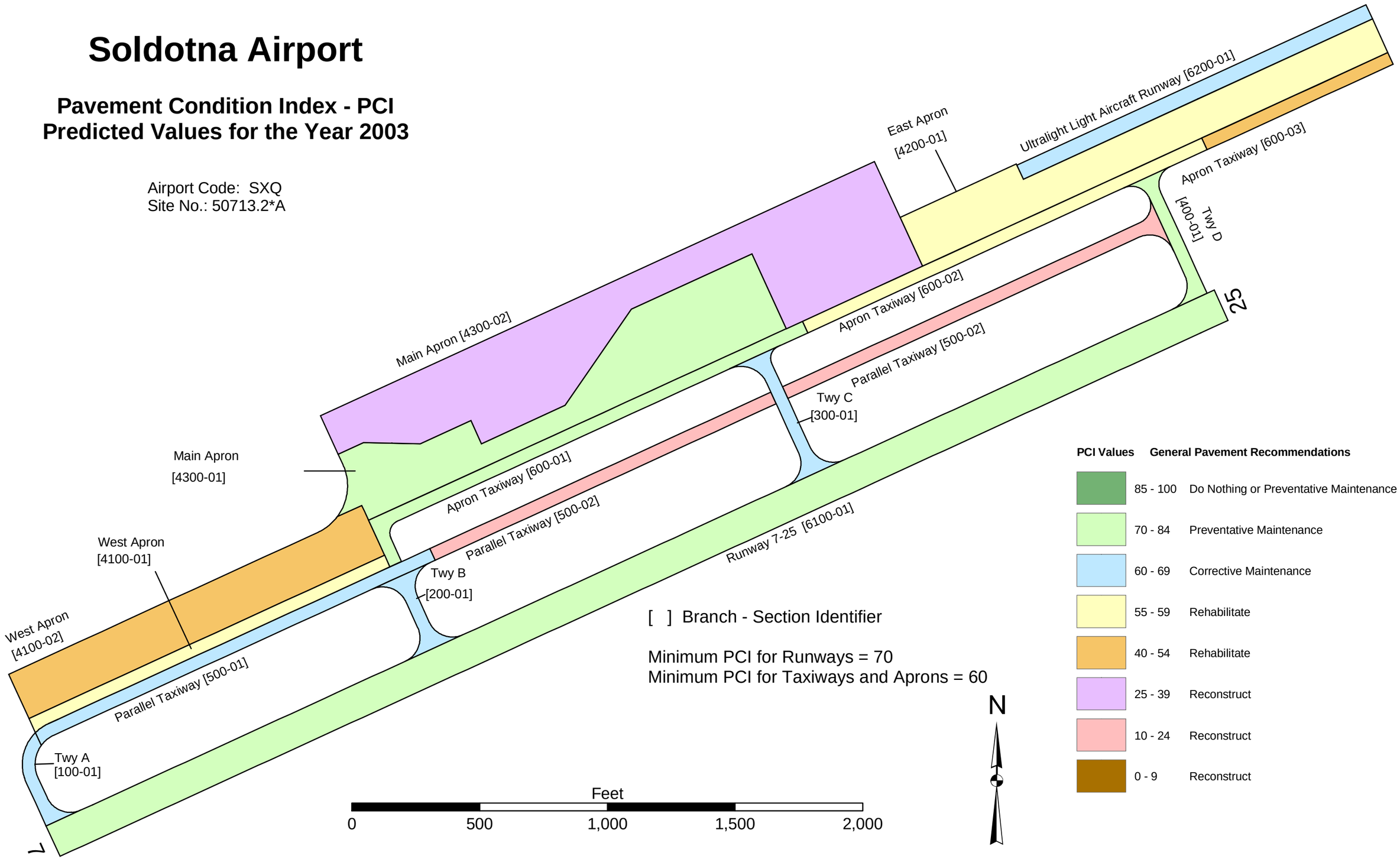


Map complied 2002 (revised July 2003)
by Statewide Pavement Management, AK DOT&PF

Soldotna Airport

Pavement Condition Index - PCI
Predicted Values for the Year 2003

Airport Code: SXQ
Site No.: 50713.2*A

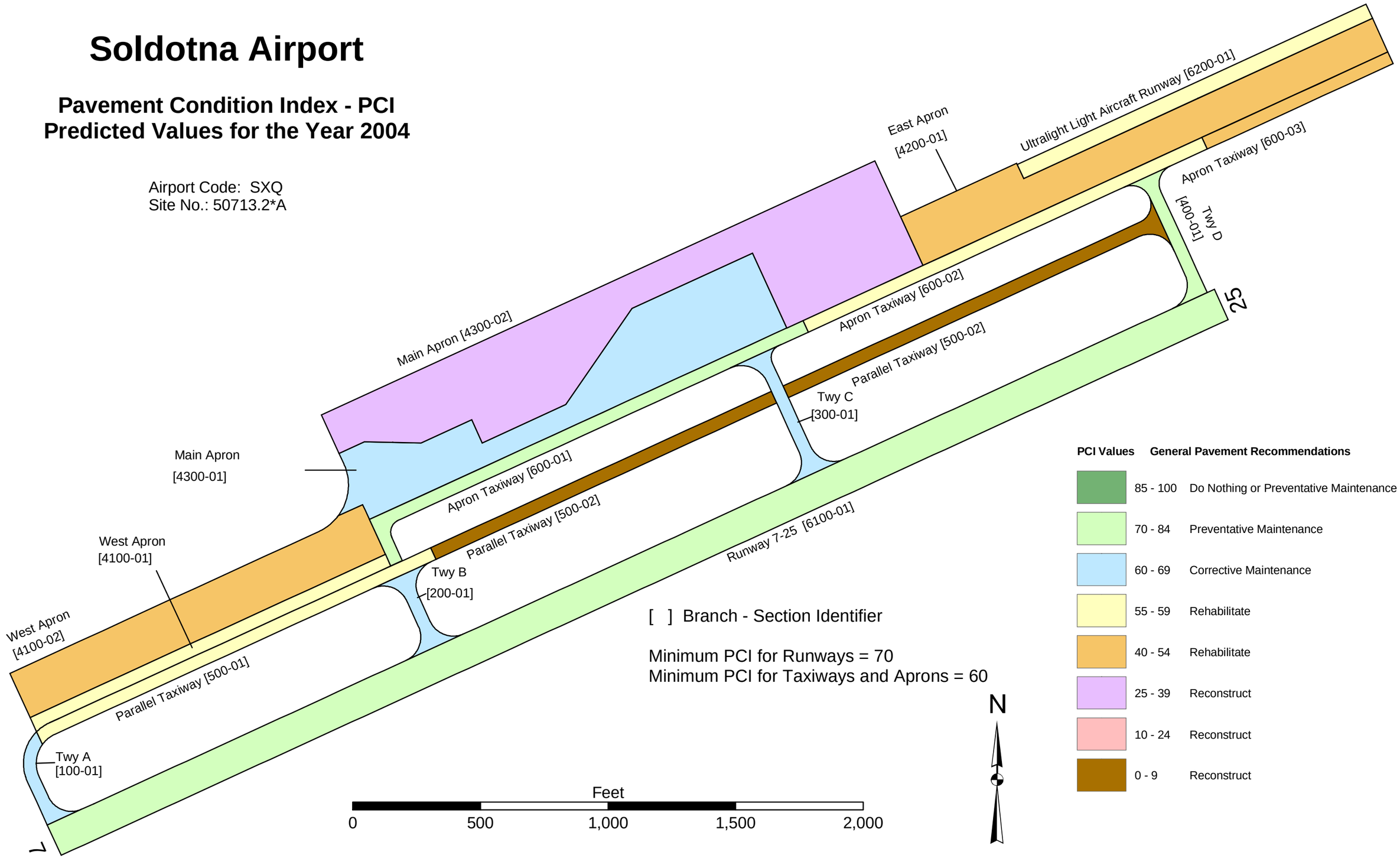


Map complied 2002 (revised July 2003)
by Statewide Pavement Management, AK DOT&PF

Soldotna Airport

Pavement Condition Index - PCI
Predicted Values for the Year 2004

Airport Code: SXQ
Site No.: 50713.2*A

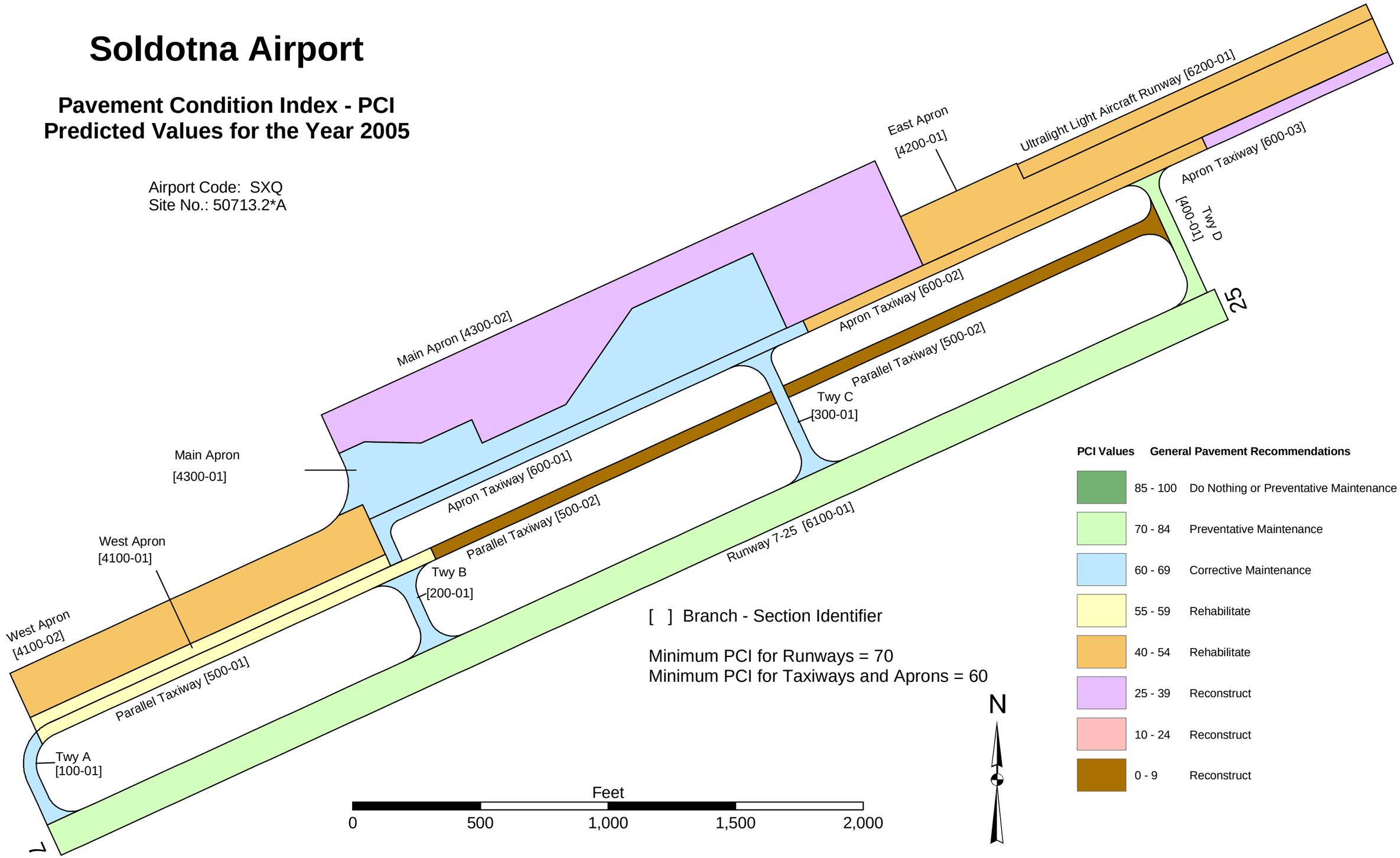


Map complied 2002 (revised July 2003)
by Statewide Pavement Management, AK DOT&PF

Soldotna Airport

Pavement Condition Index - PCI
Predicted Values for the Year 2005

Airport Code: SXQ
Site No.: 50713.2*A

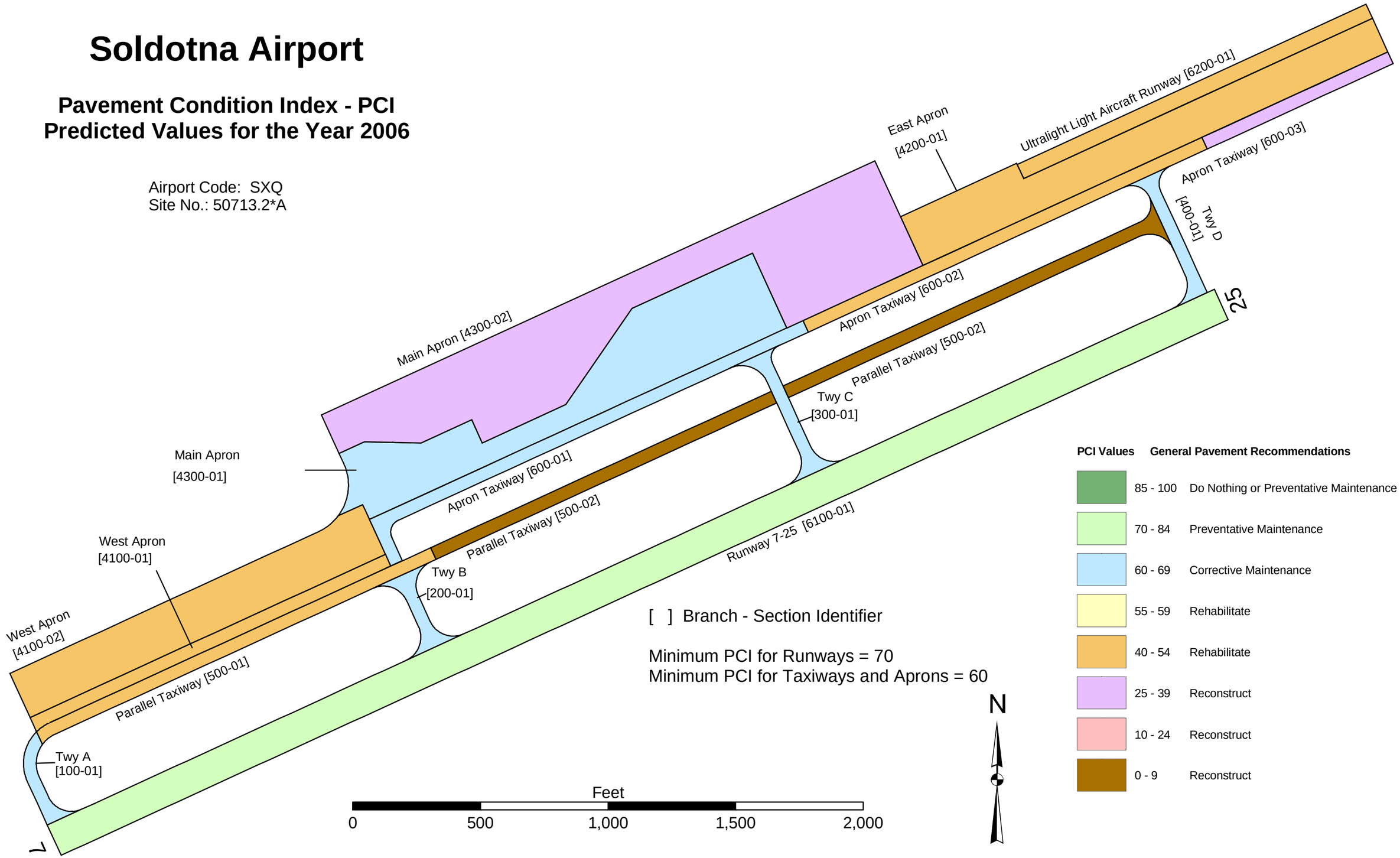


Map complied 2002 (revised July 2003)
by Statewide Pavement Management, AK DOT&PF

Soldotna Airport

Pavement Condition Index - PCI
Predicted Values for the Year 2006

Airport Code: SXQ
Site No.: 50713.2*A

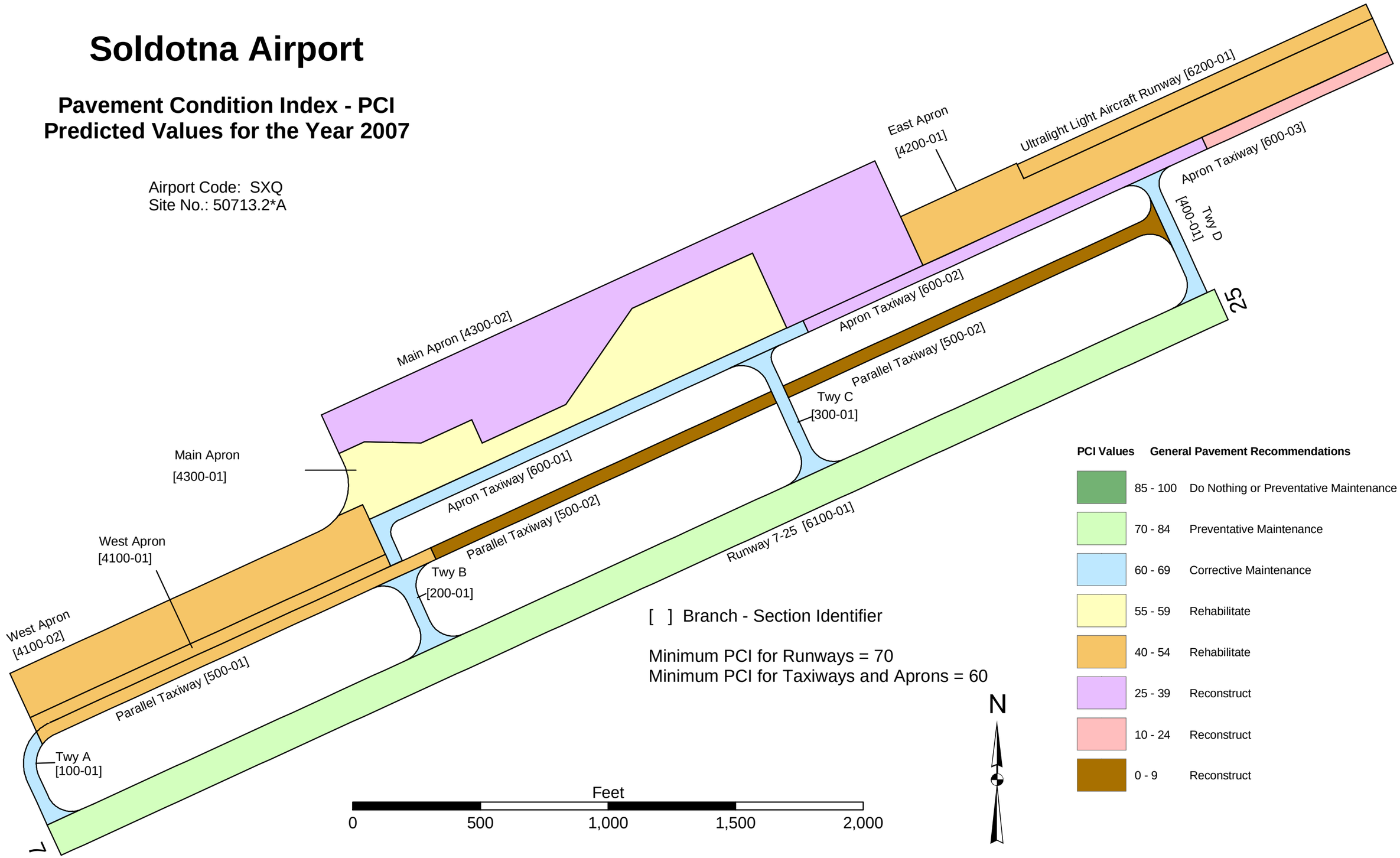


Map complied 2002 (revised July 2003)
by Statewide Pavement Management, AK DOT&PF

Soldotna Airport

Pavement Condition Index - PCI
Predicted Values for the Year 2007

Airport Code: SXQ
Site No.: 50713.2*A

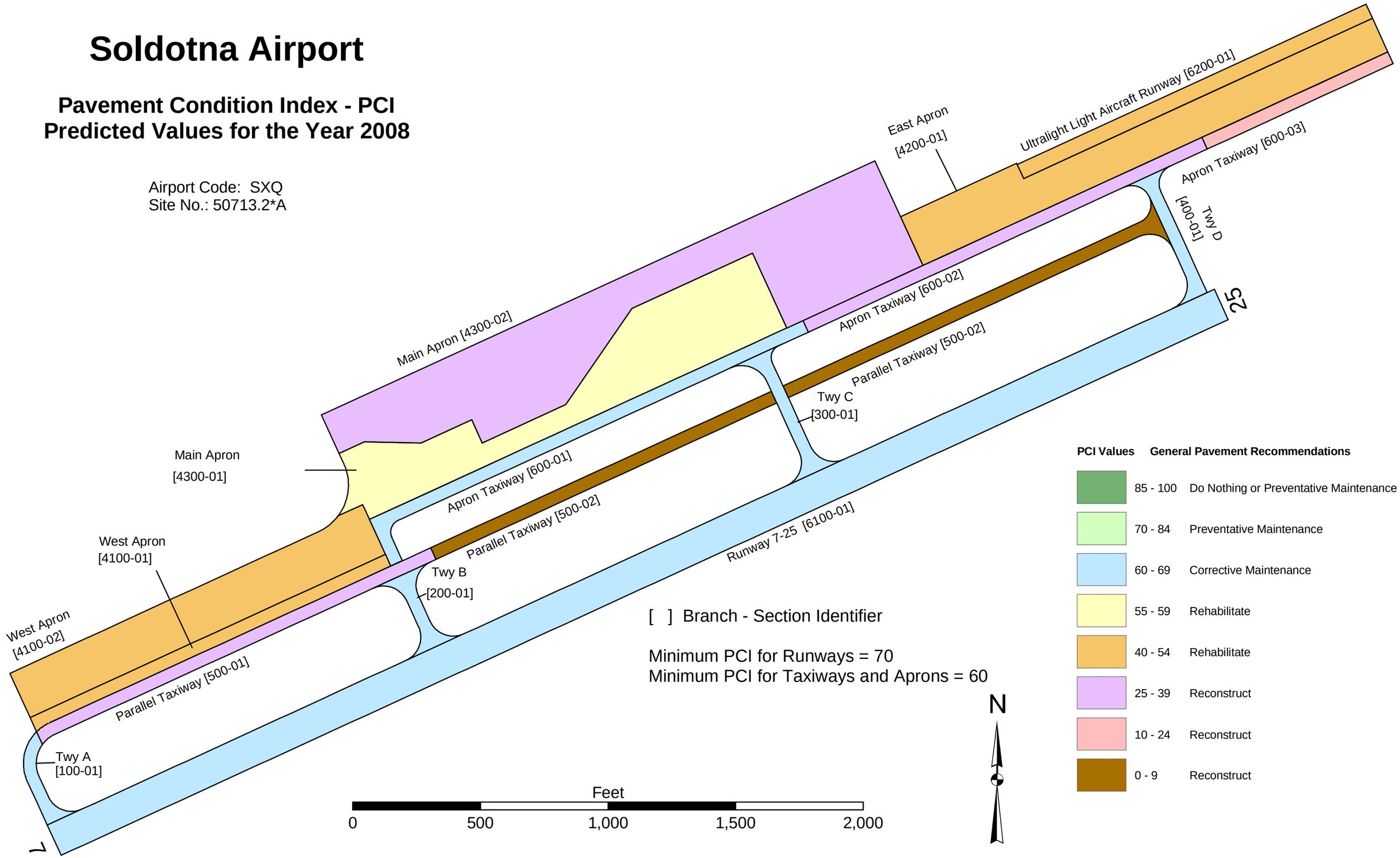


Map complied 2002 (revised July 2003)
by Statewide Pavement Management, AK DOT&PF

Soldotna Airport

Pavement Condition Index - PCI
Predicted Values for the Year 2008

Airport Code: SXQ
Site No.: 50713.2*A



Map complied 2002 (revised July 2003)
by Statewide Pavement Management, AK DOT&PF