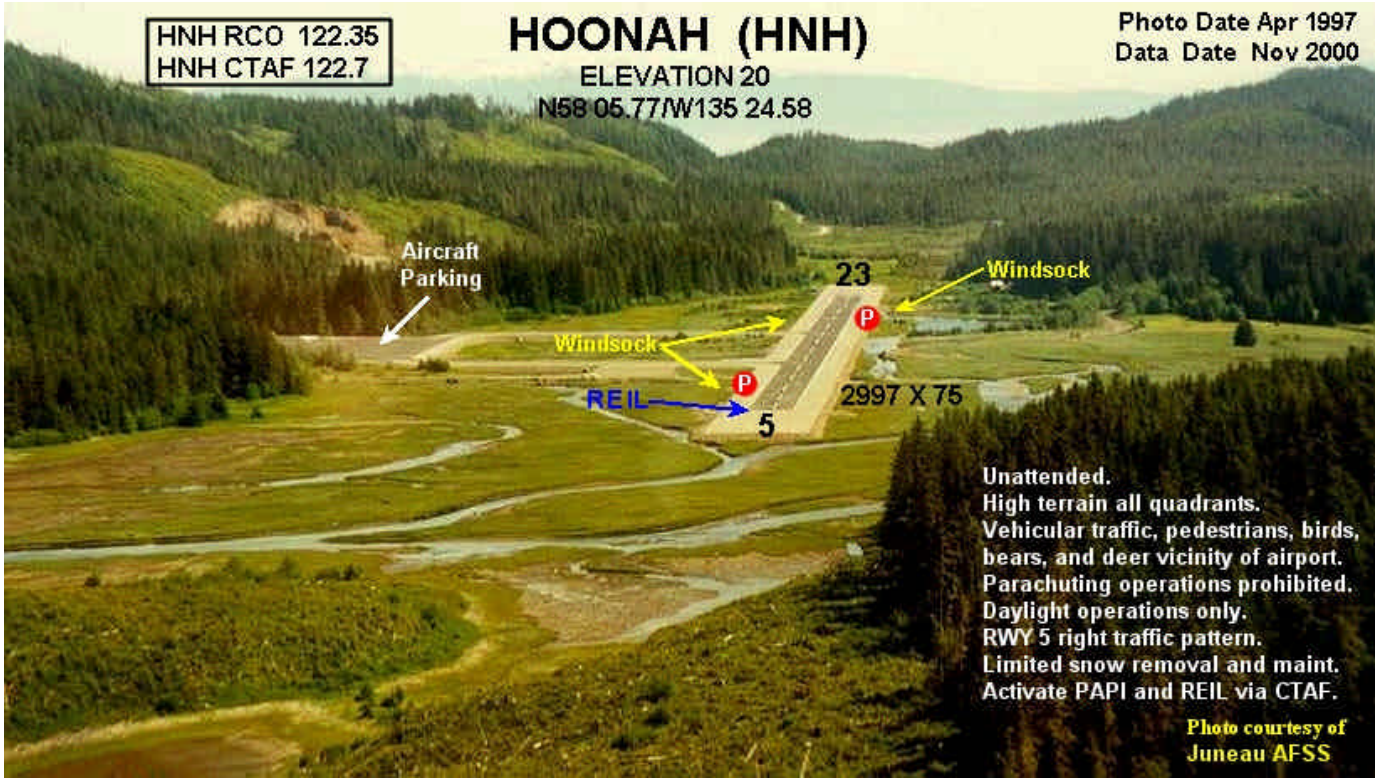
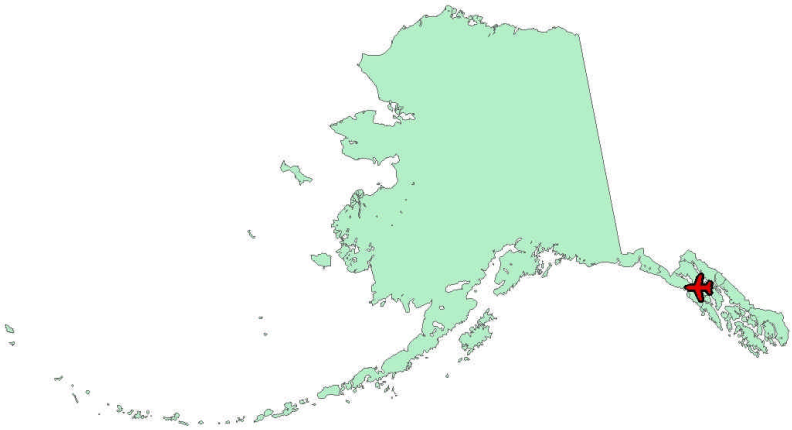


HOONAH AIRPORT



2004 Alaska Airport Pavement Condition Report

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

HOONAH 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 Hoonah Airport is located on the eastern side of the town of Hoonah in the northern part of Southeast Alaska. Hoonah is on the northeast side of Chichagof Island accessible by air and water only. Logging and fishing are the main occupations in the area.
- District: Southeast
- Airport Manager: Gus Skaflestad
- District Maintenance Manager: Gary Franzen
- Pavement Surface: Asphalt Concrete
- Last Pavement Construction: 1992
- Pavement layout:
  The Runway 5-23 pavement is 3000' x 75'. Two Taxiways, A and B, are 35' in width and provide access to each end of the Parking Apron on the north side of the runway.
- Design Aircraft: Twin Otter
- 2003 Enplanements: 8,715 – up 37% from 2003
- Airport Class: Non-Primary
- Last pavement condition survey: 2003
- Next planned pavement condition survey: 2005
- 2004 reported pavement maintenance and/or changed conditions:
  The airport needs crack sealing but equipment is not available on site. Chip Sealing of the Runway shoulders out to the light lines is planned for in 2005 with equipment from Juneau. This will help protect the pavement edges and make snow removal easier. An equipment building and shop was added to the airport since the last survey.
- **Recommendations:** Maintain pavement by crack sealing cracks wider than ¼" and patching as needed.

Date: 7 /24/2003

Branch Condition Report

Pavement Database: NetworkID: Hoonah

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	708.89	35.00	25884.15	TAXIWAY	83.00	0.00	83.00
200 (Taxiway B)	1	825.00	35.00	29949.00	TAXIWAY	83.00	0.00	83.00
4100 (Parking Apron)	1	560.00	384.50	215320.01	APRON	90.00	0.00	90.00
6100 (Runway 5-23)	1	3000.00	75.00	225000.01	RUNWAY	84.00	0.00	84.00

Branch Condition Report

Pavement Database:

Use Category	Number of Sections	Total Area (SqFt)	Arithmetic Average PCI	Average PCI STD.	Weighted Average PCI
APRON	1	215320.01	90.00	0.00	90.00
RUNWAY	1	225000.01	84.00	0.00	84.00
TAXIWAY	2	55833.15	83.00	0.00	83.00
All	4	496153.16	85.00	2.92	86.49

Date: 7 /24/2003

Section Condition Report

Pavement Database: *NetworkID: Hoonah*

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	09/01/1992	AC	TAXIWAY	P	0	25884.15	05/12/2003	11	83.00
200 (Taxiway B)	200-01	09/01/1992	AC	TAXIWAY	P	0	29949.00	05/12/2003	11	83.00
4100 (Parking Apron)	4100-01	09/01/1992	AC	APRON	P	0	215320.01	05/12/2003	11	90.00
6100 (Runway 5-23)	6100-01	09/01/1992	AC	RUNWAY	P	0	225000.01	05/12/2003	11	84.00

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
11-15	11.00	496153.16	4	85.00	2.92	86.49
All	11.00	496153.16	4	85.00	2.92	86.49

PAVEMENT STRENGTH SURVEY

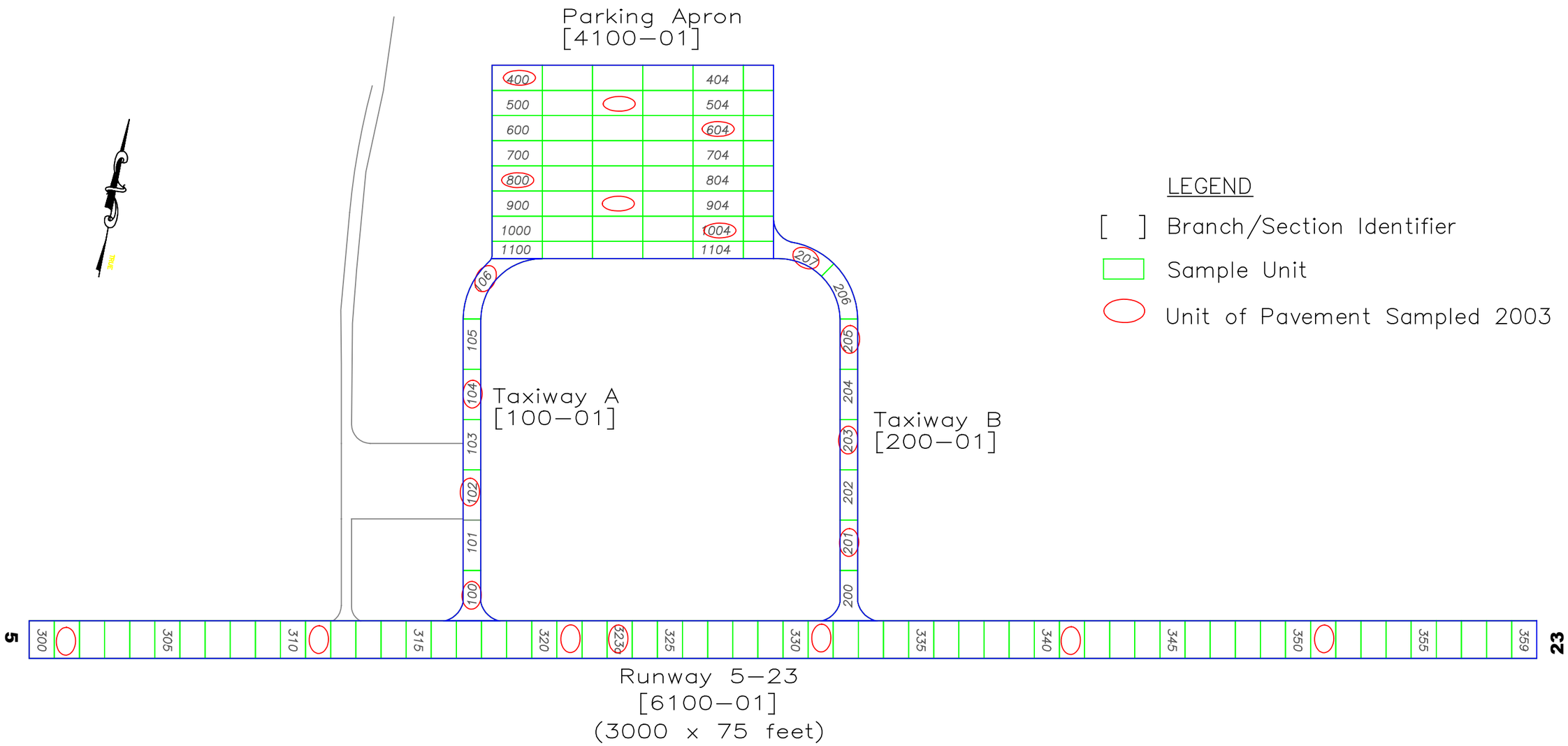
STATE Alaska | **CITY** Hoonah | **AIRPORT** Hoonah | This is a variation of FAA Form 5320-1-1

IDENT.	NAME	CONSTRUCTION DATES ORIG.	CONSTRUCTION DATES OVERLAY	CONSTRUCTION AGENCY	SOURCE OF INFORMATION	Existing Pavement Conditions (PCI) at last inspection	Soil Class	Subbase Course	Base Course	Surface Course	Overlay	Pavement Strength
						RUNWAYS						
6100-01	Runway 5-23	1992		AK DOT&PF	Project # 69267 & S.E. Region	84		6"	6" CABC	2" AC		no data (GA)
						TAXIWAYS						
100-01	Taxiway A	1992		AK DOT&PF	Project # 69267 & S.E. Region	83		6" Subbase/Borrow Emb.	6" CABC	2" AC		
200-01	Taxiway B	1992		AK DOT&PF	Project # 69267 & S.E. Region	83		6" Subbase/Borrow Emb.	6" CABC	2" AC		
						APRONS						
4100-01	Apron	1992		AK DOT&PF	Project # 69267 & S.E. Region	90		6" Subbase/ Borrow Emb. 4'+	6" CABC	2" AC		

REMARKS:

Date of Site Inspection: 5/12/2003 | Evaluated By: S. Gartin | 11/29/2004

Pavement Condition Survey - PCI Sample Unit Layout Plan	State Alaska	City Hoonah	Airport Hoonah	Airport Code: HNH	Site No. 50321.01*A



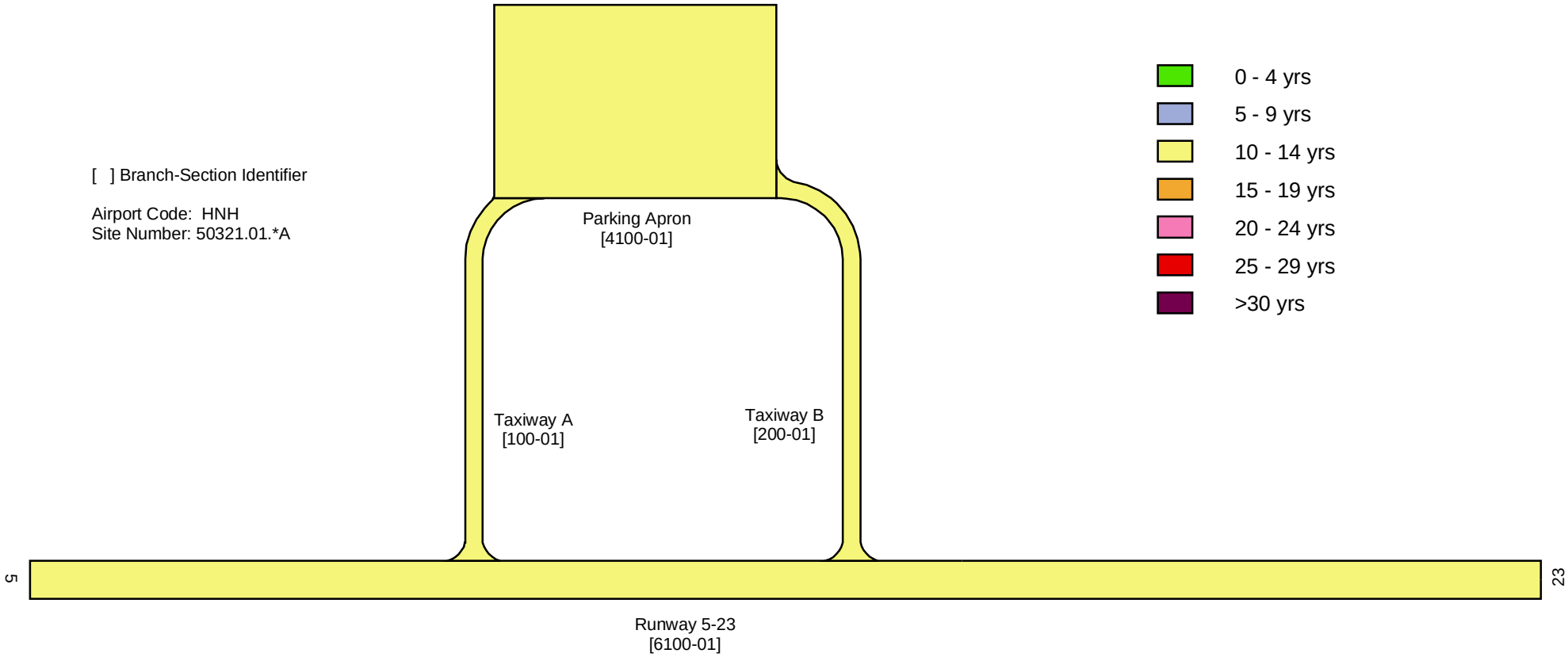
Map compiled December 10, 2004

Hoonah Airport

Pavement Surface Age
2004

[ ] Branch-Section Identifier

Airport Code: HNH
Site Number: 50321.01.*A



- 0 - 4 yrs
- 5 - 9 yrs
- 10 - 14 yrs
- 15 - 19 yrs
- 20 - 24 yrs
- 25 - 29 yrs
- >30 yrs

Feet
0 500 1,000

N

Map Compiled July 2003 (Revised December 2004)
by Statewide Pavement Management, AK DOT&PF

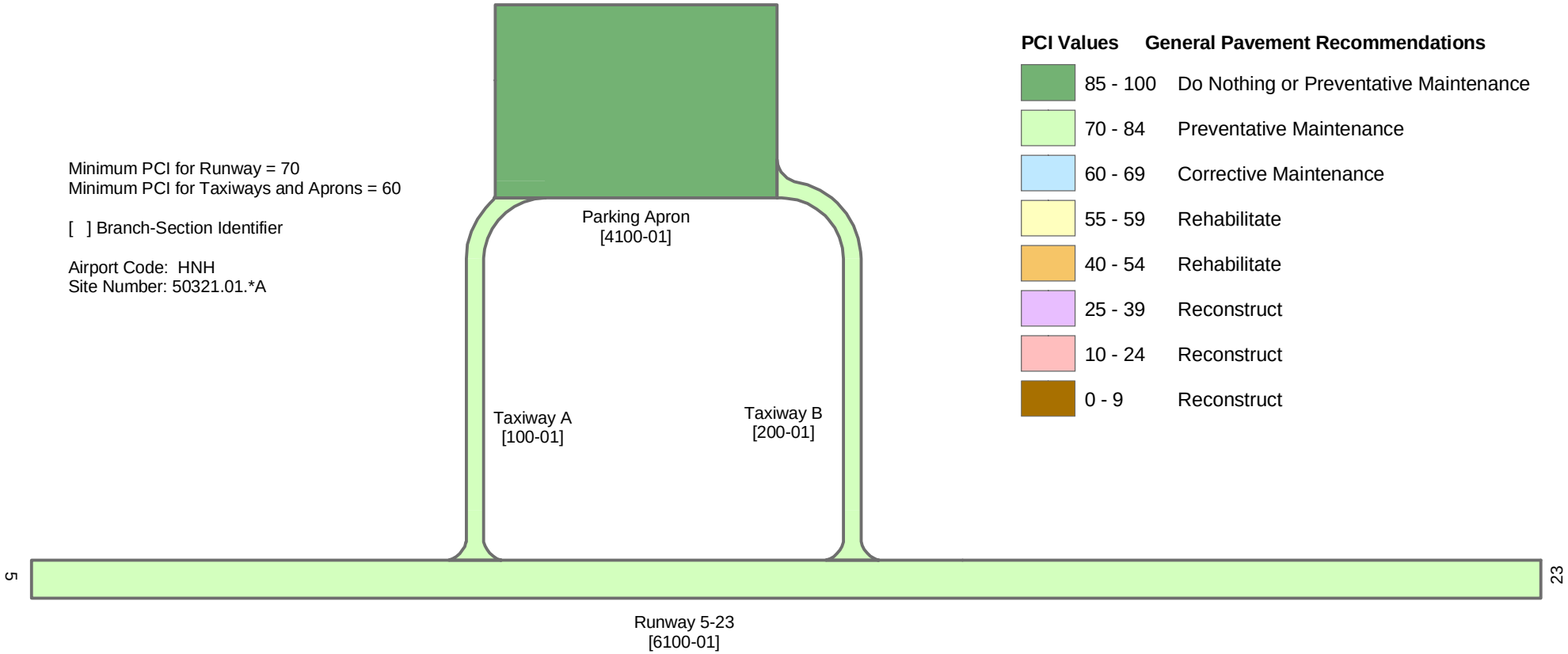
Hoonah Airport

Pavement Condition Index (PCI)
Measured Values for the Year 2003

Minimum PCI for Runway = 70
Minimum PCI for Taxiways and Aprons = 60

[ ] Branch-Section Identifier

Airport Code: HNH
Site Number: 50321.01.*A



PCI Values	General Pavement Recommendations
85 - 100	Do Nothing or Preventative Maintenance
70 - 84	Preventative Maintenance
60 - 69	Corrective Maintenance
55 - 59	Rehabilitate
40 - 54	Rehabilitate
25 - 39	Reconstruct
10 - 24	Reconstruct
0 - 9	Reconstruct

Feet
0 500 1,000

N

Map Compiled July 2003
by Statewide Pavement Management, AK DOT&PF

Hoonah Airport

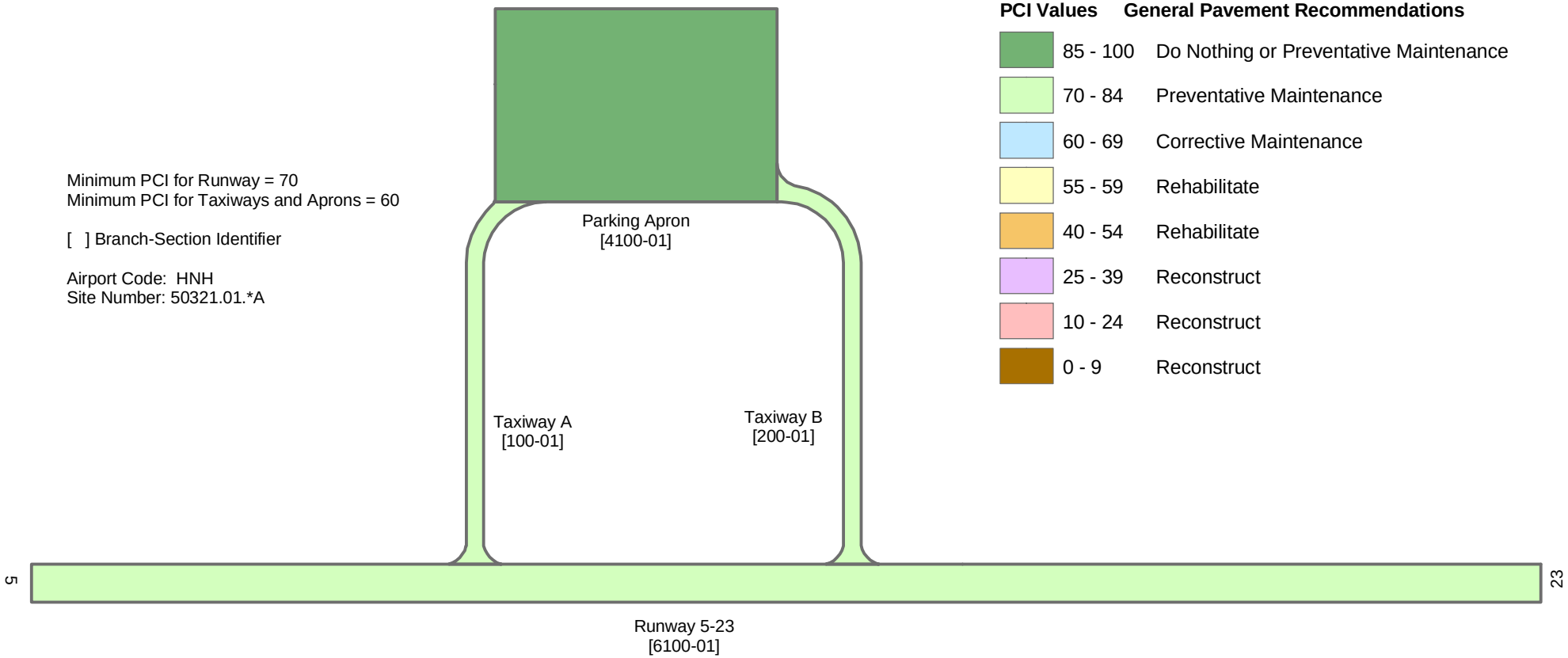
Pavement Condition Index (PCI)
Predicted Values for the Year 2004

Minimum PCI for Runway = 70
Minimum PCI for Taxiways and Aprons = 60

[ ] Branch-Section Identifier

Airport Code: HNH
Site Number: 50321.01.*A

PCI Values	General Pavement Recommendations
85 - 100	Do Nothing or Preventative Maintenance
70 - 84	Preventative Maintenance
60 - 69	Corrective Maintenance
55 - 59	Rehabilitate
40 - 54	Rehabilitate
25 - 39	Reconstruct
10 - 24	Reconstruct
0 - 9	Reconstruct



Map Compiled July 2003
by Statewide Pavement Management, AK DOT&PF

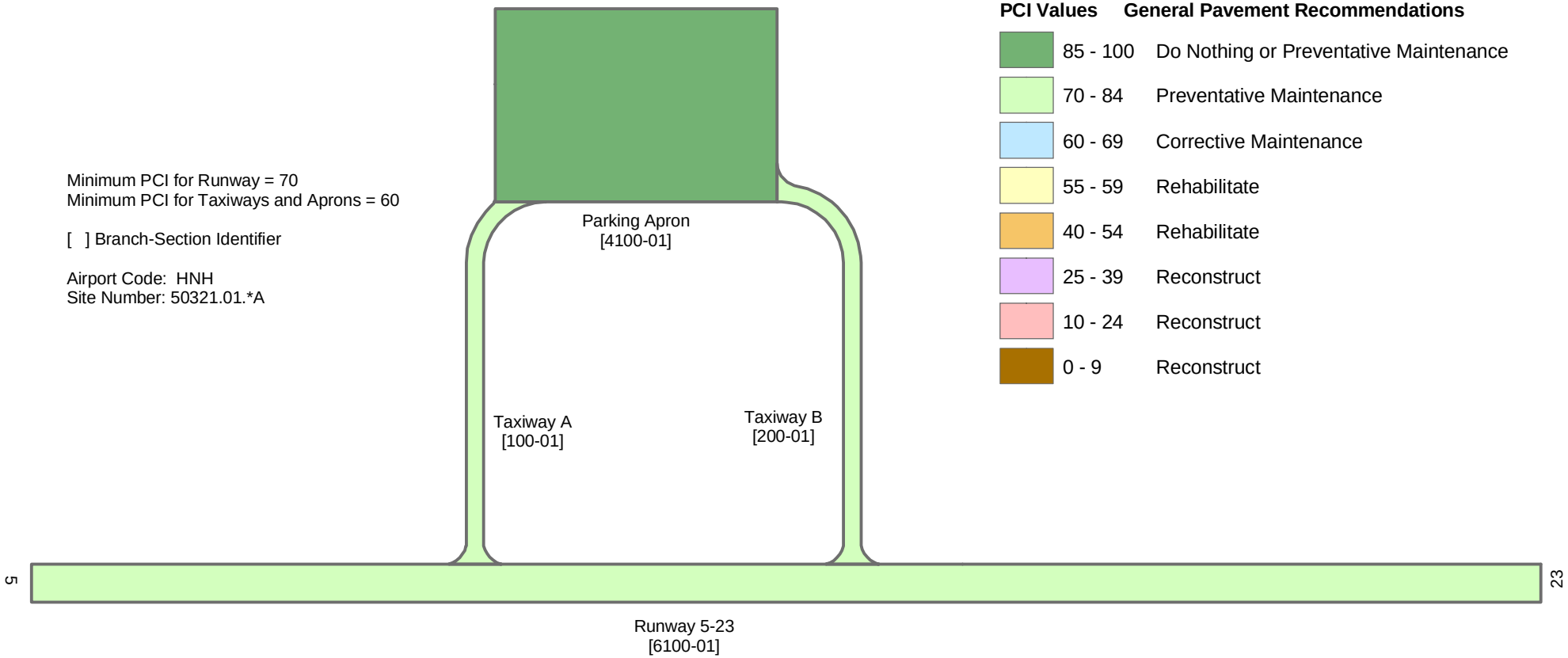
Hoonah Airport

Pavement Condition Index (PCI)
Predicted Values for the Year 2005

Minimum PCI for Runway = 70
Minimum PCI for Taxiways and Aprons = 60

[ ] Branch-Section Identifier

Airport Code: HNH
Site Number: 50321.01.*A



PCI Values	General Pavement Recommendations
85 - 100	Do Nothing or Preventative Maintenance
70 - 84	Preventative Maintenance
60 - 69	Corrective Maintenance
55 - 59	Rehabilitate
40 - 54	Rehabilitate
25 - 39	Reconstruct
10 - 24	Reconstruct
0 - 9	Reconstruct

Feet
0 500 1,000

N

Map Compiled July 2003
by Statewide Pavement Management, AK DOT&PF

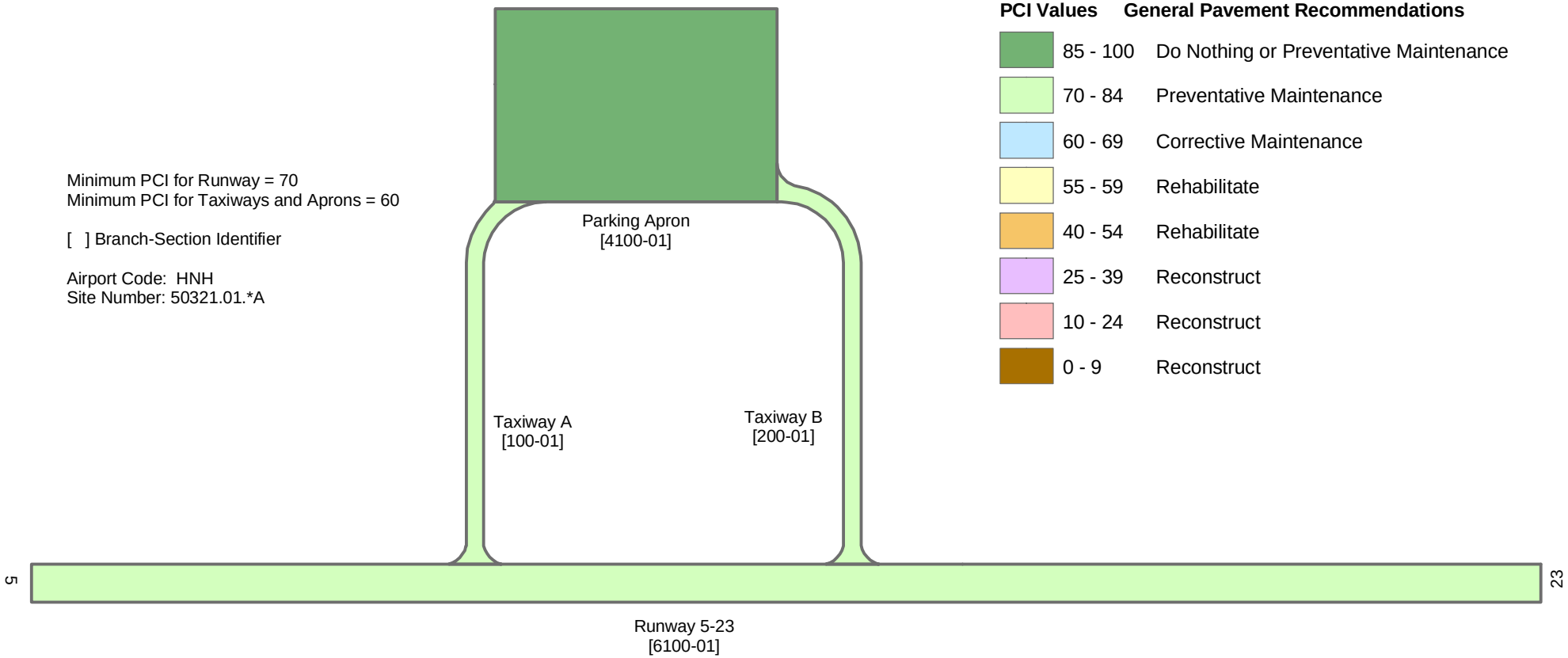
Hoonah Airport

Pavement Condition Index (PCI)
Predicted Values for the Year 2006

Minimum PCI for Runway = 70
Minimum PCI for Taxiways and Aprons = 60

[ ] Branch-Section Identifier

Airport Code: HNH
Site Number: 50321.01.*A



PCI Values	General Pavement Recommendations
85 - 100	Do Nothing or Preventative Maintenance
70 - 84	Preventative Maintenance
60 - 69	Corrective Maintenance
55 - 59	Rehabilitate
40 - 54	Rehabilitate
25 - 39	Reconstruct
10 - 24	Reconstruct
0 - 9	Reconstruct

Feet
0 500 1,000

N

Map Compiled July 2003
by Statewide Pavement Management, AK DOT&PF

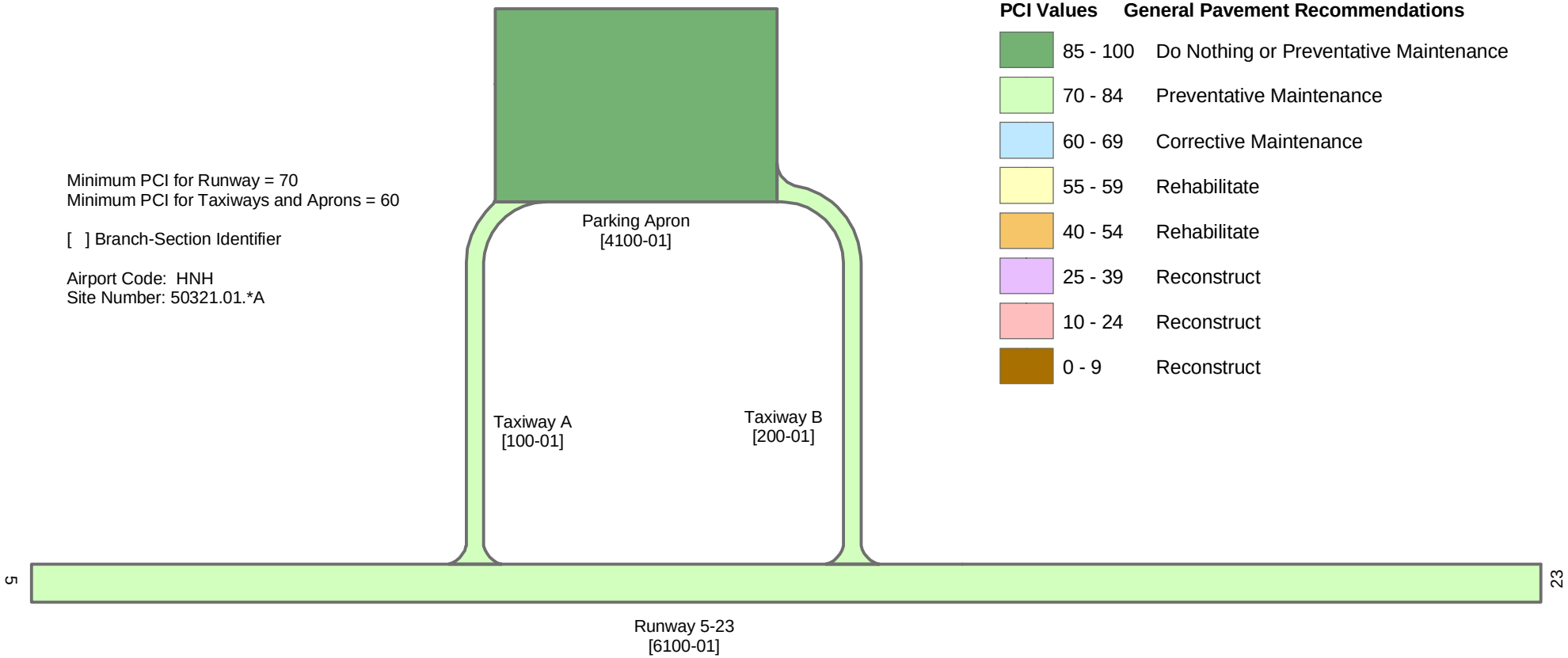
Hoonah Airport

Pavement Condition Index (PCI)
Predicted Values for the Year 2007

Minimum PCI for Runway = 70
Minimum PCI for Taxiways and Aprons = 60

[ ] Branch-Section Identifier

Airport Code: HNH
Site Number: 50321.01.*A



PCI Values	General Pavement Recommendations
85 - 100	Do Nothing or Preventative Maintenance
70 - 84	Preventative Maintenance
60 - 69	Corrective Maintenance
55 - 59	Rehabilitate
40 - 54	Rehabilitate
25 - 39	Reconstruct
10 - 24	Reconstruct
0 - 9	Reconstruct

Feet
0 500 1,000

N

Map Compiled July 2003
by Statewide Pavement Management, AK DOT&PF

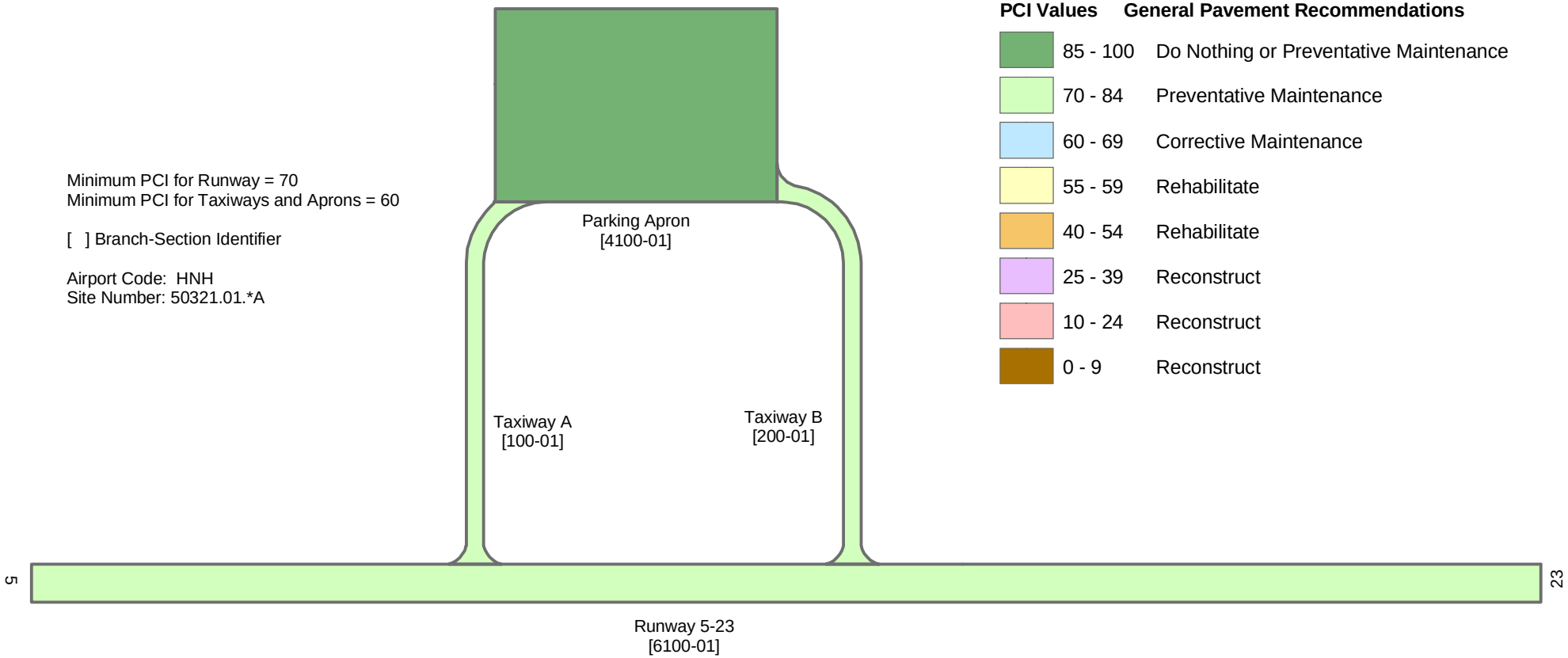
Hoonah Airport

Pavement Condition Index (PCI)
Predicted Values for the Year 2008

Minimum PCI for Runway = 70
Minimum PCI for Taxiways and Aprons = 60

[ ] Branch-Section Identifier

Airport Code: HNH
Site Number: 50321.01.*A



PCI Values	General Pavement Recommendations
85 - 100	Do Nothing or Preventative Maintenance
70 - 84	Preventative Maintenance
60 - 69	Corrective Maintenance
55 - 59	Rehabilitate
40 - 54	Rehabilitate
25 - 39	Reconstruct
10 - 24	Reconstruct
0 - 9	Reconstruct

Feet
0 500 1,000

N

Map Compiled July 2003
by Statewide Pavement Management, AK DOT&PF