

**Ted Stevens Anchorage International Airport - Airfield
Pavement Reconstruction and Maintenance**

**FY2017 Request: \$27,916,250
Reference No: 40294**

AP/AL: Allocation

Project Type: Construction

Category: Transportation

Location: Anchorage Areawide

House District: Anchorage Areawide (HD 12-28)

Impact House District: Anchorage Areawide (HD 12-28)

Contact: John Binder

Estimated Project Dates: 07/01/2016 - 06/30/2021

Contact Phone: (907)269-0730

Appropriation: Airport Improvement Program

Brief Summary and Statement of Need:

This project will reconstruct airfield pavement, including runways, taxiways, taxilanes, aircraft parking aprons, as it reaches the end of its useful life and perform maintenance work such as crack filling and sealing and spot repairs. The rehabilitation consists of excavating the existing structural section and replacing with a structural section that is designed for the current aircraft mix that use the pavement, including possible widening, as well as disposal of any contaminated soils, repaving, lighting, striping, signage, and storm drainage.

Funding:	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	Total
1002 Fed Rcpts	\$24,500,000	\$26,801,179	\$27,605,214	\$28,433,370	\$27,415,167	\$28,000,000	\$162,754,930
1027 Int Airprt	\$3,416,250	\$1,786,745	\$1,840,348	\$1,895,558	\$3,823,629	\$3,900,000	\$16,662,530
Total:	\$27,916,250	\$28,587,924	\$29,445,562	\$30,328,928	\$31,238,796	\$31,900,000	\$179,417,460

☐ State Match Required ☐ One-Time Project ☐ Phased - new ☐ Phased - underway ☒ On-Going
0% = Minimum State Match % Required ☐ Amendment ☐ Mental Health Bill

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Prior Funding History / Additional Information:

Sec1 Ch38 SLA2015 P9 L32 SB26 \$26,946,860
Sec1 Ch18 SLA2014 P68 L17 SB119 \$26,162,000
Sec1 Ch16 SLA2013 P85 L10 SB18 \$25,400,000
Sec13 Ch29 SLA2008 P164 L26 SB221 \$9,000,000
Sec4 Ch30 SLA2007 P108 L21 SB53 \$5,000,000

Project Description/Justification:

Rehabilitation and maintenance of airfield pavement is critical to providing for the safe operation of the airport and to meet Federal Aviation Administration (FAA) Grant Assurance 19, Operation and Maintenance.

The FAA requires that airports have a Pavement Management System (AC 150/5380-7) that

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facilitates identification of expected pavement needs. The Anchorage International Airport's (ANC) Pavement Management System identifies pavement condition as a function of the Pavement Condition Index (PCI). The PCI is established through a survey and subsequent software analysis of asphalt and concrete pavement condition. The PCI is a metric value of 0-100, with 100 being the optimum pavement condition. The pavement condition surveys analyze cracks, spalling, rutting, and other pavement conditions that become part of the 0-100 metric. ANC has a regular program of pavement inspection, crack sealing and spot repair to extend the life of the pavement; however at some point it is no longer cost effect to maintain the pavement and reconstruction is necessary.

A PCI below 70 for Runways and below 60 for other airfield surfaces is an indication that a project should be programmed in the short term for reconstruction under the Pavement Management System. Poor pavement conditions result in foreign object debris (FOD) on aprons, runways and taxiways and are safety concerns for aircraft moving on the airfield. Damage to aircraft and surface transportation vehicles can result from these conditions; therefore, specific airfield pavement reconstruction projects will be programmed for areas with a PCI less than the above minimums.