

Statewide: Highway Data Equipment Acquisition and Installation

FY2011 Request: \$2,000,000
Reference No: 36196

AP/AL: Allocation

Project Type: Equipment / Commodities

Category: Transportation

Location: Statewide

Contact: Frank Richards

House District: Statewide (HD 1-40)

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Estimated Project Dates: 07/01/2010 - 06/30/2015

Appropriation: Surface Transportation Program

Brief Summary and Statement of Need:

Purchase of equipment and installation of traffic detection devices to implement requirements of the State Traffic Monitoring System. This project contributes to the Department's Mission by reducing injuries, fatalities and property damage and by improving the mobility of people and goods.

Funding:	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	Total
Fed Rcpts	\$2,000,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$8,000,000
Total:	\$2,000,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$8,000,000

<input checked="" type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input checked="" type="checkbox"/> On-Going
9% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

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

Additional Information / Prior Funding History:

FY2010 - \$1,200,000; FY2008 - \$1,200,000; FY2007 - \$900,000; FY2006 - \$900,000; FY2005 - \$900,000; FY2004 - \$900,000; FY2003 - \$950,000; FY2002 - \$1,100,000; FY2001 - \$1,260,000; FY2000 - \$1,045,000; FY1999 - \$1,402,400.

Project Description/Justification:

The Alaska Department of Transportation and Public Facilities' (DOT&PF) Division of Program Development is responsible for collecting, archiving and distributing accurate vehicle volume, classification and speed data. These data are used to meet Federal Highway Administration (FHWA) specifications in CFR23 to provide highway use data for: apportionment of federal-aid funds, bridge, pavement and road design; congestion management; FHWA annual reporting requirements and other issues as they relate to transportation and commerce. The purpose of this project is to replace and upgrade permanent traffic recorder systems in the state. The new systems will determine type of vehicles (i.e., car, truck) in addition to counting the number and speed of vehicles. Between three to six sites will be completed annually depending on location and number of lanes. This project also includes the addition or replacement of temperature probes. A portion of the funds will be used to address software and communication issues to include the data in the state's Traffic Management System (TMS) for Highways.

The purpose of the Traffic Data System (TDS) program is to provide vehicle volume, vehicle classification, speed, and truck weight (Weigh-in-Motion (WIM)) data collected at various road

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locations. Specific information technology activities include system configuration, hardware/software maintenance, system/database administration, application development, research and development and project management.

The department intends to outsource the following segments of this project:

- Complete a review of best business practices (data retrieval, archiving (raw data), processing and storage with a web interface) and develop a business plan for the traffic data system database.
- Convert to the new version of the Highway Performance Monitoring System (HPMS) PC software; to complete a plan for collecting, storing and updating curve and grade data for the National Highway System roads in this system; improve processes to insure a timely submittal.
- Convert state web based weigh in motion database to new windows software for data retrieval and processing; update or add reports to meet FHWA new Traffic Monitoring System Manual guidelines.

Due to new FHWA guidelines, 12 - 15 continuous traffic volume sites will be upgraded to continuous vehicle classification sites and two weigh in motion sites will be added. The need for additional storage will be determined as the traffic data system business plan is developed.