Statewide - Highway Data Equipment Acquisition and Installation	**FY2014 Request:**	**$2,000,000**
	Reference No:	**36196**

AP/AL: Allocation   **Project Type:** Equipment / Commodities
Category: Transportation
Location: Statewide   **House District:** Statewide (HD 1-40)
Impact House District: Statewide (HD 1-40)   **Contact:** Pat Kemp
Estimated Project Dates: 07/01/2013 - 06/30/2018   **Contact Phone:** (907)465-3900
Appropriation: Surface Transportation Program

Brief Summary and Statement of Need:
Design, construct or rehabilitate traffic data collection sites and develop software for the state's federally required Traffic Monitoring System for Highways (TMS/H). This project includes purchase of items such as: traffic data counters; cameras; computers; software for in office data retrieval; program evaluations; and, IT needs for data collection, communications, and software.

Funding:	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	Total
Fed Rcpts	$2,000,000						$2,000,000
Total:	$2,000,000	$0	$0	$0	$0	$0	$2,000,000

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

Operating & Maintenance Costs:

	Amount	Staff
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Prior Funding History / Additional Information:

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 (http://www.dot.alaska.gov/stwdplng/transdata/traffic.shtml). 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 (http://www.dot.alaska.gov/stwdplng/transdata/traffic_hpms_wim.shtml); and other issues as they relate to transportation and commerce. The purpose of this project is to replace or upgrade traffic recorder equipment for continuous and short term traffic counts. Also included are continuations of upgrading permanent volume sites to vehicle classification (VC) sites. The new systems will determine vehicle types (i.e., car, truck) and speed in addition to counting the number vehicles. There are over 100 continuous traffic counting sites. In the last three years, over 30 sites with a total of more than 85 lanes were upgraded to collect VC data. Over 225 counters were purchased in the last three years for completing short term counts. In addition, 65 modems were replaced at permanent sites. Ten to fifteen sites will be upgraded or rehabilitated in the next two years depending on location and number of lanes. This project also includes the addition or replacement of

State of Alaska Capital Project Summary   Department of Transportation/Public Facilities
Enacted FY13 and FY14   Reference No: 36196
5/21/13 10:38:03 AM   Page 1   Released May 21, 2013

temperature probes. A portion of the funds will be used to purchase or lease vendor specific software or develop software to retrieve and process data (i.e. quality control) to include the data in the state's legacy Highway Analysis System Traffic Data System (HAS/TDS) mainframe. A portion of the funds will be used to determine and acquire a replacement for mainframe system which will meet current reporting requirements such as reporting data by lane in addition to direction.

The purpose of the Traffic Data System (TDS) program is to provide vehicle volume, vehicle classification, and speed data to the states TMS/H collected at various road locations. (Truck weight (Weigh-in-Motion (WIM)) data is included under the WIM equipment project.).

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. In progress at this time.
•   Documentation of legacy Highway Analysis System Traffic Data System mainframe system. Documentation of new requirements and associated business rules and develop new system requirements to purchase of replacement for HAS/TDS.