Statewide: Intelligent Transportation Systems Operations & **FY2006 Request:** **$600,000**
Maintenance (IWAYS) **Reference No:** **AMD 38498**

AP/AL: Allocation **Project Type:** Construction
Category: Transportation
Location: Statewide **Contact:** John MacKinnon
House District: Statewide (HD 1-40) **Contact Phone:** (907)465-6973
Estimated Project Dates: 07/01/2005 - 06/30/2010
Appropriation: Surface Transportation Program

Brief Summary and Statement of Need:
Operations and maintenance of Intelligent Transportation Systems (ITS) projects that are part of the
Alaska Iways Architecture Implementation plan. Project includes advanced technology for snow & ice
removal, multi-modal information connections, traveler communications, internal operations and
commercial vehicle operations. 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:	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	Total
Fed Rcpts	$600,000						$600,000
Total:	$600,000	$0	$0	$0	$0	$0	$600,000

☑ State Match Required	☐ One-Time Project	☐ Phased - new	☐ Phased - underway	☑ On-Going	
20% = 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

Additional Information / Prior Funding History:
FY2005 - $600,000; FY2004 - $1,400,000.

Project Description/Justification:
The Alaska Department of Transportation & Public Facilities has initiated several Intelligent Transportation Systems (ITS)
statewide which includes: Alaska Travel Information System, Road Weather Information Systems, Land Mobile Radio
Communications, Intelligent Specialty Vehicle System, Maintenance Management System, Commercial Vehicle
Information System Network, and other systems defined as ITS in the Alaska Iways Architecture and Implementation Plan
(AI2). The five program areas in AI2 include advanced technology for snow & ice control, multi-modal information
connections, traveler communications, internal operations, and commercial vehicle operations.

This project provides for operations and maintenance, as well as for full deployment of these ITS projects as defined in
the AI2. Ongoing maintenance and operations of these systems are critical to the success of the Department's Iways
program. The Road Weather Information Systems (RWIS) is an ongoing project of deploying road weather towers along
major highways used for Maintenance & Operations to make management decisions. The Department needs funding to
complete deployment of 31 sites statewide, deploy additional RWIS sites in critical areas and provide ongoing
maintenance and operations.

The Alaska Traveler Information System (ATIS) implements the Condition Acquisition & Reporting System/511
(CARS/511). CARS/511 provides the capability to share travel information both internally and to the public as a means to
communicate events on the Alaska transportation network. CARS/511 is an internet, map based software used by
ADOT&PF and partnering agencies to enter transportation related information i.e. road conditions, construction, delays,
closures, major accidents, ferry tracking, and road weather information systems. The information is made available to the

public by dialing 5-1-1 anywhere in the state or accessing 511.Alaska.gov on the web.

CARS/511 provides automated statewide road condition reporting. CARS/511 collects travel information into one system and distributes to internal ADOT&PF personnel, partnering agencies, and the public into one phone number and one web page. Travel information helps improve safety and efficiency of travel for all users of the system. the department anticipates significant staff time and dollar savings. This is a completely automated system - once the information (road conditions, roadwork, closures, urgent reports, etc) is entered it is automatically available in the 5-1-1-travel information number and 511.Alaska.gov. There is no need for double entry. Updating information is fast and efficient through this automated system. This cuts down on staff time required to respond to the public requesting travel and safety information because the public now has information from one number and one web page

As part of the national system, the Alaska 511 deployment adheres to state, department, national standards and Intelligent Transportation System (ITS) standards. DOT has been given special approval to continue providing 511.Alaska.gov access even though it does not adhere to State web page standards.

The 511 Travel Information Number is hosted through a pooled fund. Castle Rock Consultants provides operations and maintenance through a 13 state pooled fund effort. The ATIS is a "system" and relies on a number of resources and technologies to implement the system. This includes users from ADOT&PF (M&O, Construction, ROW (Right of Way), etc) and other partnering agencies (the Municipality of Anchorage, the State Troopers, etc). It also provides workstations to access the system, a main server to collect and archive the data and technology to send the information to a voice activated telephone system. The department relies on the pooled fund to provide voice activated telephone system hardware, a main server (temporary) and the ability to upgrade and fix system errors. DOT's IT staff does very little to maintain and operate the system.