

MEMORANDUM

State of Alaska

Department of Transportation and Public Facilities
Central Region – Design & Engineering Services
Highway Design

To: Charles Deininger
Chief Contracts Officer

Date: October 24, 2017

Thru: Mike Vigue
Division Director

Thru: Jill Sullivan
Transportation Planner

From: Matt Murphy
Planner III

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Subject: **Automated Traffic Recorders
Blanket Public Interest Finding**

Introduction

The Alaska Department of Transportation and Public Facilities (DOT&PF) is seeking a blanket Public Interest Finding (PIF) to allow specification of proprietary items associated with Automated Traffic Recorder (ATR) equipment on a variety of state and federally funded highway construction projects statewide.

Proprietary Items

Radar-based Traffic Detection Equipment – Wavetronix SmartSensor, Model SS125/SS126
Estimated Cost Each: \$8,000.00

Data Logger – Campbell Scientific (CSI), Model CR1000X-XT-SW-NC Measurement and Control Datalogger
Estimated Cost Each: \$1,500.00

Cellular Modem – Sierra Wireless, Model RV50
Estimated Cost Each: \$750.00

Temperature Data Probe - Campbell Scientific, Model CS230-L92-S15-E0 / 32279-69
Estimated Cost Each: \$2500.00

Pavement Sensor - Campbell Scientific, Model 105E-L
Estimated Cost Each: \$250.00

Air Temperature Sensor - Campbell Scientific, Model 107 Temperature Probe
Estimate Cost Each: \$150.00

Solar Radiation Shield- Campbell Scientific, Model 41303-5A
Estimated Cost Each: \$120.00

Justification for Public Interest Finding

The proposed equipment, except for updates to current manufacturer models, has been used by DOT&PF for over 10 years. Historically, a Blanket PIF was approved for Weigh-in-Motion automated recording equipment (May 2001), a project specific PIF (Central Region Highway Equipment 2012) was approved for some of the proprietary items included in this PIF; and a blanket PIF was approved in February 2015 (PIF 25-15-006) for Wavetronix SmartSensor Model SS125/SS126, CSI Model CR1000X-XT-SW-NC, and Sierra Wireless Model RV50. PIF 25-15-006 was valid until February 2020, however this PIF supersedes in order to link all brand specified components associated with ATR sites covered by PIF for the same duration of time. This equipment has been carefully specified and selected to interface in a system for gathering, recording and communicating data efficiently. This equipment has also been selected based on low maintenance requirements. DOT&PF currently maintains stock of proprietary items identified in this PIF and continued standardizing of the equipment allows quick switch-out of damaged equipment with backup supplies. Standardization of equipment also reduces the amount of training DOT&PF staff will need for continued operation of the system and troubleshooting operational errors. This is important because a data site that is out of operation for more than 30 days loses its value in terms of the DOT&PF responsibility to FHWA to gather this data.

Duration Public Interest Finding is Valid For

This Public Interest Finding shall be valid for a period of five years from date of approval.

Finding of Public Interest

It is hereby found to be in the Public's best interest and consistent with the Code of Federal Regulations Title 23, Section 635.411 and DOT&PF Policy and Procedure 10.02.013 to specify proprietary items on multiple highway projects.

Submitted by:		<u>10/30/17</u>
	Matt Murphy Planner III	Date
Recommended by:		<u>10-30-17</u>
	Jill Sullivan Transportation Planner	Date
Recommended by:		<u>10/30/17</u>
	Mike Vigue Division Director	Date
Approved by:		<u>10/30/17</u>
	Charlie Deininger Chief Contracts Officer	Date