

# MEMORANDUM

# State of Alaska

Department of Transportation & Public Facilities  
Design and Engineering Services – Southcoast Region  
Preconstruction / Design

**TO:** Charlie Deininger  
Chief Contracts Officer

**DATE:** February 18, 2015

**THRU:** Dianna Blair   
for SC Regional Director

**TELEPHONE NO:** 465-4439

**THRU:** Vanda Randolph   
SC Region Contracts Officer

**FAX NUMBER:** 465-4414

**25-15-011-PIF**

**FROM:** David Epstein, P.E.   
Engineering Manager

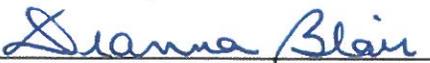
**SUBJECT:** Approval to Purchase and Utilize  
Wavetronix SmartSensor radar-  
based traffic detection products  
on 67987 JNU Brotherhood  
Bridge Reconstruction

We seek approval to purchase Wavetronix SmartSensor radar-based vehicle detection equipment in order to restore the existing equipment that will be adversely impacted by reconstruction of the Brotherhood Bridge. In-pavement detector loops serving the traffic signal at the intersection of Glacier Highway and Riverside Drive will be destroyed in the process of realigning the Glacier Highway approach to the new span. The Department has decided to replace the in-pavement system with an above-ground, radar-based detection system to preclude future damage as well as restore operational functionality.

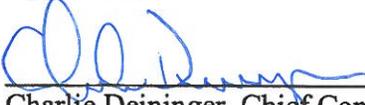
A Public Interest Finding was prepared justifying the use of SmartSensor equipment on this project. As outlined in the Public Interest Finding (attached), we believe that it is in the State's best interest to facilitate the purchase of the proprietary Wavetronix SmartSensor equipment. We believe this request is in accordance with 23 CFR 635.411 and as required by Policy and Procedure 10.02.013. The procurement will be done through a change order to the construction contract.

By signing below, the parties agree that purchase and use of SmartSensor equipment is in the State's best interest.

Recommended:

 2/19/15  
Dianna Blair for SC Regional Director Date

Approved:

 2/20/15  
Charlie Deininger, Chief Contracts Officer Date

**PUBLIC INTEREST FINDING - PROJECT # 67987  
JNU BROTHERHOOD BRIDGE RECONSTRUCTION  
STATE-FURNISHED RADAR VEHICLE DETECTION SYSTEM AND  
SPECIFICATION OF PATENTED OR PROPRIETARY ITEMS**

Introduction:

This Public Interest Finding is to allow the Department of Transportation & Public Facilities to provide radar-based Wavetronix SmartSensor vehicle detection equipment in support of the Juneau Brotherhood Bridge Reconstruction project (hereinafter referred to as “The Project”).

Purpose:

The reconstruction of Brotherhood Bridge requires realignment of Glacier Highway from the Riverside Drive intersection to the new bridge abutment. Existing in-pavement detector loops associated with the Glacier Highway – Riverside Drive traffic signal will be destroyed by this construction.

The method of detector system repair presented a target of opportunity to the Department, i.e., considering if simply replacing the loops made the most sense or looking at other options that would resolve the immediate problem and, at the same time, preclude similar occurrences in future like projects. The Department has determined that it makes the most sense to replace the in-pavement loop detector system with radar detection.

The principal benefit of radar is that its components are mounted on existing signal poles and mast arms. They cannot be dug up in the course of pavement resurfacing or reconstruction. The radar detection system is compatible with existing control equipment. Approval is sought to specify Wavetronix SmartSensor radar detection equipment as this is the brand approved for use on other Juneau-area projects. This will require approval of a Public Interest Finding (PIF).

The Department proposes to purchase the Wavetronix SmartSensor equipment via a change order to the construction contract. The Engineer’s Estimate for this procurement is \$34,477. This request is in the state’s best interest for the following reasons:

1. As The Project is already underway, time is of the essence. By virtue of past experience in procuring radar detection systems, we have knowledge of exactly what components are required to meet the requirements for The Project. Required components can be ordered expeditiously without undue delay to The Project.
2. Specifying the same brand being used on other projects in Juneau will optimize traffic operations and maintenance.

Based on the foregoing reasons, we request approval of this PIF.

