MEMORANDUM

State of Alaska

Department of Transportation and Public Facilities

To: Joel G. St. Aubin, P.E,
Central Region Construction Engineer

Date: May 31, 2022

Thru: Sharon L. Smith, P.E.,
Chief of Contracts

Telephone No: 269-0639

From: Scott Thomas, P.E SET
Central Region Traffic & Safety Engineer

Subject: Axis Camera Brand Name Spec

Determination:

In accordance with P & P 10.02.050 and Alaska Administrative Code 2 AAC 12.100, this Determination supports the specification of brand specific items for state funded construction contracts and federally funded construction contracts advertised in Central Region for a period not to exceed three (3) years, beginning on the date this Determination is fully executed by the Central Region Construction Engineer who serves as the Contracting Officer for those construction contracts.

Items to be specified by brand name:

Axis multi-sensor cameras of the Q6000 family, mounting hardware, supporting electronics, software, and services, to include latest models.

Justification:

1. While a single camera PTZ helps to perform signal timing, it is limited to a single direction. Traffic on side streets and that approaching the intersection from the opposite direction is not visible, making it difficult for the timing engineer to consider the impact from and to any traffic other than that being observed.

2. The device protects the public by providing video of all legs of an intersection to optimize timing plans at a cost which is lower than alternative video observation methods. The cost of a installed Axis Camera is expected to be about $5000, whereas the cost of 5 single cameras, mounted in separate housings, would be expected to exceed $10,000.

3. Central Region adopted the Q6000 family of multi-sensor cameras in 2017 when it was the only ruggedized camera that incorporated 5 cameras, allowing the simultaneous viewing of the 4 approaches to a typical signalized intersection. The additional PTZ camera provides additional coverage and detail for vehicle count, troubleshooting, and roadway traffic and weather for the Alaska 511 traveler information system.

4. At the time the Q6000 family was selected, it had the ability to stitch together the images from all 4 fixed sensors into a single image, which is very easy to watch and which we provide to 511.

5. Standardizing on a video device reduces software, parts inventory, parts carried in the limited space on-board service vehicles, and training.

6. Non-standard devices endanger the public by introducing sources of confusion and complexity to Department personnel. In the event of an emergency or inclement weather conditions, requiring field personnel to recall how a feature is implemented in a particular situation by a particular manufacturer would add unnecessary complexity. This is a situation in which for the safety of the technicians and the roadway users it is crucial to keep it simple, minimizing opportunity for errors, and keeping downtime to a minimum.

Submitted by: Scott E Thomas 5/31/22
Scott Thomas, P.E.
Central Region Traffic & Safety Engineer
Date

Recommended by: Ryan Norkoli for 6/1/2022
Sharon L. Smith, P.E.
Chief of Contracts
Date

Approved by: 6/2/2022
Joel G. St Aubin, P.E.
Central Region Construction Engineer,
and Contracting Officer
Date

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