



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

June 7, 2022

SUBJECT: FAP Route 681 (IL 116)
Project STP-DSSQ(974)
Section (113)RS-3
Livingston County
Contract No. 66E53
Item No. 25, June 17, 2022 Letting
Addendum B

NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Revised pages 10 and 20 of the Special Provisions.

Prime contractors must utilize the enclosed material when preparing their bid and must include any changes to the Schedule of Prices in their bid.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Jack A. Elston'.

Jack A. Elston, P.E.
Bureau Chief, Design and Environment

VIDEO VEHICLE DETECTION SYSTEM

This specification sets forth the minimum requirements for a video detection system that shall detect an advanced vehicle on a roadway by processing video images, and that provides vehicle presence, traffic flow data, event alarms, and full-motion video for real-time traffic control and management systems. This system shall be furnished and installed into the existing controller cabinet.

The Video Vehicle Detection System shall be used at the traffic signals at the six intersections of IL 116 with Howard Street, Ladd Street, Mill Street, Main Street, Elm Street, and Marrow Street in city of Pontiac, Illinois. The Video Vehicle Detection System shall be the latest version of the industry standards and shall take the place of the existing detector loops.

The Video Vehicle Detection System shall have a 10-year paid cellular service plan or any other 10-year paid reliable interconnectivity service plan which would be used for cellular or interconnectivity data. The Illinois Department of Transportation (IDOT) shall not have to pay for any cellular or any other 10-year paid reliable interconnectivity service plans or data until after the end of the 10-year plan. The plan should have unlimited data, roaming charges, and minutes for all incoming and outgoing connections. The 10-year paid cellular or any other 10-year paid reliable interconnectivity service plan shall also have unlimited and uninterrupted streaming video capabilities. This cellular or any other 10-year paid reliable interconnectivity service data plan shall also include unlimited hotspot service for the area covering the State of Illinois. This cellular or any other 10-year paid reliable interconnectivity service plan should be the same plan as the Remote-Controlled Video System cellular or any other 10-year paid reliable interconnectivity plan.

The start date of the paid cellular service plan shall not begin until the Video Vehicle Detection System is approved by the Resident Engineer.

After the new system is up and running, the Video Vehicle Detection System shall include removing all existing detector wire from handhole, conduit, poles, and controllers due to installation of new cameras. Before removal, the contractor shall inform the City Engineer and District 3 Bureau of Operations, Traffic Signal Section.

The Video Vehicle Detection system also includes removing all detector harnesses, detector amplifier racks, amplifier detector loop panels and any other detector loop items inside controller cabinet. The amplifiers shall remain the property of the State of Illinois and the remaining detector loop items and wires shall be disposed of as outlined in the specification book.

The Video Vehicle Detection System shall include removing the existing nonfunctional handholes which are the ones that have existing detector loop cables only. The removal of existing handholes shall be according to section 895 of the Standard Specifications for Road Construction.

The contractor shall provide two (2) days of training by a factory representative on the software for up to ten (10) people.

The Video Vehicle Detection System shall provide remote access to nine (9) tablets, nine (9) laptops, and three (3) desktops at the IDOT District 3 office in Ottawa, Illinois. All devices shall have access to all video cameras to be able to watch or change detector zone placement, type, and size at all intersecting legs.

The Video Vehicle Detection System shall be capable of communicating with the Centrac's Advance Traffic Management System and the Tactic's Advance Traffic Management System.

Revised June 7, 2022

PERMANENT TRAFFIC SIGNAL TIMING

Description. This work shall consist of developing and implementing appropriate traffic signal timings for the intersection of IL 113 and Berta Road at the traffic signal turn-on.

All timings and adjustments necessary for this work shall be performed by an approved Consultant who has previous experience in optimizing Closed Loop Traffic Signal Systems for IDOT District 3. The Contractor shall contact the Traffic Signal Engineer for a listing of approved Consultants.

The following tasks are associated with PERMANENT TRAFFIC SIGNAL TIMING:

- a) The Consultant shall conduct on-site implementation of the traffic signal timings for the traffic signal turn-on.
- b) The Consultant shall be responsible for making fine-tuning adjustments to the timings in the field to alleviate observed adverse operating conditions and to enhance operations.
- c) The Consultant needs to calculate and implement new pedestrian, yellow, and red clearances according to the MUTCD and District 3 policies. The Consultant shall provide clearance calculations for the Traffic Signal Engineer to review.
- d) The Consultant shall “zero out” all density times.
- e) The Consultant shall confirm all detection is “non-locking.”

Basis of Payment. The work shall be paid for at the contract unit price Each for PERMANENT TRAFFIC SIGNAL TIMING which price shall be payment in full for performing all work described herein per intersection.

REMOTE-CONTROLLED VIDEO SYSTEM

Description. This work shall consist of developing and implementing appropriate traffic signal timings for the six intersections of IL 116 with Howard Street, Ladd Street, Mill Street, Main Street, Elm Street, and Marrow Street in city of Pontiac, Illinois at the traffic signal turn-on. Plus furnishing and installing a Remote-Controlled Video System as specified herein.

- a) **The Remote-Controlled Video System shall be installed in the proposed traffic control cabinets as shown on the plan details.** The cellular or any other reliable interconnectivity router shall provide secure internet connectivity for the video cameras, controller, MMU (conflict monitor), UPS, and all other devices in the new controller cabinet.

This cellular or any other reliable interconnectivity service data plan shall also include unlimited hotspot service for the area covering the State of Illinois.

The Remote-Controlled Video System shall include two (2) PTZ cameras and shall be mounted on a mast arm with the extension bracket if needed, using the manufacturer’s guidelines. The two (2) PTZ cameras shall have great visibility for all 4 directions including all signal heads except near rights and the traffic signal cabinet.

Revised June 7, 2022