



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

April 17, 2025

SUBJECT: FAU 5757 (15th Avenue)
Section 20-00159-00-PV, 22-00159-01-PV (East Moline)
Rock Island
Contract No. 85774
Item 196
April 25, 2025 Letting
Addendum (A)

NOTICE TO PROSPECTIVE BIDDERS:

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

- 1. Revised the Schedule of Prices**
- 2. Revised Plan Sheets 5, 6, 93, 95 & 97**
- 3. Revised pages ii & iii of the Special Provision Index**
- 4. Revised page 32 of the Special Provisions**
- 5. Added pages 31A-31C, & 103A to 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

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9.4 The Contractor shall provide copies of the supplier warranty to the Engineer prior to Final Acceptance.

Basis of Payment:

The above work will be paid for at the contract unit price Each for **VIDEO VEHICLE DETECTION SYSTEM** which price will be payment in full for all labor, equipment, and materials required to supply, install, configure, and test the video vehicle detection system described above, complete.

RAILROAD, FULL-ACTUATED CONTROLLER AND CABINET

Description. - This work shall consist of furnishing and installing a traffic actuated solid state digital controller in the controller cabinet of the type specified, meeting the requirements of Section 857 of the Standard Specifications as modified herein and including conflict monitor or MMU, load switches and flasher relays, with interlock function to the railroad preemptor and all necessary connections for proper operation.

If the intersection is part of an existing system and/or when specified in the plans, this work shall consist of furnishing and installing a traffic actuated solid state controller.

Controller and cabinet shall be assembled only by an approved IDOT District Two traffic signal equipment supplier. The equipment shall be tested and approved in the equipment supplier's District Two's facility prior to field installation.

Materials. - Add the following to Article 857.02 of the Standard Specifications:

For installation as a stand-alone traffic signal, connected to a closed loop system or integrated into an advance traffic management system (ATMS), controllers shall be Econolite Cobalt or Eagle/Siemens M52 or M60 unless specified otherwise on the plans or elsewhere on these specifications. Only controllers supplied by one of the District Two approved closed loop equipment supplier will be allowed. The controller shall be the most recent model and software version approved by IDOT for use with railroad intersections supplied by the equipment supplier at the time of the traffic signal TURN-ON unless specified otherwise on plans or this specification, and include a removable data key. Individual load switches shall be provided for each vehicle, pedestrian, and right turn over lap phase. The controller shall prevent phases from being omitted during program changes and after all preemption events and shall inhibit simultaneous display of circular yellow and yellow arrow indications.

For integration into an ATMS such as Centrac, Tactics, or TransSuite, the controller shall have the latest version of NTCIP software installed. For operation prior to integration into an ATMS, the controller shall maintain existing communications.

Controller shall comply with Article 1073.01 as amended herein.

Controller Cabinet and Peripheral Equipment shall comply with Article 1074.03 as amended in these Traffic Signal Special Provisions.

Add the following to Articles 1073.01 (c) (2) and 1074.03 (a) (5) (e) of the Standard Specifications:

Controllers and cabinets shall be new and NEMA TS2 Type 1 or NEMA TS2 Type 2 design.

Railroad interconnected controllers and cabinets shall be assembled only by an approved traffic signal equipment supplier. All railroad interconnected (including temporary railroad interconnect) controllers and cabinets shall be new, built, tested and approved by the controller equipment vendor, in the vendor's State of Illinois facility, prior to field installation. The vendor shall provide the technical equipment and assistance as required by the Engineer to fully test this equipment.

Add the following to Article 1074.03 of the Standard Specifications:

- (a) (6) Cabinets shall be designed for NEMA TS2 Type 1 or NEMA TS2 Type 2 operation. All cabinets shall be pre-wired for a minimum of eight (8) phases of vehicular, four (4) phases of pedestrian and four (4) phases of overlap operation.
- (b) (1) Revise "conflict monitor" to read "Malfunction Management Unit"
- (b) (5) Cabinets – Provide 1/8" (3.2 mm) thick unpainted aluminum alloy 5052-H32. The surface shall be smooth, free of marks and scratches. All external hardware shall be stainless steel.
- (b) (6) Controller Harness – Provide a TS2 Type 2 "A" wired harness in addition to the TS2 Type 1 harness.
- (b) (7) Surge Protection – Shall be a 120VAC Single phase Modular filter Plug-in type, supplied from an approved vendor.
- (b) (8) BIU – shall be secured by mechanical means.
- (b) (9) Transfer Relays – Solid state or mechanical flash relays are acceptable.
- (b) (10) Switch Guards – All switches shall be guarded.
- (b) (11) Heating – One (1) 200 watt, thermostatically-controlled, electric heater.
- (b) (12) Lighting – One (1) LED Panel shall be placed inside the cabinet top panel and one (1) LED Panel shall be placed on each side of the pull-out drawer/shelf assembly located beneath the controller support shelf. The LED Panels shall be controlled by a door switch. The LED Panels shall be provided from an approved vendor.
- (b) (13) The cabinet shall be equipped with a pull-out drawer/shelf assembly. A 1 ½ inch (38mm) deep drawer shall be provided in the cabinet, mounted directly beneath the controller support shelf. The drawer shall have a hinged top cover and shall be capable of accommodating one (1) complete set of cabinet prints and manuals. This drawer shall support 50 lbs. (23 kg) in weight when fully extended. The drawer shall open and close smoothly. Drawer dimensions shall make maximum use of available depth offered by the controller shelf and be a minimum of 18 inches (610mm) wide.
- (b) (14) Plan & Wiring Diagrams – 12" x 15" (3.05mm x 4.06mm) moisture sealed container attached to door.
- (b) (15) Detector Racks – Fully wired and labeled for four (4) channels of emergency vehicle pre-emption and sixteen channels (16) of vehicular operation.
- (b) (16) Field Wiring Labels – All field wiring shall be labeled.
- (b) (17) Field Wiring Termination – Approved channel lugs required.
- (b) (18) Power Panel – Provide a nonconductive shield.
- (b) (19) Circuit Breaker – The circuit breaker shall be sized for the proposed load but shall not be rated less than 30 amps.
- (b) (20) Police Door – Provide wiring and termination for plug in manual phase advance switch.
- (b) (21) Railroad Pre-Emption Test Switch – Shall be provided from an approved vendor.
- (b) (22) An eight (8) outlet grounded three wire, 15A, 120V, surge protector shall be provided and mounted inside the cabinet above the cabinet power supply. The device shall have UL 1449 3rd Edition and UL 1363 certifications. The maximum device surge amps shall be greater than or equal to 84,000, AC suppression joule rating of 1,440, and capable of outputting 1,800 watts.

(b) (23) A self-adhering phasing diagram shall be placed on the inside of the cabinet door.

Installation. - This item requires that a factor representative capable of ensuring that the controller and cabinet are operating to the satisfaction of the Engineer shall be present at the turn on of the controller and shall remain until the intersection is operating to the satisfaction of the Engineer. Should a defect appear in the controller or cabinet operation, the representative shall return as often as necessary until all defects are repaired.

At the preconstruction meeting, the Contractor shall provide the names and phone numbers of two technicians who would be able to respond to controller malfunctions that occur within the 30 day acceptance period after the controller is turned on. If neither person can be reached at the time of the malfunction nor be at the location within 2 hours of receiving the call, any available electrician capable of evaluating and correcting the malfunction may be called at the City's discretion. Any and all bills resulting from defective operation of the controller or cabinet shall be the responsibility of the Contractor.

Basis of Payment. - This work will be paid for at the contract unit price each for RAILROAD, FULL-ACTUATED CONTROLLER AND TYPE V CABINET.

SPARE RAILROAD, FULL ACTUATED CONTROLLER, SPECIAL

This work shall consist of furnishing a traffic actuated solid state digital controller identical to the controller supplied and programmed with RAILROAD FULL-ACTUATED CONTROLLER AND CABINET. This controller shall meet all requirements specified herein for RAILROAD, FULL-ACTUATED CONTROLLER AND CABINET, including programming and testing. The equipment shall be tested and approved in the equipment supplier's Illinois facility prior to field installation.

No cabinet shall be provided as part of this item.

Basis of Payment. - This work will be paid for at the contract unit price per each for SPARE RAILROAD, FULL-ACTUATED CONTROLLER, SPECIAL.

~~9.4 The Contractor shall provide copies of the supplier warranty to the Engineer prior to Final Acceptance.~~

~~Basis of Payment:~~

~~The above work will be paid for at the contract unit price Each for VIDEO VEHICLE DETECTION SYSTEM which price will be payment in full for all labor, equipment, and materials required to supply, install, configure, and test the video vehicle detection system described above, complete.~~

ELECTRICAL CABLE IN CONDUIT, RAILROAD, NO. 14 3C

The cable shall meet the requirements of Section 873 of the Standard Specifications, except for the following:

Add to Article 873.02 of the Standard Specifications:

The railroad interconnect cable shall be three conductor stranded #14 copper cable in a clear polyester binder, shielded with #36 AWG tinned copper braid with 85% coverage, and insulated with .016" polyethylene (black, blue, red). The jacket shall be black 0.045 PVC or polyethylene.

Add the following to Article 873.05 of the Standard Specifications:

Basis of Payment: This work shall be paid for at the contract unit price per Foot for ELECTRIC CABLE IN CONDUIT, RAILROAD, NO. 14 3C, which price shall be payment in full for furnishing, installing, and making all electrical connections in the traffic signal controller cabinet. Connections in the railroad controller cabinet shall be performed by railroad personnel.

GATEWAY MONUMENT SIGN COMPLETE

Description: This work shall consist of providing all labor, materials, and equipment necessary to fabricate, furnish, and install the steel truss and columns of the overhead gateway sign structure.

All components as shown within the design plans, including but not limited to structural steel sections, bolts, connection plates, and anchor bolts shall be included in the cost of Gateway Monument Sign Complete.

The work for painting the columns and truss elements, as indicated on the plans, shall also be included for payment for Gateway Monument Sign Complete.

Foundation elements shall be paid for separately as Drilled Shaft in Soil and Reinforcement Bars, Epoxy Coated.

Luminaire:

The luminaire is to be extruded aluminum construction with clear acrylic lens, polyester power coat finish. The luminaire shall be 141lm/LF, 48" in length, constant current LED driver which operates on input voltages from 120-277vac, 60° x 60° distribution with 300 nominal lumens per foot, 3000K color temperature, 80CRI and U.L. listed for wet locations.

AERIAL CABLE ASSEMBLY, SPECIAL

Description

This work shall consist of furnishing and installing a aerial cable assembly in accordance with Section 818 of the Standard Specifications, the details in the plans, and the following additions or exceptions.

Materials

The wiring shall be 12/2 with ground cable, 600V, XLPE insulation, PVC jacket, sunlight resistant. Cable and steel messenger wire shall be according to Articles 1066.02 and 1066.03. The assembly may have the cable and steel messenger wire lashed by hand with a twisting every 18".

Steel Messenger wire shall be sized accordingly to support the insulated copper conductors as well as LED Catenary Luminaires.

Basis of Payment

This work will be paid for at the contract unit price horizontal lineal foot for AERIAL CABLE ASSEMBLY, SPECIAL which price shall include all terminations, labor, equipment, and material necessary to complete the work as specified.