



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

May 28, 2026

SUBJECT: FAP Route 5 (US BUS 20)
Project STP-EZCH(928)
Section (20-1, 19Z)RS-7
Stephenson County
Contract No. 64N73
Item No. 200, June 12, 2026 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 page iii of the Table of Contents to the Special Provisions.
2. Added pages 112-114 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

SURVEYING SERVICES (BDE)	90
TRAFFIC SIGNAL BACKPLATE (BDE)	90
VEHICLE AND EQUIPMENT WARNING LIGHTS (BDE).....	91
WOOD SIGN SUPPORT (BDE).....	91
WORK ZONE TRAFFIC CONTROL DEVICES (BDE).....	91
WORKING DAYS (BDE)	93
PROJECT LABOR AGREEMENT	94
FULL ACTUATED CONTROLLER AND TYPE IV CABINET.....	112

Revised May 28, 2026

FULL ACTUATED CONTROLLER AND TYPE IV CABINET

This item shall consist of furnishing, installing and placing into operation a multi-phase microprocessor-based controller at the locations indicated on the plans, or as directed by the Engineer. The controller shall comply with the requirements of Section 857, 1073.01 and 1074.03 of the current "Standard Specifications for Road and Bridge Construction" and the following additions and exceptions.

The controller shall meet the requirements of the NEMA TS2 standards for a Type 2 controller. Data entry shall be by keyboard or personal computer.

The traffic signal cabinet shall have a NEMA TS-2 back panel. The cabinet shall include a malfunction management unit to allow enhanced fault monitoring capabilities. The intersection of Illinois 40 (Locust Street) with Lynn Boulevard shall house the Master Controller.

The cabinet shall have an aluminum finish. If rivets are exposed on the outside of the cabinet, they shall be either stainless steel or aluminum to prevent oxidation.

The police door compartment shall contain a manual control cord which the signals may be operated manually. The inside door toggle switch shall be protected from accidental contact by vertical metal slats. The slats shall extend beyond the switches, in a manner similar to the terminals on the back panel. A plastic plans holder shall be installed on the cabinet door. The holder shall be at least 11 inches high by 17 inches wide, shall open from the side and shall not interfere with the filter. The holder shall have a means of closing the side opening to prevent water from entering.

A Plexiglas cover, or other high strength nonconductive cover, shall be installed over, and completely cover, the power panel. The cover shall completely shield the service wires, and circuit breaker wires from accidental contact.

A Plexiglas cover, or other high strength nonconductive cover, shall be installed over and completely cover, the power terminals for the thermostatically controlled exhaust fan. The thermostat shall be of the knob type capable of adjustment by hand and without tools. The thermostat and terminals shall be mounted on the left or right side of the controller cabinet.

Cabinet Lighting:

The traffic signal cabinet shall be equipped with a cabinet-door-switchable LED service light fixture.

The traffic signal cabinet shall be equipped with a conventional light bulb socket receptacle on a manual on/off switch.

A separate 20-amp breaker shall be provided for a streetlight circuit.

Added May 28, 2026

Transfer Switch:

The traffic signal cabinet shall be equipped with a transfer switch on the outside of the cabinet, no less than 24" above ground level, for the use of an emergency generator to power the signals in case of a signal blackout. The transfer switch shall be in accordance with the 2002 National Electric Code Article 702.6 to prevent feeding back to the utility source.

A ten (10) foot long cord shall be provided to facilitate connection to generator power source. The transfer switch shall be rated for 20 amps at 125 volt with a jumper cord for transitioned from the twist-lok plug in the transfer switch to the standard 120 volt plug for the generator.

A circuit breaker-based switch shall be required to have overload protection in accordance with the National Electric Code/NFPA70.

The housing shall be no less than a heavy duty 12-gauge rust and corrosion-resistant material.

The housing surface shall be smooth, free of marks and scratches and provide an unpainted aluminum finish.

The housing shall be rain tight with the outlet connect underneath the box to maintain the rain tight rating.

The Switch shall be equipped with a sliding interlock to prevent the generator and the utility from feeding at the same time,

The Switch shall be tamper resistant with a #2 key lock system.

The Transfer Switch shall come with a 2-year warranty.

All materials parts and labor for the installation of the Transfer Switch shall be included in the cost of the Full Actuated Controller and Type IV Cabinet pay code at no additional cost.

Each Cabinet shall include a transfer switch which shall be include in the cost of the cabinet.

Fiber Optic Compatible:

Each Controller shall be Fiber Optic Compatible.

The contractor shall have a factory-trained technician from the manufacturer and/or supplier, with expertise in the controllers being installed, present during the controller installation. He will be expected to be able to program the controller timer, trouble-shoot and correct any problems with the equipment that arises and verify that the equipment is functioning according to the plans and specifications.

Added May 28, 2026

All main panel wiring shall conform to the following wire size and color:

Green load switch output	brown wire, 14 gauge
Yellow load switch output	yellow wire, 14 gauge
Red load switch output	red wire, 14 gauge
MMU (other than AC Power)	violet wire, 22 gauge
Controller I/O	blue wire, 22 gauge
AC Line – power panel to main panel (1 for each 4 LS)	Black wire, 10 gauge
AC Line – main panel	black wire, 14 gauge
AC Neutral – power panel to main panel	White wire, 10 gauge
Earth ground – power panel	green wire, 8 gauge
Flashing programming	
Flashing terminal	orange wire, 14 gauge
Red or yellow field terminal	black wire, 14 gauge

The traffic signal controller and cabinet assembly shall be fully tested by the equipment supplier. The supplier of the controller assembly shall provide a Certificate of Acceptance verifying that the conflict monitor has been tested, under load, for all possible combinations and functions properly.

FAN HEATERS WITH THERMOSTAT AND AUTO FAN CONTROL

This work shall consist of installing Fan Heater with Thermostat and Auto Fan control Switch on the inside of a traffic control cabinet to protect electronics for the effect of low temperatures such as corrosion, freezing or condensation, which can damage critical components within a control enclosure.

Type III and IV Cabinet

The fan heaters shall be rated for 200-watt, 115 VAC, and 10 AMP circuit breaker. The heating performance shall be 200 Watts with an airflow volume of 16 CFM. The heaters functional range shall be 103 – 127 VAC and an operating temperature range of -20 to +70 F, with panel type mount.

Type V Cabinet

The fan heaters shall be rated for 400-watt, 115 VAC, and 15 AMP circuit breaker. The heating performance shall be 400 Watts with an airflow volume of 26 CFM. The heaters functional range shall be 103 – 127 VAC and an operating temperature range of -20 to +70 F, with panel type mount.

This item shall not be paid for separately but shall be included in the cost of the Full Actuated Controller of specified type.

Basis of Payment:

This item shall be paid for at the contract unit price EACH for **FULL ACTUATED CONTROLLER AND TYPE IV CABINET**, which price shall be payment in full for furnishing the equipment described above and installing it in satisfactory operating condition.

Added May 28, 2026