



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

September 2, 2021

SUBJECT FAI Route 94/FAP Route 346(I-94/US 41)
Project NHPP-0AQ2(080)
Section 2016-068I
Cook and Lake Counties
Contract No. 62D79
Item No. 2, September 17, 2021 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 pages ii & iii of the Table of Contents to the Special Provisions
3. Revised pages 175-179 & 225 of the Special Provisions
4. Revised sheets 5, 11, 367 & 368 of the Plans

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

MTS

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VIDEO WALL UPGRADES

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Description

This work shall consist of furnishing and installing video distribution equipment at the IDOT District 1 Communication Center. The video distribution equipment shall be comprised of an array of LCD monitors, individual LCD monitors. This work also includes all mounting hardware and cabling required.

Materials

The Contractor shall furnish and install the following items:

- Twenty-eight (28) 42" LCD Display Monitors.
- Two (2) 65" LCD Display Monitors.

LCD Display Monitor, 42"

Manufacturer: LG, Sharp, Samsung, Toshiba, Panasonic, Barco, or approved equal.

Display Technology	Direct View LCD, LED Backlight
Display Area	42.0" measured diagonally
Aspect Ratio	16:9
Native Resolution	1920 x 1080
Brightness (minimum)	450 Cd/m ² (typ.)
Viewing Angle	H: 178° & V: 178°, +/-1°
Contrast	50,000:1 (DCR)
Color Depth	10 bit color resolution – 1.07 B colors
Response Time	8 msec, max.
Light Source	LED
Light Source Lifetime	50,000 hours (minimum)
Usage Rating (hrs/day)	24/7
Dimensions	39" x 23" x 1.5", Approx.
Bezel Width	<10mm
Weight	<35 lbs.
Power Supply	100-240VAC , 60-50 Hz
Power Consumption	<250W
Video Input	HDMI, DVI, DP, PC In, Component, Composite
Control	RS232, RJ45 (Ethernet)
Mount	Monitor manufacturer approved (400mm x 400mm)
Warranty	3 Years

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LCD Display Monitor, 65”

Manufacturer: Shall be the same manufacturer and model series as the 42” LCD provided.

Display Technology	Direct View LCD, LED Backlight
Display Area	64.5” measured diagonally
Aspect Ratio	16:9
Native Resolution	1920 x 1080
Brightness	450 Cd/m ² (typ.)
Viewing Angle	H: 178° & V: 178°, +/-1°
Contrast	10,000:1 (DCR)
Color Depth	10 bit color resolution – 1.07 B colors
Response Time	10 msec, max.
Light Source	LED
Light Source Lifetime	50,000 hours
Usage Rating (hrs/day)	24/7
Dimensions	60.5” x 35.7” x 5.4”, Approx.
Bezel Width	<20mm
Weight	<80 lbs.
Power Supply	100-240VAC , 60-50 Hz
Power Consumption	<250W
Video Input	HDMI, DVI, DP, VGA, Component, Composite
Control	RS232, RJ45 (Ethernet)
Mount	Monitor manufacturer approved (600mm x 400mm)
Warranty	3 Years

Construction Requirements

All new digital video and control cables shall be routed to all 42” and 65” monitor locations prior to removal of the old monitors to facilitate a quick change out and a minimum disruption to Communications Center operations. The change out of critical monitors shall be made within four hours, between the hours of 10:00am and 2:00pm with video fully operational by 2:30pm. At no time shall the Kennedy Expressway REVLAC System operational video be interrupted. Multiple days will be allowed for the change out.

The replacement of the existing 2x3 video monitor array with the 3x3 array plus vertical monitors shall include new support hardware designed to support the configuration as shown in the plans. The video wall should not be out of service for more than 7 calendar days.

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Installation/Removal of Equipment

The Contractor shall install and remove all equipment and cabling as show in the Plans, per manufacturer's recommendations, and as directed by the Engineer. New cabling shall be routed along existing pathways to each existing monitor or monitor array prior to removing the monitors. After removing the existing monitors, the existing cabling shall be removed carefully so as not to damage the new cable.

Existing items to be removed shall be turned over to the Department, or disposed of, as directed by the Engineer. Items to be removed include:

- Twenty-five (25) existing 42" LCD monitors.
- Suspended alarm annunciator panel.

Submittals.

The Contractor shall assemble and submit a complete and detailed plan for the removal and installation of all equipment and cabling. The submittal shall include dimensioned, detailed electrical wiring diagrams for all electrical components and location of power source. The submittal package shall also identify the details of non-equipment requirements of the system, such as specified maintenance training, and it shall include letters of commitment relative to specified warranty and maintenance support. Catalog cut sheets shall be provided for all equipment for review and approval by the Engineer prior to beginning work. A schedule shall be provided to the Engineer for review and approval documenting the proposed work stages and the downtime for any monitors.

Method of Measurement

The work shall be measured for payment as lump sum when furnished, installed, and made fully operational, and tested as detailed herein.

Basis of Payment

This work will be paid for at the contract lump sum price for **VIDEO WALL UPGRADES, IDOT DISTRICT 1.**

MAINTENANCE OF EXISTING SURVEILLANCE INSTALLATION

Effective: August 26, 2021

General.

The Contractor, prior to the commencement of his work, shall notify the Bureau of Traffic Operations Electrical Engineer for a pre-construction inspection. If construction begins prior to this meeting, the Contractor assumes maintenance responsibilities of the locations within his contract limits and shall make any repairs or replace any damaged equipment pre-existing or damaged as a result of his own negligence at his own expense. This also relieves the Electrical Maintenance Contractor of providing one free locate of the surveillance installations within the contract limits.

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Maintenance shall be per location, as defined by the TSC location number. The duration shall be from the time the contractor commences work at the location and finishes work with the subsequent maintenance transfer back to the EMC.

The Contractor shall be required to maintain all tone transmitters, tone receivers, tone power supplies, tone mounting frames, harnesses, controller, and wiring. The Contractor shall be required to maintain all ramp metering and surveillance cabinets, DMS, foundations, handholes, vehicle detection equipment, all interconnecting cables and all Surveillance appurtenances including signal heads.

Maintenance.

1. The Contractor shall provide immediate corrective action when any part or parts of the system fail to function properly.
2. Surveillance equipment which is lost or not returned to the Department for any reason shall be replaced with new equipment meeting the requirements of the Standard Specifications and these special provisions.
3. The Contractor shall respond to all emergency calls from the Department or others within one (1) hour after notification and provide immediate corrective action. When equipment has been damaged or becomes faulty beyond repair, the Contractor shall replace it with new and identical equipment. The cost of furnishing and installing the replaced equipment shall be borne by the Contractor at no additional charge to the contract. The Contractor may institute action to recover damages from a responsible third party. If at any time the Contractor fails to perform all work as specified herein to keep the installation in proper operating condition or if the Engineer cannot contact the Contractor's designated personnel, the Engineer shall have the State's Electrical Maintenance Contractor perform the maintenance work. The Contractor shall be responsible for all of the State's Electrical Maintenance Contractor's costs. The State's Electrical Maintenance Contractor shall bill the Contractor for the total cost of the work. The Contractor shall pay this bill within thirty (30) days of the date of receipt of the invoice or the cost of such work will be deducted from the amount due the Contractor. The Contractor shall allow the Electrical Maintenance Contractor to make reviews of the Installation that has been transferred to the Contractor for Maintenance.
4. Equipment included in this item that is damaged or not operating properly from any cause shall be replaced with new equipment meeting current District One specifications and provided by the Contractor at no additional cost to the Contract and/or owner of the surveillance system, all as approved by the Engineer. Final replacement of damaged equipment must meet the approval of the Engineer prior to or at the time of final inspection otherwise the installation will not be accepted. Cable splices below grade shall not be allowed.
5. The Contractor shall be responsible to clear snow, ice, dirt, debris or other condition that obstructs visibility of any traffic signal display, DMS or access to equipment.

Basis of Payment.

This work will be paid for at the contract unit price each for **MAINTENANCE OF EXISTING SURVEILLANCE INSTALLATION**. Each location will be paid for separately.

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CCTV INTEGRATION

Revised: August 26, 2021

Description

This work shall consist of payment for work performed by a 3rd party for work related to the integration of the video monitors being installed under a separate pay item.

Construction Requirements

The Department will provide the Contractor with the contact information for the 3rd party vendor. The work shall be as directed by the Engineer.

Method of Payment

The Contractor will be reimbursed to the exact amount of money as billed by the 3rd party vendor to provide the CCTV integration work. No extra compensation shall be paid to the Contractor.

For bidding purposes, this item shall be estimated as \$20,000.00

Basis of Payment.

This work will be paid for at the contract lump sum price for **BUDGETARY ALLOWANCE FOR CCTV INTEGRATION** which shall be reimbursement in full.

CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE, FOUNDATION, 80 FT. MOUNTING HEIGHT

Description

This work shall consist of the constructing a steel reinforced concrete foundation, of the dimensions indicated in the Plans, complete with raceways. The foundation depth shall be as indicated in the Foundation Depth Table shown in the Plans.

The foundation shall include excavation, reinforcement, concrete, anchor bolts, nuts, washers and raceways as well as clean up and restoration of the location.

Materials

Concrete shall be Class SI complying with Article 1020.04 of the Standard Specifications.

Reinforcement bars shall comply with Article 1006.10 of the Standard Specifications.

Anchor rods shall comply with Article 1006.09 of the Standard Specifications.

The entire length of the anchor bolts as well as the nuts and washers shall be hot dip galvanized in accordance with the requirements of ASTM Designation F 2329.

Unless otherwise indicated, conduit raceways shall be heavy wall rigid polyvinylchloride (PVC) conduit, (Schedule 40) UL listed and in conformance with NEMA TC2 and Federal Specification WC 1094A. Raceways shall be of the number and size as indicated.

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