



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

August 28, 2020

SUBJECT: FAP Route 346 (US 41)
Section (21&21S)-I
Lake County
Contract No. 62B65
Item No.38 September, 18 2020 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 iv of the Table of Contents to the Special Provisions
2. Revised pages 2, 3 and 664 of the Special Provisions
3. Added pages 837-840 to the Special Provisions
4. Revised sheets 67& 96 of the Plans
5. Added additional geotechnical information and the 663 Forms to the additional information folder on the website

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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DESCRIPTION OF PROJECT

The improvement consists of the decommissioning of existing Pump Station 38 and construction of a new Pump Station 38 in a different location and associated storm sewer and roadway replacement work, including but not limited to, concrete work, reinforcement bars, glass block and masonry work, doors and frame, roofing, sheet metal work, and site work which includes grading, sidewalk, driveway, and bike path relocation. In addition, the pump station shall include mechanical work consisting of pumps including motors, heating and ventilating equipment, piping for pump, electrical distribution, control, instrumentation, intrusion and fire alarm, lighting, equipment, conduit and wiring, electrical service connection, a natural gas back-up generator within a detached generator building, and Supervisory Control and Data Acquisition (SCADA) System. The offsite infrastructure work supporting the functioning of the new pump station includes storm sewer installation, a jack and bore operation under an active railroad, an access controlled highway, and two access ramps, detention pond construction, retaining walls, sidewalk replacement, roadway resurfacing and minimal pavement widening.

STAGING AND SEQUENCE OF CONSTRUCTION DURING DETOUR

Construction Staging: The Contractor shall be responsible for and include all work for implementing and staging construction in a manner that permits the continuous pumping capabilities throughout the contract period. Suggested Roadway Construction Sequencing is provided in the Contract Plans and overall project sequencing is provided in the Suggested Construction Sequencing Specification. The Contractor shall confine his construction operations within the limits of work indicated on the Drawings.

The contractor will not be allowed to set up a yard or field office on State property or within the City of Lake Forest's property without written permission from the department or the City.

The detour related to the exit ramp closures at US 41 and Deerpath Road will be allowed only between July 6, 2021 and August 13, 2021 for a total duration of no longer than four calendar weeks as defined in the Work Restrictions Specification, and shall coincide with the summer break of Deer Path Middle School.

The following work must be completed during the detour period:

- Construction of the receiving pit located in the Southbound exit ramp from US 41 to Deerpath Road
- Jacking of the 54" storm sewer and 72" casing pipe as part of the 'STORM SEWERS JACKED IN PLACE, 54" pay item.
- Installation of all drainage pipes and structures under the southbound exit ramp from US 41 to Deerpath Road.
- Full restoration of the receiving pit area and ramp pavement, curb, and gutter.
- Construction of all drainage structures and storm sewer work within the one lane two-way traffic configuration area on Deerpath Road.
- Restoration of Deerpath Road to a temporary or permanent driving surface approved by the Engineer.

COMPLETION DATE PLUS WORKING DAYS

Effective: September 30, 1985

Revised: January 1, 2007

Revise Article 108.05 (b) of the Standard Specifications as follows:

"When a completion date plus working days is specified, the Contractor shall complete all contract items and safely open all roadways to traffic by 11:59 PM on, December 31, 2022 except as specified herein.

The Contractor will be allowed to complete all clean-up work and punch list items within **10** working days after the completion date for opening the roadway to traffic. Under extenuating circumstances the Engineer may direct that certain items of work, not affecting the safe opening of the roadway to traffic, may be completed within the working days allowed for clean up work and punch list items. Temporary lane closures for this work may be allowed at the discretion of the Engineer.

Revised 8/27/2020

Article 108.09 or the Special Provision for "Failure to Complete the Work on Time", if included in this contract, shall apply to both the completion date and the number of working days.

PRE-BID SITE INSPECTION OF PUMP STATION

The Existing Pump Station No. 38 site, located within the south bridge abutment of US 41 at Deerpath Road interchange in the City of Lake Forest, Illinois will be open for Contractors' inspection on **Monday, September 14, 2020**, between 9:00AM and 12:00PM Central local time. A representative of the State will be on hand during this stated time period. Access to the pump station will be from the east side of the interchange.

PROGRESS SCHEDULE

Time is of the essence in this Contract. It may be necessary for the Contractor to work longer hours, use additional crews, and work during weekends in order to complete the work within the required time limit. The Contractor shall submit a Critical Path Method (CPM) Progress Schedule for the Engineer's approval before the work can be started.

In the event the Contractor falls more than three (3) days behind the approved progress schedule, the Contractor shall work seven (7) days a week at extended hours in order to meet the specified Completion Date.

The Contractor will not be allowed any extra compensation for working longer hours or using extra shifts; working on weekends or during holidays; working during winter months, etc., to meet the specified Completion Date.

STATUS OF UTILITIES (D-1)

Effective: June 1, 2016

Revised: January 1, 2020

Utility companies and/or municipal owners located within the construction limits of this project have provided the following information regarding their facilities and the proposed improvements. The tables below contain a description of specific conflicts to be resolved and/or facilities which will require some action on the part of the Department's contractor to proceed with work. Each table entry includes an identification of the action necessary and, if applicable, the estimated duration required for the resolution.

UTILITIES TO BE ADJUSTED

Conflicts noted below have been identified by following the suggested staging plan included in the contract. The company has been notified of all conflicts and will be required to obtain the necessary permits to complete their work; in some instances, resolution will be a function of the construction staging. The responsible agency must relocate, or complete new installations as noted below; this work has been deemed necessary to be complete for the Department's contractor to then work in the stage under which the item has been listed.

Revised 8/27/2020

600 volts, 90 Degree C, polyvinyl chloride insulation with flameproof braid covering, Type TBS or cross-linked polyethylene, Type SIS. The conductor type for fixed mounted components shall be type THHN/THWN, 600 volt, 90 Degree C.

D. Cabling

1. For indoor, Non-Plenum applications analog I/O shall be wired with Belden 8760 or equivalent, single twisted pair, shielded cable. For outdoor and Plenum applications analog I/O shall be wired with Belden 88760 or equivalent, single twisted pair, shielded cable. The drain-wire from each cable shall be connected an isolated ground bus. All shields shall be covered with clear Teflon tubing. The black conductor shall carry the positive signal (+) and the clear conductor shall carry the negative signal (-)
2. Remote I/O (R I/O) communications circuits shall be wired with Belden 9463 or equivalent, twin-axial, shielded cable. Communications wiring shall cross AC conductors at a 90-degree angle. Where communication wiring must run parallel to AC conductors, a minimum of 2" separation must be maintained.
3. All wires and cables that enter or leave the control panel must terminate at a terminal.

2.30 **WIRELESS MODEM**

A. Manufacturers

1. **Airlink, or Equal.**

- B. The two (2) wireless 4G modems are to be **Airlink RV-50X modems or equal**. Contractor shall verify, prior to purchase, compatibility with the City of Lake Forest's and the SCADA communications systems.

PART 3 - EXECUTION

3.1 **INSPECTION**

- A. Verify that field conditions are acceptable and are ready to receive work.

3.2 **INSTALLATION**

- A. The modification, demolition and installation of the SCADA equipment shall be scheduled to minimize interruption of automatic operation and monitoring of the pumping system. The contractor shall submit a detailed schedule for the owner's approval
- B. The Contractor shall install the equipment in strict accordance with the approved Shop Drawings and the equipment manufacturer's recommendations
- C. Unload, unpack and transport equipment to prevent damage or loss.
- D. Protect from dust and other harmful materials
1. The Contractor shall adjust the location of equipment to accommodate the work in accordance with field conditions encountered.

Revised 8/277/2020

DISPOSAL OF SURPLUS MATERIAL

The Contractor is prohibited from burning any material within or adjacent to the project limits.

All excess or waste material shall be either hauled away from the project site by the Contractor or deposited at locations provided by him, or disposed of within the right-of-way in a manner other than burning, subject to the approval of the Engineer and the City of Lake Forest.

No extra compensation will be allowed by the Contractor for any expense incurred by complying with the requirements of this Special Provision.

INTERIM COMPLETION DATES

The following interim completion dates are to be adhered to by the Contractor. Item number 3 is also subject to the specification for FAILURE TO COMPLETE THE WORK ON TIME FOR DETOUR REMOVAL.

1. Relocation of the water main on the pump station site, excavation of the Pump Station site (foundation excavation), and excavation and rough grading for both detention ponds shall be completed by April 1, 2021.
2. The retaining wall in the west detention pond (SN 049-W088) shall be completed by May 1, 2021.
3. This work described below shall be completed within the period of July 6, 2021, and August 13, 2021 and shall take no more than 28 calendar days (4 weeks) from the time the detour is in effect and the exit ramps are closed.

This work shall consist of the reopening of Deerpath Road to two-way two lane traffic, removal of the detour, and reopening of the southbound and northbound exit ramps from US 41 to Deerpath Road. Work to be completed during the US 41 exit ramp closures and detour period includes drainage improvements on Deerpath Road and the US 41 southbound exit ramp in the work zone shown on the Maintenance of Traffic Plans, jacking of the 54" storm sewer and 72" casing pipe, and restoration of the southbound exit ramp from US 41 to Deerpath Road pavement.

Added 8/27/2020

SUGGESTED CONSTRUCTION SEQUENCING

The following suggested sequence of construction is provided in coordination with the Maintenance of Traffic Plans and Suggested Roadway Construction Sequencing. Final construction sequencing shall be determined by the Contractor and approved by the Engineer prior to work commencing. Note, Contractor must follow all Work Restrictions during construction activities.

- Tree removal as directed by the Engineer.
- Relocate water main on pump station site, excavate the Pump Station Site, Detention Pond 1, and Detention Pond 2, and Construct Sewer Connecting Detention Ponds 1 and 2.
- Construct West Detention Pond Retaining Wall (SN 049-W088) and Bridge Retaining Wall Modifications (SN 049-0033)
- Construct Pump Station
- *DETOUR IN EFFECT* Excavate Receiving Pit, Jack and Boring operation, Stage 1 Roadway Construction (See Staging and Sequence of Construction During Detour Specification)
- US 41 Bridge Deck Drainage System
- Stage 2 Roadway Construction
- Stage 3 Roadway Construction
- Roadway Resurfacing and Pavement Striping
- Final Inspection and Punch List of New Pump Station 38
- Decommission Existing Pump Station 38
- Transfer of Ownership and Maintenance of New Pump Station to the City of Lake Forest

Added 8/27/2020

WORK RESTRICTIONS

The Contractor shall comply with the following work restrictions:

1. In accordance with Article 107.01 of Section 107 Legal Regulations and Responsibility to Public of the Standard Specifications, the Contractor shall closely comply and follow the City of Lake Forest ordinances for all issues applicable to this contract, including but not limited to the Lake Forest noise ordinances available at the time of execution of this contract.
2. Due to the northern long eared bat record and wooded nature of parts of the project area, there will be no tree clearing from April 1 through October 14 of any construction year. Tree removal shall be coordinated with the City of Lake Forest – Forestry Section and as directed by the Resident Engineer.
3. The proposed/suggested detour along Deerpath Road for the construction drainage improvements between stations 50+75 and 54+10 as well as the suggested US 41 ramp closures shall be scheduled by the contractor to occur during the summer months between July 6, 2021 and August 13, 2021 when schools are not in session. The suggested Deerpath Road detour and US 41 southbound and northbound exit ramp closures shall be limited to a maximum of 4 calendar weeks. A calendar week is defined from Sunday at 12:00 AM to the following Sunday at 12:00 AM, 7 calendar days later. Failure to comply with this requirement will be handled under the Special Provisions for Failure to Complete The Work On Time For Detour Removal.

FAILURE TO COMPLETE THE WORK ON TIME FOR DETOUR REMOVAL

Should the Contractor fail to complete the work on or before the interim completion date as specified in the Special Provisions, or within such extended time as may have been allowed by the Department, the Contractor shall be liable to the Department in the amount of \$5,000, not as a penalty but as liquidated damages, for each calendar day or a portion thereof of overrun in the contract time or such extended time as may have been allowed.

In fixing the damages as set out herein, the desire is to establish a certain mode of calculation for the work since the Department's actual loss, in the event of delay, cannot be predetermined, would be difficult of ascertainment, and a matter of argument and unprofitable litigation. This said mode is an equitable rule for measurement of the Department's actual loss and fairly takes into account the loss of use of the roadway if the project is delayed in completion. The Department shall not be required to provide any actual loss in order to recover these liquidated damages provided herein, as said damages are very difficult to ascertain. Furthermore, no provision of this clause shall be construed as a penalty, as such is not the intention of the parties.

A calendar day is every day shown on the calendar and starts at 12:00 midnight and ends at the following 12:00 midnight, twenty-four hours later.

Added 8/27/2020

CONTRACTOR COOPERATION

The Contractor's attention is directed to the fact that other contractors may be working in areas immediately adjacent to the project area. Adjacent projects may consist of, but are not limited to projects near the west detention pond on the Deerpath Golf Course property.

The Contractor will be governed by Article 105.08 of the Standard Specifications.

The Contractor will be required to attend coordination meetings at times and location to be determined by the Engineer.

The Contractor will coordinate proposed project start dates and sequence of construction with the Engineer and other Contractors to present an effective and timely schedule for successful completion of the project.

The cooperation between work under this contract and the adjacent work on the Deerpath Golf Course is essential due to the adjacent limits of construction and potential shared construction entrance usage.

Each contractor shall protect adjacent work and not cause damages to other contractor's work.

Added 8/27/2020