



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

July 26, 2016

SUBJECT: FAP Route 607 (US 30 (EB))
Project ACNHPP-0607 (081)
Section 128R-B-R
Will County
Contract No. 62C04
Item No. 25, July 29, 2016 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 Table of Contents to the Special Provisions
2. Revised pages 6, 7, 16 & 17 of the Special Provisions
3. Revised sheets 1-7, 9, 11 & 12 of the Plans
4. Added sheets 11A, 12C, 12D, 12E & 12F to the Plans

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

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

Maureen M. Addis, P.E.
Acting Engineer of Design and Environment

A handwritten signature in black ink, appearing to read "Ted B. Walschleger" followed by a small "P.E." to the right.

By: Ted B. Walschleger, P. E.
Engineer of Project Management

cc: John Fortmann, Region 1, District 1; Tim Kell; D. Carl Puzey; Estimates

MS/ck

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CONSTRUCTION SITE ACCESS

The Contractor is required to provide access for the Engineer to all construction site locations and work activities taking place throughout the duration of the project. The access will be needed in order for the Engineer to perform the appropriate construction evaluation and inspection of the Jefferson Street Bridge and other pertinent work that is included in the contract.

REMOVE AND REPLACE BEARINGS

Description. This work consists of furnishing all labor, tools and equipment for jacking and supporting the existing track girder while removing the bearing assembly. The Contractor is responsible for the complete design of the bridge lifting procedures and the materials used. The Contractor shall furnish and place all bracing, shoring, blocking, cribbing, temporary structural steel, timber, shims, wedges, hydraulic jacks, and any other materials and equipment necessary for safe and proper execution of the work. The Contractor shall install the new bearings as shown on the plans.

Construction Requirements. The Contractor shall submit details and calculations of his/her proposed jacking systems and temporary support procedures for approval by the Engineer before commencing work. At any time during the jacking operations, the Engineer may require the Contractor to provide additional supports or measures in order to furnish an added degree of safety. The contractor shall provide such additional supports or measures at no additional cost to the Department. Neither added precautions nor the failure of the Engineer to order additional protection will in any way relieve the Contractor of Sole responsibility for the safety of lives, equipment and structure.

The Contractor's jacking plans and procedures shall be designed and sealed by an Illinois Licensed Structural Engineer.

The west leaf shall remain closed as shown on the plans during the entire time the load is being supported by the hydraulic pressure of the jack(s). The minimum jack capacity shall be as noted in the plans.

Jacking shall be limited to 1/4 in. maximum when jacking one bearing at a time. Suitable gauges for the measurement of movement shall be furnished and installed by the Contractor.

The Contractor shall be responsible for restoring to their original condition, prior to jacking, as shown on the plans.

The bearing assembly shall be fabricated according to Section 505 of the Standard Specification, unless noted otherwise. The structural steel bearing assembly shall meet the applicable requirements of Section 521 of the Standard Specifications, unless noted otherwise.

The base and the upper portion should be machined to provide a flat plane free of pits with a surface roughness of 123 μ in or better. The bearings should then be shot-blasted and primed with an inorganic zinc-rich coating as per Article 1008.02. Intermediate and top coats should be either a waterborne acrylic (Article 1008.04) or and aluminum epoxy mastic (Article 1008.02). The color shall match the color of the existing structural steel. The Contractor shall determine and provide the shim quantity required in order to remove all play in the bearing.

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Method of Measurement. This item of work shall be measured per each bearing. The cost of cleaning bearing assembly shall be included in this item.

Basis of Payment. This item of work shall be paid for at the contract unit price per each for REMOVE AND REPLACE BEARINGS.

CLEANING AND PAINTING CONTACT SURFACE AREAS OF EXISTING STEEL STRUCTURES

Effective: June 30, 2003

Revised: May 18, 2011

Description. This work shall consist of the surface preparation and painting of existing steel structures in areas that will be in contact with new steel.

The existing steel at primary connections (faying surfaces) shall be prepared, and primed as specified herein prior to connecting new structural steel to the existing structure.

The existing steel at secondary connections shall be prepared, and if bare metal is exposed, primed as specified herein prior to connecting new structural steel to the existing structure.

General. The existing coatings shall be assumed to contain lead and may also contain other toxic metals. Any plans that may be furnished for the work, and any dimensions or other information given regarding a structure, are only for the purpose of assisting bidders in determining the type and location of steel to be cleaned and painted. It is the responsibility of the Contractor to verify this information and the accuracy of the information provided shall in no way affect the price bid for structural steel.

Materials. The Bureau of Materials and Physical Research has established a list of all products that have met preliminary requirements. Each batch of material must be tested and approved before use.

The paint materials shall meet the requirements of the following articles of the Standard Specification:

<u>Item</u>	<u>Article</u>
a) Organic Zinc Rich Primer	1008.05
b) Aluminum Epoxy Mastic	1008.03

Submittals:

- a) Manufacturer's application instructions and product data sheets. Copies of the paint manufacturer's application instructions and product data sheets shall be furnished to the Engineer at the field site before steel cleaning begins.

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All materials removed shall become the property of the Contractor and shall be disposed of by the Contractor off site in a lawful manner satisfactory to the Engineer.

The Contractor shall also provide protection to the satisfaction of the Engineer for river traffic, which may be endangered by falling material during removal operations.

Method of Measurement. No separate measurement shall be made for the work under this item.

Any material used for protection, or any supports for structural steel to remain, or temporary working platforms for structural steel removal, shall not be measured separately for payment, and shall be considered included in this item.

Basis of Payment. The work under this item shall be paid at the Contract Lump Sum Price for STRUCTURAL STEEL REMOVAL.

REMOVE AND REPLACE ANCHOR BOLTS

Description. The work under this item shall consist of core drilling through the bearing sole plate and/or masonry plate to install new anchor bolts. Core diameter shall be sized as shown in Plans and chemically curing anchoring material used per manufacturer's installation instructions. If reinforcing steel is encountered it shall be cut with the core drill. Existing pier concrete, in the vicinity of the bearing or as shown on the plans, should be cored to verify the existing concrete compressive strength and, if needed, strengthened to achieve a minimum of 3,500 psi.

Materials. Threaded stud/anchor bolts shall meet the requirements of ASTM F1554 Grade 105, Supplement S5, Table S1.2, with a minimum Charpy V-notch impact toughness of 15 ft-lbs at -20°. Minimum embedment shall be as shown on the plans or as ordered by the Engineer. A steel plate washer is to be supplied per ASTM A36, a hex nut, lock washer and flat washer shall be supplied with each anchor bolt. Chemically Curing Anchor Material used for this application shall be in accordance with approved manufacturer instructions. It shall also be the contractor's responsibility to assure the chemically curing anchor material is suitable for use in a core drilled hole and provide the manufacturers written recommendations on maximum annular void between cored hole and threaded stud/anchor bolt. The anchor bolt manufacturer shall submit grout or epoxy characteristics and tolerable preloads that preclude any possibility of creep.

Construction Requirements. The Contractor shall remove the existing deteriorated anchor bolts in a manner that will not damage the existing bearing or concrete.

Drilling with a lubricant will not be permitted. Water is not considered a lubricant. Drilling methods shall not cause spalling, or other damage to concrete. Concrete spalled, or otherwise damaged by the Contractor's operations shall be repaired at no additional cost to IDOT. Chemically Curing Anchor Material shall be store, mixed and placed in strict accordance with the manufacturer's instructions, unless modified here or elsewhere in the contract documents. No Chemically Curing Anchor Material shall be placed at a temperature below that recommended by the material manufacturer.

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Drill hole to diameter specified by grout manufacturer. Remove dust from hole with oil-free compressed air for a minimum of 4 seconds. Compressed air nozzle must reach the bottom of the hole. Clean hole with nylon brush for a minimum of 4 cycles. Brush should provide resistance to insertion. If no resistance is felt, the brush is worn and must be replaced. Remove dust from hole with oil-free compressed air for a minimum of 4 seconds. Compressed air nozzle must reach the bottom of the hole.

The anchor bolt shall be inserted before injection of epoxy or grout. To provide complete coverage of the anchor, an adequate hole size should be cored to permit rodding or vibration of grouting or epoxy adhesive. Re-torqueing should not be tolerated after the epoxy has cured.

The Contractor may increase the embedment length beyond that required by the Contract Documents if approved by the Engineer. The increase shall be done at no additional cost to IDOT. The bottom of the hole shall be at least 1 ½" from the nearest free surface of a structural element unless otherwise shown in the contract documents.

Method of Measurement. This item of work shall be measured per each anchor bolt. The cost of drilling holes for anchor bolts shall be included in this item.

Basis of Payment. This item of work shall be paid for at the contract unit price per each for REMOVE AND REPLACE ANCHOR BOLTS.

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