



STATE OF DELAWARE
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September 11, 2015

Contract No. T201109002.01
Federal Aid Project No. IM-N056(042)
I-95 and SR141 Interchange, Ramps G & F Improvements
New Castle County

Ladies and Gentlemen:

Enclosed is Addendum No. 2 for the referenced contract consisting of the following:

1. Two (2) pages, Special Provision, 605664 - Steel Sign Structures, pages 92 & 93, have been revised, to be substituted for the same pages in the Proposal.

Please note the revision listed above and submit your bid based upon this information.

Sincerely,

signature on file

James H. Hoagland
Contract Services Administrator

:jhh
Enclosure

605664 - STEEL SIGN STRUCTURES

Description:

This work shall consist of furnishing, fabricating, erecting the sign structures and installing foundations as shown on the plans. Such work shall include excavation, concrete foundations, sheeting and shoring, non-shrink grout, transportation and erection of the steel sign structure, furnishing steel sign structure and all materials, labor, tools, equipment, and incidentals necessary to complete the work.

Materials:

All materials provided for the steel sign structures shall conform to the following:

- (a) Pipes - ASTM A53, Type S, Grade B.
- (b) Structural Angles, Plates, Bars, and Shapes - ASTM A36.
- (c) Anchor Bolts, nuts and washers - ASTM F1554, Grade 55.
- (d) U-Bolts - ASTM A307.
- (e) U-Bolt Nuts - ASTM A307.
- (f) High Strength Bolts, Nuts and Washers - ASTM A325.
- (g) Pre-Assembly of Field Connections.
- (h) All structural steel that is not stainless shall be hot-dipped galvanized in accordance with ASTM A123.
- (i) Concrete for foundation shall be Class B Portland cement concrete ($f'c = 3,000$ psi at 28 days) and shall conform to Standard specification section 812.

Construction Methods:

As indicated, as shown on the Standard Drawings and as follows:

- (a) General. Prepare and submit detailed shop drawings for review and acceptance. ~~Drawings shall be stamped by a PE registered in the state of Delaware.~~ **Any modifications to the contract documents shall require detailed shop drawings and computations, signed and sealed by a Professional Engineer registered in the State of Delaware to be submitted for review and acceptance by the Engineer.** Material and workmanship not previously inspected will be inspected on the work site. Remove rejected material from the work site. Satisfactorily restore the site to its original condition, as directed, including the disposal of excess or unsuitable material. Contractor to verify sign and structure clearances.
- (b) Foundations. Submit detailed shop drawings and computations, signed and sealed by a Professional Engineer registered in the State of Delaware for design of any temporary sheeting and shoring that is required for the excavation and installation of the sign structure foundations. Satisfactorily restore the site to its original condition, as directed, including the disposal of excess or unsuitable material.

Excavate and construct the foundations as indicated on the Plans. Construct the foundations using Class B Cement Concrete, as specified in the applicable parts of Section 602. Use anchor bolt templates provided by the sign structure fabricator to accurately set the tower base anchor bolts to the correct elevation and orientation. Securely brace the anchor bolts against displacement before and during concrete placement and curing. Verify the span length, footing location, and pedestal elevations of the sign structure foundation prior to installing the foundation. It is the Contractor's responsibility to install the foundations in the proper location and to the proper elevation.



After constructing the sign structure foundation, backfill the excavation around the foundation in accordance with Section 207.05.

Bearing Areas: Construct the tower base bearing areas of the concrete pedestals in a true and level position. Full bearing is required under all base plates. Place non-shrink grout and PVC drain tube after column is in place and leveled.

A minimum period of fourteen (14) days shall elapse from the last concrete placement in foundation and pedestals to the beginning of erection of the sign structure. Use templates to accurately set tower base anchor bolts to the correct elevation and alignment.

- (c) **Pre-Assembly of Field Connections.** Before galvanizing, preassemble field connections of chord trusses and chord sections to verify geometry and camber. If distortion occurs after galvanizing, re-verify.
- (d) Any damage to galvanizing that occurs during shipping, handling or erection shall be repaired with a liquid galvanizing repair. Such repair material shall be submitted to the Engineer for approval prior to use.
- (e) Fully tighten anchor bolts by turning the nuts an additional 30 to 45 degrees. Progress by sequentially tightening the nuts on opposite side of the base plate (180 degrees apart).
- (f) Compaction of the backfill shall be in accordance with Section 202 of the Standard Specifications.

Method of Measurement:

The number of Steel Sign Structures specified on the plans or as directed by the Engineer and constructed according to these specifications, complete in place and accepted, will not be measured for payment, but shall be paid for on a lump sum basis for each sign structure.

Basis of Payment:

The number of Steel Sign Structures, as determined above, shall be paid for at the contract lump sum price bid "Steel Sign Structure," which price and payment shall include Class B cement concrete, sheeting and shoring, excavation and construction of drill caisson and concrete foundation, transportation and erection of the steel sign structure, all galvanized structural steel, bolts, and all labor, materials, equipment and incidentals necessary to construct the sign structure. Backfilling in accordance with Section 210 and shall be paid under separate item of this Contract.

NOTE:

A breakout sheet attached to the Proposal to list the Steel Sign Structures under this item. The Contractor shall fill in a unit price for each item and the cost (unit price times the proposed quantity). The lump sum bid for Item 605664 - Steel Sign Structure shall be the sum of the cost for all items listed. The breakout sheet shall be attached to the Bid Proposal. Failure to submit the breakout sheet with the Bid Proposal will result in the Bid Proposal being declared non-responsive and rejected.

10/31/13 3/10/14