



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
PO BOX 778
DOVER, DELAWARE 19903

JACK MARKELL
GOVERNOR

JENNIFER COHAN
SECRETARY

VIA WEBSITE POSTING

(302) 760-2030
FAX (302) 739-2254

September 4, 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. 1 for the referenced contract consisting of the following:

1. Two (2) pages, Special Provision, 746538 - Bridge Electrical System, pages 143 & 144 have been revised, to be substituted for the same pages in the Proposal.
2. One (1) page, Bid Proposal Form, page 4, Item Number 612003, quantity revised, to be substituted for the same page in the Proposal.
3. One (1) page, Bid Proposal Form, page 19, Item Number 617005 has been added, to be substituted for the same page 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

746538 - BRIDGE ELECTRICAL SYSTEM

Description:

This work consists of furnishing and installing rigid galvanized steel conduit, PVC conduit, fittings, junction boxes, PVC sleeves and caps on the bridges as shown on the Plans, as specified herein, and/or as directed by the Engineer.

Materials:

Lighting - Galvanized Steel Conduit – 1” diameter, rigid galvanized steel conduit meeting National Electric Code 2002, Article 344.

Lighting - Galvanized Steel Conduit – 3” diameter, rigid galvanized steel conduit meeting National Electric Code 2002, Article 344.

~~Lighting~~ **ITMS - Galvanized Steel Conduit** – 2” diameter, rigid galvanized steel conduit meeting National Electric Code 2002, Article 344.

ITMS - PVC Conduit - 4" schedule 80 rigid polyvinyl chloride (PVC) conduit, meeting Commercial Standard CS-272-65 (PVC), ASTM D-1785 and U.C. Standard 651 specifications.

RWIS (Road Weather Information System) Conduit – 1” diameter PVC Conduit, Schedule 80

Junction Boxes - shall meet ANSI Specifications, U.L. requirements and listed as raintight and shall accommodate the size and number of conduits shown on the Plans. Junction boxes/wells shall be galvanized steel alloy and constructed to the size indicated.

PVC Sleeves – 6” Schedule 80 with cap

Shop drawings and/or catalog cuts for the above listed materials shall be submitted to the Engineer for approval.

Construction Methods:

Prior to placing the concrete bridge deck, the Contractor shall install 1 only 6 inch PVC sleeves in the deck at the location of the weather sensor. Drill a hole in each sleeve to accept a 1 inch PVC conduit tied to the bottom of the top rebar mat. The 1 inch PVC conduit shall extend from the sleeve to a 9” x 9” x 6” junction box in the parapet face (from sleeve to the Junction Box). A pull wire shall also be installed to facilitate wire installation through the conduits by others. The top of each PVC sleeve shall be capped to avoid concrete intrusion and shall be clearly marked following deck concrete placement so that it can be avoided during deck grooving operations and easily located by the weather sensor installer. DelDOT’s Traffic Signal Construction manager (or representative) shall be contacted to review the RWIS conduit system set up prior to placing any deck concrete.

Prior to placing the Parapet Wall concrete, the Contractor shall extend the 1” inch PVC conduits for the RWIS system to the 9” x 9” x 6” Junction Box. 1 EA 2” Galvanized Steel conduit and 1 EA 4” PVC conduit for the ITMS system shall be installed from that Junction Box through the parapet, sweeping under the approach slab and exiting to the junction wells located outside the Bridge. In addition, 1 EA 2” Galvanized Steel conduit for the lighting system shall be installed in the parapet wall for the entire length of

the structure. The 2" Galvanized Steel conduit for lighting shall also sweep out of the parapet, under the approach slab, and exit to junction wells located outside the Bridge at both ends of the structure. The 24" x12" x8" and 12" x10" x 8" Junction Boxes to access the ITMS (4" and 2" conduits) and lighting (2" conduit) systems respectively, shall be spaced as shown in the plans and at intervals not to exceed 300 feet. The 1" diameter galvanized conduit shall extend from the 12" x10" x 8" Junction boxes to the top of the parapet at the light locations. All conduits shall include a pull wire for future cable installation. Junction boxes in the bridge shall be positioned to avoid any fence posts and/or Guardrail to Bridge attachments and shall be flush with the front face of the parapet wall. Conduits exiting the structure shall be positioned to avoid all guardrail posts.

Prior to placing approach slab and/or sleeper slab concrete, all conduits exiting the bridge must be installed beneath the concrete including any necessary sweeps to properly enter the Junction Well outside of the structure.

Method of Measurement:

The quantity of bridge electrical system will not be measured.

Basis of Payment:

The quantity of bridge electrical system will be paid for at the lump sum bid price. Price and payment will constitute full compensation for furnishing and installing the required 1", ~~and 2"~~ & 3" rigid galvanized steel conduits and 4" PVC conduit within the parapet walls, extending to the Junction Well(s) located outside the structure; 1" PVC conduit, 6" PVC sleeves with caps, fittings, conduit sweeps, junction boxes in the parapet wall, pull wires within all conduits, and for all labor, equipment, tools, and incidentals required to complete the work. All wiring inside the conduits will be performed by others. Junction Wells located outside the structure will be paid for separately under their respective bid item.

9/1/15 ~~2/12/14~~

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

PAGE: 4
DATE:

CONTRACT ID: T201109002.01 PROJECT(S): IM-N056(042)

All figures must be typewritten.

CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0260	602011 PORTLAND CEMENT CONCRETE MASONRY, SUBSTRUCTURE, CLASS A	30.000 CY				
0270	602013 PORTLAND CEMENT CONCRETE MASONRY, SUPERSTRUCTURE, CLASS D	518.000 CY				
0280	602017 PORTLAND CEMENT CONCRETE MASONRY, PARAPET, CLASS A	174.000 CY				
0290	602553 MECHANICALLY STABILIZED EARTH WALLS, WALL 1	350.000 SF				
0300	602646 SILICONE ACRYLIC CONCRETE SEALER	14000.000 SF				
0310	604000 BAR REINFORCEMENT, EPOXY COATED	144000.000 LB				
0320	605525 RELOCATE SIGN SUPPORT STRUCTURE	LUMP	LUMP			
0330	605664 STEEL SIGN STRUCTURE	LUMP	LUMP			
0340	612002 REINFORCED CONCRETE PIPE, 15", CLASS III	2789.000 LF				
0350	612003 REINFORCED CONCRETE PIPE, 18", CLASS III	612.000 LF				

DELAWARE DEPARTMENT OF TRANSPORTATION
SCHEDULE OF ITEMS

PAGE: 19
DATE:

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CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1750	908020 EROSION CONTROL BLANKET MULCH	58679.000 SY				
1760	908023 STABILIZED CONSTRUCTION ENTRANCE	240.000 TON				
2480	617005 REINFORCED CONCRETE FLARED END SECTION, 24"	1.000 EACH				
	SECTION 0001 TOTAL					

SECTION 0002 FIXED QUANTITY

1770	202000 EXCAVATION AND EMBANKMENT	44614.000 CY				
	SECTION 0002 TOTAL					

SECTION 0003 BRIDGE 1-675

1780	207000 EXCAVATION AND BACKFILL FOR STRUCTURES	3416.000 CY				
1790	207501 SHEETING AND SHORING	LUMP	LUMP			
1800	209003 BORROW, TYPE C	2608.000 CY				