



PAT McCrory
Governor

NICHOLAS J. TENNYSON
Secretary

October 13, 2016

Addendum No. 2

RE: Contract # C203667
WBS # 42271.3.2
STATE FUNDED
Macon County (B-5125)
Bridge #22 Over Little Tennessee River On US-441 Business

October 18, 2016 Letting

To Whom It May Concern:

Reference is made to the proposal form furnished to you on this project.

The following revisions have been made to the proposal:

Page No.	Revisions
Proposal Cover	Note added that reads "Includes Addendum No. 2 Dated 10-13-16"
ECS-1	The Project Special Provision, "ELECTRICAL CONDUIT SYSTEM" is revised to clarify anchor bolts are to be provided and installed by others.
ECS-2	Same revision as immediately above

Please void the Proposal Cover and the above listed pages in your proposal and replace with the revised pages.

The following revisions have been made to the plans:

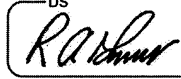
Sheet No.	Revisions
S-40	Revised Notes to clarify anchor bolts are to be provided and installed by others.

Please void the above listed sheet in your plans and staple the revised sheet thereto.

The contract will be prepared accordingly.



Sincerely,



R. A. Garris, PE
Contract Officer

RAG/jjr

cc: Mr. Lamar Sylvester, PE
Mr. E.A. Green, PE
Mr. Rodger Rochelle, PE
Mr. R.E. Davenport, PE
Mr. Ken Kennedy, PE
Ms. Jaci Kincaid
Project File (2)

Mr. Ray Arnold, PE
Ms. Theresa Canales, PE
Ms. Marsha Sample
Mr. Mike Gwyn
Ms. Penny Higgins
Ms. Lori Strickland
Mr. Mitchell Dixon

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH, N.C.

PROPOSAL

INCLUDES ADDENDUM No. 2 DATED 10-13-16

DATE AND TIME OF BID OPENING: **OCTOBER 18, 2016 AT 2:00 PM**

CONTRACT ID C203667
WBS 42271.3.2

FEDERAL-AID NO. STATE FUNDED

COUNTY MACON

T.I.P. NO. B-5125

MILES 0.127

ROUTE NO. US 441

LOCATION BRIDGE #22 OVER LITTLE TENNESSEE RIVER ON US-441 BUS.

TYPE OF WORK GRADING, DRAINAGE, PAVING, SIGNAL AND STRUCTURE.

NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY & STRUCTURE PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

ECS-1

B-5125

Macon County

PROJECT SPECIAL PROVISIONS ELECTRICAL CONDUIT SYSTEM

1.0 DESCRIPTION:

The work covered by this section consists of furnishing and installing one conduit system embedded in the Concrete Bridge Rail. Anchor bolts will be provided and installed by others at a later date. Perform all work in accordance with these special provisions, the plans, the National Electrical Code (NEC), and Division 14 of the North Carolina Department of Transportation "Standard Specifications for Roads and Structures."

The Contractor actually performing the work described in these special provisions shall have a license of the proper classification from the North Carolina State Board of Examiners of Electrical Contractors.

The licensed Electrical Contractor must be available on the job site when the work is being performed or when requested by the Engineer. The licensed Electrical Contractor shall have a set of plans and special provisions in his possession on the job site, and must maintain accurate "as built" plans.

2.0 MATERIALS:

Submit copies of catalog cuts and/or drawings for all proposed materials for the Engineer's review and approval. Include the brand name, stock number, description, size, rating, manufacturing specification, and applicable contract item number(s) on each submittal. Allow forty (40) days for submittal review. The Engineer will advise the Contractor of reasons for rejected submittals and will return approved submittals to the Contractor. Do not deliver material to the project prior to submittal approval.

2.1 Conduit System in the Concrete Bridge Rail

Non-metallic conduit shall be rigid PVC (Polyvinyl chloride) heavy wall approved for above ground and underground use per U.L. 651 "Schedule 40, 80 Type E B and A Rigid PVC Conduit and Fittings". Use Terminations designed for PVC conduit, to seal and stub out each PVC conduit, and to provide watertight protection.

Type BR junction box shall be NEMA Type-4 cast iron, hot-dipped galvanized with recess flange for flush mounting sized as shown on the plans. It shall have a neoprene gasketed cover with brass or stainless steel screws and shall be suitable for a watertight installation. A mounting button with a blind tapped bolt hole shall be provided on the interior for future connection of a grounding lug.

2.2 Miscellaneous

ECS-2

B-5125

Macon County

Use mastic that is a permanent, non-hardening, water sealing compound that adheres to metal, plastic, and concrete.

Provide jute that is a burlap-like material used for filling voids and protecting components from waterproofing and adhesive compounds.

Provide zinc rich paint conforming to Section 1080-9 of the Standard Specifications.

Provide pull lines specifically designed for pulling rope through conduit. Use pull lines made of 2-ply line, with a tensile strength of (240 pounds) minimum. Use rot and mildew resistant pull lines that are resistant to tangling when being dispensed.

The light standard manufacturer shall provide anchor bolts, nuts, washer and shims.

3.0 CONSTRUCTION METHODS:

3.1 Conduit System in the Concrete Bridge Rail

Securely fasten all conduit and boxes prior to placing any concrete. After the conduit is encased in concrete, clean each conduit by snaking with a steel band that has an approved tube cleaner, equipped with a mandrel of a diameter not less than 85% of the nominal inside diameter of the conduit. To ensure against corrosion in the areas where hot dipped galvanizing has been damaged, cover all raw metal surfaces with a cold galvanized, zinc rich paint.

Stub the conduit out at an accessible location and seal with termination kits designed specifically for that purpose. Use termination kits of the same material as the conduit. Place backfill in accordance with Section 300-7 of the Standard Specifications. Conduit may enter junction boxes through field drilled holes protected with zinc rich paint before the conduit is inserted. Use threaded adapter and PVC bushing at all junction box to conduit connections. Install a pull line in each conduit for future use. Leave sufficient slack for attachment of a rope that will be used to install conductors. Coordinate electrical conduit system work with work by others. Allow installation of circuitry and light standards as directed by the Engineer.

All work must be inspected and approved by the Engineer before concealment.

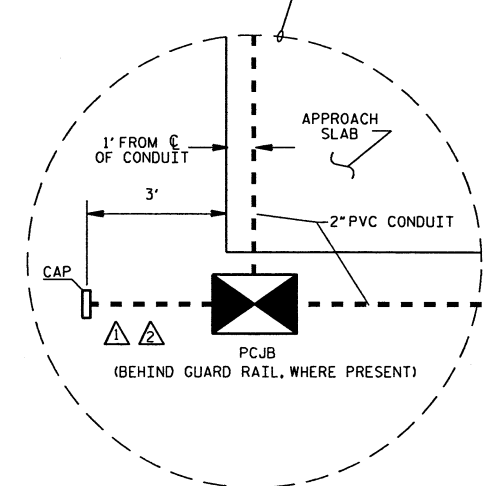
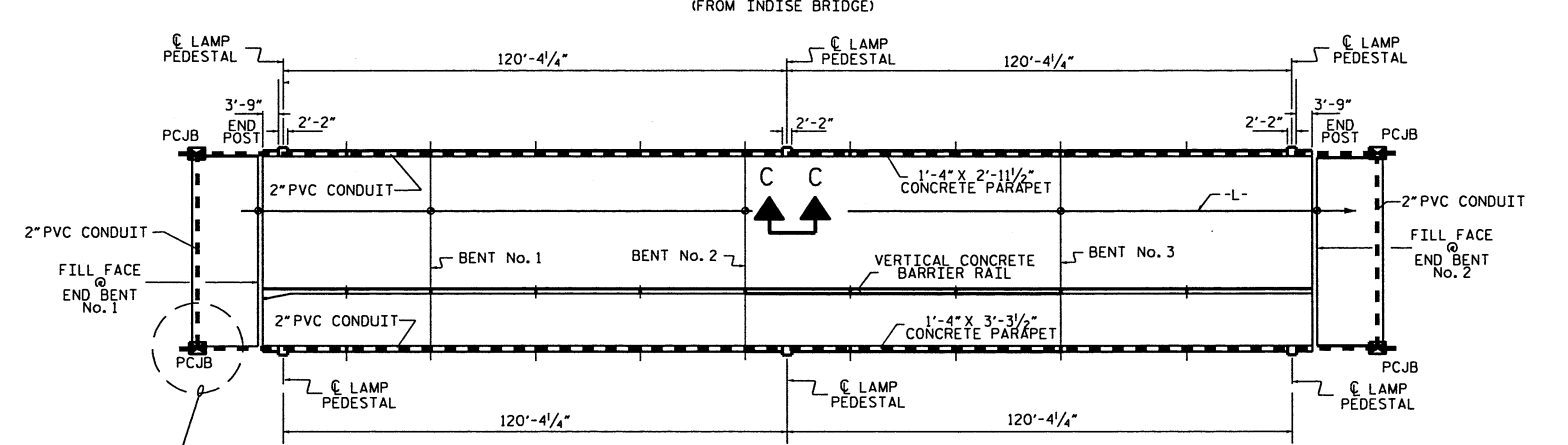
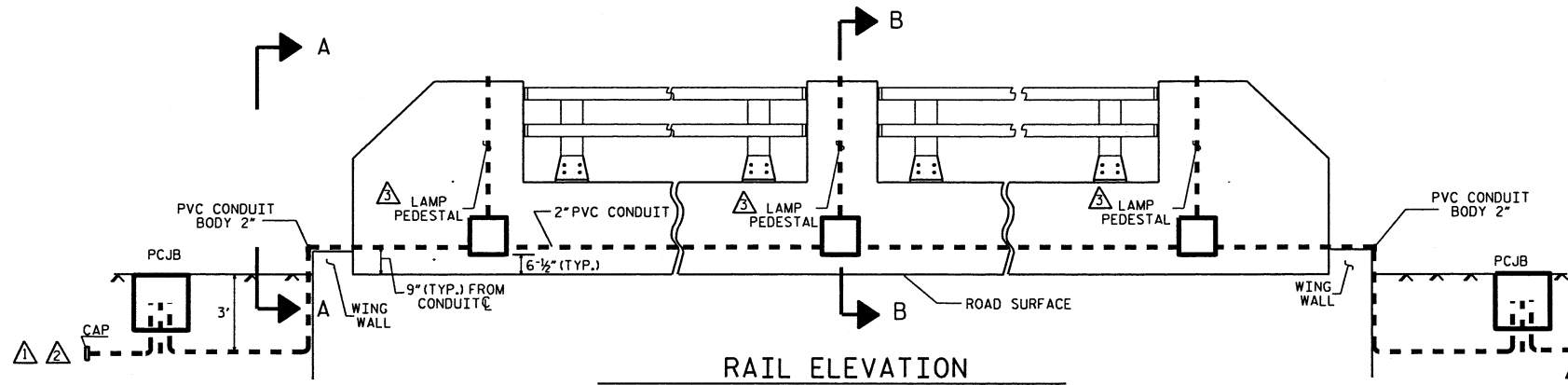
4.0 MEASUREMENT AND PAYMENT:

No direct measurement will be made for the conduit system(s), since it will be paid for on a lump sum basis.

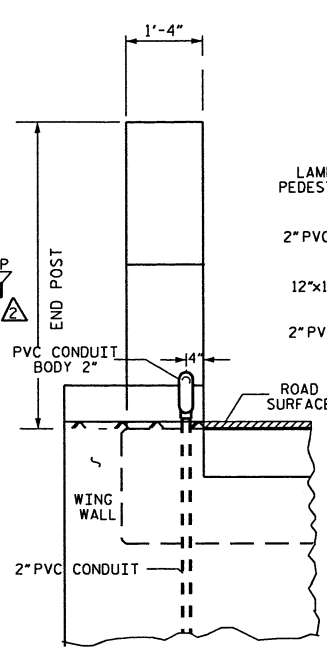
Payment for the conduit system(s) will be made at the contract lump sum price for "Electrical Conduit System at Station ".

Such price and payment for the conduit system as provided above will be considered full compensation for all materials, equipment, and labor necessary to complete the work in accordance with the plans and these special provisions.

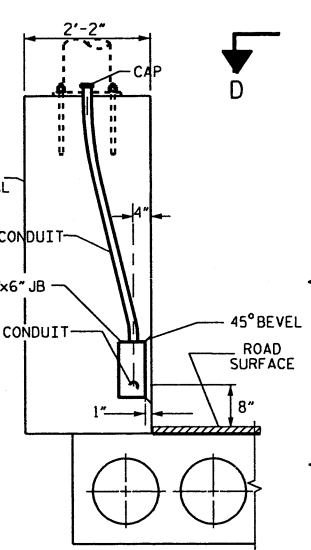
USE FOR ELECTRICAL CONDUIT SYSTEM ONLY



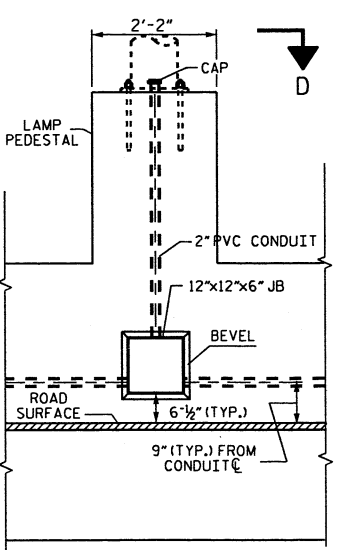
- NOTES**
- △ COORDINATE POWER SERVICE WITH THE CITY.
 - △ COORDINATE CONNECTION OF CONDUIT WITH CITY.
 - △ SEE STRUCTURE PLANS FOR LOCATION OF LAMP PEDESTALS.
 - △ ANCHOR BOLTS WILL BE PROVIDED AND INSTALLED BY OTHERS AT A LATER DATE.



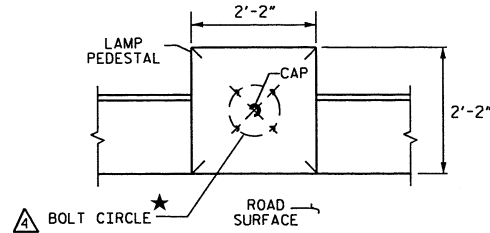
VIEW A-A
END POST VIEW



SECTION B-B
LAMP PEDASTAL



VIEW C-C



VIEW D-D

★ AS PER POLE MANUFACTURER'S SPECIFICATION, POLE TO BE PROVIDED BY OTHERS.

ESTIMATED BILL OF MATERIALS		
UNIT	ITEM	QNTY
EA	PCJB: 12"x11"x18" POLYMER CONCRETE JUNCTION BOX	4
EA	BRJB : 12"x12"x6" CAST IRON FLUSH MOUNT JUNCTION BOX	6
EA	2" PVC CONDUIT	730'
EA	2" PVC 90 BELL ELBOW	16
EA	PVC CONDUIT BODY 2"	4
FT	PULL LINE	900

PROJECT NO. B-5125
MACON COUNTY
 STATION: 13+25.89 -L-

SHEET ECS-1 OF 1



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
**ELECTRICAL CONDUIT
 SYSTEM FOR LIGHTING**

DRAWN BY: SKS DATE: 5/20/16
 CHECKED BY: PKC DATE: 5/20/16
 DESIGN ENGINEER OF RECORD: DATE:

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-40
1			3			TOTAL SHEETS
2			4			43

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED