

SECTION 260114 – ELECTRICAL DEMOLITION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

- A. The requirements of the following sections apply to work under this section - General Provisions – Electrical:
 - 1. Section 260100 – General Provisions – Electrical

1.2 DESCRIPTION OF WORK AND SERVICES

- A. The demolition instruction contained in the contract documents are of general character and are not intended to cover specific or step-by-step sequence of work that may be required to accomplish the work. The bidder of the electrical systems is expected to be an experienced electrical contractor with responsibility for means and methods of how to construct the electrical systems. Electrical contractor shall provide additional materials, labor and services as required to accomplish the work in accordance with the phasing schedule to the satisfaction of the authority having jurisdiction whether specifically indicated on the contract documents or not.
- B. Site Demolition: The intent is to provide for the removal and demolition of the existing roadway and pedestrian lighting and to perform all necessary modifications to that portion of the existing site which shall remain so that it continues to function unaffected by the demolition and associated new construction.
- C. Relocation of existing light fixtures and other electrical items: Relocate noted fixture or item, remove no longer needed conduit and wiring, remove old concrete bases and grounding rods and provide new conduit, wiring, concrete bases, grounding rods and all other material for a complete installation.

1.3 SPECIAL CONSIDERATIONS:

- A. Prior to any digging, boring, drilling or excavating on or adjacent to this site, identify location of existing utility lines through the services of a utility location outfit. Coordinate this service with the University. Work not on campus property shall be coordinated through the University.
- B. Prior to starting any work affecting telecommunication circuits, notify the University Project Manager at least thirty (30) days in advance. Coordinate with UNC-Charlotte Telecommunications IT Services.
- C. The drawings indicate the general areas of work involved. However, contractor shall perform work outside those areas shown as is necessary to comply with the intent of this section. The drawings indicated the general configuration of the existing electrical systems.

- D. Contractor shall familiarize himself with the existing electrical site systems and with the work of all other trades and include all work necessary to comply with the intent of this section.
- E. It shall be understood that field conditions may be encountered during the execution of this contract which will require extension or relocation of existing systems or equipment which are not specifically shown on the drawings, but, which are required to meet the stated intent that the existing electrical system continue to function unaffected by the demolition and associated new construction. Contractor shall include such work as would normally be expected to accomplish the work.
- F. The bidder is required to visit the project site prior to submitting bid to verify the exact configuration of the electrical items being removed, relocated, or modified. No claims for extra work shall be accepted after awarding of bids for discrepancies between verifiable field conditions and the items shown on drawings if these items are readily verifiable.
- G. Should this contractor encounter field conditions which, in their opinion, were not verifiable by visual inspection of the site prior to submitting bids, they shall notify the Engineer immediately, in writing, and request a decision as to the scope of work. The Engineer shall provide the necessary interpretations and instructions in a reasonable time.
- H. The Owner reserves the right to claim and keep as Owner's property any existing item indicated to be removed. Any existing pole light fixture indicated to be removed shall be turned over to the Owner at the location in the University campus as directed by Owner's representative.
- I. Equipment or materials which are to be reused or turned over to the Owner shall be carefully disconnected and removed, cleaned and stored in clean, dry area. Should the contractor encounter such equipment which is not in satisfactory condition for reuse and not in working order, the Contractor shall notify the Engineer immediately.
- J. Disconnect electrical services to all equipment requiring removal. Conduit and wiring shall be removed back to the points as shown on the drawings or otherwise, to the next remaining outlet on the circuit.
- K. Discard and remove from project site any equipment and materials not claimed by the Owner.
- L. Where new construction conflicts with existing electrical work which is to remain, relocate the electrical work involved.
- M. Where existing circuits are interrupted by demolition or new work, extend and reconnect those systems. Where those systems must remain in service during the execution of this contract, provide temporary connections until final connections are complete.
- N. Any parts of existing construction which are to remain and which are damaged during demolition and preparatory work or new construction work on the project shall be patched to match existing adjacent surfaces. Patching and finishing of such areas shall conform with all applicable requirements of other technical sections of these specifications, and shall match existing work in material, type, finish, etc.

- O. Equipment, circuits and utilities that remain, but that are served by feeders or circuits being removed or altered shall be reconnected in accordance with the methods required by this specification and the NEC, without extra cost to the Owner.
- P. All materials and equipment noted to be reused or relocated shall be cleaned, retested, repaired if necessary, modified if required, prepared for reuse, and be stored and protected from the outdoor environment on the site until it is time for re-installation.
- Q. Fill with compacted soil any trench, hole or cavity created by the relocation or removal of any existing conduit, and pole concrete base.
- R. Any existing light pole fixture that is relocated under this Contract shall be retrofitted with new LED light system.

1.4 DISPOSAL OF DEMOLISHED MATERIALS

- A. Materials and debris shall be removed from the site as soon as possible; such items shall not be permitted to accumulate. Clean up operations shall be carried on constantly.
- B. Electrical materials and equipment which are shown being removed shall, except as otherwise noted, become the property of this Contractor and shall be removed from the premises.
- C. Waste Materials:
 - 1. The contractor shall at all times keep the premises free from accumulation of waste materials or rubbish caused by his employees or work. At the completion of the work he shall remove all leftover materials, equipment, and debris resulting from the work done under this Division.
 - 2. Waste that is classified by law, state, or Federal agencies as hazardous or toxic, like fluorescent and HID lamps, or equipment containing PCB's shall be discarded through bonded hazardous waste disposal facilities utilizing methods prescribed by law.
 - a. Contractor shall provide the University Recycling Department with the information for their recording purposes.
- D. Removal of Luminaire Ballasts Containing PCB:
 - 1. The contractor shall open the wiring compartments of lighting fixtures and determine if the lighting fixtures contain ballasts with Polychlorinated Biphenyls (PCBs). Non PCB containing ballasts will have printed on their labels "NO PCBs". If the ballast label is missing, illegible, or not explicitly labeled "NO PCBs", the ballast shall be considered to contain PCBs. Ballasts explicitly stating "NO PCBs" shall be disposed of by the contractor as part of the normal demolition of material in the project. All other ballasts (missing labels, illegible labels, or those ballasts not explicitly marked "NO PCBs") shall have their wires cut close to the ballasts, be removed from the lighting fixtures, and shall be collected suitable in containers and disposed at contractor's expense at hazardous waste facility approved by the State of NC and EPA.
 - a. Contractor shall provide the University Recycling Department with the information for their recording purposes.

- E. Removal of HPS Lamps:
 - 1. HPS lamps being removed contain mercury and shall be collected in suitable containers and discarded at contractor's expense at a hazardous waste facility approved by the State of NC and EPA. Lamps shall be handled carefully to avoid breakage before arriving at the hazardous waste facility. Use EPA approved containers to collect lamps and transport them to the hazardous waste facility.

- F. Contractor's personnel handling ballasts and HPS lamps shall be trained to handle such materials as prescribed by the EPA and State of North Carolina regulations.

END OF SECTION 260114