

**SECTION 16011R  
ELECTRICAL DEMOLITION**

**PART 1 - GENERAL**

**1.01 SCOPE**

- A. Work Included: All labor, materials, appliances, tools, equipment, facilities, transportation and services necessary for and incidental to performing all operations in connection with demolition, furnishing, delivery and installation of the work of this Section, complete, as shown on the drawings and/or specified herein. Work includes, but is not necessarily limited to, the following:
  - 1. Examine all other sections for work related to those other sections and required to be included as work under this section.
  - 2. General provisions and requirements for electrical work.

**1.02 GENERAL SUMMARY OF DEMOLITION WORK**

- A. The specifications and drawings are intended to cover a complete installation. The omission of expressed reference to any item of labor or material for the proper execution of the work in accordance with present practice of the trade shall not relieve the Contractor from providing such additional labor and materials.
- B. Refer to the drawings and shop drawings of other trades for additional demolition requirements which affect the proper installation of this work. Diagrams and symbols showing electrical connections are diagrammatic only. Wiring diagrams do not necessarily show the exact physical arrangement of the equipment.
- C. It is the Contractor's responsibility to visit the site and become thoroughly familiar with all features of the building and site which may affect the proper performance of this work.
- D. Portions of these plans have been derived from information taken from original electrical plans. The intent of the drawing and specifications is to provide a complete and operable system.

**1.03 LOCATIONS OF EQUIPMENT**

- A. The drawings indicate diagrammatically the locations or arrangements of conduit runs, outlets, equipment, etc. Proper judgment must be exercised in executing the work so as to secure the best possible installation in the available space and to overcome local difficulties due to space limitations or interference of structure conditions encountered.
- B. In the event changes in the locations or arrangements are necessary, due to existing conditions in the building construction or arrangement of furnishings or equipment, such changes shall be made without cost, providing the change is ordered before the work directly connected to same is installed and no extra materials are required.

**1.04 UNDERGROUND DETECTION SERVICES**

- A. Services shall be provided utilizing the latest detection equipment available. Services available from Underground Technology Incorporated, (800)366-7801. Services shall be performed by a company regularly engaged in the business of Underground Detection for the past five years.

B. Prior to excavation the following work shall be performed:

1. Obtain all available record drawings of the site from the District.
2. Arrange and meet with the District's representative to review existing underground conditions.
3. Exercise extreme caution in excavating and trenching on this site to avoid existing underground utilities, and to prevent hazard to personnel and/or damage to existing underground utilities or structures. These drawings and specifications do not include necessary components for construction safety which is the responsibility of the Contractor.
4. Repair/replace to the satisfaction of the District, any work damaged that was identified in the record drawings provided, noted by the District representative, or identified by the Underground Detection Services performed.
5. The Contractor shall contact Underground Service Alert of Southern California, 1-800-422-4133, at least 48 hours prior to excavation, and shall not excavate until verification has been received and that public utilities serving the site have located and marked.

- C. The locations of existing underground utilities, where shown on drawings, are shown diagrammatically and have not been independently verified by the District or its representative. The Architect and his Consulting Engineers are not responsible for the location of underground utilities or structures, whether or not shown or detailed and installed under this or any other contracts.

#### **1.05 SUBMITTALS**

- A. Schedule: Submit proposed outage schedule.
- B. Provide a sequence of demolition to insure uninterrupted use of occupied facilities which are to remain in operation during the contract period.
- C. Lead times on all electrical equipment shall be verified with the manufacturers prior to bid. Any conflicts that may delay the orderly progression of work shall be submitted in writing at the time of bid.

#### **1.06 CUTTING AND PATCHING**

Perform cutting and patching of the construction work which may be required for the proper demolition of the electrical work. Patching shall be of the same material, thickness, workmanship and finish as existing and accurately match surrounding work to the satisfaction of the Architect. Cutting of structural members shall not be done without notifying the Architect and obtaining DSA approval.

#### **1.07 TEST (ADDITIONAL REQUIREMENTS)**

Perform infrared thermal scan on all existing panelboards and switchboards and switchboards to remain after completion of all work and repair any deficiencies.

#### **1.08 ASBESTOS, POLYCHLORINATED BIPHENYL (PCB) OR HAZARDOUS WASTE:**

It is understood and agreed that this contract does not contemplate the handling of asbestos, PCB or any hazardous waste material. IF asbestos, PCB or any hazardous waste material is encountered, notify the District immediately. Do not disturb, handle or attempt to remove.

NOT APPLICABLE

**PART 3 - EXECUTION**

**3.01** The scope of the demolition work shall include all labor, materials, services and equipment required to provide the specified new work. This work includes, but is not limited to, the following:

- A. In all buildings to be removed from the site, the Contractor shall perform the following work:
  - 1. Disconnect and remove all existing power systems including switchboards, panelboards, conduits, wiring, disconnect switches, surface raceway systems, j-boxes, outlet boxes, power and receptacle outlets.
  - 2. Disconnect and remove all existing fire alarm and low voltage signal systems including telephone, clock, data networking, television, intrusion detection, closed-circuit surveillance and energy management controls systems. Remove all conduits, wiring, equipment racks, terminal cabinets/backboards, surface raceway systems, j-boxes, outlet boxes, devices and connectors.
- B. Disconnect and remove all existing signal and technology systems in existing Building "D" to be modernized including fire alarm, telephone, clock, public address, intrusion detection, data network, television and closed circuit surveillance systems. In locations where existing wall or ceiling mounted outlet boxes, backboxes and related conduits are not affected by the model work in these buildings, the existing outlet boxes, backboxes and conduits shall remain and be reused for the installation of the new system equipment and cabling. Where existing outlets, backboxes and conduits are not shown for the new equipment and cabling, the Contractor shall disconnect and remove these outlet boxes and backboxes and abandon the existing conduits in walls and/or below grade.
- C. Exercise extreme caution in excavating and trenching on this site to avoid existing ducts, piping, conduits, and utilities.
- D. Refer to architectural drawings for ceiling removal locations. Except as noted otherwise, disconnect and remove all existing ceiling mounted lighting fixtures, smoke heat detectors, motion detectors, outlets and junction boxes, speakers, exposed wiring, raceways, and all other electrical devices and hardware attached to the ceiling.
- E. All conduits rising from below grade to areas where partitions, walls, and/or other construction entities are indicated as being removed shall be cut to below finish floor, capped, and abandoned. Provide patching as required.
- F. Remove all exposed conduit, wire, outlets, disconnect switches and electrical mounting hardware for equipment removed.
- G. Remove all electrical outlets, conduits and conductors from walls undergoing structural modifications. Provide conduit and wiring, to maintain power and signal operation of the remaining outlets.
- H. Where new partitions or other construction will cover existing outlets or fixtures making them inaccessible, moves these outlets and conduits as required, or make other provisions so that the outlets will remain accessible and operational.
- I. Disconnect and remove all existing switchboard, transformers and panelboards in existing electrical room.

- J. Blank off unused and/or abandoned outlets with stainless steel plates.
- K. Disconnect and remove all existing conduits and wiring to existing panelboards.
- L. For clarity, miscellaneous equipment and raceways not related to project are not shown.
- M. All dimensions and locations of equipment are approximate. Contractor shall field verify all dimensions.
- N. Immediately notify the on-site inspector and district of any damage to new or existing work.
- O. Seal all abandoned floor penetrations in manner acceptable to the Architect.
- P. Repair and/or replace roofing materials, ceiling tiles, fixtures, etc. damaged by this construction.
- Q. Except where exposed conduits are shown on plans, install all new conduits concealed in walls, furred ceiling, or underfloor space.
- R. Remove conduits penetrating the roof and all conduits on the roof. Repair roofing damaged by removal of existing electrical equipment.
- S. All dimensions and locations of equipment are approximate. Contractor shall field verify all dimensions.
- T. Repair/replace all damaged or defective work, materials, and equipment to the Architects satisfaction.
- U. Seal all abandoned floor wall and roof penetrations in manner acceptable to the Architect.
- V. All removed materials and equipment which in the opinion of Architect are salvageable, shall remain the property of the District. Deliver such salvaged materials and equipment on premises as directed, neatly pile or store them and protect from damage. Where materials and equipment have been removed and not replaced the exposed surface shall be painted to match surrounding surfaces. Do not reuse materials and equipment, unless specifically indicated on plans or specified. Remove from premises and dispose of all materials considered by Architect to be scrap.
- W. Openings in existing fire rated partitions barriers, floors, ceiling etc. shall be sealed tight with UL and NFPA fire stop material equal to fire rating of the penetrated surface.
- Y. Disconnect and remove and replace existing lighting fixtures.

**END OF SECTION**  
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