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**SECTION 26 05 01**  
**ELECTRICAL DEMOLITION****PART 1 GENERAL****1.1 SUMMARY**

- A. Section Includes: Selective demolition requirements for the electrical Work.

**1.2 DEFINITIONS**

- A. Disconnect: Disconnect electrical service to indicated items. Associated conduit and wire shall be disconnected and removed, complete, back to its source. Where electrical equipment (i.e. generator) is connected to radiator, fuel, and exhaust piping, intake and exhaust ductwork, etc., this Contractor shall disconnect and remove all associated appurtenances, complete, back to their source unless noted otherwise.
- B. Remove: Remove and legally dispose of items except those indicated to be reinstalled, salvaged, or to remain the Owner's property as directed.
- C. Salvage (Turn Over to Owner): Items indicated to be salvaged remain the Owner's property. Remove, clean, and pack or crate items to protect against damage. Identify contents of containers and deliver to Owner's designated storage area.

**1.3 PROJECT CONDITIONS**

- A. General: Demolition work, as specified herein, is not intended to be performed as a wrecking operation but as Work relative to the performance of the various construction operations of the Project. The Contractor shall perform a site investigation prior to submitting a bid and prior to performing any demolition or new work. Selective demolition shall include, but not be limited to:
1. All labor, materials, and equipment required to perform selective demolition activities required by the Contract Documents.
  2. All labor, materials, and equipment to properly dispose of abandoned electrical equipment and apparatus as specified herein and as shown on the drawings.
- B. Protection: Exercise care during demolition work to confine demolition operations to the areas as indicated on the Drawings. The physical means and methods used for protection are at the Contractor's option. However, the Contractor shall be held completely responsible for replacement and restitution Work of whatever nature at no expense to the Owner.

**1.4 SUBMITTALS**

- A. General: Submit in accordance with Section 01 30 00
- B. Schedules indicating proposed methods and sequence of operations for selective demolition prior to commencement of Work. Include coordination for shut-off of electrical service, and details for dust and noise control.
1. Coordinate sequencing with construction phasing and Owner occupancy as directed.
- C. Inventory of items removed and salvaged by the Contractor for the Owner for inclusion in the Operation and Maintenance Manuals.
- D. Photographs or videotape, sufficiently detailed, of existing conditions of adjoining construction and site improvements that might be misconstrued as damage caused by selective demolition operations.
- E. Identify and accurately locate capped utilities and other subsurface structural, electrical, or mechanical conditions on drawings at Project closeout according to Division 01.
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**1.5 QUALITY ASSURANCE**

- A. Perform all electrical demolition work in accordance with all applicable Codes and Regulatory Agencies and Standards having jurisdiction.

**1.6 COORDINATION**

- A. Coordinate the shut-off and disconnection of electrical service with the Owner and the utility company.
- B. Notify the Owner at least five days prior to commencing demolition operations.
- C. Arrange selective demolition so as not to interfere with Owner's on-site operations.
- D. Perform selective demolition in phases as indicated.

**1.7 SEQUENCING AND SCHEDULING**

- A. Coordinate selective demolition with other trades and schedule electrical appurtenance to be removed and de-energized to permit installation of new work.

**PART 2 PRODUCTS****2.1 MATERIALS AND EQUIPMENT**

- A. Equipment, machinery and apparatus, motorized or otherwise, used to perform the demolition work may be used as chosen at the Contractor's discretion, but which will perform the Work within the limits of the Contract requirements.
- B. Patching Materials: Patching materials must match, as nearly as practical, the existing original structure material for each surface being patched.

**PART 3 EXECUTION****3.1 GENERAL**

- A. Abandoned Electrical Equipment and Apparatus: Existing electrical equipment and apparatus in or on the structures shall become the property of the Contractor. The Contractor shall be responsible for reviewing the materials and equipment being assigned for removal and shall investigate for any contaminants or hazards; including, but not limited to, materials such as PCBs or asbestos. All material assigned to the Contractor shall be removed in a manner suitable to the Owner and may not be disposed of on the site but shall be disposed of off site in a lawful manner.
- B. Abandoned Work: Cut and remove buried raceway and wiring indicated to be abandoned in place, 2 inches below the surface of adjacent construction. Cap raceways and patch surface to match existing finish.
- C. Accessible Work: Remove exposed electrical equipment and installations, indicated to be demolished, in their entirety. In exposed through-structure conduit locations, or where concealed conduits become exposed by penetrating a structural floor, wall or ceiling, the abandoned conduits shall be cut below the finished structural surface in order to perform surface patching.
- D. Cutting and Patching:
  - 1. Cutting: Perform cutting work of existing structure materials by such methods as will prevent extensive damage beyond the immediate area of cutting.
  - 2. Patching: After demolition and removal Work is performed, patch the existing structure as to match surrounding materials in finish, plane and appearance including the appropriate surface decoration.

- E. Disposal: Any such materials and equipment not desired by the Owner shall become the property of the Contractor and shall be removed promptly from the project site. Disposal shall be in accordance with the regulations of the authorities at the disposal site.
- F. Removed Non-Electrical Equipment: Disconnect and remove abandoned distribution equipment, devices, disconnect switches, motor starters, etc. serving utilization equipment that has been removed by others.
- G. Salvage: The Owner shall have the right to claim as salvage any items and materials removed under the Work of this Section in accordance with the Contract Documents. Should such right of salvage be exercised by the Owner, carefully handle, protect, move and neatly store removed items on the site in a location agreeable to the Owner, in a manner approved by the Architect and/or Construction Manager. All materials not claimed as salvage by the Owner shall become the property of the Contractor, who shall consider the equipment and materials as Abandoned Electrical Equipment and Apparatus.

### **3.2 EXAMINATION**

- A. Verify that field measurements and existing circuiting arrangements are as shown on Drawings.
  - 1. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
  - 2. Inventory and record the condition of items to be removed and salvaged.
  - 3. Survey the condition of the building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of the structure or adjacent structures during selective demolition.
  - 4. Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.
- B. Verify that abandoned wiring and electrical equipment serve only abandoned facilities.

### **3.3 PREPARATION**

- A. General: Prior to removal or interception of any raceway or equipment, the Contractor shall positively de-energize, lockout, and safety tag all related safety equipment and energy sources, and verify all systems are safe for human contact and to prevent damage to any system equipment. The Contractor shall review emergency action plans with the Owner immediately before each excavation, removal, or disconnecting work proceeds, to prepare for contingency of encountering unexpected or hazardous conditions.
- B. System De-activation: Prior to performance of demolition and removal work, seek prior approval from the Owner and the Architect. After receiving direct authorization from the Owner, de-activate such existing electrical systems as indicated or as directed by the Architect.
  - 1. Use such means and methods for permanent disconnection that render the remaining electrical systems and apparatus in conformity with the National Electrical Code.
  - 2. System deactivation will be performed with direct authorization by the Owner and the Architect and shall be performed as directed or required by code and regulatory agency(s).
- C. Provide temporary wiring and connections to maintain existing systems in service during construction.
  - 1. Conform temporary wiring to the requirements of NEC Article 590.
  - 2. Provide temporary electrical service work as specified herein as shown on the drawings in order to maintain existing services and systems required for continued operation.

**3.4 PERFORMANCE**

- A. General: The means and methods of performing electrical demolition and removal operations are the sole responsibility of the Contractor, except as otherwise specified. However, equipment used, and methods of demolition and removal will be subject to approval of the Architect.
  - 1. Protection
    - a. Protect adjacent materials indicated to remain. Install and maintain dust and noise barriers to keep dirt, dust, and noise from being transmitted to adjacent areas. Remove protection and barriers after demolition operations are complete.
    - b. Protect existing electrical equipment and installations indicated to remain. If damaged or disturbed in the course of the Work, remove damaged portions and install new products of equal capacity, quality, and functionality as approved by the Architect.
  - 2. Locate, identify, and protect electrical services passing through demolition area and serving other areas outside the demolition limits. Maintain services to areas outside demolition limits. When services must be interrupted, install temporary services for affected areas.
  - 3. Demolish and completely remove from site existing underground utilities indicated to be removed. Coordinate with utility companies to shut off services if lines are active.
- B. Demolition of existing electrical installation shall be performed to support the construction efforts of this Project. Demolish, remove, demount, and disconnect abandoned electrical materials and equipment indicated to be removed. Refer to drawings for further information.
  - 1. Remove, relocate and extend existing installations to accommodate new construction as indicated and/or as required.
  - 2. Remove exposed abandoned conduit systems, including abandoned conduit systems above accessible ceiling systems.
  - 3. Remove wiring in abandoned conduit systems to source of power supply.
  - 4. Maintain access to existing electrical installations that remain active. Modify installations and provide access panels or plates as appropriate.
  - 5. Extend existing installations using materials and methods compatible with existing electrical installations, and as specified elsewhere.
- C. Electrical Materials and Equipment
  - 1. Unintentional De-energization of Required Appurtenances: Any circuit and/or equipment indicated to be retained, and that is left de-energized because of the removal of existing equipment and materials, shall have a new homerun of required size extended to nearest panel and connected to a spare circuit breaker of required size therein. Total connected load on any one circuit breaker shall not exceed that required by the NEC.
  - 2. Boxes - Flush: Where devices (other than flush mounted light fixtures) and wiring are removed from existing flush boxes, a blank, stainless steel plate shall be provided and installed on the box by the Contractor.
  - 3. Circuits or Subfeeders: All circuits or subfeeders scheduled for removal shall be disconnected and removed to respective panelboards or the next retained outlet. If concealed conduits are encountered, they shall be cut at point of concealment and plugged with watertight and weatherproof caps as directed.
  - 4. Light Fixtures: Where flush/recessed light fixtures are removed from existing finishes, the Contractor shall patch and paint the existing openings with similar material to match the

surrounding area and paint. Final finishes shall match the same physical condition(s) existing prior to the start of any patching operations. Remove brackets, stems, hangers and other accessories.

5. Panelboards: Where existing flush mounted panelboards are indicated to be removed, they shall have their interiors and covers removed. This Contractor shall provide a new blank cover on the backbox.
6. Pads - Equipment: Break up and remove concrete equipment pads on grade, unless otherwise shown to remain.
7. Process Control and Instrumentation System: Only where so indicated and detailed on the Contract Drawings shall these systems be disconnected, removed, or relocated; including all associated service conduits.
8. Wiring Devices: Disconnect abandoned outlets and remove devices. Remove abandoned outlets if conduits serving them is abandoned and removed. Provide blank covers for abandoned outlets that are not removed.

**END OF SECTION 26 05 01**