

SECTION 02050

DEMOLITION

PART 1 GENERAL

1.01 DESCRIPTION OF WORK

- A. Demolition of designated structures and removal of materials from the site
- B. Demolition and removal of buildings, foundations and slabs on grade to be completed by others.
- C. Removal of specified items on demolition plan, as well as any others, which may be required to be removed to complete project.
- D. Demolition and removal of site paving as required by plans.
- E. Disconnecting, capping and removal of identified utilities, once new connections are made to public utilities.
- F. Refer to Architectural Specifications for demolition within structures and to 5' outside of structures.

1.02 RELATED SECTIONS

- A. Section 01505 - Construction Waste Management
- B. Section 02230 - Site Clearing and Grubbing: Clearing outside periphery of structures.
- C. Section 02315 - Common Excavation, Embankment and Compaction : Backfilling below-grade areas where demolition items are removed.
- D. Section 02320 - Slope Protection and Erosion Control

1.03 SUBMITTALS

- A. Schedule: Demolition - Submit two copies (2) of proposed methods and operations of demolition to the Owner for review, prior to the start of work. Include in the schedule the coordination for shut-off, capping and continuation of utility services as necessary.

1.04 JOB CONDITIONS

- A. Condition of Structures: Visit the site to determine existing conditions of structure and other facilities which are to be removed, prior to demolition or relocation.
- B. Owner assumes no responsibility for condition of structures to be demolished.
- C. Conditions, existing at the time of inspection for bidding purposes will be maintained by Owner as reasonably practical. Variations within the site may occur prior to the start of construction.
- D. Protection: Ensure the safe passage of persons around area of demolition and construction. Conduct operations so as to prevent damage of injury to adjacent buildings, structures, facilities, and persons.
- E. Traffic: Conduct demolition operations and the removal of debris to ensure minimum interference with roads, streets, sidewalks and adjacent occupied or used facilities.
- F. See topographic survey and/or Demolition Plan for locations of asphalt parking, concrete paving, etc., to be demolished.
- G. Damages: Promptly repair damage to adjacent facilities caused by demolition operations, at no cost to the Owner.
- H. Utility Services: The contractor will disconnect and seal the utilities serving the existing facility subsequent to the completion of the new utility services to the public infrastructure.

- I. Removal: Items to be removed from the site shall be removed and disposed of in accordance to the requirements of the authority having jurisdiction.
- J. Disconnecting, capping and removal of identified utilities, once new connections are made to public utilities.

1.05 QUALITY ASSURANCE

- A. Demolition Firm: Company specializing in type of work required by this section, with minimum 5 years of documented experience.

1.06 REGULATORY REQUIREMENTS

- A. Conform to applicable code for demolition of structures, safety of adjacent structures, dust control.
- B. Obtain required permits from authorities.
- C. Notify affected utility companies before starting work and comply with their requirements.
- D. Do not close or obstruct roadways without permits.
- E. Conform to applicable regulatory procedures when hazardous or contaminated materials are discovered.
- F. All demolition and construction debris shall be transported and disposed of at a facility licensed by the MDEP. The Contractor shall enter into appropriate contracts for the transport/disposal of demolition and construction debris.

PART 2 PRODUCTS

2.01 NOT USED

PART 3 EXECUTION

3.01 PREPARATION

- A. Pollution Controls: Use water sprinkling to limit to the lowest practical level the amount of dust and dirt rising and scattering in the air. Do not use water when it may create hazardous conditions, ice, flooding, or pollution.
- B. Clean adjacent structures and improvements of dust, dirt and debris caused by demolition operation. Return adjacent areas to condition existing prior to the start of the work.
- C. Provide, erect, and maintain temporary barriers and security devices at locations indicated.
- D. Protect existing landscaping materials, appurtenances, and structures that are not to be demolished. Repair damage caused by demolition operations at no cost to the Owner.
- E. Mark location of utilities. Protect and maintain in safe and operable condition utilities that are to remain. Prevent interruption of existing utility service to occupied or used facilities, except when authorized in writing by authorities having jurisdiction. Provide temporary services during interruptions to existing utilities as acceptable to governing authorities and Owner.
- F. Provide shoring and bracing as needed.
- G. Notify adjacent owners of work that may affect their property, potential noise, utility outages or disruptions. Contractor to coordinate with Owner.

3.02 SITE DEMOLITION

- A. Disconnect and cap utilities to structure. Remove disconnected utilities. Existing utilities shall remain active until proposed utilities are complete and operational.
- B. See topographic survey and/or Demolition Plan for locations of asphalt parking, concrete paving, etc., to be demolished.

3.03 FILLING VOIDS

- A. Completely fill below grade areas and voids resulting from demolition or removal of utilities, slabs, underground fuel tanks, cisterns, etc., using approved select fill materials consisting of stone, gravel and sand free from debris, trash, frozen materials, roots and other organic matter.
- B. Ensure that areas to be filled are free of standing water, frost, frozen or unsuitable material, trash, and debris prior to fill placement.
- C. Place fill materials in lifts not to exceed 12" loose measure and shall be compacted to not less than 95% maximum dry density as determined by ASTM D1557
- D. Grade surface to match adjacent grades and to provide flow of surface drainage after fill placement and compaction.

3.04 DISPOSAL OF DEMOLISHED MATERIALS

- A. General: Remove debris, rubbish, and materials resulting from demolition operations from the site.
- B. All removed materials shall become the property of the contractor, and shall be disposed of in a legal, environmentally safe manner; recycling or salvage of materials is strongly recommended and encouraged.
- C. Removal: Transport materials removed from demolished items and dispose of off the site to areas that are approved for disposal by governing authorities and appropriate property owners..
- D. Refer to Section 02230, Site Clearing and Grubbing, for regulatory information pertaining to disposal of materials.

END OF SECTION