

SECTION 02 41 00

DEMOLITION

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Work Specified in this Section: This section shall apply to the work covered in the Tenant Build-Out Package and Structural Retrofit Package. Furnish materials and perform labor required to execute this work as indicated on the drawings, as specified and as necessary to complete the Contract, including, but not limited to these major items:
1. Coordinate the work of this section with other trades including off-site construction.
 2. Demolish existing construction where indicated and required by job conditions.
 3. Protect existing improvements and vegetation designated to remain.
 4. Remove demolished items from the site and dispose of in a legal manner.
 5. Erect barricades as necessary to protect workers and the public during the performance of the work.
- B. Related Work Specified Elsewhere:
1. Grading.
 2. Site Clearing.
 3. Disconnecting, cutting, capping or relocating any active utility lines encountered.
 4. Work listed under section 02 41 19 Selective Demolition.

1.02 SITE CONDITIONS

- A. Site Visitation: In preparing the proposal, the Developer Design/Builder is assumed to have visited the site, carefully examined the drawings and specifications, and determined the methods of removal and storage of materials, the sequencing of operations and the attendant problems. No allowance will be made subsequently to the Developer Design/Builder for errors due to negligence in observing the site conditions.
- B. Toxic Substances: No toxic substances are known to be present on the site. Should toxic substances be encountered the Developer Design/Builder shall immediately stop work in the vicinity of the toxic substances and notify the County's Representative for instructions before proceeding with the work.

1.03 QUALITY ASSURANCE

- A. General: Use adequate numbers of skilled workers who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and methods needed for proper performance of the work in this section.
- B. Ordinances, Codes and Regulations: All work shall be installed in accordance with all of the requirements of all legally constituted authorities having jurisdiction, including all local ordinances, codes and the Construction Safety Orders and General Industry Safety Orders of the State Division of Occupational Safety and Health (Cal/OSHA), CCR, Title 8.
- C. Coordinate demolition for the correct sequence, limits, and methods. Schedule demolition Work to create least possible inconvenience to the public and facility operations.

1.04 PROJECT CONDITIONS

- A. Drawings may not indicate in detail all demolition Work to be performed. Examine existing conditions to determine the full extent of required demolition.
- B. Provide all measures to avoid excessive damage from inadequate or improper means and methods, improper shoring, bracing or support.
- C. If conditions are encountered that vary from those indicated, promptly notify the County's Representative for clarification prior to proceeding.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. As directed to perform the work.

PART 3 - EXECUTION

3.01 PROTECTIVE MEASURES

- A. Shoring, Cribbing and Bracing: Shore, crib and brace the excavations as necessary to prevent cave-ins and to support and protect adjacent construction in accordance with federal, state and local laws. All such shoring shall be designed by a licensed Civil or Structural Engineer employed by the Developer Design/Builder.
- B. Preservations of Property from Damage: Existing improvements, adjacent property, utility and other facilities, and trees, lawns and plants that are not to be removed shall be protected from injury or damage. Repair or replace existing improvements damaged during the conduct of this work with material of same kind, quality and size. Materials or equipment temporarily removed for protection and not damaged shall be reinstalled. Provide new supports and reinforcement for existing construction weakened by demolition or removal work.
- C. Barricades: Provide necessary barricades, fences and protections to protect the public, personnel, equipment and premises from damage, harm, hazard or disturbance arising out of this work. Provide signs to exclude persons except those connected with work from entering the working area. Developer Design/Builder is responsible for preventing unauthorized persons from entering the working area. Do not interfere with the use of adjacent buildings. Maintain free and safe passage to and from all buildings. Cooperate with other trades requiring access.
- D. Noise: Conduct work using the quietest of available, suitable processes and equipment to keep noise down.
- E. Dust Palliation: Dust resulting from salvage, demolition, and removal work shall be controlled to avoid creation of nuisance in the surrounding area. Use of water will not be permitted when it will result in, or create, hazardous or objectionable conditions such as flooding or pollution.
- F. Trees: Trees and plants that are not to be removed shall be protected from injury by the Developer Design/Builder at his expense. Perform excavations within the drip-lines of large trees to remain by hand and protect the root system from damage or dry-out to the greatest extent possible. Maintain a moist condition for the root system and cover exposed roots as directed by the County's Representative. Paint root cuts of one inch diameter and larger with emulsified asphalt tree paint.
- G. Explosives: The use of explosives will not be permitted.

3.02 EXISTING FACILITIES TO BE REMOVED

A. Underground Utilities:

1. Prior to the commencement of any excavation, telephone Underground Service Alert (U.S.A.). Two working days shall be allowed after contacting U.S.A. before any excavation work is started to allow utility owners to be notified. If any utilities are to remain in place, provide adequate protection during earthwork operations to prevent damaging them.
2. Should uncharted or incorrectly charted utilities be encountered during excavation, notify the utility owner for instructions. Cooperate with the utility owner in keeping respective services and facilities in operation. Repair damaged utilities to the satisfaction of the utility owner and pay all costs thereof.
3. Should old utility lines be encountered which prove to be abandoned in place, they shall be removed as part of the excavation, or if sufficiently below grade as determined by the Geotechnical Engineer, may be capped and left in place.
4. Do not interrupt existing utilities serving facilities occupied and used by the County or others, during occupied hours, except when permitted in writing and then only after acceptable temporary utility services have been provided.
5. Prior to beginning any demolition, properly disconnect all water, gas and electrical power supply at appropriate disconnect locations. Obtain all necessary releases and approvals from serving utility companies.
6. Mark location of disconnected systems. Identify and indicate stub-out locations on Project Record Documents.

B. Structures: Remove existing structures including foundations and concrete slabs as indicated.

C. Paving and Slabs:

1. Remove concrete sidewalk and curb where required for new construction as indicated on the drawings.
2. Concrete: Remove concrete paving and slabs by saw-cutting. Remove concrete paving and curbing at locations shown on drawings or as required by existing field conditions. Locate closest adjacent weakened plane joint to define start of saw-cutting.
3. Remove asphalt concrete paving by saw-cutting at locations shown on drawings. Remove asphalt paving and base material from site.

D. Filling: Holes, open basements and other hazardous openings shall be filled.

3.03 DISPOSITION OF MATERIAL

- A. Title to Materials: Except where indicated or specified otherwise, all materials and equipment removed, and not reused, shall become the property of the Developer Design/Builder and shall be removed from the site. The County will not be responsible for the condition or loss of, or damage to, such property after notice to proceed. Material and equipment shall not be viewed by prospective purchasers or sold on the site.
- B. Salvaged Materials and Equipment: Carefully remove materials and equipment that are indicated to be removed by the Developer Design/Builder and that are to remain the property of the County, and deliver to a storage site, as directed by the County.

3.04 CLEANUP AND DISPOSAL

- A. Throughout all phases of the work, including suspensions of work, and until final acceptance of the project, the Developer Design/Builder shall keep the work site and all abutting public right-of-way clean and free of all rubbish and debris. Cleanup shall be done on a daily basis.
- B. Regulations: Comply with all federal, state, and local hauling and disposal regulations.
- C. The areas in which demolition has been performed shall be raked clean with no buried debris. For the sake of this paragraph, pieces of rock, brick or concrete smaller than 4 inches in their maximum dimension are not considered debris.
- D. Burning and burying materials on-site is prohibited.

END OF SECTION