

SECTION 02 41 13

SELECTIVE SITE DEMOLITION

PART 1 GENERAL

1.1 WORK INCLUDED

- A. SELECTIVE SITE DEMOLITION consists of furnishing transportation, labor, materials, and equipment to perform site demolition and removal work required to accommodate the new construction. Work includes but is not limited to the following:
 - 1. Concrete removals
 - 2. Asphalt concrete pavement removals
 - 3. Tree and tree roots removals including tree stump grinding
- B. Dispose removed materials in conformance with the CLEANING Section.
- C. Refer also to BASIC SITE MATERIALS AND METHODS Section for asphalt concrete pavement removal.

1.2 RELATED REQUIREMENTS

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| A. REGULATORY REQUIREMENTS | Section 01 41 00 |
| B. TEMPORARY FACILITIES AND CONTROLS | Section 01 51 00 |
| C. TEMPORARY SITE SECURITY AND SAFETY | Section 01 56 36 |
| C. CLEANING | Section 01 74 00 |
| D. BASIC SITE MATERIALS AND METHODS | Section 02 00 01 |

1.3 MEASUREMENT AND PAYMENT

- A. Tree Removal
"Tree Removal" will be measured and paid for by each tree removed. Trees to be removed shall be considered as those having a trunk diameter of six inches (6") and greater measured at the height of fifty-four inches (54") above ground. Payment shall be measured and paid by each tree removed and disposed, including tree root removal and stump grinding, and shall include full compensation for furnishing transportation, labor, materials, tools, equipment, and incidental costs. All work be completed and in place as accordance with project plans, specifications, and permits.

1.4 REFERENCES

A. American Society for Testing and Materials (ASTM International)

ASTM D2487 Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)

B. American National Standards Institute

ANSI Z 535.5 Safety Signs and Barricade Tapes (for Temporary Hazards)

C. Code of Federal Regulations (CFR)

29 CFR 1926.200 Accident Prevention Signs and Tags

D. State of California Department of Transportation Standard Specifications (SS):

Section 10 Dust Control

Section 15-3 Removing Concrete
Subsection 15-3.3 Removal Methods

Section 73 Concrete Curbs And Sidewalks
Subsection 73-1.03 Existing Curbs and Sidewalks

E. Standard Specifications for Public Works Construction (RS):

Section 300 Earthwork

1.5 SUBMITTALS

- A. Procedures, equipment to be used, and operational sequences.
- B. Submit prior to start of Work photographs of existing damage to structures adjacent to but not a part of the Work, where such damage could be misconstrued as caused by Contractor.

1.6 TRAFFIC CONTROL

- A. Refer to TEMPORARY FACILITIES AND CONTROLS Section.

1.7 SALVAGE

- A. No on-site sale of salvage will be allowed. No removals shall be made from the site by any person other than the Contractor or employees of the Contractor.
- B. Refer also to CLEANING Section.

1.8 ENVIRONMENTAL REQUIREMENTS

- A. Refer to REGULATORY REQUIREMENTS Section.

PART 2 - PRODUCTS

2.1 BACKFILL MATERIALS

- A. Imported fill, where required for backfill of voids, shall conform to RS Subsection 300-5, except for 300-5.4.
1. Fill shall consist of soils classified as SW, SM, SC, or SP in conformance with ASTM D2487. Soils shall have a minimum sand equivalent value of 20 percent in conformance with ASTM D2419.
- B. Excavated materials may be re-used for backfill of voids left after removals in conformance with RS Subsection 300-4 exclusive of Subsection 300-4.9. Material shall not contain vegetation or other organics, rocks, broken concrete, debris, or other solid materials larger than 4 inches, or any other deleterious material.

PART 3 - EXECUTION

3.1 REMOVALS

- A. Concrete Removals:
1. Remove concrete pavement, curb, walks, access ramps, and driveway in conformance with SS Subsection 15-3.3 and SS Subsection 73-1.03.
 2. The Contractor shall remove and dispose of all curb and gutter, sidewalk, or driveway approach to the limits marked in the field by the Engineer. Removal work shall not exceed the limits as agreed with the Engineer. Limits of removal shall be along straight lines and may be along existing cold joints or expansion joint, score line, or control line or as otherwise marked by the Engineer in the field.
 3. Where the limit of removal is along a location other than an existing cold joint or expansion joint concrete shall be neatly cut to provide a straight and uniform edge. Where necessary to meet the dimensions for new subgrade for standard curb and gutter, sidewalk, driveway or curb ramp, additional material shall be excavated and removed to provide an even and uniform plane.
 4. Where the plans for reconstruction of existing curb and/or sidewalk, and the limits of the new work specified do not fall on a scoring line, the entire section shall be removed and the new work shall be joined to the existing at the first scoring line beyond said specified limit.

5. The Contractor shall notify the Engineer when tree roots are exposed during concrete removal. City may inspect the tree roots to determine the limits of the root cutting or pruning. The Contractor shall perform all necessary root pruning or removal to complete the work.
6. Refer to BASIC SITE MATERIALS AND METHODS Section for additional requirements.

C. Tree Removals:

1. Remove tree and tree root as directed by the Engineer. No trees may be removed prior to tree inspection and without authorization by the City.
2. Tree removal shall include removal of tree stumps and root systems. Tree stump removal shall be performed with a stump grinder unless City authorized the option to dig out.
3. Prior to any stump grinding or removal, the Contractor shall notify Underground Service Alert (USA) in conformance with BASIC SITE MATERIALS AND METHODS Section
4. Stumps shall be removed to a minimum of 24" depth below grade.
5. After removal of the stump, all wood-chips, pavement, concrete and rocks over 2" in diameter shall be removed from the area and the area backfilled with top soil that is conducive to plant growth. The top soil shall be fertile, friable sandy loam, and disease free.

C. Control dust in conformance with SS Section 10.

D. Items not shown on Drawings or mentioned in the Specifications, which are encountered during the Contractor's operations shall be brought to the attention of the Engineer. The Engineer will determine the disposition of the items.

E. Perform removals under City's inspection in conformance with applicable safety standards and requirements.

F. No debris shall be allowed to enter storm drains.

G. Perform asphalt concrete pavement removals in conformance with BASIC SITE MATERIALS AND METHODS Section.

H. Repair or replace surface and subsurface improvements removed or damaged as a result of the Contractor's operations in conformance with BASIC SITE MATERIALS AND METHODS Section.

3.2 SAFETY AND PROTECTION

A. Protect existing buildings, substructures, and other improvements within and

adjacent to Project site in conformance with BASIC SITE MATERIALS AND METHODS Section.

- B. Provide, erect, and maintain barriers, barricades, lighting, and guard rails as required to protect general public, workers, and adjoining properties.
- C. Cease operation and notify Engineer immediately if demolition appears to be a threat to human health, facilities, or property. Do not resume operations until safe conditions have been restored.
- D. Post hazard warning signage compliant with requirements of 29 CFR 1926.200, "Accident Prevention Signs and Tags", and recommendations of ANSI Z535.5 at perimeter of construction zone. Promptly remove signage after Engineer verifies that demolition hazards no longer exist.
- E. Refer to TEMPORARY SITE SECURITY AND SAFETY Section for additional requirements.

3.3 OWNERSHIP AND DISPOSAL

Refer to BASIC SITE MATERIALS AND METHODS Section for requirements concerning ownership and disposal criteria for demolished materials.

3.4 BACKFILL EXCAVATIONS

Mechanically backfill voids in subgrade areas in conformance with the BASIC SITE MATERIALS AND METHODS Section.

3.5 POWER POLES

Refer to BASIC SITE MATERIALS AND METHODS Section for work around existing power poles and light poles.

-END OF SECTION-

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