

## SECTION 31 11 00

### CLEARING AND GRUBBING

#### PART 1 - GENERAL

##### 1.01 SECTION INCLUDES

- A. Clearing and grubbing
- B. Tree branches
- C. Demolition/removal
- D. Disposal of removed materials and debris
- E. Salvage
- F. Backfill

##### 1.02 RELATED SECTIONS

- A. Temporary facilities, such as fences, barricades, warning lights, and other temporary safety measures, are specified in Section 01 52 00 - Construction Facilities.
- B. Dust control is specified in Section 01 57 00 - Temporary Controls.
- C. Demolition of structures and removal, salvage, or other disposition of slabs, footings and foundations; existing pavement, curbs and gutters, sidewalks, headwalls, walls, and steps; utility service facilities; guardrail and posts, highway and street signs and fences; and other miscellaneous structures and site improvements that interfere with new construction are specified in Section 02 41 00 - Demolition.
- D. Removal of items that are buried below grade is specified in Section 31 00 00 - Earthwork.

##### 1.03 MEASUREMENT AND PAYMENT

- A. Measurement
  - 1. Site clearing and grubbing will be measured for payment by the lump-sum method, acceptably performed and completed.
  - 2. Removal, salvage, or other disposition of existing facilities, structures, and site improvements will not be measured separately for payment, but will be included in the lump-sum unit measurement for site clearing and grubbing.
  - 3. Material and placement for backfill will be measured separately for payment as specified in Section 31 00 00 - Earthwork.
- B. Payment

1. Site clearing and grubbing will be paid for at the Contract lump-sum price, as indicated in the Bid Schedule of the Bid Form.
2. Excavating and backfill incidental to the work under this Section will be paid for as specified in Section 31 00 00 - Earthwork.

**1.04 SUBMITTALS**

- A. General: Refer to Section 01 33 00 - Submittal Procedures, for submittal requirements and procedures.
- B. Utility Severance Certificates: Provide certificates of severance of utility services, issued by the utility owners, for review and record purposes. Submit copies of certificates for record documents in accordance with the requirements of Section 01 78 39 - Project Record Documents.

**1.05 REGULATORY REQUIREMENTS**

- A. Regulatory requirements that govern the work of this Section include the following governing codes:
  1. California Code of Regulations, Title 8, Chapter 4, Subchapter 4 — Construction Safety Orders
  2. California Code of Regulations, Title 24, Part 2, California Building Code, Chapter 33, Protection of Pedestrians During Construction or Demolition

**1.06 JOBSITE CONDITIONS**

- A. Dispose of cleared, grubbed, and removed material away from the site. Burying and burning of materials at the site will not be permitted. Stockpile salvaged material in a secured location.
- B. Clear and restore areas used for the Contractor's convenience. Restore such areas to their original condition, and provide mulching, seeding, and planting as required.
- C. Protect survey markers and monuments, existing improvements, and adjacent properties from removal and damage.
- D. Give written notices to utility companies and municipal departments requesting discontinuance of services to areas that will be affected by the site clearing and grubbing work.
- E. Provide noise and dust abatement as specified in Section 01 57 00 - Temporary Controls.

**1.07 CARE OF EXISTING TREES**

- A. Trees and plants indicated in the Contract Documents to remain and to be preserved shall be protected from damage by constructing suitable barriers or fences at, or near, the driplines of the trees and plants. Vehicles, equipment, materials, and debris shall not be placed or parked in these areas or under trees to remain.

- B. Feed, water, and maintain protected trees and plants in a healthy, growing condition during the construction period.

## **PART 2 - PRODUCTS**

### **2.01 MATERIALS AND EQUIPMENT**

- A. The Contractor shall furnish all materials, tools, equipment, facilities, and services as required for performing site clearing, grubbing and other site preparation work.

## **PART 3 - EXECUTION**

### **3.01 CLEARING AND GRUBBING**

- A. Perform clearing and grubbing as necessary to remove vegetation and objectionable material from the site. Clear the site within the limits indicated, and remove cleared materials and debris from the site. Unless otherwise indicated, clearing and grubbing shall include removing the top 4 inches of the existing ground. Coordinate with salvaging of topsoil specified in Section 31 00 00 - Earthwork.
- B. Remove stumps and roots completely in excavation areas and under embankments where the original ground level is within 3.5 feet of sub grade or slope of embankments. In embankment areas, where the original ground level is more than 3.5 feet below the sub grade or slope of embankment, cut off trees, stumps, and brush to within 6 inches of the ground.
- C. Do not start earthwork operations in areas where clearing and grubbing are not complete, except that stumps and large roots may be removed concurrently with excavation.
- D. Where the work includes requirements for wood chip mulch, acceptable material from clearing and grubbing activities may be used to produce such mulch.

### **3.02 TREE BRANCHES**

- A. Remove tree branches overhanging trackways, roadways, and other designated areas of the site to within 20 feet of finish grade. Cut off branches neatly and close to the tree boles. Remove other branches as necessary to present a balanced appearance. Treat scars resulting from tree branch removal with a heavy coat of an approved asphaltic tree paint.

### **3.03 DEMOLITION/REMOVAL**

- A. Coordinate the work of this Section with the work of Section 02 41 00 - Demolition, as required to remove existing pavements, curbs, structures and site improvements that interfere with new construction and where demolition is not indicated.
- B. Remove walls and masonry construction to a minimum depth of 2 feet below existing ground level in areas where such items do not interfere with new construction.
- C. Take possession of, remove, and dispose of abandoned rail and track materials.

- D. Slabs may be broken for drainage and left in place where they are below grade and the Engineer determines it is not detrimental to the structural integrity of the fill or structure to be placed above.

**3.04 DISPOSAL OF REMOVED MATERIALS AND DEBRIS**

- A. Dispose of removed materials, waste, trash, and debris in a safe, acceptable manner, in accordance with applicable laws and ordinances and as prescribed by authorities having jurisdiction.
- B. Burying of trash and debris on the site will not be permitted. Burning of trash and debris at the site will not be permitted.
- C. Remove trash and debris from the site at frequent intervals so that its presence will not delay the progress of the Work or cause hazardous conditions for workers and the public.
- D. Removed materials, waste, trash, and debris shall become the property of the Contractor and shall be removed from the District's property and disposed of in a legal manner. Location of disposal site and length of haul shall be the Contractor's responsibility.

**3.05 SALVAGE**

- A. Refer to Section 02 41 00 - Demolition, for salvage requirements.

**3.06 BACKFILL**

- A. Backfill trenches and excavations resulting from work under this Section in accordance with applicable requirements of Section 31 00 00 - Earthwork.

**END OF SECTION 31 11 00**