

**SECTION 15 – CLEARING AND GRUBBING
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SECTION 15 CLEARING AND GRUBBING

15-1 GENERAL

Clearing and grubbing shall consist of removing all objectionable material, and material as designated in these Specifications, from within the work site, or other areas as shown on the Plans or specified in the Special Provisions.

The methods of removing existing facilities shall conform to Section 13, "Existing Facilities", of these Specifications.

Attention is directed to Section 10, "Environmental Controls at Work Site", of these Specifications for additional requirements.

Clearing and grubbing operations must not cause more than minimal damage to public and private property, and improvements, including existing trees, shrubbery and lawns, outside of the work site, or other areas as shown or specified in the Contract.

15-1.01 Vegetation and Debris

Vegetation designated for removal, such as weeds, grass, shrubbery, roots, and stumps, and debris, such as broken concrete and trash, shall be removed from the right-of-way or construction areas and disposed of by the Contractor. Vegetation to remain shall be protected in place.

15-1.02 Trees, Shrubs, Ground Cover, and Lawns

For the purpose of these Specifications, trees shall be defined as having a trunk diameter (DBH = diameter at breast height) of three inches (3") and greater measured at a height of four and one-half feet (4-1/2') above the ground. Shrubs shall be defined as single or multi-stem individual plants, not of tree size. Ground cover shall be defined as multiple spreading and matting plant material of a density to cover bare ground, including turf lawn.

Only plant material shown on the Plans to be removed and disposed of shall be removed and disposed of. Prior to the clearing and grubbing operations on a particular property or portion of the work site, the Agency will mark and designate the trees, shrubs, and ground cover areas to be removed and disposed of.

Trees, shrubs and ground cover that are not to be removed shall be protected from injury or damage. Attention is directed to Section 10-13, "Protection of Existing Trees", of these Specifications for protection of certain existing trees within the County of Sacramento.

Trees, shrubs and ground cover designated to be relocated, and not specifically designated for disposal, shall be preserved by removing an adequate and substantial root mass of native soil and roots with the rootball wrapped in burlap and kept moist until the Work has progressed to permit the replanting. The removal and replanting shall be performed in a careful and professional manner at the direction of an Arborist certified by the International Society of Arborists, hereinafter designated as a "Certified Arborist". The tree trimming shall be limited to tree limbs required to be removed to allow for minimum required vehicular clearance. Tree root cutting shall be limited to that which is required for earthwork operations, so as to minimize impact on existing trees. All roots one-half inch (1/2") in diameter or greater shall be cut cleanly and sealed as directed by the Certified Arborist or by the Certified Arborist's staff. Any root cutting on trees to remain which, in the opinion of the Certified Arborist, will jeopardize the health or stability of the tree shall be brought to the attention of the Agency for specific instructions prior to the cutting of the roots.

The Contractor shall submit the name of the Certified Arborist to the Agency, in writing, a minimum of four (4) Working Days prior to the start of clearing and grubbing operations.

Tree branches or portions of shrubs which extend over a roadway shall be trimmed to provide a minimum clearance of fourteen feet (14') above the shoulder point of the roadbed,

unless specifically permitted otherwise in writing by the Agency. The tree or shrub branches to be removed shall be removed by a tree trimmer certified by the International Society of Arborists.

Lawns which are disrupted during the Work shall be regraded and replaced or repaired to match the existing lawn. Unless shown or specified otherwise in the Contract or directed otherwise by the Agency, lawns that are damaged shall be replanted with new sod. The resulting lawn shall be left in a condition equal to or better than the condition of the lawn prior to the start of the work.

15-1.03 Disposal and Salvage

All materials removed become the property of the Contractor and shall be disposed of off the rights-of-way or easement, unless otherwise shown or specified in the Contract. Existing public or private improvements that are designated in the Contract to be salvaged shall be carefully removed and stockpiled in the right-of-way or easement for later removal by the Agency or the adjacent property owner, as specified.

15-1.04 Abandonment of Conduits and Structures

When a sanitary sewer or storm drain is to be abandoned within specified limits, all structures and appurtenances within said limits shall also be abandoned.

When sanitary sewer or storm drain conduits have been or are to be abandoned and, in the opinion of the Agency, are found to interfere with construction, the interfering portion shall be removed and the remaining open portion securely sealed. Where the greatest internal dimension of the conduit is three feet (3') or less, the seal shall consist of a wall of concrete not less than six inches (6") thick or an eight-inch (8") thick wall of brick and mortar. For larger openings, details of the seal will be as shown on the Plans or as directed by the Agency.

When catch basins, drain inlets, or manholes are to be abandoned, the upper portion shall be removed to a depth of at least one foot (1') below street subgrade and the conduits connected to the structure shall be sealed as provided herein. The bottom of such structures shall be perforated or broken to prevent the entrapment of water.

Structures designated on the Plans to be removed shall be removed to the full depth of the structure, including its foundation. Voids resulting from abandoned or removed structures shall be filled with suitable material, in accordance with Section 18-5.02, "Backfill", of these Specifications, and compacted to a relative compaction of ninety percent (90%). If the voids are in surfaced areas otherwise to remain undisturbed, they shall be backfilled with materials equal to or better in quality and to the same thicknesses as the surrounding materials, as directed by the Agency.

All costs for this work shall be included in the prices bid for the items involved.

15-1.05 Silt Control

Attention is directed to Section 10-4, "Erosion, Sediment, and Water Pollution Control", of these Specifications.

15-1.06 Miscellaneous

Clearing and grubbing includes the removal and proper disposal of existing barricades as shown on the Plans for removal, and removal of pavement markers prior to asphalt overlays and application of slurry seal as directed by the Agency. Unless otherwise provided for in the Special Provisions, all concrete removal shown on the Plans, or otherwise directed by the Agency, shall be in accordance with Section 13, "Existing Facilities", of these Specifications and included in the price paid for clearing and grubbing with no additional payment allowed. Actual limit of concrete removal shall extend to nearest score mark or joint, if nearest score mark or joint is within three feet (3') of limit of removal as indicated on the Plans. Adjacent to all areas of removal of curb and gutter, a two-foot (2') minimum width, six-inch (6") minimum depth wide bank of existing roadway pavement shall be saw cut and removed. Unless otherwise provided for in the Special Provisions, clearing and grubbing shall also include removal of existing storm

drainage facilities as shown on the Plans. Removal shall be in accordance with Section 13, “Existing Facilities”, of these Specifications and included in the price paid for clearing and grubbing and no additional payment will be made.

15-2 PAYMENT

The lump sum price paid for clearing and grubbing includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals necessary to perform the work, and for doing all the work involved in clearing and grubbing, including protection of existing trees, as shown or specified in the Contract, specified in these Specifications, and directed by the Agency, including the removal and disposal of all the resulting material.

When the Contract does not include an item for clearing and grubbing, full compensation for clearing and grubbing required to perform the Work is included in the prices paid for the items of work requiring clearing and grubbing, and no additional compensation will be paid.