SECTION 02180 - CLEARING AND GRUBBING

PART 1 - GENERAL

1.01 SUMMARY

A. Clearing and grubbing, within the Site and as indicated in the Contract Documents, shall consist of the removal and disposal of all trees, stumps, roots, logs, shrubs, grass, weeds, fallen timber, trash (surface and buried), buildings, foundations, fences and all other material designated for removal and disposal.

1.02 SPECIFICATION MODIFICATIONS

A. It is understood that throughout this section these Specifications may be modified by appropriate items in Section 01015 – Specific Project Requirements and as indicated in the Contract Documents.

1.03 RELATED SECTIONS

- A. Section 01015 Specific Project Requirements.
- B. Section 02190 Demolition.
- C. Section 02200 Earthwork.
- D. Section 02575 Restoration.
- E. Section 02949 Tree Protection, Removal and Replacement.

1.04 CODES AND STANDARDS

A. Note used.

1.05 DEFINITIONS

- A. Clearing The removal and disposal of all materials such as trees, brush, fallen timber and other materials found on or above the surface of the site. It shall include, but is not limited to, the removal of the following: buildings (see also Section 02190 Demolition), fences, lumber, trash and other waste. Salvaging and disposing of the materials shall be as specified in this section and in the Contract Documents.
- B. Scalping The removal and disposal of material such as: sod, grass, weeds, agricultural crops, bushes, brush and all decayed vegetative matter from the surface of the ground without disturbing the earth more than is necessary.
- C. Grubbing The removal and disposal of all material such as stumps, roots, buried debris, foundations and trash encountered below the surface of the ground that has not been included in the description of clearing.
- D. Trees Woody growth having a diameter of 2 inches or greater as measured 4.5 feet above the ground.
- E. Brush Dense vegetation consisting of shrubs, bushes and small trees less than 2 inches in diameter as measured 4.5 feet above the ground.

1.06 INFORMATION PROVIDED BY THE CITY

A. As provided in the Contract Documents.

1.07 SUBMITTALS

- A. Submit as specified in Section 01300 Submittals.
- B. Other Submittals:
 - 1. All permits required for the Work specified in this section.

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- 2. Landfill Information. The Contractor shall submit for review and approval all proposed landfill sites to be used for the disposal of debris resulting from clearing and grubbing.
- 1.08 QUALITY ASSURANCE
 - A. The Contractor is responsible for the quality assurance and quality control of the Work.

1.09 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Salvaged materials shall be handled, stored and delivered as specified in Section 01015 – Specific Project Requirements.

1.10 LIMITS OF WORK

- A. The limits of clearing and grubbing shall extend to the construction limits unless otherwise shown on the Drawings. Clearing should only occur in those areas required for construction within a six-month period.
- B. Large projects shall be cleared and grubbed as construction progresses. Mass clearing and grubbing shall be avoided.
- C. An undisturbed strip of not less than 25 feet in width consisting of existing grass or other vegetation shall be kept in place around the perimeter of the construction site and protected from damage. The Contractor shall scalp only those areas necessary for the construction of the project.

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

3.01 PERIMETER EROSION AND SEDIMENT CONTROLS

- A. Perimeter erosion and sediment controls shall be installed prior to the start of clearing and grubbing the Site.
- B. When needed for the installation of perimeter controls, limited clearing and grubbing will be allowed to accommodate the Contractor's perimeter installation operation.

3.02 PRESERVATION OF TREES

- A. All work associated with trees shall be done in accordance with Section 02949 Tree Protection, Removal and Replacement. No trees shall be removed outside the excavated area or outside filled areas, unless their removal is indicated on the Drawings or as authorized by the City in accordance with Section 02949.
- B. Trees left standing shall be protected from permanent damage by construction operations in accordance with Section 02949 Tree Protection, Removal and Replacement.

3.03 NOTIFICATIONS

A. The Contractor shall notify property owners at least one (1) week in advance of removing any special plantings (flowers, ornamental trees, bushes, plants, etc...) so that the property owner has a reasonable opportunity to transplant prior to the Contractor's work activities.

3.04 CLEARING

A. Trees located within the permanent easement and temporary construction easement shall be removed as indicated on the Drawings and in accordance with Section 02949.

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- B. Clearing shall consist of removing all materials such as trees, brush, downed timber, trash, waste and other objectionable materials found on or above the surface of the site.
- C. The Contractor shall tag or identify existing trees, shrubs and landscape materials to be removed; and obtain City approval prior to removal in accordance with Section 02949.

3.05 SCALPING

A. Scalping shall include the removal and disposal of material such as: sod, grass, weeds, agricultural crops, bushes, brush and all decayed vegetative matter from the surface of the ground without disturbing the earth more than is necessary.

3.06 GRUBBING

- A. Grubbing shall consist of the removal and disposal of all material such as stumps, roots, buried debris, foundations and trash encountered below the surface of the ground that has not been included in the description of clearing.
- B. The vegetative matter shall be removed to the following depths:
 - 1. A minimum depth of 12 inches below ground line or subgrade, whichever is lower.
 - 2. A minimum depth of 18 inches below ground line or subgrade, whichever is lower, at water containment areas (berms, dams, levees, lagoons, ponds, dikes etc.).
- C. Remove and dispose of all stumps, roots and other vegetative matter larger than 2 inches in diameter.
- D. When materials encountered below grade that are detrimental to the proposed improvement, the material shall be removed to a depth necessary to provide adequate space for installation and support for the proposed improvement.

3.07 EMBANKMENT AREAS

A. Unless otherwise noted on the plans, where undisturbed stumps and roots are encountered and the fill depth will exceed 3 feet, the stumps and roots may be left in place provided they do not extend above final grade.

3.08 BORROW AREAS

A. All stumps, roots and other objectionable matter shall be removed from the borrow material used for embankment or fill. The borrow area shall be left in a well-drained and smooth condition and restored in accordance with Section 02575 – Restoration.

3.09 BACKFILL

- A. Backfill all holes, pits and depressions resulting from clearing and grubbing.
- B. Backfill with suitable material placed and compacted in conformance with Section 02200 Earthwork and grade the area to drain.

3.10 DISPOSAL OF MATERIAL

- A. Dispose of all materials from the clearing and grubbing operations at a City approved location, as arranged for by Contractor, at no additional cost to City.
- B. Unless otherwise specified in Section 01015 Specific Project Requirements or other portions of the Contract Documents, the Contractor may claim and salvage any material which the Contractor may consider of value but shall not delay any work associated with the Contract by the salvaging operations.
- C. Open burning of brush or debris on the Site is not allowed unless approved by the City. If approved by the City, the Contractor shall obtain all permits required for open burning.

END OF SECTION