

SECTION 02100

RIGHT OF WAY PREPARATION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Clearing and grubbing.
- B. Removal of topsoil, stripping and stockpiling.
- C. Removal of debris and trash.
- D. Removal of obstructions.
- E. Removal and replacement of fence section.
- F. Temporary Fencing.
- G. Excavation and fill.
- H. Disposal of waste materials.
- I. Disposal of excess materials.
- J. Salvaging of designated items.

1.02 UNIT PRICES

- A. No separate payment will be made for work performed under this section. Include payment in unit price for related work unless stated otherwise in the Bid Proposal.
- B. Side streets and utility easements involving any work in this contract will not be measured separately and are considered incidental to the project.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Imported fill
 - 1. Sand, gravel, earth or combination, which can be compacted to form stable embankments and fills conforming to select borrow standards:

- a. Liquid limit: 45 maximum, ASTM D 4318.
- b. Plasticity index: 12 minimum, 20 maximum, ASTM D 4318.
- c. Free from trash, vegetation, organic matter, large stones, hard lumps of earth and frozen, corrosive or perishable material.
- d. Well broken up, free of clods of hard earth, rocks, and stones greater than 2-inch dimension.

PART 3 EXECUTION

3.01 PRESERVATION OF STAKING

- A. Use caution to preserve survey staking, monuments and property corners.
- B. Employ a Registered Public Surveyor to reset any missing, disturbed, or damaged monumentation.

3.02 SITE CLEARING

- A. Protect trees and shrubs designated to remain in accordance with Section 01535 – Tree and Plant Protection.
- B. Protect utilities to remain free from damage.
- C. To minimize the inconvenience to the public and to maintain better quality control, the total of all demolition, construction and testing activities cannot exceed 2-lanes in one direction (includes parking lane) for a total length of one-thousand (1,000) linear feet or three City Blocks in length, whichever is less.
- D. Topsoil Removal:
 1. Remove grass from areas before stripping.
 2. Topsoil is defined as surface soil found of depth of not less than 4 inches.
 3. Strip topsoil to depths encountered.
 4. Perform stripping in a manner to prevent intermingling of topsoil with underlying sterile subsoil and remove objectionable materials, including clay lumps, stones over 2 inches in diameter, weeds, roots, leave and debris.
 5. Where trees are designated by Owner to be left standing, stop topsoil stripping at extreme limits of tree drip line to prevent damage to main root system.

6. Construct storage piles to freely drain surface water.
 7. Cover storage piles, if required, to prevent wind-blown dust.
 8. At completion, transport topsoil from stockpiles to work site for spreading and final fine grading.
- E. Clearing and Grubbing.
1. Clear project site of trees, shrubs, and other vegetation, except for those designated by Owner to be left standing.
 2. Completely remove stumps, roots, and other debris protruding through ground surface.
 3. Use only hand methods for grubbing inside drip line of trees.
 4. Fill depressions caused by clearing and grubbing operations with satisfactory soil material, unless further excavation or earthwork is indicated.
 5. Place fill material in horizontal layers not exceeding 6 inches loose depth and thoroughly compact to density equal to adjacent original ground.
 6. On areas required for roadway, channel, or structural excavation, remove stumps and roots to depth of 2 feet below lower elevation of excavation.
 7. On areas required for embankment construction, remove stumps and roots to depth of 2 feet below ground surface.
 8. Blade entire area to prevent ponding of water and to provide drainage, except in areas to be immediately excavated.
 9. Trees and stumps may be cut off as close to natural ground as practicable on areas which are to be covered by at least 3 feet of embankment.
 10. Complete operations by bulldozing, blading, and grading so that prepared area is free of holes, unplanned ditches, abrupt changes in elevations and irregular contours, and preserve drainage of area.

3.03 UNSUITABLE MATERIAL

- A. Undercut and replace material which Owner's Representative designates as unsuitable for subsequent construction.
- B. Material used to replace unsuitable material shall be suitable material from site excavation or "Imported Fill" specified in this section.

3.04 EXCAVATION AND FILL

- A. Depressed site areas shall be filled using material from high areas, insofar as practicable.
- B. Fill to indicated rough grade elevations with “Imported Fill” material, when fill obtained from high areas is exhausted.
- C. Place and compact fill in accordance with Section 02221 – Embankment.

3.05 SALVAGEABLE ITEMS AND MATERIALS

- A. Items designated by the Owner’s Representative to be salvaged are to be carefully removed, so as to cause no damage to the salvaged items and delivered to Owner’s storage yard.

3.06 DISPOSAL

- A. Removal and dispose of excess material and debris resulting from work under this Section in accordance with requirements of Section 01564 – Waste Material Disposal.

END OF SECTION