

**Division 2**  
Site Work



## SECTION 02230 - SITE CLEARING

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Provide site-clearing operations.
- B. Protecting existing trees and plants to remain.
- C. Temporary erosion and sedimentation control measures.

#### 1.2 QUALITY ASSURANCE

- A. Comply with governing codes and regulations. Use experienced workers.

### PART 2 - PRODUCTS

#### 2.1 MATERIALS

- A. Tree protection, erosion control, siltation control, and dust control materials suitable for site conditions.
- B. Transplant designated trees as designated by arborist. Relocate to temporary nursery and replacement at time and location as directed by arborist.

### PART 3 - EXECUTION

#### 3.1 SITE CLEARING OPERATIONS

- A. Protection of existing trees, vegetation, landscaping, and site improvements not scheduled for clearing which might be damaged by construction activities.
- B. Trimming of existing trees and vegetation as recommended by arborist for protection during construction activities.
- C. Clearing and grubbing of stumps and vegetation, and removal and disposal of debris, rubbish, designated trees, and site improvements.
- D. Topsoil stripping and stockpiling.
- E. Temporary erosion control, siltation control, and dust control.

- F. Temporary protection of adjacent property, structures, benchmarks, and monuments.
- G. Watering of trees and vegetation during construction activities.
- H. Removal and legal disposal of cleared materials.

### 3.2 CLEARING

- A. Prevent damage to existing improvements indicated to remain, including improvements on and off site. Protect existing trees and vegetation indicated to remain. Do not stockpile materials and restrict traffic within drip line of existing trees to remain. Provide and maintain temporary guards to encircle trees or groups of trees to remain; obtain approval before beginning work.
- B. Water vegetation as required to maintain health. Cover temporarily exposed roots with wet burlap and backfill as soon as possible. Coat cut plant surfaces with approved emulsified asphalt plant coating.
- C. Repair or replace vegetation, which has been damaged, or pay damages. Remove heavy growths of grass before stripping. Stockpile satisfactory topsoil containing no large stones, foreign matter and weeds on site for reuse.
- D. Completely remove all improvements including stumps and debris except for those indicated to remain. Remove below grade improvements at least 12" below finish grade and to the extent necessary so as not to interfere with new construction. Remove abandoned mechanical and electrical work as required.
- E. Prevent erosion and siltation of streets, catch basins and piping. Control windblown dust. Remove waste materials and unsuitable soil from site and dispose of in a legal manner.

END OF SECTION

SECTION 02281 - TERMITE CONTROL

PART 1 - GENERAL

1.1 SCOPE

- A. Provide soil treatment for termite control, as herein specified.

1.2 QUALITY ASSURANCE

- A. In addition to requirements of these specifications, comply with manufacturer's instructions and recommendations for work, including preparation of substrate and application.
- B. Engage a professional pest control operator, licensed in accordance with regulations of governing authorities for application of soil treatment solution.

1.3 JOB CONDITIONS

- A. Restrictions: Do not apply soil treatment solution until excavating, filling and grading operations are completed, except as otherwise required in construction operations.
- B. To insure penetration, do not apply soil treatment to frozen or excessively wet soils or during inclement weather. Comply with handling and application instructions of the soil toxicant manufacturer.

1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's technical data and application instructions, and EPA approved data.

1.5 SPECIFIED PRODUCT WARRANTY

- A. Furnish warranty certifying that applied soil poisoning treatment will prevent infestation of subterranean termites and that if subterranean termite activity is discovered during warranty period, Contractor will re-treat soil and repair or replace damage caused by termite infestation.
  - 1. Provide warranty for a period of Five (5) years from date of treatment, signed by Applicator and Contractor.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Soil Treatment Solution:

1. Use EPA registered an emulsible concentrate insecticide for dilution with water, specially formulated to prevent infestation by termites. Fuel oil will not be permitted as a diluent.
2. Use only soil treatment solutions which are not injurious to planting.

PART 3 - EXECUTION

3.1 APPLICATION

A. Surface Preparation: Remove foreign matter which could decrease effectiveness of treatment on areas to be treated. Loosen, rake, and level soil to be treated, except previously compacted areas under slabs and foundations. Toxicants may be applied before placement fill under slabs, if recommended by toxicant manufacturer.

B. Application Rates: Apply soil treatment as follows:

1. Under slab-on-grade structures, treat soil before concrete slabs are placed using either power sprayer or tank-type garden sprayer.
  - a. Apply 4 gallons of chemical solution per 10 lin. Ft. to soil critical areas under slab, including entire inside perimeter inside of foundation walls, along both sides of interior partition walls, and around plumbing pipes and electric conduit penetrating slab, and around interior column footers.
  - b. Apply one gallon of chemical solution per 10 sq. ft. as an overall treatment under slab and attached slab areas where fill is soil or unwashed gravel. Apply 1 ½ gallons of chemical solution to areas where fill is washed gravel or other coarse absorbent material.
  - c. Apply four (4) gallons of chemical solution per 10 lin. Ft. of trench, for each foot of depth from grade to footing, along outside edge of building. Dig a trench 6" to 8" wide along outside of foundation to a depth of not less than 12". Punch hole to top of footing at not more than 12" o.c. and apply chemical solution. Mix chemical solution with the soil as it is being replaced in trench.
  - d. At hollow masonry foundations or grade beams, treat voids at rate of 2 gal. Per 10 lin. Ft. of penetration.
  - e. At expansion joints, control joints, and areas where slabs will be penetrated, at rate of 4 gals. Per 10 lin. Ft. of penetration.
2. Allow not less than twelve (12) hours for drying after application, before beginning concrete placement or other construction activities.

- C. Post signs in area of application warning workers that soil poisoning has been applied. Remove signs when areas are covered by other construction.
- D. Reapply soil treatment solution to areas distributed by subsequent excavation or other construction activities following application.

END OF SECTION 02281