
SECTION 31 10 00 - SITE CLEARING**PART 1 - GENERAL**

1.01 SUMMARY

- A. Section Includes
 - 1. Clearing
 - 2. Removing surface debris.
 - 3. Removing designated paving, curbs, and sidewalk.
 - 4. Removing designated trees, shrubs, and other plant life.
 - 5. Removing abandoned utilities.
 - 6. Excavating topsoil.
 - 7. Stockpiling topsoil
 - 8. Debris disposal

- B. Related Sections:
 - 1. Section 31 22 13 - Rough Grading

1.02 DEFINITIONS

- A. Clearing is defined as the removal of trees, brush, down timber, rotten wood, rubbish, any other vegetation, and objectionable material at or above original ground elevation not designated to be saved. Clearing also includes removal and replacement of fences, walls, guideposts, guide rail, signs, and other obstructions interfering with the proposed work.

- B. Grubbing is defined as the removal from below the surface of the natural ground of stumps, roots and stubs, brush, topsoil, organic materials and debris.

1.03 SUBMITTALS

- A. Permits for Disposal of Debris:
 - 1. Arrange for disposal of debris resulting from clearing and grubbing to locations outside the Owner's property, permanent easement, or right-of-way. Comply with all laws applicable for this work. All woody debris, void of roots, soil, rocks and other such contaminants can be transported at the Contractor's expense to the Owner's woody debris storage area through coordination with the Owner. Contractor shall coordinate location with Owner.
 - 2. Submit for the project record, two copies of any agreement with each property owner releasing the Owner from responsibility in connection with the disposal of the debris.

1.04 JOB CONDITIONS

- A. The Contractor may clear all obstructions within the permanent right-of-way and temporary construction easement except those specifically designated to be saved or restored on the Contract Drawings or Specifications or in the field. Prior to commencing work, Engineer and Contractor shall inspect all sites and alignments for the purpose of compliance with this paragraph. The coordination and scheduling of this inspection shall be the contractor's responsibility.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Temporary Fencing:
 - 1. Undamaged picket snow fence, 4' high, formed of wooden slats, tightly woven with wire cable or plastic fencing specifically manufactured for this use.
 - 2. Soil-set fence posts, studded "T" type, 6' high.
- B. Tree Wound Dressing:
 - 1. Antiseptic and waterproof, asphalt base.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Notify the Engineer/Owner at least 48 hours prior to beginning any clearing work.
- B. Protect benchmarks, utilities, existing trees, shrubs and other landscape features designated for preservation with temporary fencing or barricades satisfactory to the Engineer. No material shall be stored or construction operation carried on within 4 feet of any tree to be saved or within the tree protection fence.
- C. When a private enclosure fence encroaches on the work area, notify the property owner at least 10 days in advance of the clearing/grubbing operations to permit the owner to remove it, construct a supplemental fence, or make such other arrangements as may be necessary for security purposes. Upon failure of the property owner to reasonably proceed with the work required to secure his property, carefully remove the fence, in whole or in part, and neatly pile the materials onto the owner's property.

3.02 UTILITY RELOCATIONS

- A. Inform all companies, individuals and others owning or controlling facilities or structures within the limits of the work which are called out in the Contract Documents to be relocated, adjusted or reconstructed in sufficient time to perform such work in conjunction with or in advance of the Contractor's operations.
- B. Comply with the provisions or PA Legislature Act 187 (1996) or as amended.

3.03 CLEARING

- A. Confine clearing to within the limits of the permanent right-of-way or temporary construction easement.
- B. Fell trees in a manner that will avoid damage to trees, shrubs, and other installations, which are to be retained.
- C. Remove trees and shrubbery only when authorized by Engineer or Owner.

1. Perform authorized tree removal, including stumps and debris, by methods meeting Engineer's approval and at no expense to the Owner.
2. Perform authorized shrubbery removal; store shrubs in protected manner and replant or replace such shrubbery at no expense to the Owner.
3. Trim merchantable timber of limbs and tops, saw timber into eight-foot lengths. Stockpile timber at locations designated on the site by the Engineer. Merchantable timber is timber larger than six inches in smallest diameter from which saw logs, pulpwood, posts, poles, ties or cordwood can be produced.
4. The disposal of the stockpiled timber will not form a part of the contract obligations and the stockpiled merchantable timber will remain the property of the property owner.
5. Dispose of tree removal debris in a lawful manner.

3.04 GRUBBING

- A. Grub areas within the construction limits of the permanent right-of-way or temporary construction easement to remove roots and other objectionable material to a minimum depth of 8" below the existing ground.
- B. Remove all stumps within the construction limits of the permanent right-of-way or temporary construction easement to a depth of at least one (1) foot below subgrade unless otherwise authorized by the Engineer.

3.05 STRIPPING AND STOCKPILING TOPSOIL

- A. Excavate topsoil from areas to be further excavated, relandscaped, or regraded, without mixing with foreign materials for use in finish grading.
- B. Do not excavate wet topsoil.
- C. Stockpile in area designated on site to depth not exceeding 35 feet and protect from erosion. Stockpile material on impervious material (36 mil Hypalon aterial) and cover over with same material, until disposal.
- D. The topsoil is the property of the Owner and shall not be used as backfill or removed from the property.

3.06 DEBRIS DISPOSAL

- A. Unless informed otherwise by the owner, debris resulting from clearing and grubbing operations shall become the property of the Contractor and shall be legally disposed of.
- B. Do not deposit or bury on the site debris resulting from the clearing and grubbing work.
- C. Remove debris, rock, and extracted plant life from site.
- D. Partially remove paving, curbs, and sidewalk. Neatly saw cut edges at right angle to surface.
- E. Remove abandoned utilities. Indicated removal termination point for underground utilities on Record Documents.

- F. Continuously clean-up and remove waste materials from site. Do not allow materials to accumulate on site.
- G. Debris may be burned on site if local ordinances allow open-air burning, if required permits are obtained, and if burning operations are conducted in compliance with all state and local ordinances and regulations.

3.07 RESTORATION

- A. Repair all injuries to bark, trunk, limbs, and roots of remaining plants by properly dressing, cutting, tracing and painting, using approved arboricultural practices and materials.
- B. Replace trees, shrubs and plants designated to be saved which are permanently injured or die during the life of the Contract and subsequent correction period as a result of construction operations with like species acceptable to the property owner.
- C. Remove protective fences, enclosures and guards upon the completion of the project.
- D. Restore guard posts, guard rail, signs and other interference's to the condition equal to that existing before construction operations.

END OF SECTION