

SECTION 02100

CLEARING AND GRUBBING

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. The Work of this Section includes, but is not limited to:
 - 1. Clearing.
 - 2. Grubbing.
 - 3. Stripping and stockpiling topsoil.
 - 4. Debris disposal.

1.02 DEFINITIONS

- A. Clearing: 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 of fences, walls, guard posts, guard rail, signs, and other obstructions interfering with the proposed work.
- B. Grubbing: The removal from below the surface of the natural ground of stumps, roots and stubs, brush, organic materials, and debris.

1.03 JOB CONDITIONS

- A. The Contractor shall clear all obstructions within the permanent and construction rights-of-way except those specifically designated to be saved or restored, in the Specifications, or in the field. Right-of-way limits and obstructions specifically designated to be saved or restored will be marked by the Owner's Representative.
- B. Trees larger than 3 inches in diameter and shrubs planted by landowners shall not be cleared unless approved by the Owner's Representative.
- C. Contractor shall make every effort to protect and avoid damage to trees or shrubbery within the Project area(s). Prior to commencing with construction in any private right-of-way, the Contractor and Owner's Representative will meet with the property owner(s) to identify special needs and desires.

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.
 - 2. Undamaged plastic temporary fence, 4' high, formed of polyethylene plastic fabric as manufactured by Tenag Corporation or equal.

3. 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 Owner's Representative 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 Owner's Representative. 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 7 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. Reconstruct fence when work in area is complete.
- D. Inform all companies, individuals, and others owning or controlling facilities or structures within the limits of the work which have to be relocated, adjusted, or reconstructed in sufficient time for the utility to organize and perform such work in conjunction with or in advance of the Contractor's operations.
 1. Comply with the provisions of Pennsylvania Act 287 of 1974, as amended by Act 38 of 1991.

3.02 EXECUTION

- A. Clearing:
 1. Confine clearing to within the limits of the right-of-way or easement.
 2. Fell trees in a manner that will avoid damage to trees, shrubs, and other installations which are to be retained.
 3. Where stumps are not required to be removed, flush-cut with ground elevation.
- B. Grubbing:
 1. Grub areas within the construction limits to remove roots and other objectionable material to a minimum depth of 8 inches.
 2. Remove all stumps within the cleared areas unless otherwise authorized by the Owner's Representative.
- C. Stripping and Stockpiling Topsoil:
 1. Strip topsoil to whatever depth it may occur from areas to be excavated, filled, or graded and stockpiles at a location approved by the Owner's Representative for use in finish grading.
 2. The topsoil is the property of the Owner and shall not be used as backfill or removed from the site.

D. Debris Disposal:

1. Trees, logs, branches, brush, stumps, and other debris resulting from clearing and grubbing operations shall become the property of the Contractor and shall be legally disposed.
2. Do not deposit or bury on the site debris resulting from the clearing and grubbing work.
3. Burning of debris is not acceptable within Amity Township.

E. Restoration:

1. 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.
2. Replace all trees, shrubs, and plants designated to be saved which are permanently injured or die during the life of the Contract as a result of construction operations with like species acceptable to the project Owner.
3. Remove protective fences, enclosures, and guards upon the completion of the project.
4. Restore guard posts, guard rail, signs, and other interferences to the condition equal to that existing before construction operations.

END OF SECTION

