

SECTION 02200 – SITE PREPARATION

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK:

- A. Work covered by this Section includes site clearing and grubbing as required to perform the Work as shown on Drawings.
- B. The CONTRACTOR shall limit the area of clearing and grubbing to the minimum area possible to allow for the proper installation of the Work.

1.02 RELATED WORK: Includes, but not limited to, the following:

- A. Handling of Contaminated Soils: Section 02110
- B. Erosion and Sedimentation Control: Section 02370
- C. Demolition: Section 02220

1.03 QUALITY ASSURANCE:

- A. Confine clearing and grubbing operations to within the following limits:
 - 1. All areas where Work is required to be done, but, to the minimum extent possible to properly install the Work.
 - 2. Within the Grading Limits as shown on the Drawings.
- B. No trees, plants, shrubs, flowers or vegetables shall be removed or trimmed without the prior permission of the ENGINEER, except where otherwise specified.
- C. Protection of Existing Trees and Vegetation: Protect existing trees and other vegetation indicated to remain in place, against unnecessary cutting, breaking or skinning of roots, skinning and bruising of bark, smothering of trees by stockpiling construction materials or excavated materials within drip line, excess foot or vehicular traffic, or parking of vehicles within drip line. Provide temporary guards to protect trees and vegetation to be left standing.

1.04 STORAGE AND HANDLING:

- A. Store trees, plants and shrubs in protected areas and give ample water to keep them in a thriving condition for subsequent replanting.
- B. Obstruction of roads, driveways, sidewalks, gutters and drainage ditches, swales and channels with stored materials is not permitted.

1.05 JOB CONDITIONS:

- A. The locations of trees, plantings, vegetation, sidewalks, curbs and other living and nonliving items, as shown on the Drawings, have been determined by actual surveys at the time surveys were made. Since that time, the condition of things may have changed. Remove and replace all obstacles and obstructions, as required to complete the Work, whether shown on the Drawings or not, at no extra cost to OWNER.
- B. Explosives are not permitted for clearing and grubbing operations.

- C. Use all means necessary to protect existing objects not indicated to be removed. In the event of damage, make all necessary repairs and replacements and restore to its original condition, as acceptable to ENGINEER.

1.06 SCHEDULING:

- A. Avoid interference with the use of, and passage to and from, adjacent buildings, facilities, driveways, walks, drainage systems and road.
- B. Pavements which are required to be removed, including roads, driveways and walks, shall be saw-cut in advance, but do not remove until the Work is ready to be installed.
- C. Do not remove highway signs, guardrails and other control, safety and warning devices until just prior to the installation of the Work.
- D. All items affecting traffic, safety, lives and the containment of humans and animals and all items essential to the protection of property or the operation of a business be left in place as long as possible and replaced as soon as possible when such items must be removed.

PART 2 - PRODUCTS (not applicable)

PART 3 - EXECUTION

3.01 EXAMINATION:

- A. Verify that all limiting boundaries such as permanent and temporary easements, property lines, rights-of-way and grading limits have been accurately located and clearly marked.
- B. Verify that pipeline routings and other items of work have been accurately located and clearly marked.

3.02 PREPARATION:

- A. Mark all trees, plantings and other objects which are deemed necessary to be removed, trimmed, cut, or removed and preserved.
- B. Notify and accompany ENGINEER through the site to inspect the items which are to be trimmed, removed, and replanted prior to start of the Work.
- C. Protect existing trees and other vegetation indicated or directed by ENGINEER to remain in place, against unnecessary cutting, breaking or skinning of roots, skinning and bruising of bark, smothering of trees by stockpiling construction materials or excavating materials within drip line, excess foot or vehicular traffic, or parking of vehicles within drip line.
- D. Water trees and other vegetation which are to remain within the limits of work as required to maintain their health during the course of construction.
- E. Adjacent property and other works to remain: protect throughout the work by fences, barricades, and the exercise of special care to avoid unnecessary damage.
- F. Existing Trees, Brush, Shrubs, and Other Vegetation:
 - a. Protect existing trees to remain by the erection of 4-FT high snow fence anchored by 8-FT

high steel fence stakes at the drip line, or as directed by ENGINEER. Maintain fencing during the full time of construction work on site. Trim any branches interfering with the work and only as directed by ENGINEER.

- b. Protect shrubs and bushes by tying off, staking, tarpaulins, fences, or barricades.
- c. Protect shallow-rooted plants at ground surface under and in some cases outside the spread of branches by covering, or by fences, or by bridging with timber mats to avoid overly compacting the root mass.
- d. Prepare trees to be transplanted by pruning branches back and by pruning roots and watering seven (7) days prior to digging.

3.03 PERFORMANCE:

A. Clearing and Grubbing:

- 1. Clearing consists of cutting and disposing of all trees, down timber, stumps, brush, bushes, snags, rubbish, debris, and other objectionable matter and materials and the removal and storage of fences, signs, walks, guard rails, curbs and other items to be restored.
- 2. Grubbing consists of the removal and disposal of all stumps, roots, duff, foundations and other objectionable matter and materials to a minimum of 12 inches below original ground surface.
- 3. All operations shall be done in a manner so that present growth will blend with the limits of construction and a natural appearance will be attained.
- 4. Employ necessary measures to avoid erosion in accordance with Section 02370 Erosion and Sedimentation Control.

B. Topsoil:

- 1. Topsoil is defined as friable loam surface soil found in a depth of not less than 4 inches from the original ground surface. Satisfactory topsoil is reasonably free of subsoil, clay lumps, stones, and other objects over 2-inches in diameter, and without weeds, roots, and other objectionable material.
- 2. Strip topsoil within limits as designated on Drawings or required to whatever depths encountered in a manner to prevent mixing with underlying subsoil or objectionable material.
- 3. Where trees are indicated to be left standing, stop topsoil stripping a sufficient distance to prevent damage to main root system.
- 4. Stockpile soil in storage piles in areas acceptable to the OWNER. Construct storage piles to freely drain surface water. Cover storage piles as necessary to prevent windblown dust and erosion.
- 5. Surplus loam and topsoil not required for completion of the Work shall remain the property of the OWNER. Stockpile this material on-site and maintain and protect until Work is complete.
- 6. No soil shall be removed from the site without authorization from the OWNER.

C. Pavements, Walks, Curbs, & Rails:

1. Remove existing pavements, walks, and curbs to the limits shown on the Drawings, or if not shown, to the minimum extent possible.
 2. Saw-cut asphalt and concrete paved surfaces before removal. Use a saw which will cut a neat, straight joint line.
 3. Carefully remove granite and stone curbs and guard rails to the minimum extent possible. Terminate removals at a joint or guard rail post. Store and protect for reuse.
 4. Unless otherwise specified, all materials removed and not reused shall become the property of the CONTRACTOR.
- D. Walls, Fences, and Other Obstructions:
1. All guard rails, fences, signs, and other obstructions encountered shall be carefully removed and stored for subsequent reuse as depicted on the Plans or required by ENGINEER.
 2. Do not disturb property markers unless absolutely necessary and approved by ENGINEER for removal. If it becomes necessary to disturb or remove a property marker, employ a Land Surveyor Registered in the State of Maine at no additional cost to the OWNER to establish the property marker location by providing a minimum of four (4) ties to the marker. The Registered Land Surveyor shall replace the property marker as soon as possible.
 3. Unless otherwise specified, all materials removed and not reused shall become the property of the CONTRACTOR.
- E. Disposal:
1. Burning at the site is not permitted unless otherwise approved by ENGINEER. If burning is allowed, the CONTRACTOR shall be responsible for obtaining all necessary permits.
 2. Materials not specified to be stored or re-used shall be promptly removed and disposed of off-site in a lawful manner.
- F. Protection: Carefully protect and guard all trees, shrubs and vegetation and take every precaution to avoid damage to utilities, buildings and other property.
- G. Replanting and Restoration of Surfaces: The requirements for replanting and restoration of surfaces are as noted in the General Notes on Sheet G001 of the plans.
- H. Replacement of pavements, walks, curbs, rails, walls, fences and other obstructions: Replace materials that have been removed in order to perform the Work to the original or better condition as directed by the ENGINEER.

End of Section