

SECTION 31 10 00
SITE CLEARING

PART 1 - GENERAL

1.1 DESCRIPTION

- A This section specifies site preparation which consists of clearing, grubbing and demolition. See Section 02 41 00, Demolition, for related work.
- B Existing Conditions:
 - 1. Review and determine the actual condition of the site as it affects the Work.
- C Protection:
 - 1. Site preparation shall not damage structures, landscaping or vegetation outside of the limits of construction as noted on the drawings. Any property damaged shall be repaired or replaced.
 - 2. Site preparation shall not be performed within areas indicated on the drawings as protected.
 - 3. Provide documentation of existing conditions in accordance with Section 01 32 33, Photographic [and Video] Documentation
 - 4. Repair, or replace improvements damaged or removed by clearing and grubbing. Repair and replacement shall be to equal or better condition as determined by the Owner's Representative .
- D Work Limits
 - 1. Do not enter, clear or perform work on adjacent property or Rights-of-Way (ROW) not covered by the permit(s), right-of-entry agreements, temporary construction easements, or permanent easements.
 - 2. Stake boundaries, permitted work limits, and clearing limits prior to commencing Work.
 - a. Stake clearing limits at each property boundary and easement boundary crossing.
 - b. Provide temporary fencing at easement boundaries/clearing limits as required to maintain public safety, security and control of erosion and sediment.
 - c. Provide temporary and permanent erosion and sediment control as required.
- E Schedule:
 - 1. Prepare Site only after adequate erosion and sediment controls are in place. Limit areas exposed uncontrolled to erosion during installation of temporary erosion and sediment controls to maximum of 2 acres.
- F Permits
- G Definitions:
 - 1. INTERFERING OR OBJECTIONABLE MATERIAL: Trash, rubbish, and junk; vegetation and other organic matter, whether alive, dead, or decaying.
 - 2. CLEARING: Removal of interfering or objectionable material lying on or protruding above ground surface.
 - 3. GRUBBING: Removal of vegetation and other organic matter including stumps, buried logs, and roots greater than 2-inch caliper to a depth of 6-inches below subgrade.
 - 4. WORK LIMITS: Areas, as shown or specified, within which Work is to be performed.
 - 5. SCALPING: Removal of surface material such as roots, sod, grass, residue of agricultural crops, sawdust, and decayed vegetable matter. The depth of scalping does not include topsoil or other material below the scalping operation.

6. STRIPPING: Removal of topsoil remaining after applicable scalping is completed.
7. TOP SOIL: Topsoil is that uppermost layer of soil capable of growing and supporting vegetation, containing essential microorganisms, nutrients, organic matter, and physical characteristics necessary to grow and sustain permanent vegetation.

1.2 RELATED SECTIONS

- A This section contains specific references to the following related sections.
1. Section 01 14 19 Use of Site
 2. Section 01 32 23, Survey And Layout Data.
 3. Section 01 32 33 Photographic Documentation

1.3 QUALITY ASSURANCE

A References

1. This section contains references to the following documents. They are a part of this section as specified and modified. Where a referenced document contains references to other standards, those documents are included as references under this section as if referenced directly. In the event of conflict between the requirements of this section and those of the listed documents, the requirements of this section shall prevail.

B Quality Assurance

1. Obtain Owner's Representative approval of staked clearing, grubbing, and stripping limits, prior to commencing clearing, grubbing, and stripping.

1.4 SUBMITTALS

A Procedures: Section 01 33 00, Submittal Procedures.

B Action Submittals

1. A copy of this entire specification section, with addendum updates included, and referenced and applicable sections, with addendum updates included, with each paragraph check-marked to indicate specification compliance or marked to indicate requested deviations from specification requirements. A check mark shall denote full compliance with a paragraph as a whole. If deviations from the specifications are indicated, and therefore requested by the Contractor, each deviation shall be underlined and denoted by a number in the margin to the right of the identified paragraph, referenced to a detailed written explanation of the reasons for requesting the deviation. The Owner's Representative shall be the final authority for determining acceptability of requested deviations. The remaining portions of the paragraph not underlined will signify compliance on the part of the Contractor with the specifications. Failure to include a copy of the marked-up specification sections, along with justification(s) for any requested deviations to the specification requirements, with the submittal shall be sufficient cause for rejection of the entire submittal with no further consideration.
2. Submit working drawings clearly showing limits of clearing, grubbing, and stripping.
 - a. Show obstructions to be removed and replaced.
 - b. Show separation between areas to be cleared and areas not to be cleared.
 - c. Provide show drawings, materials of fencing, barriers to be provided.

1.5 HEALTH AND SAFETY

- A Notify utility locator service for area where Project is located before site clearing.

PART 2 - PRODUCTS

2.1 GENERAL LIMITS

- A As follows, but not to extend beyond Work limits.
 - 1. Excavation, excluding trenches, 5 feet beyond top of cut slopes.
 - 2. Fill:
 - a. Clearing and Grubbing: [5 feet] beyond toe of permanent fill.
 - b. Stripping and Scalping: [3 feet] beyond toe of permanent fill.
 - 3. Structures: [20 feet] outside of structures.
 - 4. Vehicular Entrances/drives and Pavement:
 - a. Clearing, grubbing, scalping, and stripping 15 feet from pavement shoulders.
 - 5. Perimeter Fence:
 - 6. Clearing, grubbing, scalping, and stripping [4 feet] on both sides
 - 2.2 GREEN FIELD/BROWN FIELD SITES
 - A Salvage top soil for reuse. Clear, grub, and remove, and dispose of trees, stumps, and debris.
 - B This work shall be performed at the beginning of the project so that the parcel may be used as a staging area. See Section 01 12 16, Work Restrictions And Sequence.
 - 2.3 DRAINAGE STRUCTURES
 - 2.4 TREE REMOVAL AND PRUNING
 - A Remove dead, dying, leaning, or otherwise unsound trees that may strike and damage Project facilities in falling.
 - B Cut stumps off flush with ground, remove debris, and if disturbed, restore surrounding area to its original condition.
 - C Remove branches below the following heights:
 - 1. 13.5 feet above roadways and shoulders.
 - 2. 9 feet above sidewalks.
 - 3. 6 feet above roofs.
 - D Prune as specified in Section 32 93 00, Plants.
- PART 3 - EXECUTION
- 3.1 GENERAL
 - A Unless otherwise specified, the Contractor shall remove obstructions such as brush, trees, logs, stumps, roots, heavy sod, vegetation, rock, stones larger than 6 inches in any dimension, broken or old concrete and pavement, debris, and structures where the completion of the work require their removal.
 - B Limit clearing and grubbing to the areas required to complete the Work.
 - 1. Verify that existing trees and plant life designated to remain. Tag, identify or fence such areas to ensure compliance.
 - 2. Locate, identify, and protect utilities to remain in place from damage.
 - C Provide Erosion and Sediment Control measures in accordance with the Contractor's accepted SWPPP.
 - D Protect benchmarks, survey monuments, survey control points and other improvements to remain in place from damage or displacement.
 - 1. Land monuments, property markers, or official datum points
 - a. Protect from damage and displacement.
 - b. If removal is required to complete the work, provide reference for re-establishment before removing. Work shall be in accordance with the [County] survey requirements including all recording requirements with the [county] register.

E Protect trees and other vegetation from damage to roots and branches if they are designated to remain.

1. Provide tree protection where specified.

3.2 CLEARING, GRUBBING AND STRIPPING

A Remove brush, trees, logs, stumps, roots, heavy sod, vegetation, rock, stones larger than 6 inches in any dimension, broken or old concrete and pavement, debris, and structures where the completion of the work require their removal.

B Remove trees as specified:

1. Fell trees so that they fall away from facilities, and vegetation not designated for removal. Protected trees within the Work limits must be designated and fenced prior to the start of construction.

C Strip, disk or otherwise remove all heavy soils, heavy growths of grass, and sod that comprise the organic root-zone. The depth of stripping will generally be four (4) to six (6) inches but will vary across the site.

D Stripped organic material and topsoil shall be stockpiled at accepted locations.

1. Separate differing materials with dividers or stockpile apart to prevent intermixing of soil types or contamination. Excavated topsoil shall be removed and stored separately for other excavated materials.

2. Direct surface water away from stockpile site to prevent erosion or deterioration of materials.

3. Prior to restoring the site, process stockpiled material through a 3" screen and place screened material as topsoil.

E Fill depressions caused by clearing and grubbing operations with select native backfill or topsoil material unless further excavation or earthwork is indicated. Place material in uniform layers not exceeding a loose depth of 8" and compact each layer to a density equal to the adjacent ground.

F Coordinate with Owner's Representative for additional areas that require clearing to accommodate construction activities.

3.3 DEMOLITION

A Demolition shall meet the requirements of Section 02 41 00, Demolition.

3.4 OBSTRUCTIONS

A Remove obstructions that do not require replacement from within the work limits including but not limited to tree roots, stumps, abandoned piling, buildings and concrete structures, frozen material, logs, and debris of all types without additional compensation.

B Remove and replace fences, fence post, signs, and all other improvements removed, damaged or disturbed during completion of the Work.

1. Replacement shall be to a condition equal to or better than prior to construction unless specifically identified for removal in the demolition plan.

3.5 UTILITY INTERFERENCE

A Where existing utilities interfere with the execution of the work, the Contractor shall relocate them in accordance with the General Conditions of the Contract Documents.

3.6 DISPOSAL

A Remove excess materials and materials from the site as cleared and as Work progresses.

1. Do not allow materials to accumulate on-site.

NCWSA Office Addition - 60% Design

Wendel Project No. 616202

2. Debris may not be relocated on the site unless otherwise specified.
 3. Open burning and burial in trenches or embankments is prohibited.
- B Dispose of materials off the site in accordance with local, state, federal and agency requirements.

END OF SECTION