

SECTION 1000 - SITE PREPARATION

1001 SCOPE. This section covers the necessary clearing, grubbing, demolition, and other appurtenant work at the locations shown on the contract drawings.

1002 DEFINITIONS.

- A. Clearing. Clearing shall consist of the removal of all vegetative matter, such as trees, brush, downed timber, rotten wood, sod, grass, agricultural crop or residue, and other objectionable materials encountered on or above the surface of the site. It shall include the removal of fences, lumber, waste dumps, and trash, the salvaging of such materials as may be specified, and the disposal of the debris in accordance with all applicable federal, state and local regulations and ordinances.
- B. Grubbing. Grubbing shall consist of the removal of all stumps, roots, buried trees and brush, and other objectionable materials encountered on or below the surface of the ground or subgrade, whichever is lower, which has not been included under the definition of "*Clearing*" above.
- C. Stripping all areas to receive embankment shall be stripped of existing organic and other undesirable material to a minimum depth of six (6) inches. This material shall be disposed of in a manner approved by the Engineer. All topsoil shall be removed and stockpiled for use in final grading.
- D. Demolition. Demolition shall consist of the destruction and removal of all non-vegetative matter encountered above, on, or below the ground surface within the construction limits. This shall include, but not be limited to, buildings, abandoned utilities, all material derived from the demolition of portland cement concrete items such as base courses, curbs, curb and gutters, sidewalks, floors, steps, driveways, drainage structures of all sorts, guard fences, and other miscellaneous items such as foundations or walls of any sort, iron or steel items, and asphaltic items such as pavement and base courses. Materials shall salvaged as indicated or specified, or disposed of in accordance with all applicable federal, state and local regulations and ordinances.
- E. Trees. Vegetative growth forty (40") inches or greater in circumference, measured two (2') feet above the ground shall be classified as a tree.
- F. Brush. Vegetative growth less than forty (40") inches in circumference, measured two (2') feet above the ground shall be classified as brush.

G. Salvageable Material. All salvageable material shall include, but not limited to, catch basins, castings, signs, manhole rings and covers, salvageable brick and pipe, and any other material as indicated or specified, or which, in the opinion of the Engineer, is salvageable. Salvageable material shall be handled with care and delivered to a location as directed by the Engineer.

1004 LIMITS OF CONSTRUCTION. The limits for clearing, grubbing, and demolition shall be as defined on the plans or as specified but in no case shall work extend beyond the limits of the right-of-way, city property lines, or easements.

1005 PROGRESS OF CONSTRUCTION.

A. General. Clearing, grubbing and demolition shall proceed well in advance of the construction operation so as not to delay the progress of the work. Grubbing shall parallel the clearing as nearly as the sequence of operations will permit. **Erosion control measures shall be in place prior to the start of grubbing operations.**

B. Clearing. The refuse resulting from clearing may be hauled to a waste site secured by the Contractor or shall be burned or buried in such a manner as to meet all laws, regulations, and requirements of any governing authority regarding health, safety, and public welfare. When authorized by the fire department, the Contractor may dispose of such refuse by burning on the site of the project, provided all requirements as determined by the Fire Marshall are met. Under no circumstances will the authorization to burn on the site relieve the Contractor in any way from damages, which may result from his operations. In no case shall any materials be left on the project site, shoved into abutting properties, or buried in embankments or trenches on the site.

B. Grubbing. Except for the special circumstances enumerated below, all stumps, roots, and other objectionable matter within the construction area shall be removed to a minimum depth of twelve (12") inches below the subgrade or the original ground, whichever is lower. All stumps, roots, and other objectionable matter outside the limits of the construction area, but within the right-of-way shall be cut off flush with the final grade.

All stumps, roots, and other objectionable matter within the specified limits of embankments having a depth of two (2') feet or less shall be removed and disposed of. Piling and butts of utility poles within the limits shall

be removed to a minimum depth of two (2') feet below the subgrade or the original ground, whichever is lower.

All stumps, roots, and other objectionable matter found within borrow material to be used for embankment or fill material shall be removed. All stumps, roots, and other objectionable matter found within the bottoms or sidewalls of excavation and trenching areas shall be completely removed from the respective bottom areas, and removed to a minimum depth of twelve (12") inches below the respective sidewalls.

- C. Demolition. Masonry and concrete walls, miscellaneous foundations, or other objects extending below ground shall be removed to a depth of at least twelve (12") inches below the original ground or the subgrade, whichever is lower. When explosives are used in demolition, the Contractor shall comply with the provisions of the Fire Marshall.

In removing items such as portland cement concrete pavement, base courses, curbs, curb and gutters, gutters, sidewalks, and similar objects where portions of said objects are to be left in place, they shall be removed to an existing joint or to a new joint sawed to a minimum depth of one (1") inch with a true line and vertical face. Sufficient portions of these objects shall be removed to provide for the proper grade and connection to the new work.

- 1006 PROTECTION OF TREES AND SHRUBS. During construction operation, the Contractor shall leave in place and protect from damage all trees, shrubbery, and flower beds unless shown on the drawings to be removed. Where trees existing on the project site are not to be removed, it shall be the responsibility of the Contractor to trim low branches, which would interfere with the normal operation of his equipment. The trimming shall be performed by certified professional prior to any machine operation.