

TECHNICAL SPECIFICATIONS  
FOR  
REMOVAL OF STRUCTURES AND OBSTRUCTIONS

1. Descriptions

This work shall consist of the removal, wholly or in part, and satisfactory disposal of all structures, old pavements, and other designated obstructions not designated to be removed and disposed of under other items in the Contract.

2. Construction Requirements

- (a) General - The Contractor shall raze, remove, and dispose of all buildings and foundations, structures, culvert pipes, pavements, sidewalks, curb and gutter, fences, and other obstructions, any portions of which are on the right-of-way, except utilities and those for which other provisions have been made for removal.
- (b) Removal of Foundations & Structures - Foundations of buildings and structures shall be removed to a depth of not less than two feet below subgrade elevation, or two feet below original ground in areas outside the roadway slope intercepts. Basement floors and other large slabs shall be broken up to prevent holding of water. Cavities left by structure removal shall be filled to the level of surrounding ground, and within the slope intercepts and below subgrade elevation shall be compacted in accordance with the provisions for embankment fills.
- (c) Removal of Bridges and Culverts - Bridges, culverts and other drainage structures in use by traffic shall not be removed until satisfactory arrangements have been made to accommodate traffic.

Substructure of bridges shall be removed to 1 foot below adjacent ground level or natural stream bottom for such portions located in the stream. Blasting or other operations, which may damage new construction, shall be completed prior to placing new work, or adequate precautions shall be taken to prevent damage.

- (d) Removal of Pipes - All designated pipe (existing pipe that is to be replaced by new pipe or determined not to be necessary due to new construction) shall be removed and disposed of by the Contractor. All existing pipe (within the roadway or within 5 feet of the outside edge of the roadway) which is removed and not necessary due to new construction shall be backfilled with mineral aggregate base as described in Section 5 of these Specifications and compacted as described in Section 5 of these Specifications. Pipe not designated to be removed shall be protected by the Contractor and if damaged replaced at the Contractor's expense.

- (e) Removal of Concrete Pavement -
  - 1) All concrete pavement, including driveways, sidewalks, and curb and gutter, that exist outside of the proposed slope intercepts and becomes abandoned because of new construction shall, if so designated on the plans or by the Engineer, be completely removed and disposed of as directed. Grading and seeding shall follow according to Plans and Specifications.
  - 2) All concrete pavement, including driveways, sidewalks, curb and gutter, that exist within the slope intercepts of the project and are at an elevation higher than two feet below subgrade elevation shall be removed and disposed of as directed.
  - 3) All concrete pavement, including driveways, sidewalks, and curb and gutter that exist within the slope intercepts of the project and are more than two feet below subgrade elevation, shall be broken into size not to exceed two feet in maximum dimension and remain in place.
  
- (f) Removal of Bituminous Pavement -
  - 1) All bituminous pavement outside of the proposed slope intercepts shall be removed and paid for as common excavation. All bituminous pavement within the slope intercepts, at an elevation higher than two feet below subgrade elevation, shall be removed and paid for as common excavation.
  - 2) All bituminous pavement within the slope intercepts and more than two feet below subgrade shall be broken into size not to exceed two feet in maximum dimension and remain in place.
  
- (g) All material obtained from the removal of structures, obstructions, etc. that may be satisfactorily incorporated into the embankments in the opinion of the Engineer, may be disposed of in the embankments where directed, provided that the material is broken into sizes no larger than one cubic foot and with a maximum dimension of one foot and provided that the material will be covered with at least two feet of earth embankment. The Contractor shall remove all other salvageable or discarded material, rubbish or debris from the project area and dispose of the same.

### 3. Method of Measurement

When the Bid Schedule stipulates that payment will be made for removal of structures and obstructions on a lump sum basis, the pay item, Removal of Structures and Obstructions, will include all structures and obstructions encountered within the rights-of-way in accordance with the provisions of this Section. Where the Bid Schedule stipulates that payment will be made for the removal of specific items on a unit basis, measurement will be made by the unit stipulated.

### 4. Basis of Payment

- (a) The accepted quantities of Removal of Structures and Obstructions will be paid for at the Contract lump sum price bid, which price shall be full compensation for removing and disposing of obstructions in accordance with the Plans and Specifications including all labor, materials, and equipment necessary to complete the work.

- (b) Specific obstruction items such as bridges and culverts, pipes, concrete pavement, and other structures, stipulated for removal and disposal under unit price pay items will be paid for at the Contract unit price bid per unit specified in the proposal, which price shall be full compensation for removal, disposal (and backfill where required) of materials, and equipment necessary to complete the work.