

SECTION 110 REMOVAL OF STRUCTURES AND OBSTRUCTIONS

110.1 DESCRIPTION

This work consists of removal and disposal of buildings, fences, structures, pavements, abandoned pipe lines, pipe culverts, other obstructions which are not designated or permitted to remain, and which are not removed and disposed of under other items in the contract. It shall also include the salvaging of designated materials and backfilling the resulting trenches, holes, and pits.

110.2 MATERIALS (Not Specified)

110.3 CONSTRUCTION REQUIREMENTS

Designated salvageable material shall be carefully removed, in sections or pieces which may be readily transported, and shall be stored at places specified. Unusable perishable material shall be destroyed. Nonperishable material may be disposed of outside the limits of view from the project with written permission of the property owner. Pipe shall be removed and disposed of as nonperishable material.

Basements or cavities left by structure removal shall be filled to the level of the surrounding ground and, if located in an area of an embankment or other structure, shall be compacted under the same specification as the embankment. In other areas the fill material shall be compacted as necessary to preclude undue settlement and shall be slightly mounded. Concrete basement floors and similar structures shall be broken up to prevent entrapment of water.

Bridges, culverts and other drainage structures used by traffic shall not be removed until satisfactory arrangements have been made to accommodate traffic.

The substructures of existing structures shall be removed down to the natural stream bottom. Those parts outside the stream shall be removed 1 foot (300 mm) below natural ground surface. When portions of existing structures are within the limits of a new structure, they shall be removed as necessary to accommodate the construction of the proposed structure.

Steel or wood bridges shall be dismantled without damage. Structures designated to become the property of the Contractor shall be removed from the right-of-way.

Blasting or other operations necessary for the removal of an existing structure or obstruction, which may damage new construction, shall be completed prior to placing the new work.

Pipe to be **reset** shall be removed, transported to the site of installation and stored, so there will be no damage before **resetting**. The Contractor will be required to replace sections of pipe damaged by negligence.

In removing pavement, curb, gutter, sidewalk and similar structures, where portions of the existing structures are to be left in the finished work, the old structure shall be removed to

REMOVAL OF STRUCTURES & OBSTRUCTIONS

an existing joint, or **sawed** and chipped to a true line with a vertical face.

When removing manholes, catch basins or drop inlets, any functioning sewer lines connected to them shall be rebuilt and properly connected. Satisfactory by-pass service shall be maintained during construction operations.

110.4 METHOD OF MEASUREMENT

When the contract stipulates that payment will be made for removal of obstructions on a lump sum basis, no separate measurement will be made. When the contract stipulates that payment will be made for the removal of specific items on a unit basis, measurement will be made by the unit stipulated in the contract.

When removal of pipe is to be made on a unit basis, the quantity will be measured in linear feet (meters). **End** sections will be measured in linear feet (meters) as part of the overall length of pipe.

Where curb and gutter adjoins Portland Cement Concrete pavement to be removed, it will be considered as pavement and will be measured as such.

110.5 BASIS OF PAYMENT

Payment for removal of obstructions on a lump sum basis will be as set forth in Section 250. Removal of pipe not designated for salvage will be paid for as per Section 250.

Variance from plan shown pipe removal quantities, locations, or dimensions will not be cause for adjustment in payment for Incidental Work.

Payment for removal of obstructions on a unit basis will be made under the item "**Remove *******".

Payment for removal of obstructions by either lump sum or on a unit basis, will be full compensation for removal and disposal of such items, excavation and subsequent backfill incidental to their removal. Payment will also include salvage of materials removed, their custody, preservation, storage on the right-of-way, and disposal as specified. When the contract does not include bid items for removal of structures and obstructions as set out in this section, the cost for this work shall be incidental to the various other contract items.