

DEMOLITION

1.00 GENERAL

1.01 Description

A. Furnish all labor, material, tools, and equipment necessary to properly dismantle and/or remove the items shown on the plans or specified herein. This work shall include removal of such items as superstructure, pavements, curb and gutter, sidewalks, manholes, catch basins, and pipes.

2.00 PRODUCTS

2.01 Concrete

A. Concrete required for fill or plugging shall be MDOT class S2.

3.00 EXECUTION

3.01 General

A. The contractor shall exercise special precautions during construction, not to damage any remaining pavement, sidewalk, or curb and gutter and no construction equipment with tractor lugs or other defacing or damaging components will be permitted on these surfaces. Where it is necessary for such equipment to travel over paved areas, the contractor shall provide suitable planks and blocking to prevent damaging paved surfaces.

B. Broken pieces of pavement, sidewalk, or curb and gutter shall be removed from the work and disposed of by the contractor. Under no circumstances shall these materials be used in backfilling any pipe trenches.

3.02 Superstructures

A. Building designated to be demolished shall have all pumps, pipes, valves, motors, electrical gear, control panels and boxes, electrical panels, hoist and trolleys, etc., or other materials which are considered as "operating equipment," carefully removed from their locations and transported to a storage point designated by the owner. Such material shall remain the property of the owner.

B. All superstructures, including miscellaneous metallic items attached to the structure, minor "non-operating equipment" and other construction items considered as "building appurtenances" etc., shall be razed to the ground and removed from the site.

C. All structural floor slabs, platforms, structural supports, etc., or other materials determined to be non-salvageable or non-removable from the site by either owner or contractor, shall be razed in place and compacted mechanically into the lowest levels of substructures. The upper portion of the foundations walls, from top of walls down to a depth of four feet below adjacent finished grade, shall be broken down and compacted onto the demolition of the slabs.

D. The demolition and compaction of the structural system shall be such as to create a tightly compacted mass, without such voids that would create future settlement. Additional "fine" materials, such as gravel, broken stone, sand, etc., shall be added during the compaction process where it proves to be extremely difficult to break concrete masses into smaller sections. Cutting torches or other means shall be used where necessary to cut reinforcing steel.

3.03 Pavements

A. Cut and remove from the work all pavement, curb and gutter, or sidewalk that would be damaged by the work. Cutting of concrete pavement, where permitted, shall be done with a concrete saw, in a manner

meeting the approval of the engineer. Asphalt pavements shall be sawcut by a tool leaving a square neat cut with the cost being incidental to the project. Pavement shall be cut back so the pavement opening is 12 inches wider on each side than the width of the trench, and care shall be taken during construction operations so as to not cave the banks or undermine remaining pavement. Any reinforcement encountered shall not be cut out, but shall be left protruding at least two feet from the face of the cut and shall be bent out of the way to be replaced later and spliced to new reinforcement. Any steel rail or brick structure encountered while removing pavement shall be cut at the limits of the pavement removal and removed at no additional cost. Trench width must be a minimum of three feet.

B. Pavement removal shall include the removal of any aggregate necessary for placement of utilities.

C. All strips of existing pavement what are less than 2 feet wide and which are between the cut pavement and the concrete gutter, shall be removed and replaced.

3.04 Sidewalk, Curb and Gutter, and Driveways

A. In cutting through sidewalks, driveways, or curb and gutter, the contractor shall remove full slabs of sidewalk or driveway or full lengths of curb and gutter to the nearest regular joint on each side of the excavation.

3.05 Catch Basins, Manholes, and Piping

A. Covers and frames shall be removed from catch basins and manholes designated to be abandoned. These basting shall remain the property of the owner. All existing piping connections shall be plugged with non-shrink grout and the structure backfilled in the EARTHWORK section.