

Subsection 5.06
Excavation and Backfill
for Structures

I. Scope: Excavate for placement and construction of structures and backfill structures. Cut and restore pavement.

II. Materials: Use materials that meet the requirements of the following Subsections:

A. Subsection 4.01 "Utility Construction in City of Amarillo Right of Way and Easements;"

B. Subsection 5.05, "Trench Protection."

C. Water usage shall conform to Subsection 3.04 "Requirements for Water Usage."

III. Construction

A. Excavation: Excavate to lines and grades shown on the plans. Follow the requirements listed in Subsection 5.05, "Trench Protection," for excavations for 5 foot in depth. Dispose of material not incorporated into the final project off the project in accordance with federal, state, and local regulations. Do not place material in areas designated as flood zones.

1. Obstructions: Remove obstructions in the proposed construction, including trees and other vegetation, debris, and structures, over the width of the excavation to a depth of 1 foot below the bottom of excavation. Restore the bottom of the excavation to grade by backfilling after removing obstructions in accordance with the Subsection. Dispose of obstruction off the project in accordance with federal, state, and local regulations.

2. Excavation in Streets: Cut and restore pavement in accordance with Subsection 4.01, "Utility Construction in City of Amarillo Right of Way and Easements;" Maintain and control traffic in accordance with the approved traffic control plan and the TMUTCD.

3. Utilities: The Contractor is responsible locating and coordinating work around existing utilities. The contractor is responsible for contacting 811 for private utilities or the City for damage to City owned existing utilities.

4. De-Watering: The Contractor shall remove water by bailing, pumping, or other approved methods. After pumping area it is required to dry for 36 hours for material to seal off. If dewatering is not successful place bedding of flex base, cement stabilized base of lean concrete having a minimum strength of

275 pounds of cement per cubic yard. Bedding must be at least 3 inches thick.

5. Unstable Material: Remove unstable material to a depth of not more than 2 feet. Replace excavated material with stable material in layers not greater than 8 inches. Compact to provide a stable foundation for structure.

6. Incompressible Material: Remove rock and other incompressible material to 6 inches below grade and replace with compressible material.

B. Shaping and Bedding: For box culverts place 2 inches of fine granular material as bedding. For pipe either excavate to shape of pipe or place sand in accordance with Subsection 5.01, "Storm Sewer Pipe."

C. Backfill:

1. Backfill for Pipes: Backfill the excavation as soon as practical. Backfill in accordance with Subsection 5.01, "Storm Sewer Pipe."

2. Backfill for Retaining walls, Headwalls, Inlets and Box Culverts: Place backfill against the structure only after the concrete has reached 3000 psi. Backfill using material in accordance with Subsection 5.01 "Storm Sewer Pipe." Use mechanical tamps to avoid damage to the structure where backfill is placed in area that are not accessible by blades and rollers. Place backfill in uniform lifts completely around structure.

IV. MEASUREMENT: This item is subsidiary to other pay items.

V. PAYMENT: There is no pay item for this Subsection.

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