

ITEM 920 TUNNEL SHAFT/JACKING PIT

920.01 Description

920.02 Materials

920.03 General

920.04 Excavation

920.05 Backfill

920.06 Method of Measurement

920.07 Basis of Payment

920.01 Description. This work consists of the excavation, removal of water, shaft supports, backstops, guides where necessary, and backfill of the shaft or pit at the locations shown on the plans and as specified in this section.

920.02 Materials. Use such materials as required for the method of construction operations and to maintain the vertical face of the shaft excavation. Such materials shall ensure the protection of the work and safety of the personnel.

920.03 General. Submit to the Engineer, prior to the start of operations, the plan of operation and construction schedule, a description of the type of materials the Contractor plans to use, and the materials handling equipment. Indicate the location of the tunnel shaft or jacking pit for the tunnel and pipe sewer size specified on the plans and in accordance with contract documents. Submit shop drawings, accompanied by calculations, and stamped by a Professional Engineer registered in the State of Ohio. Provide one electronic copy or six (6) paper copies of this information to the Engineer. The Engineer will forward copies to any authority involved for approval. The Engineer will return one copy to the Contractor. Pay any cost that may result due to the authority's requirements, of whatever nature, including furnishing watchman and supervision by its forces, at no additional cost to the City.

Approval of the operation plan and construction schedule by the Engineer shall not relieve the Contractor from its obligations to ensure the safe conduct and quality of the work specified.

920.04 Excavation. Excavate all material of whatever nature encountered, including rock, necessary for the construction of the work to dimensions providing ample room for construction. Remove any obstruction or relocate any utility within 1 foot (0.3 m) outside the outer edge of the tunnel shaft, if not specifically shown as a removal or a relocation on the plans, at no additional cost to the City. Consider all excavated material as unclassified material.

920.05 Backfilling. Perform backfilling work in accordance with 901.17.

920.06 Method of Measurement. The Engineer will measure the number of tunnel shafts or jacking pits at the locations specified by the actual number of each accepted.

920.07 Basis of Payment. The City will pay for tunnel shafts or jacking pits accepted at the contract price for the following:

Item	Unit	Description
920	Lump Sum	Tunnel Shaft at Station _____
920	Lump Sum	Jacking Pit at Station _____