

Section 01540

DIVERSION PUMPING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Diversion pumping.

1.02 UNIT PRICES

- A. No separate payment will be made for installation, operation and maintenance of diversion pumping system. Include the cost of diversion pumping in other related bid items

1.03 DEFINITIONS

- A. Diversion pumping is the installation and operation of bulkheads, plugs, hoses, piping, and pumps to maintain sewage flow and prevent backup and overflow.

1.03 SYSTEM DESCRIPTION

- A. Diversion pumping provides continuous sewer service to the users of the sanitary sewer system while maintenance or construction operations are in progress by diverting flow when necessary around the construction location and pumping it to a downstream manhole. Maintain sewage flow to prevent backup or overflow onto streets, yards and unpaved areas or into buildings, adjacent ditches, storm sewers, and waterways. Do not divert sewage outside of the sanitary sewer system.
- B. Any time the diversion pump(s) are operating, an experienced operator shall be on site to monitor the operation, adjust pump speed, valves, etc., make minor repairs to the system and report problems.

1.04 SUBMITTALS

- A. Make submittals in conformance with Section 01330 - Submittals Procedures.
- B. Diversion pumping systems bypassing line segments with 42-inch diameter or greater sewers, require submittal (prior to installation) of a Diversion Pumping Plan with sufficient detail to show the location, number and size of pumps, the number, location, size and type of hoses and/or rigid piping, and the location of the downstream discharge. Show any special features where pipes or hoses cross roadways, such as temporary trenches, support bridges, etc.

1.05 SCHEDULING

- A. If the City is operating or maintaining diversion pumping in the construction area, the Contractor shall coordinate with the City Engineer, as necessary.
- B. The Contractor shall cease diversion pumping operations when directed by the City Engineer.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Design piping, joints, and accessories to withstand at least twice the maximum system pressure or 50 psi, whichever is greater.
- B. Pumps, pumps shall be self-priming type or submersible electric, in good working order, with a working pressure gauge on the discharge. Pumps shall meet the requirements of the City of Houston Noise and Sound Level Regulations.

PART 3 EXECUTION

3.01 FIELD QUALITY CONTROL

- A. During diversion pumping, do not allow sewage to be leaked, dumped, or spilled in or onto any area outside of the existing sanitary sewer system.
- B. In the event of accidental spill or overflow, immediately stop the discharge and take action to clean up and disinfect the spill. Promptly notify the City Engineer so that required reporting can be made to the Texas Natural Resources Conservation Commission (TNRCC) and the Environmental Protection Agency (EPA) by the City Engineer.

3.02 CLEANING

- A. When diversion pumping operations are complete, piping shall be drained into the sanitary sewer prior to disassembly.

END OF SECTION