

SECTION 02790

DIVERSION PUMPING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Use of by-pass pumping to prevent surcharging and maintain un-interrupted flow through sewage collection system while allowing Contractor to provide reliable sewer service to the sanitary sewer users at all times and to isolate sewer line manholes and/or sewer line segments designated for cleaning, rehabilitation, and television inspection operations. Includes installation and operation of bulkheads, plugs, hoses, piping and pumps to maintain sewage flow and prevent backup and overflow.

1.02 UNIT PRICES

- A. No separate payment for work performed under this item, unless stated in the bid proposal. Include cost of same in contract price bid for items of work which it is a component.

PART 2 MATERIALS

2.01 PUMPS

- A. When well-pointing in residential areas, utilize noise reducing pumps and said pumps must be approved by the Owner.
- B. Pumps and/or generators must be provided with noise attenuators when pumping is required after hours.

2.02 PIPING, JOINTS AND ACCESSORIES

- A. All piping, joints and accessories shall be designed to withstand at least twice the maximum system pressure or a minimum of 50 psi which ever is greater and be leak free.

PART 3 EXECUTION

3.01 PROCEDURES AND METHODS

- A. Prior to beginning sewer cleaning, rehabilitation and television inspection operations demonstrate pumping system is in good working order.

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- B. Prior to isolating sewer manhole and/or line segment for beginning work have all materials, equipment and labor necessary to complete sewer on job site.
 - C. Locate pumping suction and discharge lines so as not to cause undue interference with the use of streets, private driveways entrances or residences.
 - D. All piping, joints and accessories shall be designed to withstand at least twice the maximum system pressure or a minimum of 50 psi whichever is greater.
 - E. Plug off and pump down sewer manhole or line segment in designated area. Maintain sanitary sewer system so that surcharging does not occur.
 - F. Complete sewer cleaning, rehabilitation and television inspection operations as quickly as possible.
 - G. An experienced operator shall be on site at all times to monitor the operation, adjust pump speed, valves, etc.
 - H. Furnish all labor, materials, supervision and equipment necessary for maintaining the pumping system in continuous proper working order for the duration of cleaning, rehabilitation and television inspection operations. Obtain approval of discharge location for diversion pumping system prior to commencing work. Under no condition will raw sewage be allowed to discharge in open ditches, streets, or storm sewer systems or in any way that would create unsanitary conditions or interfere unduly with the use of streets, private driveways entrances or residences. Whenever flows in a sewer line are blocked, plugged or bypassed, sufficient precautions must be taken to protect the sewer lines from damage. Ensure that sewer line cleaning, rehabilitation and television inspection and/or by-pass operations do not cause flooding or damage to public or private property being served by the sewer lines involved in the repair. The Contractor is responsible for having additional stand by pumps in the event of failure of any pumps.
 - I. In the event sewage accidentally drains into the drainage system or street, the Contractor shall immediately stop the overflow, notify the Owner's Representative and cleanup and disinfect the spillage to the satisfaction of the Owner's Representative.
 - 1. In the event the sewage is spilled onto public or private property, the Contractor shall wash down, clean up and disinfect the spillage to the private owner's/ Owner's Representative satisfaction.
 - 2. Overflow/spillage shall be reported to the Texas Commission on Environmental Quality (TCEQ) and the Environmental Protection Agency (EPA) by the Contractor within 24 hours.

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

END OF SECTION