

CONSTRUCTION STANDARD SPECIFICATION

SECTION 02955

SEWER FLOW CONTROL

	<u>Page</u>
<u>PART 1 - GENERAL</u>	
1.01 Summary	2
1.02 Submittals	2
1.03 Project Conditions.....	3
 <u>PART 2 - PRODUCTS</u>	
2.01 Materials And Equipment.....	3
 <u>PART 3 - EXECUTION</u>	
3.01 Protection	3
3.02 Application.....	4
3.03 Cleaning	4

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SEWER FLOW CONTROL

PART 1 - GENERALPART I - GENERALPART I - GENERALPART I - GENERAL{tc \l 1
"PART I - GENERAL"}

1.01 SUMMARY

- A. Section includes control of sanitary sewer flow during internal television (TV) inspection, sewer cleaning operations, manhole rehabilitation, and sewer pipe lining.
 - 1. Limited sewage flow is acceptable for TV inspection.
 - 2. Complete stoppage or bypassing of flow is required during sewer line and manhole rehabilitation work.
- B. Related Sections: Refer to the following sections for related work.
 - 1. Section 02956, "Sewer Cleaning".
 - 2. Section 02957, "Sewer Pipe Lining".
 - 3. Section 02958, "Manhole Rehabilitation".
 - 4. Section 02959, "Television Inspection".

1.02 SUBMITTALS

Submit Drawings and complete design data showing methods and equipment to be utilized in sewer bypassing and dewatering. Include the following information:

- A. Indicate location of temporary sewer plugs and bypass discharge lines on Drawings.
- B. Capacities of pumps, prime movers, and standby equipment.
- C. Standby power source.
- D. Traffic control plan.

1.03 PROJECT CONDITIONS

Available data and records are indicated in Contract documents.

PART 2 - PRODUCTS

2.01 MATERIALS AND EQUIPMENT

- A. Provide temporary pumps, conduits, and other equipment to bypass sewer flow.
 - 1. Equip engines with mufflers and/or enclose to keep noise level less than 50 decibels, or 10 decibels above ambient noise levels when measured at building closest to noise source.
 - 2. Provide pumps and bypass lines of adequate capacity and size to handle flows.
- B. Maintain sufficient equipment and materials on site to ensure continuous and successful operation of bypass and dewatering systems.
 - 1. Keep standby pumps fueled and operational at all times.
 - 2. Maintain on site sufficient number of valves, tees, elbows, connections, tools, sewer plugs, piping, and other parts or system hardware to ensure immediate repair or modification of any part of system as necessary.
- C. Provide piping, joints and accessories designed to withstand at least twice the maximum system pressure, or 50 psi (345 kPa), whichever is greater.

PART 3 - EXECUTION

3.01 PROTECTION

- A. In areas where flows are bypassed, discharge bypass flow to sanitary sewer approved by SDR. No bypassing to ground surface, receiving waters, storm drains, or bypassing which results in groundwater contamination or potential health hazards shall be permitted.
- B. In the event sewage accidentally drains into drainage system or street, immediately stop overflow, notify SDR, and take necessary action to clean up and disinfect spillage to satisfaction of SDR.
 - 1. If sewage is spilled onto public or private property, wash down, clean up, and disinfect spillage to satisfaction of SDR.
 - 2. Immediately report overflows to SDR.

3.02 APPLICATION

- A. Plugging or Blocking: Insert sewer line plug into line upstream of section being worked. Design plug so that all or any portion of sewage can be released.
 - 1. If sewer flow control is required for TV inspection, reduce flow to comply with requirements specified in Section 02959, "Television Inspection".
 - 2. After cleaning, inspection, or rehabilitation work has been completed, restore flow to normal.
- B. Pumping and Bypassing: When pumping and bypassing is required, provide pumps, conduits, and other equipment to divert flow of sewage around manhole section in which work is to be performed.
 - 1. Bypass system shall have sufficient capacity to handle existing flow plus additional flow that may occur during peak flow periods or from precipitation.
 - 2. Construct bypass system of material to prevent leakage during pumping operation.

3.03 CLEANING

- A. Keep premises free from accumulations of waste materials, rubbish, and other debris resulting from work.
- B. Remove waste materials, rubbish, and debris from and about premises.
- C. Remove tools, construction equipment and machinery, and surplus materials.
- D. Restore to original condition portions of site not designated for alterations by Contract Documents.
- E. When by-pass pumping operations are complete, drain piping into sanitary sewer prior to disassembly.

END OF SECTION