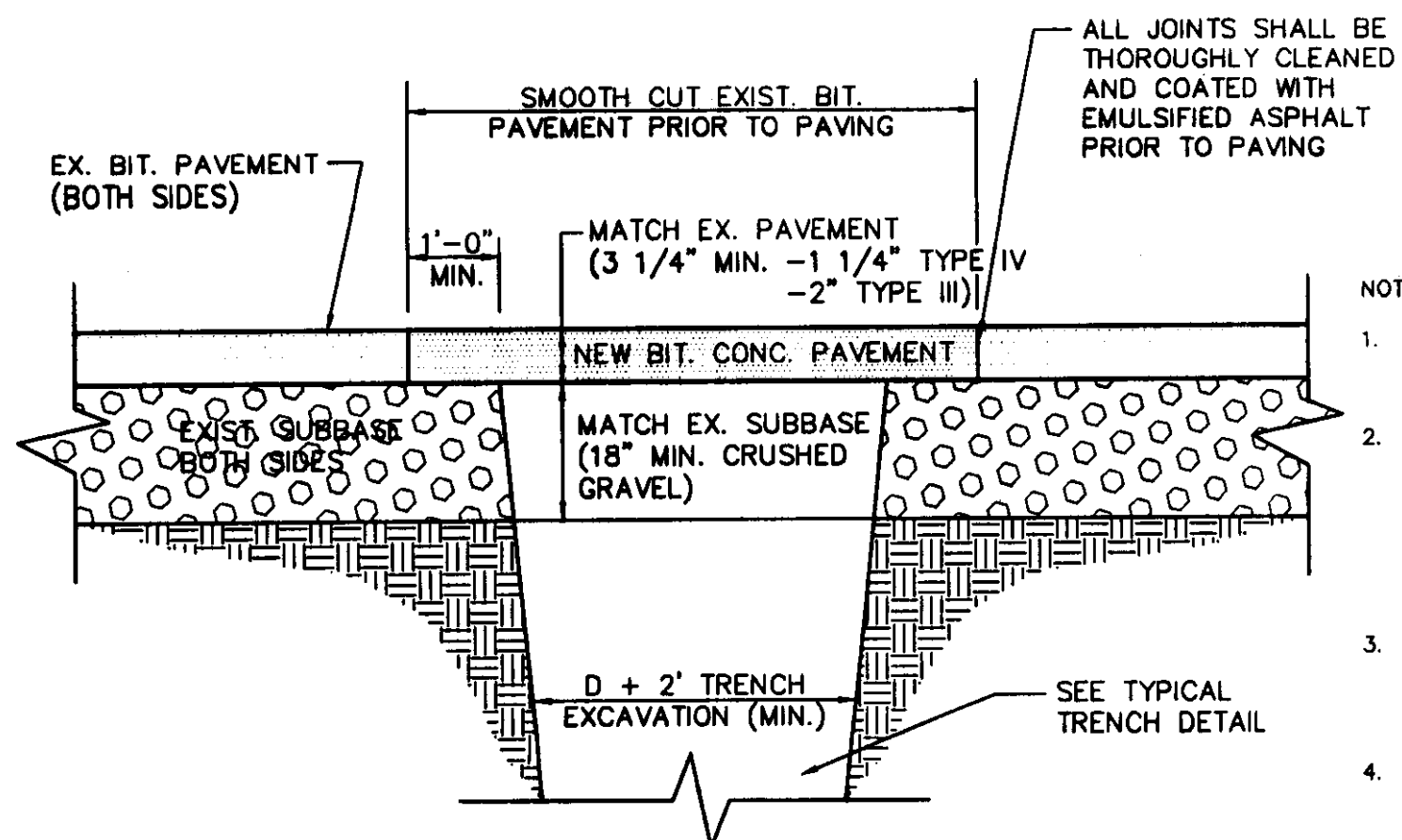


**NOTES:**

1. INVERTS TO BE CONSTRUCTED ONLY AFTER SUCCESSFUL COMPLETION OF LEAKAGE TEST.
2. EXTERIOR JOINTS SHALL BE SEALED ONLY AFTER SUCCESSFUL COMPLETION OF LEAKAGE TEST.
3. INTERIOR JOINTS SHALL NOT BE GROUTED.

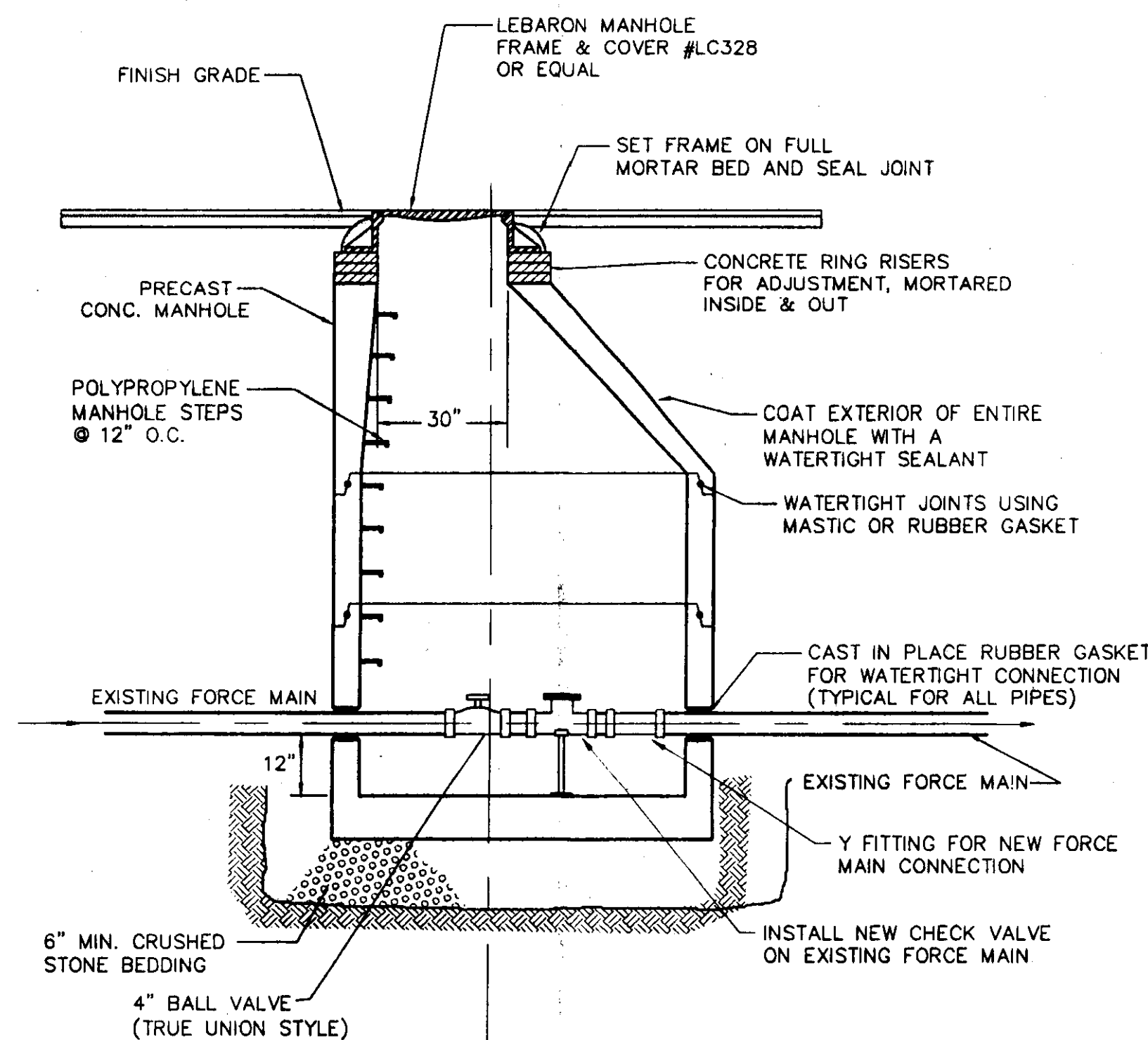
**TYPICAL SANITARY SEWER MANHOLE**

N.T.S.



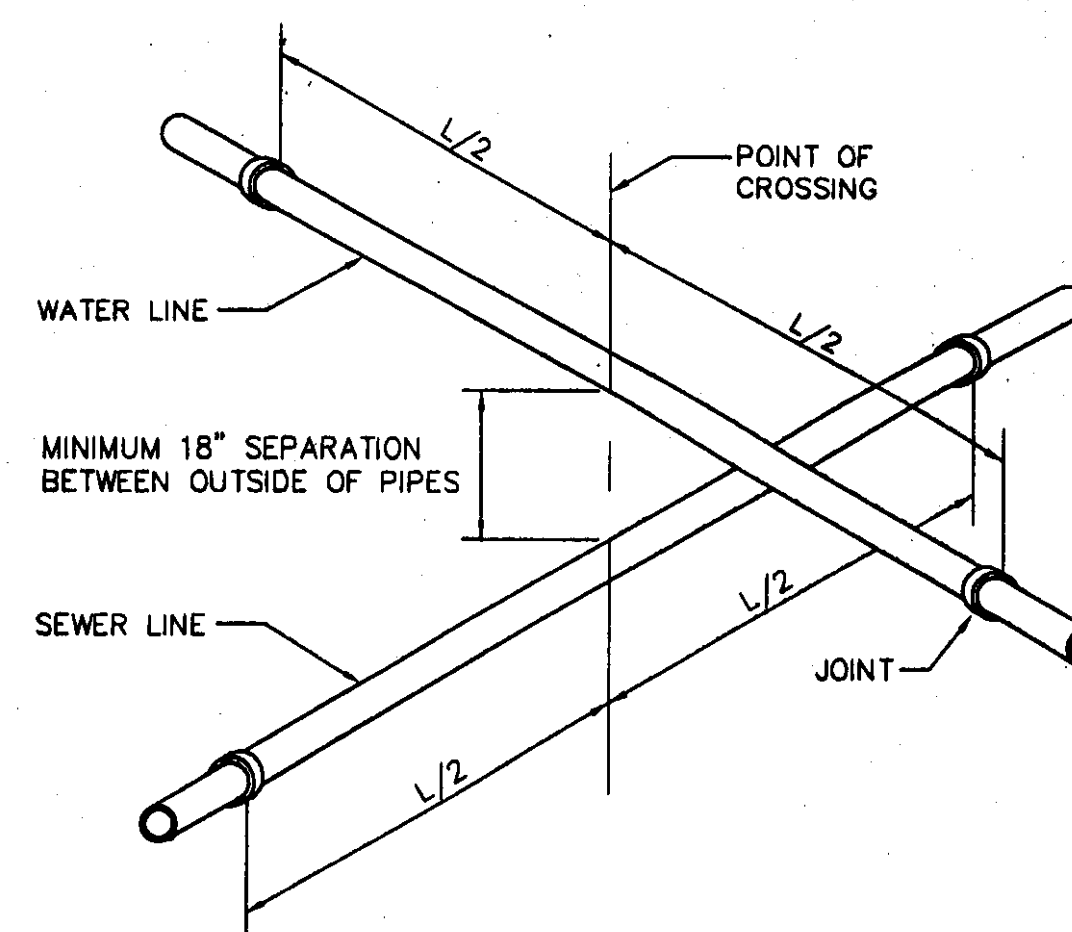
**REPLACEMENT OF EXIST. PAVEMENT**

N.T.S.



**CLEANOUT MANHOLE**

N.T.S.

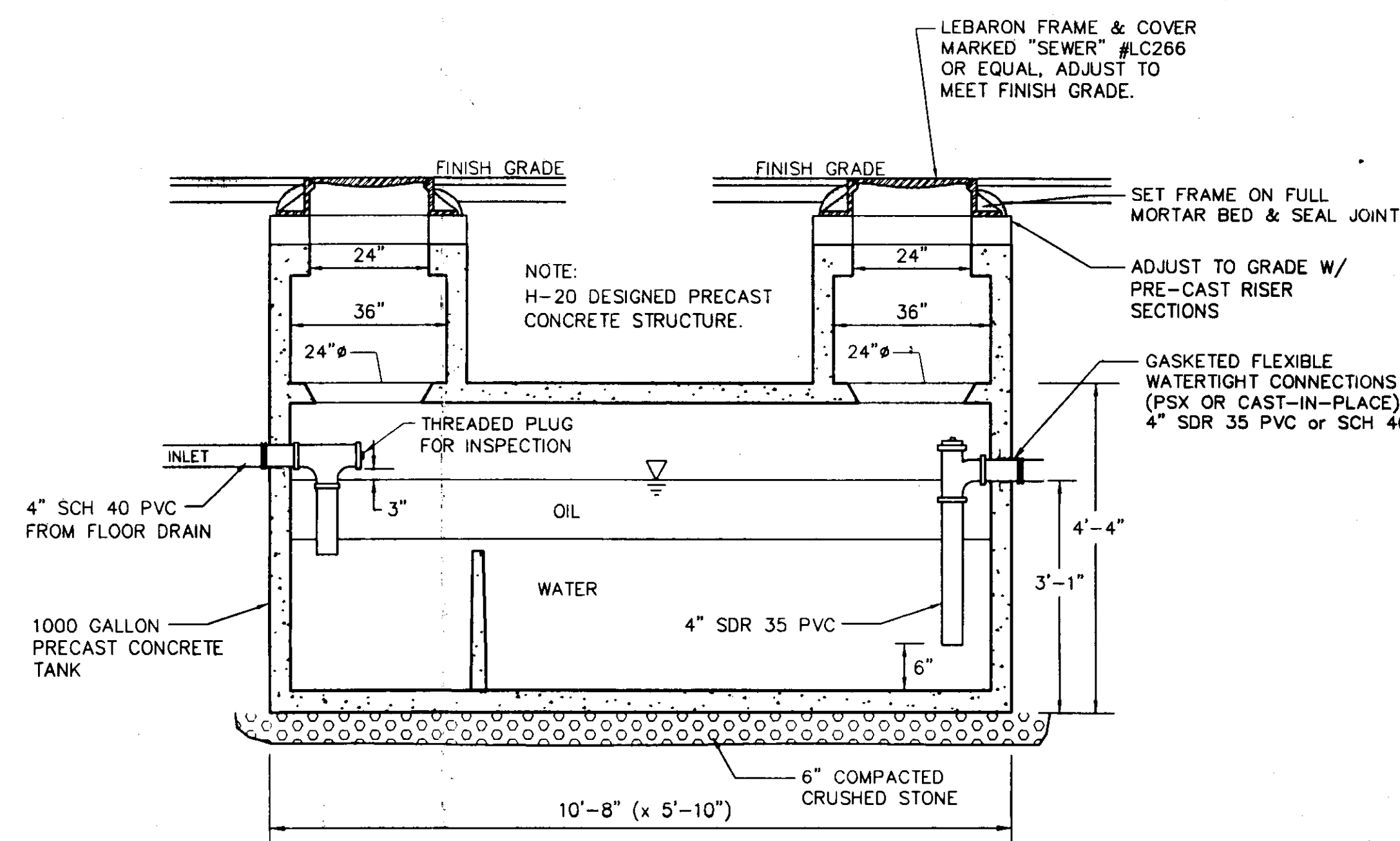


**NOTES:**

1. PROVIDE A MINIMUM 18" VERTICAL SEPARATION BETWEEN THE WATER LINE AND THE SEWER LINE. IF THIS SEPARATION CANNOT BE MAINTAINED, CONTACT THE DESIGN ENGINEER FOR DESIGN REVISIONS. ALL REVISIONS MUST BE APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (WATER SUPPLY DIVISION).
2. MAINTAIN 10' MINIMUM SEPARATION (HORIZONTAL) BETWEEN THE SEWER LINE AND WATER LINE.
3. PROVIDE ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER/WATER LINE AT ALL CROSSINGS TO PREVENT SETTLEMENT OR ANY DAMAGE.

**WATER/SEWER CROSSING DETAIL**

N.T.S.



**1000 GALLON HEAVY DUTY OIL SEPARATOR**

N.T.S.

**SEPARATOR TESTING**

A. The separator shall be tested by the following procedure:

1. **Exfiltration Leakage Test:** All pipes and other openings into the tank shall be suitably plugged and the plugs braced to prevent blowout. The tank shall then be filled with water to the top of the riser section. A period of time may be permitted, if the Contractor so wishes, to allow for absorption. At the end of this period, the tank shall be refilled to the top of the riser, measuring the volume of water added. This amount shall be converted to gallons per vertical foot depth for 24 hours. The leakage for each tank shall not exceed four gallon/vertical foot/day. If leakage exceeds the allowable rate, repairs shall be made as approved by the Engineer and the tank retested.

If the Contractor elects to backfill prior to testing, the testing shall be at his own risk, and it shall be incumbent upon the Contractor to determine the reason for any failure of the test. No adjustment in the leakage allowance will be made for unknown causes such as leaking plugs, absorption, etc. It will be assumed that all loss of water during the test is a result of leaks through the joints or through the concrete. Furthermore, the Contractor shall take any steps necessary to assure the Engineer that the water table is below the bottom of the tank throughout the test.

SITE ENGINEER:



**CIVIL ENGINEERING ASSOCIATES, INC.**  
P.O. BOX 485 SHELburne, VT 05482  
802-885-2323 FAX: 802-885-2271 web: www.caa-vt.com

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DRAWN

PJM

CHECKED

BCE

APPROVED

BCE

OWNER:



**STATE OF VERMONT**  
VERMONT AGENCY OF TRANSPORTATION  
MONTPELIER, VERMONT

PROJECT:

**ST. JOHNSBURY GARAGE**

ROUTE ST. JOHNSBURY, VERMONT

DATE	CHECKED	REVISION
10/5/04	BCE	GENERAL REVISIONS.

**SITE DETAILS**

DATE  
JUNE, 2004

SCALE  
N.T.S.

PROJ. NO.  
04128.01

DRAWING NUMBER

**C3**