

STANDARD SANITARY SEWER NOTES

1. Sanitary sewers and appurtenances shall be constructed in accordance with Stark County Sanitary Engineering Department specifications and details in effect at the time of construction.
2. Roof drains, foundation drains and other clean water connections to the sanitary sewer are prohibited. Adopted December 27, 1968.
3. Prior to start of construction, the contractor shall have a pre-construction meeting with the Construction Engineer of the Stark County Sanitary Engineering Department (330-451-2309). A notice of no less than 72 hours is required to schedule this meeting.
4. The contractor shall notify all property owners along the route of the sanitary sewer at least 3 days prior to start of construction.
5. The contractor shall alert the Utilities Protection Service at least 48 hours before construction start.
6. Approval by the Stark County Sanitary Engineering Department constitutes neither expressed nor implied warranties as to fitness, accuracy, or sufficiency of plans, designs or specifications.
7. The contractor shall be responsible for properly maintaining existing sanitary flow during the construction and testing of the proposed improvements. The contractor's methods to maintain flow must be approved by the Stark County Sanitary Engineering Department prior to implementation.
8. All rough grading to within 6 inches of finished grade shall be completed within the rights-of-way and easements prior to sanitary sewer construction.
9. All sanitary sewer trenches beneath proposed or existing pavement shall be compacted in lifts, in a manner, and with material as specified by the Stark County Sanitary Engineering Department and all applicable O.D.O.T. specifications.
10. Bulkheads shall be erected in existing manholes where taps for new local sewers are made and shall remain in place until the new sewers are complete, tested and approved. In cases where a bulkhead would interrupt the flow from existing service connections, the bulkhead shall be placed in the first new manhole upstream of the existing manhole.
11. Minimum clearance between sanitary sewers and waterlines shall be 18 inches vertically and 10 feet horizontally.
12. Minimum nominal pipe diameter for sanitary service sewers and building sewers (laterals) shall be 6 inches. Pipes shall be laid at no less than 1.0 % grade.
13. No changes to sanitary service sewer and building sewer (lateral) locations shall be made without the approval of the Stark County Sanitary Engineer.
14. For new subdivision construction, sanitary building sewers (laterals) shall extend 15 feet into each lot when the local sewer is in a street right-of-way or shall terminate at the easement line when the local sewer is in an easement. For other sewer construction, service and building sewers shall terminate at the right-of -way line or the easement line, whichever is applicable.
15. Service sewer stacks shall be epoxy lined ductile iron pipe in accordance with Item 11 of the Stark County Sanitary Engineering Department specifications, regardless of local sewer material. An epoxy lined ductile iron tee shall be installed in the local sewer.

16. Minimum cover over sanitary sewers shall be 4 feet.

17. Acceptable sanitary sewer pipe materials are :

<u>Pipe</u>	<u>Joints</u>	<u>Installation</u>
PVC Smooth Exterior : ASTM D - 3034	ASTM D-3212	ASTM D - 2321
PVC Water Pipe : AWWA C - 900	AWWA C-110/C-111	AWWA C - 151
DIP (CL 52) : AWWA C - 151	AWWA C-110/C-111	AWWA C - 151

18. All sanitary sewers, 8 inches in diameter and larger, shall pass an internal television inspection. The contractor shall provide complete internal inspection videotape to the Stark County Sanitary Engineering Department. The videotaping procedure shall be in accordance with Stark County Sanitary Engineering Department specifications.

19. A deflection test shall be required for all flexible pipe of 8 inches in diameter and larger. The test shall be conducted at least 30 days after completion of backfill and shall be in accordance with Stark County Sanitary Engineering Department specifications. The allowable deflection rate shall not exceed five percent (5%). Testing shall be in accordance with Appendix C of the Stark County Sanitary Engineering Department specifications.

20. All sanitary sewers must pass a low pressure air test, which shall be conducted in accordance with Stark County Sanitary Engineering Department specifications. The maximum allowable test leakage shall be 100 gal/inch of diameter/mile/day. This test shall conform to ASTM F-1417.

21. Manhole construction shall meet the requirements of ASTM C-478 and C-443. All manholes shall be air/vacuum tested in accordance with and meet all the requirements of ASTM C-1244.

22. Connections to existing manholes shall be core drilled, with benches and channels formed and repaired as necessary. Flexible gaskets conforming to ASTM C – 923 (A-Lok, Kor-N-Seal or approved equal) shall seal the space between the pipe and the manhole wall.

23. Any manhole drop attachments shall be " outside " type.

24. Manhole top of casting elevations may require adjustment during site grading. Manhole covers may not be buried. Upon completion of construction and restoration, all manholes, proposed and existing, shall be in conformance in all respects with Stark County Sanitary Engineering Department specifications and details.

25. At a minimum the contractor shall furnish grade stakes at 50 feet intervals for design rates of 0.50 % or less and 100 feet intervals otherwise, and at each manhole, proposed or to be connected to.

26. The Sanitary Engineer's on – site representative may request a Professional Surveyor (Ohio PS licensee) evaluation of the pipe invert elevation at various times. Work shall not continue until the surveyor has verified to the representative that the pipe is at the proper, design, elevation.

27. Sanitary sewer and manhole invert elevations and rates shall be measured by a Professional Surveyor's (Ohio PS licensee) and provided to SCSE to verify conformance with the design prior to placement of pavement and curb in the sewer zone of influence.

28. Each manhole shall be provided with an internal chimney seal made by CRETEX, TRELLEBORG or equal to make the chimney joints watertight by covering the interior surfaces of the manhole frame, precast grade rings and upper three inches of the manhole cone section.

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