

# SANITARY SEWER CONSTRUCTION

## GRAVITY SEWER

### MAIN PIPE:

8" MINIMUM PVC, ASTM D3034; JOINTS ASTM D3212.  
 8" MINIMUM DUCTILE IRON PIPE, CLASS 52, AWWA C151. CEMENT LINED, AWWA C104.  
 AIR TEST REQUIRED ON ALL MAINS AND LATERALS.  
 A 5% DEFLECTION TEST WITH AN APPROVED MANDREL SHALL BE MADE AFTER 30 DAYS. THE CITY OF WOOSTER ENGINEERING DIVISION RESERVES THE RIGHT TO REQUIRE RE-TESTING WITHIN 1 YEAR AFTER INSTALLATION.  
 MINIMUM REQUIRED SLOPE SHALL NOT BE LESS THAN 0.40% FOR 8" PIPE. THE CITY ENGINEER MAY REQUIRE A GREATER MINIMUM SLOPE FOR END OF LINE SEWERS.

### LATERALS:

6" MINIMUM PVC, SAME SPECIFICATIONS AS FOR MAIN PIPE.  
 LATERAL CONNECTIONS TO MAIN SEWERS SHALL NOT BE MADE AT MANHOLES UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.  
 WYE OR TEE TYPE FITTINGS SHALL BE USED AT MAIN PIPE.  
 ONLY FERNCO 5000 SERIES STRONG BACK COUPLINGS ARE PERMITTED FOR IN-LINE SPLICES, AND ONLY WHEN NECESSARY.  
 FERNCO 5000 SERIES STRONG BACK COUPLINGS ARE APPROVED FOR BUILDING SEWER CONNECTIONS. A NEOPRENE O-RING O-RING (DOUGHNUT) MAY BE USED AS AN ALTERNATIVE, WITH THE 4" PIPE INSIDE THE 6" PIPE A MINIMUM OF 18".  
GLUED JOINTS UNDERGROUND ARE PROHIBITED.  
 90° BENDS ARE NOT PERMITTED. USE TWO 45° FITTINGS WITH A MINIMUM 24" STRAIGHT PIPE IN BETWEEN FITTINGS.  
 6" CLEAN-OUT, OF SAME MATERIAL, IS REQUIRED EVERY 100' MAXIMUM.  
 1.00% MINIMUM SLOPE, OR AS FIRST APPROVED BY THE CITY ENGINEER.

### MANHOLE PIPE CONNECTORS:

PVC PLASTIC PIPE CONNECTORS TO MANHOLES SHALL BE RUBBER SLEEVES W/ STAINLESS STEEL BANDING, CAST-IN RUBBER COMPRESSION GASKETS, OR FIELD INSTALLED RUBBER COMPRESSION GASKETS W/ GROUT COLLAR.

### BEDDING:

FOR PVC, USE ASTM 2321D, CLASS 1, GRANULAR MATERIAL (ODOT #8 AGGREGATE).

### BACKFILL:

PVC: USE CLEAN BEDDING MATERIALS AS INITIAL BACKFILL TO SPRING LINE; USE CLEAN HAUNCHING MATERIAL TO 12" ABOVE THE PIPE CROWN.  
 UNDER ALL PAVED AREAS, INCLUDING AN AREA 2' BEYOND THE PAVEMENT EDGES, BACKFILL ENTIRELY WITH THE SPECIFIED GRANULAR MATERIAL.

### METER:

WHERE SEWER WILL BE METERED DIRECTLY FOR BILLING, RATHER THAN BASED ON THE WATER METER, AN EFFLUENT WASTEWATER METER WILL BE SPECIFIED BY THE CITY. THE CUSTOMER SHALL PURCHASE AND INSTALL THE METER, AND THE CITY WILL PROVIDE THE ELECTRONIC READER DEVICE.

**NOTE 1:** THIS DETAIL IS VALID ONLY WHEN USED AS PRESENTED HERE, WITHOUT CHANGES, AND IN CONJUNCTION WITH ANY GENERAL NOTES AND/OR OTHER DETAILS WHICH MAY APPLY. ANY CHANGES TO THIS DETAIL SHALL FIRST BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER.

**NOTE 2:** BEFORE ANY EXCAVATING, CALL THE FOLLOWING NUMBERS AT LEAST 48 HOURS IN ADVANCE: O.U.P.S. @ (800) 362-2764 AND O.A.G.P.U.P.S. @ (800) 925-0988.

## City of Wooster : Division of Engineering

538 N. Market Street    Wooster, Ohio 44691

Phone: (330) 263-5236

Fax: (330) 263-5283

Roger Kobilarcsik, P.E.  
City Engineer

# GENERAL NOTES SANITARY SEWER

NO.	DATE	REVISION	6	01/06/15	REV. LAT. FITTING NOTE
1	10/10/01	ADDED SANITARY FORCE MAIN SPEC.S	7	01/02/17	REV. MIN. SLOPE NOTE; METER
2	9/17/04	REV. MAIN PIPE: NOTE VSP TO DUCTILE IRON PIPE			
"	"	REV. BEDDING: NOTE REMOVED SPEC. FOR VSP			
3	9/24/04	REV. LATERALS & BACKFILL: NOTE REMOVED FOR VCP			
4	7/1/12	FERNCO 5000 STRONG BACK			
5	01/06/14	REV. LAT. CONNECTION TO MH NOTE			

CAD FILE: ENGINEERING STANDARDS\GN-4.DWG				SHEET:
DRWN BY: AJM	APPRVD BY: EPO	ISSUE DATE: 11/08/00	SCALE: NONE	GN-4.0