

Ohio EPA Policy	Design Criteria; Small Diameter Gravity Sewers	
DSW-0400.006 Removed	Statutory reference: Rule reference:	Ohio EPA, Division of Surface Water Revision 0, October 1, 1988 Removed, April 30, 2003
THIS POLICY DOES NOT HAVE THE FORCE OF LAW Pursuant to Section 3745.30 of the Revised Code, this policy was reviewed and removed.		

This policy does not meet the definition of policy contained in Section 3745.30 of the Ohio Revised Code. Ohio EPA is removing this document from the Division of Surface Water Policy Manual and is considering addressing this topic in a future rulemaking.

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Design Criteria; Small Diameter Gravity Sewers

PURPOSE: To provide procedures and design criteria for small diameter sewers. To establish standards for district offices to use to achieve uniform state review of applications for permits to install.

POLICY: These guidelines are to be used when reviewing applications for permits to install small diameter gravity sewers. Also this guideline is intended to provide an interim program for approving innovative-type sanitary sewers pending development of final standards based on existing experimental systems.

Gravity sewers smaller than eight inches in diameter for public collector sewers or smaller than six inches in diameter for private collector sewers are small diameter sewers. All applications for permits to install small diameter gravity sewers shall be processed on a case-by-case basis through the central office engineering section before being approved by the director, based on the following requirements and recommendations.

- 1) The entity applying for a permit to install shall demonstrate that they will maintain the system.
- 2) Adequate inspection and maintenance equipment will be available at all times.
- 3) The design engineer shall develop and be responsible for all standards which will consider requirements in Recommended Standards for Sewage Works and the following recommendations.

<u>Parameters/ Appurtenance</u>	<u>Raw Sewage (Uniform Grade)</u>	<u>Settled Sewage</u>	
		<u>(Uniform Grade)</u>	<u>(Variable Grade)</u>
Mannings "n"	0.013	0.015	0.015
Hazen-Williams "C"	130	120	100
Minimum Velocity ft/sec (pipe flowing full)	2.0	0.5	0.5
Manholes	Per GLUMRB	At junctions	At junctions
Cleanouts	Short end stubs	Between manholes	Between manholes
Manhole Covers	Standard	Airtight	Airtight
Settling Tank Covers	N/A	Airtight	Airtight
Lift Stations	Standard	Airtight with vent to soil; "cell"; drop pipe inlet	
Settling Tank	N/A	If outlet tee riser is capped, adequate anti-siphon device should be used.	