

## ARTICLE III

### SANITARY SEWER SYSTEMS

#### TABLE OF CONTENTS

	<u>Page</u>
SECTION 301.00 GENERAL REQUIREMENTS	III-1
301.01 Conformance and Interpretation	III-1
301.02 Lateral Connections to Trunk Lines	III-1
301.03 Easements	III-1
301.04 Pipe Material Changes Between Manholes	III-1
301.05 Service Connections Outside of Rights-of-Way or Easements	III-1
301.06 Connections Between Water and Sewer Lines	III-1
SECTION 302.00 DESIGN STANDARDS	III-1
302.01 Tributary Population Consideration	III-1
302.02 Design Quantities	III-2
302.03 Hydraulic Design Criteria	III-3
302.04 Location of Sewers and Appurtenances	III-4
302.05 Manholes	III-4
302.06 Service Connections	III-5
302.07 Minimum Depth of Cover	III-5
302.08 Anchors	III-5
302.09 Grease Traps, Volatile Liquid Separators	III-6
302.10 Sewers in Relation to Streams, Estuaries, Lakes, and Reservoirs	III-6
302.11 Relationship of Sanitary Sewers and a Public Water Supply	III-7
SECTION 303.00 MATERIALS AND EQUIPMENT	III-7
303.01 Pipe Materials	III-7
303.02 Service Connections	III-9
SECTION 304.00 CONSTRUCTION STANDARDS	III-9
304.01 General Requirements	III-9
304.02 Excavation	III-9
304.03 Bedding	III-10
304.04 Backfill	III-10
304.05 Pipe Installation	III-11
304.06 Service Connections	III-11
304.07 Manholes, Precast	III-12
304.08 Pipe Connections at Manholes	III-14
304.09 Acceptance Tests	III-14

SECTION 305.00	ON-SITE WASTEWATER DISPOSAL SYSTEMS	III-20
SECTION 306.00	PRESSURE SEWER SYSTEMS	III-21
306.01	Application	III-21
306.02	Design Criteria	III-21
SECTION 307.00	TYPICAL DETAILS	III-24

## ARTICLE III

### SANITARY SEWERS

#### 301.00 GENERAL REQUIREMENTS

- 301.01 Conformance and Interpretation: Authority for discretionary provisions for sewer design shall rest with the Director of Public Works of the City of Manassas Park, who when necessary shall request and obtain the advice of the City Engineer.
- 301.02 Lateral Connections to Trunk Lines: Sewer laterals shall not be directly connected to a trunk line unless specifically approved by the Director of Public Works.
- 301.03 Easements: When deemed necessary by the Director of Public Works, and in order to assume maximum utilization of the sanitary sewer system, it will be required that appropriate easements shall be obtained for access to or extension of the sanitary sewer system.
- 301.04 Pipe Material Changes Between Manholes: There shall be no change in pipe materials from manhole to manhole, unless specifically approved in advance by the Director of Public Works.
- 301.05 Service Connections Outside of Rights-of-Way or Easements: All sewer service connections or portions of sewer service connections located outside of public road rights-of-way or sanitary sewer easements shall be privately owned and maintained.
- 301.06 Connections Between Water and Sewer Lines: There shall be no physical connection between a drinking water supply and a sewer, or appurtenance thereto.

#### 302.00 DESIGN STANDARDS

- 302.01 Tributary Population Consideration: Sewer systems shall be designed for the estimated future population contributing at the point under consideration. Consideration shall be given to domestic, commercial, institutional, and industrial wastes plus ground water infiltration in determining the capacity of the sewer system. The design shall be based on estimates of anticipated population and tributary sewage flow for a period of fifty years hence, or the entire watershed shall be assumed to be completely developed according to present or proposed zoning categories, whichever required the