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work

are required to extend sewer service, the owners shall extend the collection main longitudinal to the appropriate property line and to within five (5) feet of the furthest extremity of such property.

(Ord. of 11-19-96, Ch. VI, § VI-3)

**Sec. 22-114. Size and grade of sewers, laterals and force mains.**

The minimum size gravity sewer shall be eight (8) inches laid on a minimum of four-tenths of percent (0.4%) grade. As an exception, a six-inch sewer laid on a minimum five-tenths of one percent (0.5%) grade with a terminal cleanout may be extended under certain conditions.

Where grades exceed twenty (20) percent ductile iron pipe shall be used and anchored as required (see section 22-117). Service laterals shall be four (4) inches interior diameter. The minimum size of sewer force mains shall be four (4) inches interior diameter, except for grinder pumps.

(Ord. of 11-19-96, Ch. VI, § VI-4)

**Sec. 22-115. Slope.**

All gravity sewers shall be designed and constructed with uniform slope between manholes and to give mean velocities when flowing full of not less than two (2) feet per second, based on Manning's Formula using an "n" value of 0.013. The following are minimum slopes which shall be provided; however, slopes greater than these are desirable:

Minimum Size (inches)	8	10	12	14	15	16	18	21	24	27	30	36
Min. Slope (ft./100ft.)	0.4	0.28	0.22	0.17	0.15	0.14	0.12	0.10	0.08	0.067	0.058	0.046

(Ord. of 11-19-96, Ch. VI, § VI-5)

**Sec. 22-116. Velocity for force mains.**

For force mains at pumping capacity, a minimum self-scouring velocity of two (2) feet per second shall be maintained, unless flushing facilities are provided. A velocity of eight (8) feet per second shall not be exceeded.

(Ord. of 11-19-96, Ch. VI, § VI-6)

**Sec. 22-117. Anchoring for gravity sewers and force mains.**

Gravity sewers and force mains on twenty (20) percent slope or greater shall be anchored securely with concrete anchors or approved equal. Minimum anchorage shall be as follows:

- (1) Not over thirty-five (35) feet center-to-center on grades from twenty (20) percent to thirty-five (35) percent.
- (2) Not over twenty-four (24) feet center-to-center on grades from thirty-five (35) percent to fifty (50) percent.