

SECTION 02530 - SANITARY SEWERAGE SYSTEMS**PART 1 GENERAL****1.1 REFERENCES**

1. General: The work shall comply with the most recent standards or tentative standards as published at the date of the contract and as listed in this specification using the abbreviation shown.
2. Related Sections: Additional Sections of the Documents which are referenced in this Section include:
 - 1) Section 02080 - Utility Pipe and Materials
 - 2) Section 02085 - Valves and Cocks
 - 3) Section 02317 – Excavation, Trenching, and Backfilling for Utilities
 - 4) Section 11315 - Wastewater Pump Station

PART 2 PRODUCTS**2.1 GRAVITY SEWER**

1. Gravity Sewer Pipe 4 inch to 15 inch: Gravity sewer pipe shall be ductile iron pipe thickness Class 50 or PVC SDR 35, or Reinforced Concrete pipe in accordance with the plans and with Section 02080 – Utility Pipe and Materials. The Service Authority reserves the right to select the type of pipe material which shall be used in sewer installation from the Authority's Approved Products List. Sewers installed with 15 feet of cover or greater shall be constructed of ductile iron pipe, Thickness Class 50.
2. Gravity Sewer Pipe 18 inch to 30 inch: May be ribbed PVC in accordance with Section 02080 – Utility Pipe and Materials.
3. Gravity Sewer 21 inch to 48 inch: May be PVC I-beam profile pipe by Lamson Vylon Pipe.
4. Gravity Sewer Pipe 36 inch or larger: May be reinforced concrete pipe in accordance with Section 02080 – Utility Pipe and Materials.
5. Fittings: Tees, wyes, or other miscellaneous fittings shall be of the same material and type as the gravity sewer pipe provided.

2.2 FORCE MAIN

1. General: Pressure pipe for force main installation shall be ductile iron pipe thickness class 50. Pipe and fittings shall be in accordance with Section 02080 – Utility Pipe and Materials.
2. Fittings: Underground fittings shall be restrained, mechanical joint cement lined cast iron or ductile iron fittings except where specifically noted on plans.

2.3 MANHOLES AND STRUCTURES

1. Manhole: Manholes shall be in accordance with Section 02080 – Utility Pipe and Materials.

2.4 VALVES AND BOXES

1. Valves: Force main valves, when shown on plans, shall be plug valves in accordance with Section 02085 – Valves and Cocks.
2. Valve Boxes: Valve boxes or vaults shall be provided for all underground valves. Valve boxes shall be in accordance with Section 02080 – Utility Pipe and Materials. Valve vaults shall be precast in accordance with Section 02080 – Utility Pipe and Materials.

2.5 PUMP STATION EQUIPMENT

1. General: Pump station equipment, pumps, controls and related hardware shall be in accordance with Section 11315 - Wastewater Pump Stations.

PART 3 EXECUTION**3.1 SEPARATION OF WATER LINES AND SEWERS**

1. General: Sanitary sewer shall be separated from water lines in accordance with Section 02080 – Utility Pipe and Materials.

3.2 INSTALLATION OF PIPE, FITTINGS, AND PRECAST STRUCTURES

1. General: Installation and testing of pipe, fittings, and appurtenances shall be in accordance with Section 02080 – Utility Pipe and Materials.

END OF SECTION