

SPEC NOTE: This section includes installation of cast iron soil pipe, fittings, couplings and hangers. For use in underground and aboveground, sanitary waste, storm drainage, and vent piping in combustible and noncombustible construction.

## 1 General

### 1.1 SECTION INCLUDES

- .1 Cast Iron Soil Pipe.
- .2 Cast Iron Soil Pipe Fittings.
- .3 Mechanical Joint Couplings and Compression Gaskets.
- .4 Suspension Hangers.

### 1.2 RELATED SECTIONS

- .1 Section 02315 – Earthwork: Excavation and Fill.
- .2 Section 02530 – Utility Services: Sanitary Sewerage.
- .3 Section 07840 – Fire and Smoke Protection: Firestopping.
- .4 Section 07860 – Fire and Smoke Protection: Smoke Seals.
- .5 Section 15060 – Hangers and Supports.

### 1.3 REFERENCES

- .1 CAN/CSA-B70-12: Cast Iron Soil Pipe, Fittings, and Means of Joining.
- .2 CAN/CSA-B602-16: Mechanical Couplings for Drain, Waste, Vent Pipe and Sewer Pipe.
- .3 CAN/ULC S102.2-10 Standard method of Test for Surface Burning Characteristics of Building Materials and Assemblies

SPEC NOTE: ISO 9000-1,2,3,&4 is a recognized standard world wide. This standard gives the purchaser or end user of products or services certified to ISO the knowledge that the manufacturer or supplier will have made or distributed such products under strict controls over and above other approved standards. Products of North American manufacture have a higher quality and control process. Also, a local representative can be accessed and on top of any concerns within 24 hours with quick solutions should it be necessary. A reliable manufacturer's warranty may also be obtained.

### 1.4 QUALIFICATIONS

- .1 Use Manufacturer certified to ISO 9003 standards.
- .2 Manufacture of North American origin.
- .3 Use licensed plumber or a registered plumbing apprentice.
- .4 Demonstrate to *CONSULTANT* experience in use of these materials and system design.

## 2 Products

### 2.1 MANUFACTURERS

- .1 Bibby-Ste-Croix.
- .2 [ \_\_\_\_\_ ].

### 2.2 MATERIALS

- .1 Cast Iron.
  - .1 Grey iron class 4000.
  - .2 Uniform coating that adheres, is not brittle, and does not tend to scale.
  - .3 Of one manufacturer.
- .2 Neoprene gaskets: as manufactured by Tyler Couplings, Anaco, [ \_\_\_\_\_ ].
- .3 Stainless steel housings: Type 301, (series 2000, 2400), Type 304, (series 2700) as manufactured by Anaco, [ \_\_\_\_\_ ].
- .4 Steel: [2" to 6"], [50mm to 150mm]. [Bibby product code 66020, 66030, 66040, 66060].
- .5 Cast iron: [8" to 10"], [200mm to 250 mm], [Bibby product code 66080, 66100].
- .6 [ \_\_\_\_\_ ].

SPEC NOTE: Pipe lay lengths available in: [5'], [8'6"], [10'], [1.5m], [2.59m], [3m]. More details can be obtained from Bibby-Ste-Croix catalogue PF-04-2011. Size of pipe diameters determined by code.

2.3 COMPONENTS

- .1 Soil Pipe.
  - .1 Hubless: diameters [1-1/2" to 15"], [38mm to 375mm].
  - .2 Hub and Spigot: diameters [2" to 15"], [50mm to 375mm].
- .2 Fittings.
  - .1 Hubless: [1-1/2" to 15"], [38mm to 375mm].
  - .2 Hub and Spigot: [2" to 15"], [50mm to 375mm].
- .3 Couplings.
  - .1 Mechanical joint.
  - .2 Gasket and housing.
  - .3 Sizes [1-1/4" to 15"], [34mm to 375mm].
- .4 Bi-Seal.
  - .1 Compression gasket.
  - .2 Sizes [2" to 15"], [50mm to 375mm].
- .5 Suspension Hangers.
  - .1 Swing away: [2" to 6'], [50mm to 150mm].
  - .2 Saddle: [8" and 10"], [200mm and 250mm].

**3 Execution**

3.1 EXAMINATION

- .1 Visually inspect materials for defects prior to installation.
- .2 Reject defective material and remove from site.
- .3 Surfaces must be clean and free of foreign matter at points of joining.

SPEC NOTE: Refer to related section 02315 if trenching and backfilling to be done by contractor other than plumbing contractor.

3.2 INSTALLATION UNDERGROUND

- .1 Drain, waste, and vent lines to be cast iron pipe and fittings.
- .2 Connect with mechanical joint couplings or Bi-Seal compression gaskets.
- .3 Torque coupling connections to 55/60 inch pounds (series 2000, 2400), 80 inch pounds (series 2700, Husky).
- .4 Test as determined by code.
- .5 Trench to manufacturer's recommendations and local soil conditions.
- .6 Backfill to manufacturer's recommendations and local soil conditions.

SPEC NOTE: Support may be referred to in related section 15060.

3.3 INSTALLATION ABOVEGROUND

- .1 Drain, waste, and vent lines to be cast iron pipe and fittings.
- .2 Connect with mechanical joint couplings or Bi-Seal compression gaskets.
- .3 Torque coupling connections to 55/60 inch pounds (series 2000, 2400), 80 inch pounds (series 2700, Husky).
- .4 Support horizontal pipe runs and brace at intervals and points as recommended by the manufacturer and the local authority having jurisdiction.
- .5 Support vertical pipe stacks and assemblies and brace as recommended by the manufacturer and the local authority having jurisdiction.
- .6 Test as determined by code.

3.4 FIELD QUALITY CONTROL

- .1 Notify authority having jurisdiction to inspect at required phases.
- .2 Obtain certificates.
- .3 Submit certificates to General Contractor.

**END OF SECTION**

