
Decommissioning, Demolition and Site Restoration SSB HQ
Southside Road, St. John's, NL
Project No. R.111146.001

2021/12/01

Section 33 11 16.01 - Incoming Site Water Utility Distribution Piping

Page 1 of 3

PART 1 **GENERAL**

1.1 **RELATED SECTIONS**

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 01 74 21 - Construction / Demolition Waste Management and Disposal.
- .3 Section 01 78 00 - Closeout Submittals.
- .4 Section 22 11 18 - Domestic Water Piping Copper.

1.2 **REFERENCES**

- .1 American National Standards Institute/American Water Works Association (ANSI/AWWA)
 - .1 ANSI/AWWA C104/A21.4, Cement-Mortar Lining for Ductile-Iron Pipe and Fittings for Water.
 - .2 ANSI/AWWA C110/A21.10, Ductile Iron and Gray Iron Fittings, 3 inch through 48 inch for Water and Other Liquids.
 - .3 ANSI/AWWA C111/A21.11, Rubber Gasket Joints for Ductile-Iron and Gray-Iron Pressure Pipe and Fittings.
 - .4 ANSI/AWWA C151/A21.51, Ductile-Iron Pipe, Centrifugally Cast, for Water.
- .2 American Society for Testing and Materials International, (ASTM)
 - .1 ASTM A307, Specification for Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength.
- .3 Manufacturer's Standardization Society of the Valve and Fittings Industry
 - .1 MSS-SP-70, Cast Iron Gate Valves, Flanged and Threaded Ends.

1.3 **PRODUCT DATA**

- .1 Submit product data in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit data for following: valves, couplings, mechanical joints.

1.4 **CLOSEOUT SUBMITTALS**

- .1 Provide maintenance data for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

1.5 **WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 – Construction /Demolition Waste Management and Disposal.

Decommissioning, Demolition and Site Restoration SSB HQ
Southside Road, St. John's, NL
Project No. R.111146.001

2021/12/01

Section 33 11 16.01 - Incoming Site Water Utility Distribution Piping

Page 2 of 3

- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard, packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
- .4 Divert unused metal and wiring materials from landfill to metal recycling facility approved by Departmental Representative.

PART 2 **PRODUCTS**

2.1 **PIPE**

- .1 Service water pipe: ductile iron cement mortar lined from 1 m outside of building or as indicated to:
 - .1 Ductile iron: ANSI/AWWA C151/A21.51.
 - .2 Cement mortar lining for ductile iron pipe: to ANSI/AWWA C104/A21.4.

2.2 **FITTINGS**

- .1 NPS 3 and larger mechanical joints or flanged: to ANSI/AWWA C110/A21.10.

2.3 **JOINTS**

- .1 Rubber gaskets for mechanical joints or flanges: to ANSI/AWWA C111/A21.11.
- .2 Bolts, nuts, hex head with washers: to ASTM A307, heavy series.

2.4 **GATE VALVES**

- .1 Rising stem: to MSS SP-70, class 125, 860 kPa, flat flange faces, cast-iron body, bronze trim, bolted bonnet.

PART 3 **EXECUTION**

3.1 **INSTALLATION**

- .1 Install in accordance with Canadian Plumbing Code and local authority having jurisdiction.
- .2 Piping cut square, reamed, free of cuttings and foreign material.
- .3 Minimum depth of bury: 1500 mm.

Decommissioning, Demolition and Site Restoration SSB HQ
Southside Road, St. John's, NL
Project No. R.111146.001

2021/12/01

Section 33 11 16.01 - Incoming Site Water Utility Distribution Piping

Page 3 of 3

- .4 Lay buried piping in compacted washed sand in accordance with AWWA Class "B" bedding. Where existing ground below bedding is unstable, install pipe on continuous concrete support.
- .5 Where piping enters building, provide support, and seal with modular link type seal with sleeve against ingress of moisture; to approval of authority having jurisdiction.
- .6 Assemble piping using fittings manufactured to ANSI standards and in accordance with manufacturer's instructions.
- .7 Apply one layer of protective coating to buried piping.

3.2 PRESSURE TESTING

- .1 Submit reports for inclusion into Commissioning Manuals.

3.3 DISINFECTION

- .1 Coordinate with Section 22 11 18- Domestic Water Piping Copper.
- .2 Submit bacteriological reports for inclusion into Commissioning Manuals.

END OF SECTION