

---

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

---

2021/12/01

Section 33 65 48 – Telethermics – Underground Hydronic Piping - Plastic Page 1 of 2

---

**PART 1**      **GENERAL**

**1.1**            **REFERENCE STANDARDS**

- .1 Do the work in accordance with Canadian Plumbing Code and local authority having jurisdiction except where specified otherwise.

**1.2**            **SHOP DRAWINGS**

- .1 Submit shop drawings in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Indicate dimensions, RSI-values, construction details and materials for the following:
  - .1 All piping and fittings.

**1.3**            **PRODUCT DATA**

- .1 Submit product data in accordance with Section 01 33 00 – Submittal Procedures.

**1.4**            **MAINTENANCE DATA**

- .1 Provide maintenance data for incorporation into manual specified in Section 01 33 00 – Submittal Procedures.
- .2 Data to include:
  - .1 Description of plumbing specialties and accessories, giving manufacturers name, type, model, year and capacity.
  - .2 Details of operation, servicing and maintenance.
  - .3 Recommended spare parts list.

**PART 2**      **PRODUCTS**

**2.1**            **EXTERIOR BURIED UNDERGROUND HYDRONIC PIPING**

- .1 General: Piping to be flexible corrosion proof plastic pre-insulated with outer jacket.
- .2 Carrier Pipe: Dual cross linked PEX pipes suitable for temperatures up to 96°C.
- .3 Insulation: Insulation to be factory applied closed cell polyurethane at a thickness of 32 mm.
- .4 Jacket: The outer protective jacket to be corrugated seamless polyethylene completely encompassing the insulation and providing a moisture barrier designed for H-20 loading at a burial depth of only 600 mm.
- .5 Fittings: All fittings to be by the same manufacturer as the piping system. Fittings to be brass and installed in accordance with manufacturers instructions.

---

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

2021/12/01      Section 33 65 48 – Telethermics – Underground Hydronic Piping - Plastic    Page 2 of 2

---

- .6      End Seals: All exposed insulation ends to be sealed with polyethylene end seals.

**PART 3**      **EXECUTION**

**3.1**      **INSTALLATION**

- .1      Install all piping, fittings, valves and specialties in accordance with the manufacturer's recommendations.
- .2      Test all piping to 1.5 times working pressure prior to burial.
- .3      Backfill in accordance with manufacturers instructions.

**END OF SECTION**