

PART 1 - GENERAL

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| <u>1.1 RELATED WORK</u>         | .1 | Section 31 23 10 - Excavating, Trenching and Backfilling - Excavation and Backfilling.    |
| <u>1.2 SCOPE OF WORK</u>        | .1 | Provide conduit system for all wirings as detailed or required.                           |
| <u>1.3 PERFORMANCE CRITERIA</u> | .1 | Install conduit system in accordance with CSA C22.1.                                      |
| <u>1.4 LOCATION OF CONDUIT</u>  | .1 | Drawings do not indicate all conduit runs. Those indicated are in diagrammatic form only. |
| <u>1.5 MINIMUM SIZE CONDUIT</u> | .1 | The minimum size conduit used on this project shall be 27 mm, unless noted otherwise.     |

PART 2 - PRODUCTS

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| <u>2.1 CONDUITS</u>           | .1 | Rigid PVC conduit.  |
|                               | .2 | Liquid tight flexible metal conduit as indicated on drawings.   |
| <u>2.2 CONDUIT FASTENINGS</u> | .1 | Two (2) hole hot-dipped galvanized steel straps to secure surface conduits and armoured cable 50 mm and smaller. Two (2) hole hot-dipped galvanized steel straps for conduits and armoured cable larger than 50 mm. Secure conduits and armoured cable with conduit clamps spaced at intervals not exceeding 1500 mm on centre. Use hot-dipped galvanized steel straps for securing epoxy coated rigid steel conduit. |

Two (2) hole PVC straps for securing PVC conduit size according to manufacturer's recommendations.

2.3 CONDUIT FITTINGS

- .1 Fittings: Manufactured for use with conduit specified. Coating: same as conduit.
- .2 Factory "ells" where 90o bends are required for 1½" and larger conduits or where shown on drawings.
- .3 Rigid PVC couplings, reducers, bell end fittings, plugs, caps, adaptors as required to make complete installation.
- .4 Flexible PVC conduit and waterproof fittings as indicated on drawings.
- .5 Rigid steel couplings, reducers, bellend fittings, plugs, caps, adapters as required to make complete installation.

2.4 FISH CORD

- .1 Polypropylene.

2.5 SOLVENT  
WELD COMPOUND

- .1 Solvent weld compound for PVC conduit joints.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Use PVC conduit for all wiring, except where indicated otherwise on drawings.
- .2 Dry conduits out before installing wire.
- .3 Bend conduit cold. Replace conduit if kinked or flattened more than 1/10th of its original diameter.

- .4 Replace armoured cable if armoured jacket is broken, fatigued, or if outer jacket is stripped or damaged.
- .5 Install fish cord in empty conduits.
- .6 Where conduits become blocked, remove and replace blocked section.
- .7 Run parallel or perpendicular to wharf lines.
- .8 Do not pass conduits through structural members, except as indicated.
- .9 Conduit run in concrete deck to be run between reinforcing bars.