

PART 1 - GENERAL

- 1.1 RELATED DOCUMENTS
- .1 Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- 1.2 LOCATION OF CONDUIT
- .1 Drawings show all conduits in their approximate locations only.
- 1.2 APPROVALS, CODES AND PERMITS
- .1 All work shall be done in accordance with latest edition of the Canadian Electrical Code C22.1-2018.
- .2 Contractor shall present the drawings to the Electrical Inspection Authority for approval and obtain a permit before starting work.
- .3 Notify the Departmental Representative of any changes required before proceeding.

PART 2 - PRODUCTS

- 2.1 CONDUIT
- .1 Liquid tight flexible conduit to CSA C22.2 No. 56. To be used for final connection to lighting fixtures.
- .2 Rigid PVC conduit: to CSA C22.2 No. 211.2. To be used below grade unless noted otherwise.
- .3 Rigid PVC conduit: to CSA C22.2 No. 211.2 to be used on new wooden poles as indicated.
- .4 Rigid PVC conduit: to CSA C22.2 No. 211.2 to be used on underside of concrete deck as indicated.
- .5 Epoxy coated conduit: to CSA C22.2 No. 45 with zinc coating and corrosion resistant epoxy finish inside and outside. To be

used for electrical service. See drawing details.

2.2 CONDUIT FASTENINGS

- .1 One hole PVC straps to secure surface conduits 50 mm and smaller. Two hole PVC straps for conduits larger than 50 mm.
- .2 Beam clamps to secure conduits to exposed steel work.
- .3 Channel type supports for two or more conduits at 1 m oc.
- .4 Threaded rods, 6 mm dia., to support suspended channels.
- .5 Hangers at u/s of concrete deck/caps as per Civil drawings.

2.3 CONDUIT FITTINGS

- .1 Fittings for raceways: to CSA C22.2 No. 18-M1987.
- .2 Factory 90° bends are required for 25 mm and larger conduits.
- .3 Fittings manufactured for use with conduit specified, approved for encasement in slab.

2.4 EXPANSION FITTINGS FOR RIGID CONDUIT

- .1 Weatherproof expansion fittings with internal bonding jumper suitable for linear expansion and 19mm deflection in all directions as required.
- .2 Watertight expansion fittings with integral bonding jumper suitable for linear expansion and 19mm deflection in all directions as required.
- .3 Weatherproof expansion fittings for linear expansion at entry to panel as required.

2.5 FISH CORD

- .1 6mm stranded nylon pull rope tensile strength 5 KN.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Install conduit in centre one-third of concrete slab in location as shown for conduits in deck.
- .2 Ensure conduit has a minimum concrete cover of 35 mm all around except where noted otherwise on drawings.
- .3 Place conduit between mats of steel and secure in position with tye wire.
- .4 Install sleeves where conduits pass through timber.
- .5 Install junction boxes for lighting on sides of poles in locations shown. Secure in place and fill with packing to be removed after concrete is placed.
- .6 Ensure system is intact and clear after concrete is poured. Remove and replace any blocked conduit.
- .7 Install pull rope in empty conduit before pouring concrete.
- .8 Swab conduits when system is complete.
- .9 Dry conduits out before installing wire.
- .10 Install rigid PVC conduit except where noted otherwise on drawings.
- .11 Install surface mounted rigid PVC conduit in electrical shed.