

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 C22.1-2021.

.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 jib cranes as indicated.

.4 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.

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 Polypropylene.

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 jib crane and wooden 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 epoxy coated rigid galvanized steel conduit for electrical service as indicated.
- .12 Install surface mounted rigid PVC conduit in shed.