

PART 1 - GENERAL

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| <u>1.1 Related Sections</u> | .1 | Section 31 23 33 01 - Excavating, Trenching and Backfilling. |
| | .2 | Section 26 05 00 - Common Work Results - Electrical. |
| <u>1.2 References</u> | .1 | Canadian Standards Association, (CSA International) |
| | .2 | Insulated Cable Engineers Association, Inc. (ICEA) |
| <u>1.3 Waste Management and Disposal</u> | .1 | Separate and recycle waste materials in accordance with Sthe General Contractor's Waste Management And Disposal plan. |
| | .2 | Remove from site and dispose of all packaging materials at appropriate recycling facilities. |
| | .3 | Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard and packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan. |
| | .4 | Unused sealant material must not be disposed of into sewer system, into streams, lakes, onto ground or in other location where it will pose health or environmental hazard. |
| | .5 | Divert unused metal and wiring materials from landfill to metal recycling facility as approved by Engineer. |
| | .6 | Do not dispose of preservative treated wood through incineration. |
| | .7 | Do not dispose of preservative treated wood with other materials destined for recycling or reuse. |
| | .8 | Dispose of treated wood, end pieces, wood scraps and sawdust at sanitary landfill approved by Engineer. |
| | .9 | Fold up metal banding, flatten and place in designated area for recycling. |

PART 2 - PRODUCTS

PART 3 - EXECUTION

3.1 CABLE INSTALLATION IN DUCTS

- .1 Install cables as indicated in ducts.
 - .1 Do not pull spliced cables inside ducts.
- .2 Install multiple cables in duct simultaneously.
- .3 Use CSA approved lubricants of type compatible with cable jacket to reduce pulling tension.
- .4 To facilitate matching of colour coded multiconductor control cables reel off in same direction during installation.
- .5 Before pulling cable into ducts and until cables are properly terminated, seal ends of lead covered cables with wiping solder; seal ends of non-leaded cables with moisture seal tape.
- .6 After installation of cables, seal duct ends with duct sealing compound.

3.2 FIELD QUALITY CONTROL

- .1 Perform tests in accordance with Section 26 05 00 - Common Work Results - Electrical.
- .2 Perform tests using qualified personnel. Provide necessary instruments and equipment.
- .3 Check phase rotation and identify each phase conductor of each feeder.
- .4 Check each feeder for continuity, short circuits and grounds. Ensure resistance to ground of circuits is not less than 50 megohms.
- .5 Pre-acceptance tests.
 - .1 After installing cable but before splicing and terminating, perform insulation resistance test with 1000 V megger on each phase conductor.
 - .2 Check insulation resistance after each splice and/or termination to ensure that cable system is ready for acceptance testing.
- .6 Provide Engineer with list of test results showing location at which each test was made, circuit tested and result of each test.
- .7 Remove and replace entire length of cable if cable fails to meet any of test criteria.