

PART 1 - GENERAL

PART 2 - PRODUCTS

- 2.1 Equipment
- .1 System and circuit, equipment, grounding conductors, bare stranded copper, un- tinned, soft annealed, size as indicated.
 - .2 Insulated grounding conductors: green, type RW 90.
 - .3 Non-corroding accessories necessary for grounding system, type, size, material as indicated, including but not necessarily limited to:
 - .1 Grounding and bonding bushings.
 - .2 Protective type clamps.
 - .3 Bolted type conductor connectors.
 - .4 Thermit welded type conductor connectors.
 - .5 Bonding jumpers, straps.
 - .6 Pressure wire connectors.

PART 3 - EXECUTION

- 3.1 Installation General
- .1 Install complete permanent, continuous, system and circuit, equipment, grounding systems including, electrodes, conductors, connectors, accessories, as indicated, to conform to requirements of Departmental Representative, and local authority having jurisdiction over installation. Where EMT is used, run separate ground wire in conduit.
 - .2 Install connectors in accordance with manufacturer's instructions.
 - .3 Protect exposed grounding conductors from mechanical injury.
 - .4 Use mechanical connectors for grounding connections to equipment provided with lugs.
 - .5 Soldered joints not permitted.

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| <u>3.1 Installation
General
(Cont'd)</u> | .6 | Install an integral bonding wire in all flexible conduit, connected at both ends to grounding bushing, solderless lug, clamp or cup washer and screw. |
| | .7 | Make connections to ground bar(s) and to ground bus in service board as shown on drawings. |
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| <u>3.2 System and
Circuit Grounding</u> | .1 | Install system and circuit grounding connections to neutrals of the secondary 600/347 V and 120/208 V systems. |
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| <u>3.3 Equipment
Grounding</u> | .1 | Install grounding connections to typical equipment included in, but not necessarily limited to following list. Service equipment, transformers, switchgear, distribution panels and outdoor lighting. |
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| <u>3.4 Field Quality
Control</u> | .1 | Perform tests in accordance with Common Works Results Electrical section. |
| | .2 | Perform ground continuity and resistance tests using method appropriate to site conditions and to approval of Departmental Representative and local authority having jurisdiction over installation. |
| | .3 | Perform tests before energizing electrical system. |