



SECTION 707

CONDUIT SYSTEM ON STRUCTURE

707.1 Description. This work shall consist of furnishing and placing all material and equipment and performing all work necessary to create a complete conduit system as shown on the plans.

707.2 Material. All material shall be in accordance with Division 1000, Material Details, and specifically as follows:

Item	Section
Electrical Conduit	1060
Pull and Junction Boxes	1062

707.3 Construction Requirements.

707.3.1 Conduit systems shall be free from corrosion, restrictions, sharp edges and debris. The ends of conduit runs shall be protected by bushings and shall be temporarily capped if conductor cable is not installed immediately. Conduit shall be rigidly held in place to prevent misalignment during placement of concrete. Reinforcing bars shall not be cut, bent, displaced or otherwise altered unless authorized by the engineer. All joints shall be rigid and waterproof. A 1/2-inch (13 mm) diameter drain hole in all low points of conduits and junction boxes where exposed and a 1/2-inch (13 mm) rigid steel conduit drop from the low point if the conduit and junction boxes are encased in concrete, shall be provided for drainage of water. Exposed ends of such drains shall be covered with either a commercial bronze or a stainless steel insect screen having an open area between 60 percent and 70 percent, held in place with a conduit bushing.

707.3.2 After placing concrete, the conduit around which the concrete is placed shall be tested by the contractor, in the presence of the engineer, for continuity and freedom from obstruction by pulling a steel ball through the entire length. The steel ball shall have a diameter 1/2 inch (13 mm) smaller than the inside diameter of the conduit being tested. Galvanized pullwires shall be installed in conduit for pulling wiring by others.

707.3.3 Junction box covers shall have a waterproof seal securely fastened in place. Junction boxes shall be drilled and tapped for all conduit connections.

707.4 Method of Measurement. The work provided herein will not be measured for payment, but will be considered a lump sum unit.

707.5 Basis of Payment. The accepted conduit system on structure will be paid for at the contract lump sum price.