

**Question:**

"The specs seem to indicate that the conduit containing the cables will be inserted into another conduit then foam filled, with the outside conduit being concrete encased."

"Is this correct for the entire duct bank?"

**Answer:**

The technique described is only to be used where new conduits are installed under existing PCC pavement. The exact sequence is:

- a. Directional drilling for the new casing and conduit
- b. Install the outer casing
- c. Install the inner conduit
- d. Install grout between the outer casing and inner conduit

Where the plans call for concrete encased conduits in bituminous shoulders and turf locations, this technique is not required. New conduits in bituminous shoulders and turf locations will be installed as described in Specification Section 16526A, paragraphs 3.4.1, 3.4.2, 3.4.3, and 3.4.4.

For additional information on concrete encased conduit installed by horizontal directional drilling, see the following:

Specification Section 16526A, Paragraph 3.4.5 *Duct Installation by Horizontal Directional Drilling*, on page 19, begins the description for the process of installing ducts by horizontal directional drilling.

Paragraph 3.4.5.2 *Construction - Concrete Encased Conduit*, on page 20 begins the description for concrete encased ducts installed by horizontal directional drilling. The procedure describes installing a schedule 80 PVC casing by horizontal directional drilling, pulling 2-inch PVC conduits inside the casing as indicated on the plans, and filling the space between the 2-inch conduit and the schedule 80 PVC casing inner wall with cementitious grout. The result is 2-inch PVC conduits encased in concrete (grout) inside the schedule 80 PVC casing.

For an example of when this method applies, please refer to the following locations:

Plan sheet #74, note #3, for the conduit crossing the Taxiway Echo Hold Apron, along the West Runway west edge;

Plan sheet #75, note #2, for the conduit to a semiflush fixture located at sta. 100+00 along the west edge of the West Runway;

Plan sheet #76, note #3 does not apply, since conduits are to be installed by conventional concrete encasing when taxiway pavement is reconstructed at this location.