

SECTION 16741

COMMUNICATION DISTRIBUTION SYSTEM

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Wiring paths for communication and technology systems.
- B. Voice/Data wall boxes with conduit stubs.
- C. TV Coax outlet wall boxes with conduit stubs & cable pulled in
- D. Backboards
- E. Interior raceways and junction boxes for system indicated.
- F. Arrange J-Hooks to allow that all cable bundles be limited to a maximum of 12 cables, individual bundles of cables shall be separated by at least 2 inches in all directions.
- G. Where space above the ceiling is used as an air plenum, wiring methods shall be approved for use in an air plenum.

1.02 RELATED SECTIONS

- A. Section 16010: Basic Electrical Requirements.

1.03 SUBMITTALS

- A. NONE

1.04 PROJECT RECORD DOCUMENTS

- A. Accurately record actual locations and mounting heights of outlets if not as shown on Drawings, plus pull and junction boxes larger than 12x12x6 inches, backboard.

1.05 PROJECT CONDITIONS

- A. The intent of this section is to provide wiring paths to allow for Owner furnished voice, data work.
- B. Intent is to use cable tray and J-hooks to manage voice, data, AV and other communications wiring.
- C. Provide & install quantities of J-hooks as required to manage & support all wiring from each device outlet, home run to nearest rack and backboard.
- D. Verify locations of wall boxes and outlets in all finished walls prior to rough-in.
- E. Electrical boxes are shown on Drawings in approximate locations unless dimensioned. Install at location required for box to serve intended purpose.

PART 2 - PRODUCTS

2.01 BACKBOARDS

- A. Provide where indicated as backboards on drawing riser and plans.
- B. Material: APA Plywood Grade AC.
- C. Size: 3/4 inch thick, sized as shown on Drawings. Mount on 2x4 stud standoffs to allow wiring to pass behind the backboards.
- D. Paint all sides two coats Dark Gray.
- E. At each backboard, Provide copper ground wire and terminate with appropriate ground bus.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces are ready to receive work.
- B. Verify that building is watertight before start of installation. Do not install until building is water-tight.

3.02 INSTALLATION

- A. Properly support raceways, backboards. Coordinate with Section 06100 - Rough Carpentry to provide blocking as required.
- B. Provide wiring path from each wall box to an accessible space above ceiling that has a direct concealed accessible path to the designated destination. Use J-Hooks for routing. See detail on drawing.
- C. Install clamps, hangers, and other miscellaneous hardware to structural steel, joists and girders.
- D. Install polyethylene pulling string in each empty conduit.
- E. Install all flush wall boxes, vertical & plumb.
- F. J-hooks Shall Be Used Solely to: Manage & support voice, data, AV and other communications wiring.
- G. J-Hooks are not shown on the drawings. Locate as herein indicated and as required to provide a continuous path from each device to the nearest cable tray. Intent is to provide continuous wiring path from each voice/data outlet to the nearest Voice/Data closet or backboard.
 - 1. Maximum of 12 cables per J-hooks run. Provide multiple rows of J-hooks to allow paths for all devices shown.

END OF SECTION