Quick Guide – Standards For Conduit Installation to a Single Outlet Location (¼” & 1¼”)

Conduit Size

- Unless otherwise noted, a single camera or single wireless access point can be a ¼” conduit.
- Service to any other station cable endpoints with up to 8 cables requires 1¼” conduit.

Conduit at the Outlet Box

- Telecommunications outlet boxes should never be daisy-chained or mounted back-to-back using a common feeder conduit.

Conduits In Telecommunications Rooms

- Conduits that protrude through the floor of the TR need to extend 3-inches above the floor surface.
- Conduit must not be routed across the backboards.

Conduit Install Details

- All conduits will be home run back to a Cable Tray, Pull Box, or Telecommunications Room.
- All conduits shall be continuously bonded back to the TGBB in the TR/ER.
- All conduit terminations will be equipped with bushings.
- Conduits runs for horizontal cabling shall not be installed below a building’s slab, however they may be installed within the slab.
- The recommended 90-degree bend radius for conduit is 6 times the internal diameter of the conduit.

Pull Boxes

- Install pull boxes as required in conduit runs so that the distance between pull points is less than 100 feet.
- Install pull boxes in conduit runs so that a run of conduit does not contain more than the equivalent of two (2) ninety degree bends (180 degrees total) between pull points.
- Install pull boxes only in straight sections of conduit, not in lieu of a bend.
- Each conduit entering and exiting a pullbox shall be in direct alignment.
- Pullboxes shall not be installed in restrooms, locker rooms or other similar facilities.
- Pullboxes shall not be located in floors.
- For a pullbox on a conduit serving a single outlet, a 4 11/16 box, 2 1/8 deep, is allowable.

Other Requirements

- No cable hangers (J-Hooks, Bridle Rings, Bat Wings, Etc.) will be used.
- Do not use Condulet type fittings (LB, LL, LR, etc.) for directional changes in runs of telecommunications conduit.
- Condulet type fittings (C Style) may be used as inline pull points in runs of telecommunications conduit up to 1¼”.
- Do not use reducers in runs of telecommunications conduit.
- Install pull cords in all conduit.

CSU, Chico Telecommunications Specifications, Standards, & Guidelines are available online at: www.csuchico.edu/telecom