Conduit Size

- Service to any outdoor location where the conduit passes underground, requires a minimum of 1 ¼” conduit.

Conduit Install Details

- All conduits will be home run back to existing underground, or into a building to a Cable Tray or Telecommunications Room.
- The minimum 90-degree bend radius for conduit is 6 times the internal diameter of the conduit.
- Conduits entering a Vault must enter the body of the vault. Conduits must never enter the Traffic Ring.
- Conduits must maintain a 12” separation from other conduits (Electrical, Gas, Etc.).
- For a conduit that is placed 12” deep, detectable tape is to be placed at 8” deep.
- Install pull cords in all conduit. When pulling cable in conduit install a pull cord with the cable so additional cable can be installed later if needed.
- When adding cable, add to occupied conduits with available space before using an empty conduit.

Grounding Details

- All handholes serving as an endpoint shall have a 3/8” ground rod.
- Ground rod should be 4’ long, and are to be driven into the ground leaving 4” above ground.
- Ground rods must connect to the existing grounding infrastructure in the vault system with a #6 copper ground conductor.

Handhole Specific Details

- Handholes may be used only when the maximum number of conduits on that route is never expected to exceed a single 2” conduit.
- Handhole cover shall be labeled “SIGNAL” or “COMMUNICATIONS”.
- Install Handholes as required in conduit runs so that the distance between pull points is less than 200 feet.
- Install Handholes 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 Handholes only in straight sections of conduit, not in lieu of a bend.
- Each conduit entering and exiting a handhole shall be in direct alignment.
- Conduits terminating in a handhole shall end 4” below the base of the cover.
- Electrical service is not to be added to a telcom handhole.