

New Construction Site Guidelines

In order for a successful installation of telecommunications service to your new location, Telecom One and our associated service providers are asking that you comply with the following requests. This document provides general guidelines only.

Conduit

- The customer must provide a conduit equipped with a pull string for the cable between the manhole or property line and the equipment room.
- All conduit/inner-duct used must pass National Electric Code and all city codes. Specifications are site specific.

Hand Holes

- If the hand hole is on customer property, the customer is responsible to address any work; if the hand hole is in the right of way, it will be the service provider's responsibility.
- The customer is responsible for all locates of power, sprinkling systems, etc. buried on their property.
- Customer is responsible for all inner-building and riser conduit.
- If there is a need to extend cable to an Alternate Point of Presence, the customer is responsible for the support structure, conduit, cable trough etc.

Entrance Facilities

- The customer will supply the access (drill hole in the wall, if necessary for conduit, and have conduit or sleeve placed) for the placement of the cable/fiber.
- The customer is to provide conduit from their property line, through the outside building wall, and to the equipment room point of demarcation. It is recommended that cable be buried a minimum of 36" below ground level.

Aerial Solutions

- From time to time it may be advantageous to attach cable to poles (aerial) as opposed to burying cable, once all buried considerations have been exhausted.
- Generally pole lines are owned by the power companies. Associated costs could be levied by the power companies for the pole connections.

Cabling Beyond Demarcation

- Service provider is responsible for cable connecting to the FDP, relay rack / cabinet and DSX jack and any necessary cable trays and connection blocks.
- The customer is responsible for the connection from the DSX jack to their equipment interface, including cable trays and connection blocks. DSX3 jack requires BNC connectors.
- If an Optical handoff is provided the DEMARC will be at an FDP, requiring FC connectors.

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Environment

- The customer will provide a suitable environment for the equipment.
- Nominal temperature range is 60 to 80 degrees Fahrenheit.
- Nominal humidity range is 20 to 80 percent non-condensing.
- A dust-free environment & air-conditioned room.
- A 20% minimum of outside air for proper ventilation of the battery areas.
- Adequate lighting is required.

Space within a Cabinet

- It may be preferred to place an equipment cabinet at a customer premises. Provide space for one equipment cabinet, to be placed in a location that allows the doors to be opened on both sides.
- Typical size is approximately 30" wide x 36" deep x 84" tall [with wheels].

Space within a Relay Rack

- If space is limited and it is determined on the site visit to place the equipment in a relay rack, the relay rack will be provided.
- The customer will provide adequate floor space for an equipment relay rack in a location that allows access on both sides for maintenance.

Space for Wall Mount Equipment

The customer will provide adequate space on the wall for the mounting of equipment which would be necessary for the proper installation of the service requested.

Plywood Backboard

- The customer will provide adequate space on the wall for the mounting of equipment and distribution panels. This requirement is usually one 4' X 6-8' X ¾" sheet of plywood backboard [preferably fire retardant] mounted on the wall.
- The customer will mount the backboard so that the top portion is slightly above 7' to enable the anchoring of the top of the relay rack / cabinet, if provided, to the backboard.

AC Power

- The power supply in the provided equipment configuration determines the receptacle that the customer needs to provide. Circuits must be dedicated for our equipment use only.
- Raised floor computer rooms – Customer must provide a cut out in the floor tile for the power cords if the Power Receptacle is located under the floor.
- Normal Flooring – Wall receptacle close to top of relay rack / cabinet.
- Overhead racking: Power receptacle just under the racking next to either the relay rack or cabinet.

Grounding

Customer will provide the necessary grounding to an NEC approved ground source and number 6 solid copper ground wire from the grounding source to the equipment location.

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DMARC Customer Interfaces

- DS-1 Handoff is on a DSX-1 Panel; the customer is required to provide relay rack space, or backboard for a wall mount panel.
- DS-3 handoff is BNC connectors on coax at DSX3 panel; the customer is required to provide relay rack space, or backboard for a wall mount panel.
- OC-N optical handoff is FC connectors on an FDP.
- Customer must provide all jumpers with required connectors for handoff to their own equipment. Verify vendor equipment specifications for connector requirements.

Access

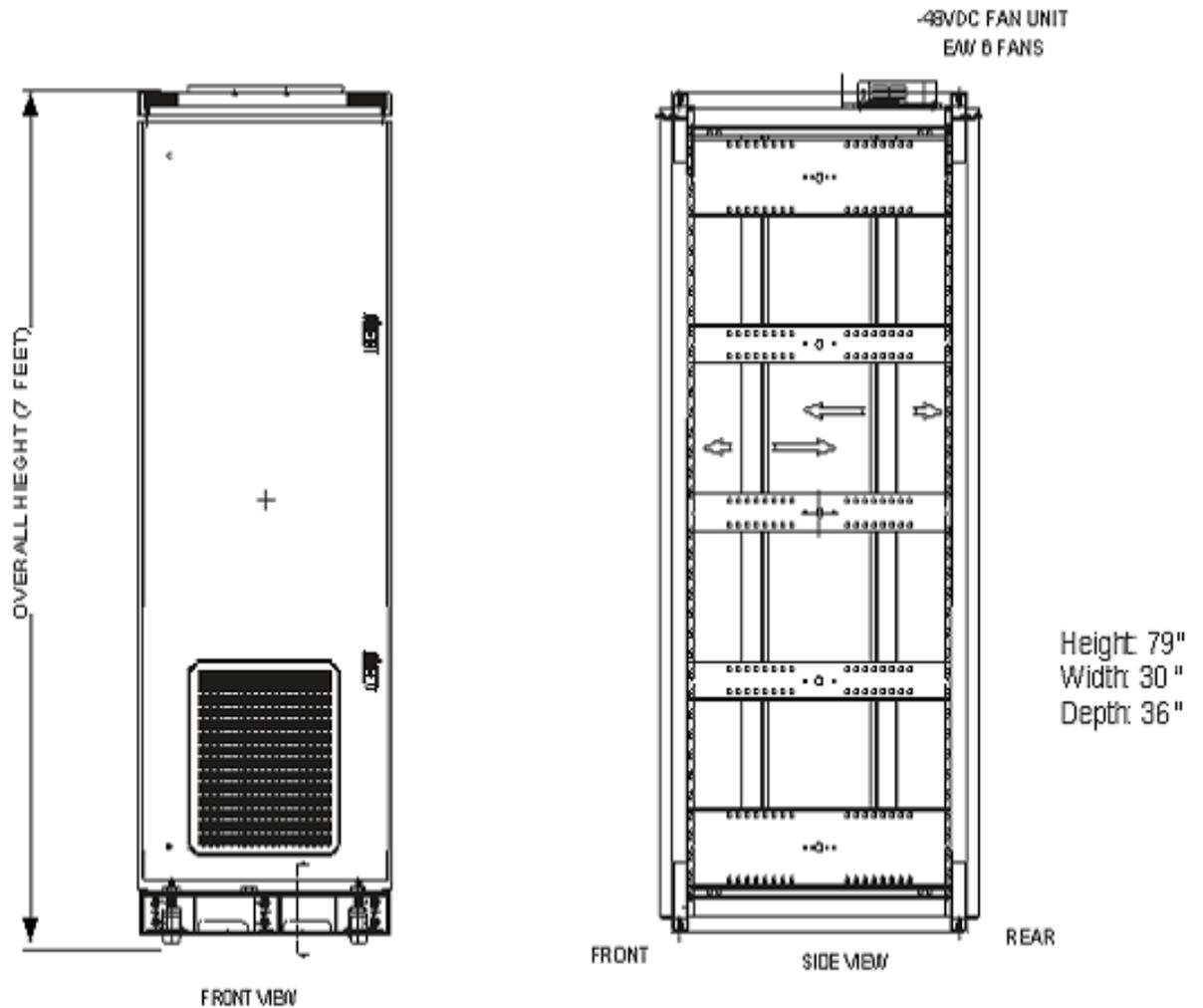
Access is required 24 hours a day, 7 days a week. A 24-hour contact number will be requested and used in the event of an emergency or service affecting condition. The equipment relay rack / cabinet space should be secure allowing only limited access.

Other

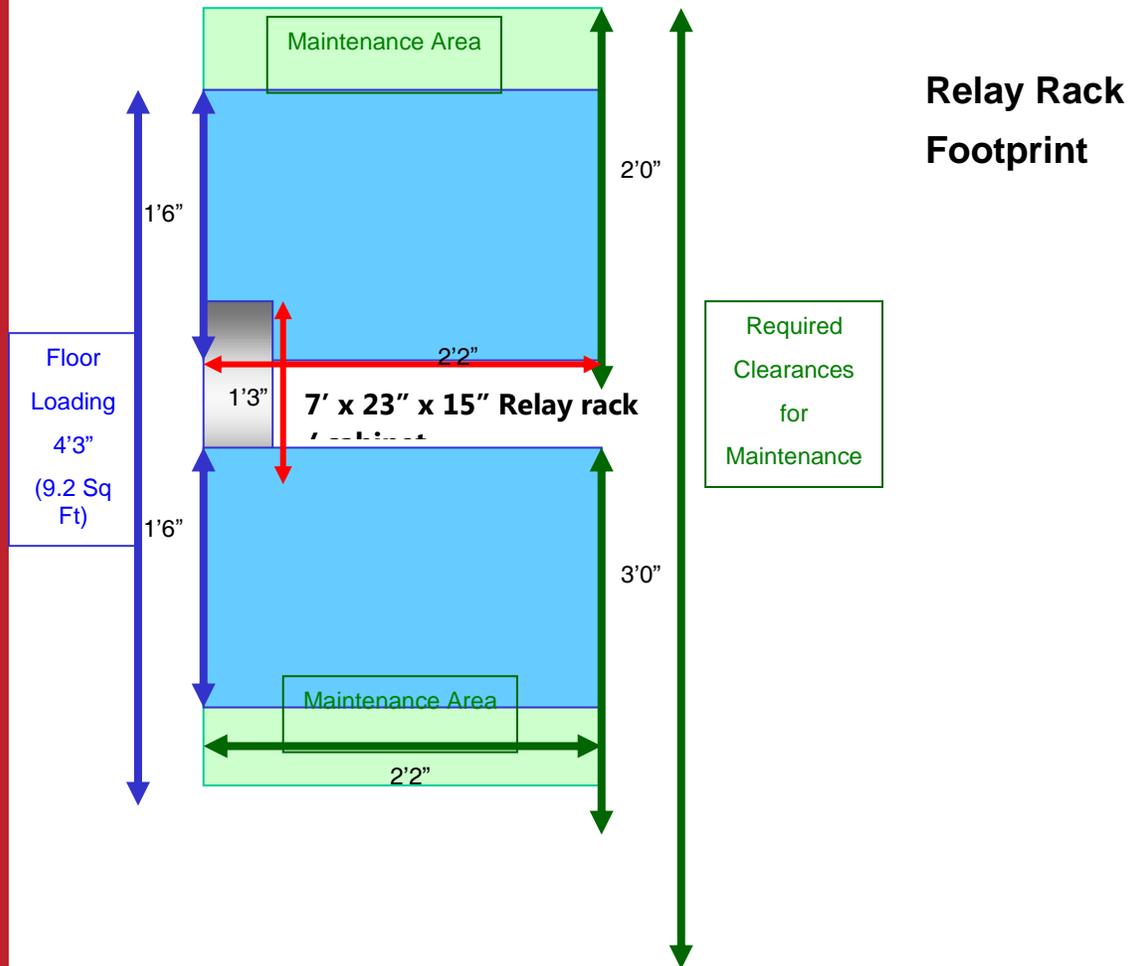
Customer responsibilities must meet telecommunications industry quality standards. If there are any questions, please check with Telecom One to avoid rework or quality issues during the equipment installation.

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Pentair Cabinet Dimensions Side View



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Typical Room Layout for Wall Mounted Cabinet

