HIGH-RISE METERING & MULTI-FLOOR INFRASTRUCTURE REQUIREMENTS

"High-Rise" is defined as a building larger than three floors

● Meter rooms located inside shall be approved by NES Meter Section during the design phase or be located outside.

● All residential meter centers shall be modular grouped installations with individual breakers and listed on the "approved" meter base list in the Electric Service Guidelines (https://www.nespower.com/builders-and-developers/ **Electric Service Guidelines**). If the equipment being installed is not listed in the "approved" meter base list, please contact NES Meter Section for approval (615-747-3805).

● Meter base sockets must have sufficient front and side clearance for Meter personnel to maintenance metering equipment. Electric meter rooms shall be dedicated for electrical use ONLY. Communications and/or other utilities must be in a separate room.

● A key box (for specifications please refer to NES Electric Service Guideline) shall be installed at ALL doors where electric meters are present. There shall be an engraved placard installed at each meter room location stating, "ELECTRICAL ROOM XX".

● Meter personnel must be able to access building 24/7. If a concierge is not on site 24 hrs./day, a key (or key fob) must be provided to NES before all meters are energized.

● Customer shall install a 3' x 3' plywood near the 4" conduit in the top meter room (Detail A & B) for flat roof installations. For gable roof installations, the plywood shall be installed in the bottom floor. A 110VAC receptacle shall be installed near the 3' x 3' plywood.

● Meter rooms shall have a fire stop plug (Hilti "*Speed Sleeve"*, 3M Fire Stop Plug, STI Firestop, etc.) in the conduit openings in the "ground" and "top" meter rooms.

● Conduit shall be continuous through all floors (Detail A & B) and terminate in the ground & top meter rooms ONLY

● All conduits shall have no more than 360 of cumulative turn for one vertical stack of meter rooms (Detail B). 90 elbows shall be long sweep. LBs WILL NOT BE ACCEPTED.

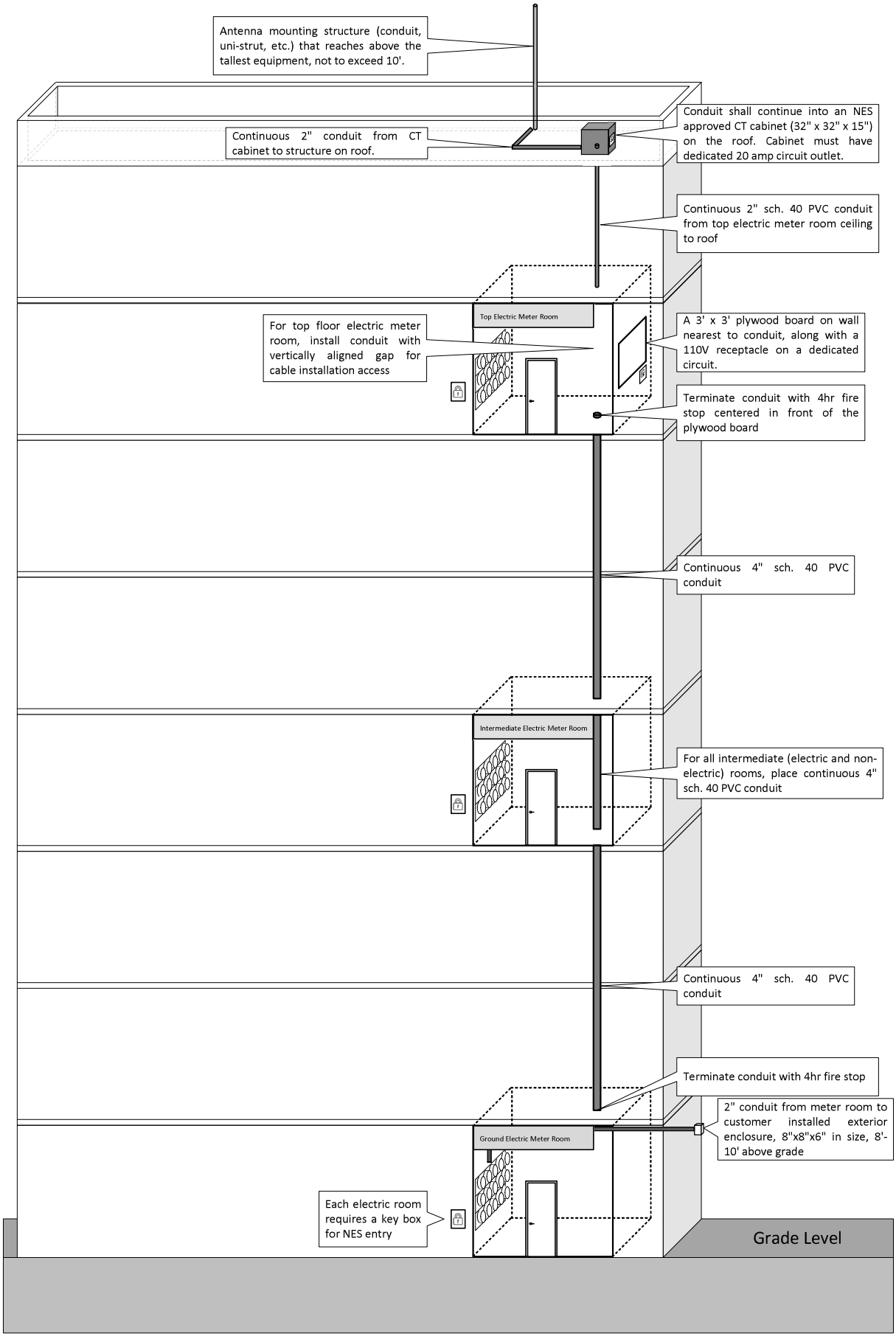
● Antenna location options:

- Flat Roof (Detail A & B): 2" conduit shall be installed from the top meter room to an NES approved CT cabinet (32" x 32" x 15") on the roof. Customer shall install structure to attach coax (uni-strut, conduit, etc.) that reaches above the tallest equipment (not to exceed 10'). This allows Meter personnel to install an antenna with minimal communication obstructions.
- Gable Roof (Detail C): 2" conduit should be through a wall on the bottom floor with an 8"x8"x6" NEMA 3R box mounted 8'-10' from grade. For clarification, please contact Meter personnel (615-747-3805).

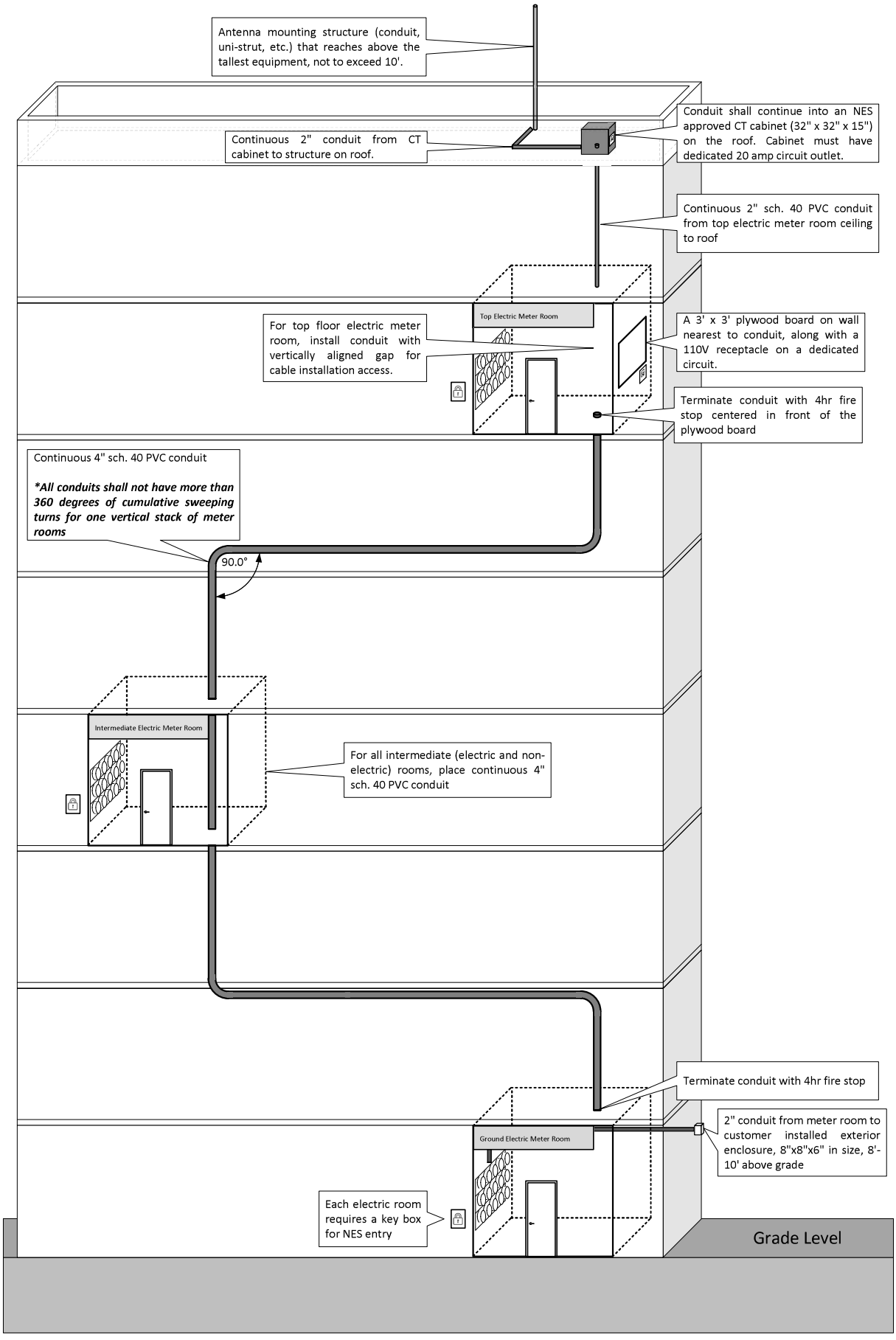
● Before any bus duct is energized, all meter sockets shall be blanked out, sealed, and tagged with a transparent plastic cover plate provided by the customer or all main disconnects will be locked out with an NES lock.

ALL REQUIREMENTS LISTED IN THIS GUIDELINE MUST BE MET OR SOME SERVICES MAY NOT BE ENERGIZED.

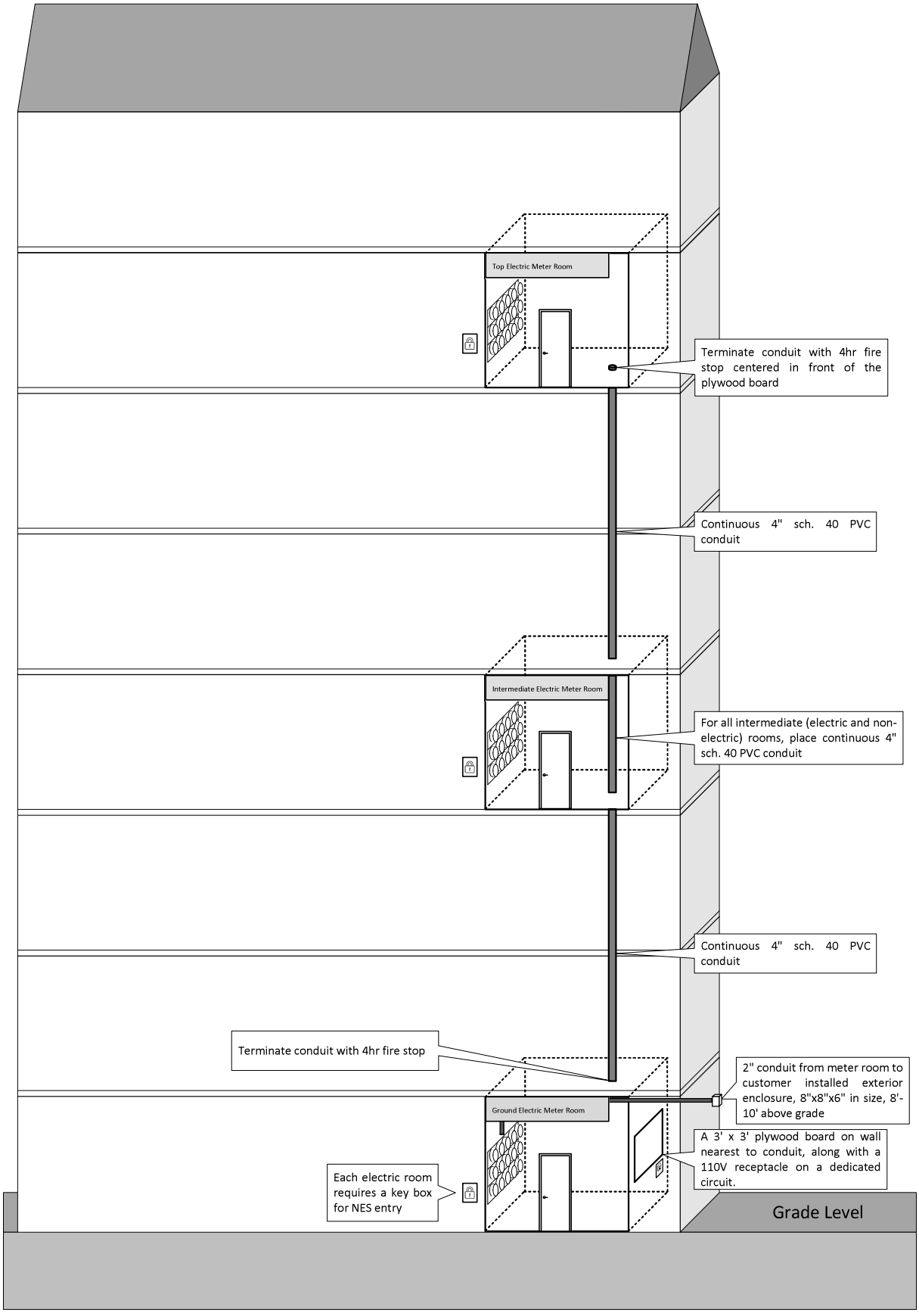
Detail A: Vertically Aligned Meter Rooms



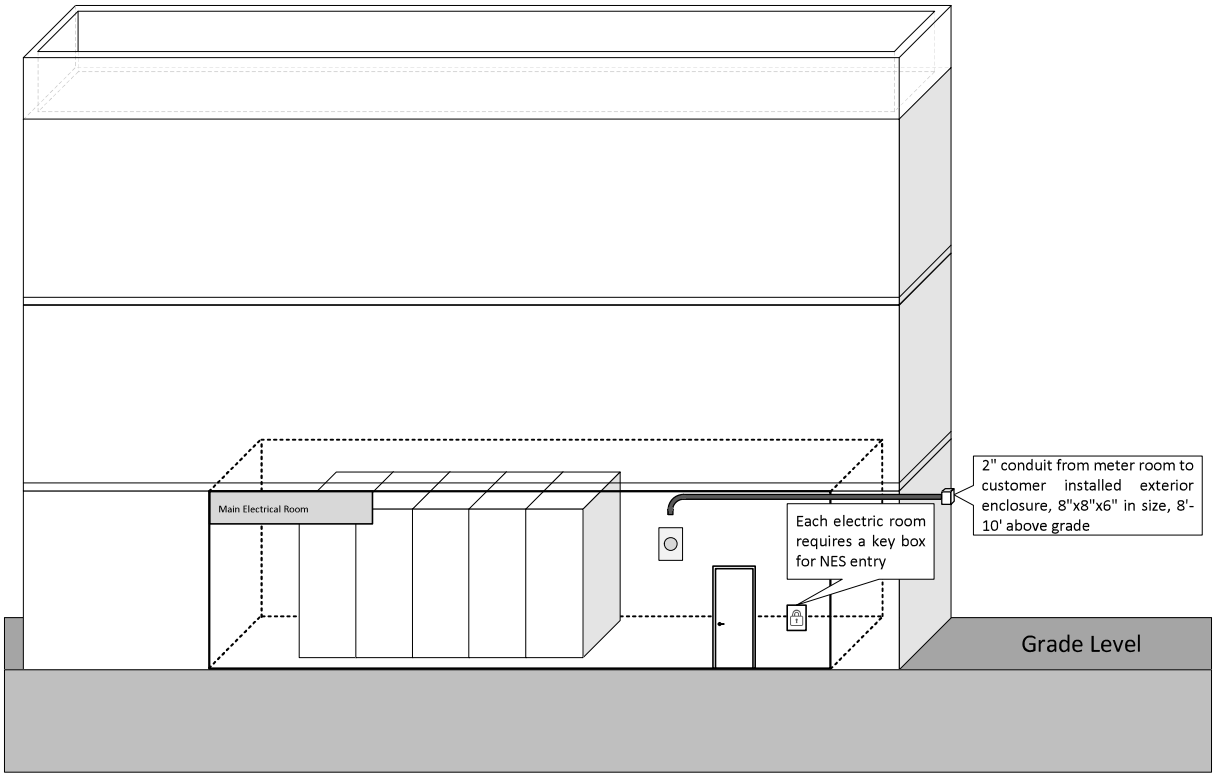
Detail B: Vertically Offset Meter Rooms



Detail C: Gabled Roof – Vertically Aligned Meter Rooms



Detail D: Above Grade Metered Room



Detail E: Below Grade Metered Room