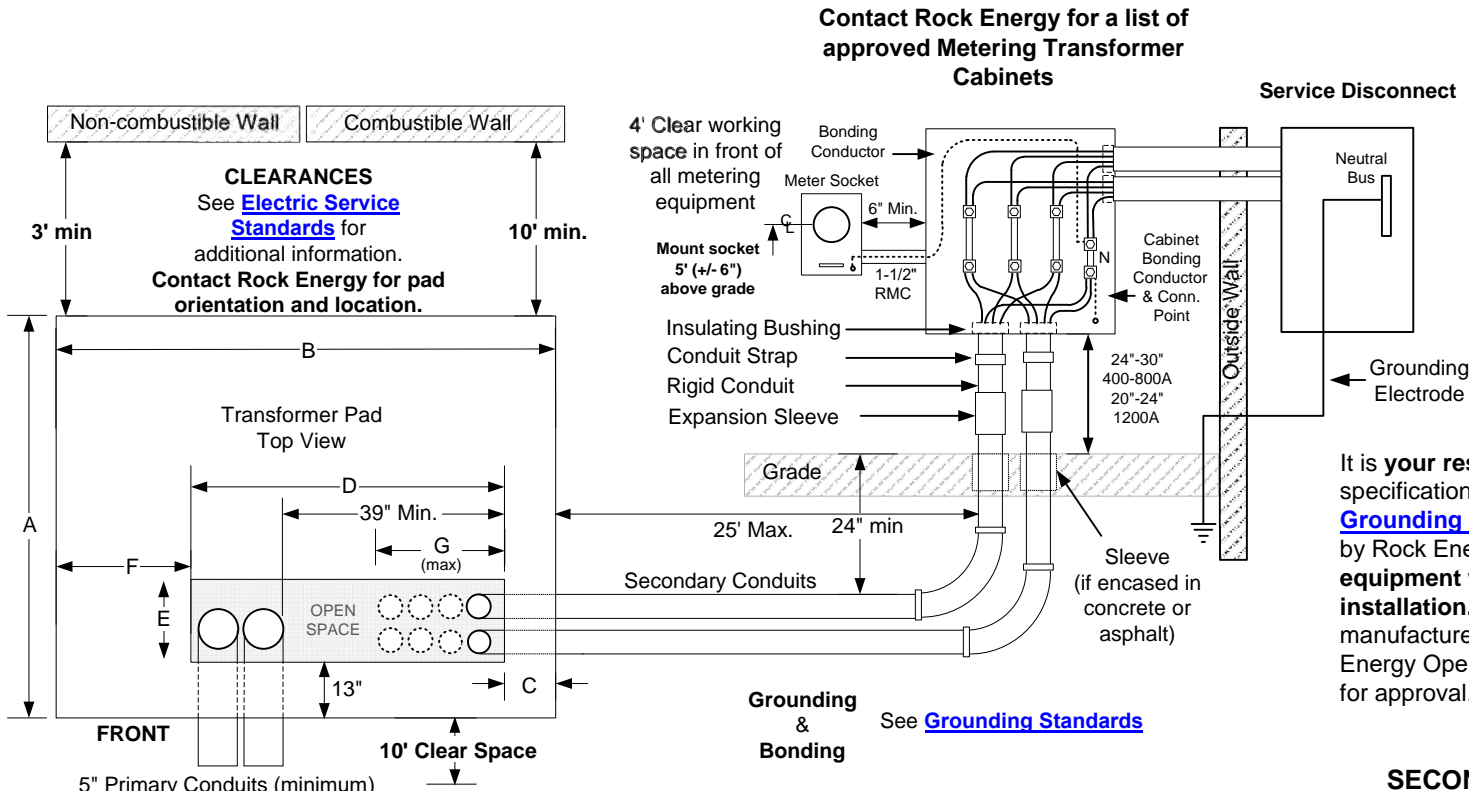


THREE PHASE TRANSFORMER PAD/METERING GUIDELINES

3 Phase Secondary Metering Specification 400A-3000A Single Meter

All metering equipment will be installed outdoors



CONTRACTORS

It is **your responsibility** to read and understand all specifications in the [Electric Service Standards](#) and [Grounding Standards](#) at www.rock.coop that are required by Rock Energy Cooperative. **All 3 phase metering equipment will be approved by Rock Energy prior to installation.** Send your proposed metering diagram with manufacturer name and catalog numbers to your Rock Energy Operations Department prior to ordering any material for approval.

SECONDARY CONDUIT SPECIFICATIONS

Main Disc. Amperes	# of Conduits	Conduit Size (minimum)	Min. Bend Radius (steel)	Min. Bend Radius (pvc)
400	2	4"	16"	30"
600	3	4"	16"	30"
800	4	4"	16"	30"
1200	5	4"	16"	30"
1600	7	5"	24"	36"
2000	8	5"	24"	36"
2500	7	5"	24"	36"
3000	8	5"	24"	36"

5" Primary Conduits (minimum)
Contact Rock Energy for Orientation

Rock Energy will specify which pad is correct for your installation

Typical Installation
(2) 36" or 48", Schedule 40,
5" PVC 90 degree sweeps,
3 to 4 feet below grade, extending 3' min.
beyond pad. (Plug and mark both ends)

	120/208v	277/480v	A	B	C	D	E	F	G	PAD THICKNESS
PAD I	100-1200 AMP	100-600 AMP	84"	96"	10"	55"	17"	31"	22"	6"
PAD II	1600-3000 AMP	800-3000 AMP	105"	108"	14"	60"	17"	34"	27"	8"

- Notes:**
- All conduits shall enter through the window opening provided in the pad foundation. These conduits shall be cut off so the top of the conduit is flush with the surface of the pad.
 - All metallic conduits (if installed) shall be fitted with an insulating bushing.
 - When an oil sump is required, excavate 18" under and around the pad and fill with coarse crushed rock - check with local building code to determine if an oil sump is required.
 - Concrete mix shall have a minimum strength of 4000 lb./sq.in. after 28 days.
 - The top of the pad shall be level and all edges and corners rounded off.
 - The pad shall be reinforced with #4 wire, 4" x 4" welded mesh or equivalent materials with additional 3/8 reinforcing rods around the cable opening. The mesh shall not be less than 1" from the edges and opening, and 3" below the surface. If the #4 wire, 4" x 4" mesh is not available, 2 layers of #10 wire, 6" x 6" mesh, horizontally staggered, may be substituted for the #4 wire.

Riser Material will be:
Schd. 80 PVC (electric rated); **Galv. Steel RMC** or **IMC**
See [Electric Service Standards](#) for complete specifications.