

CONCRETE PAD DETAIL FOR THREE PHASE MOUNTED TRANSFORMERS

NOTES

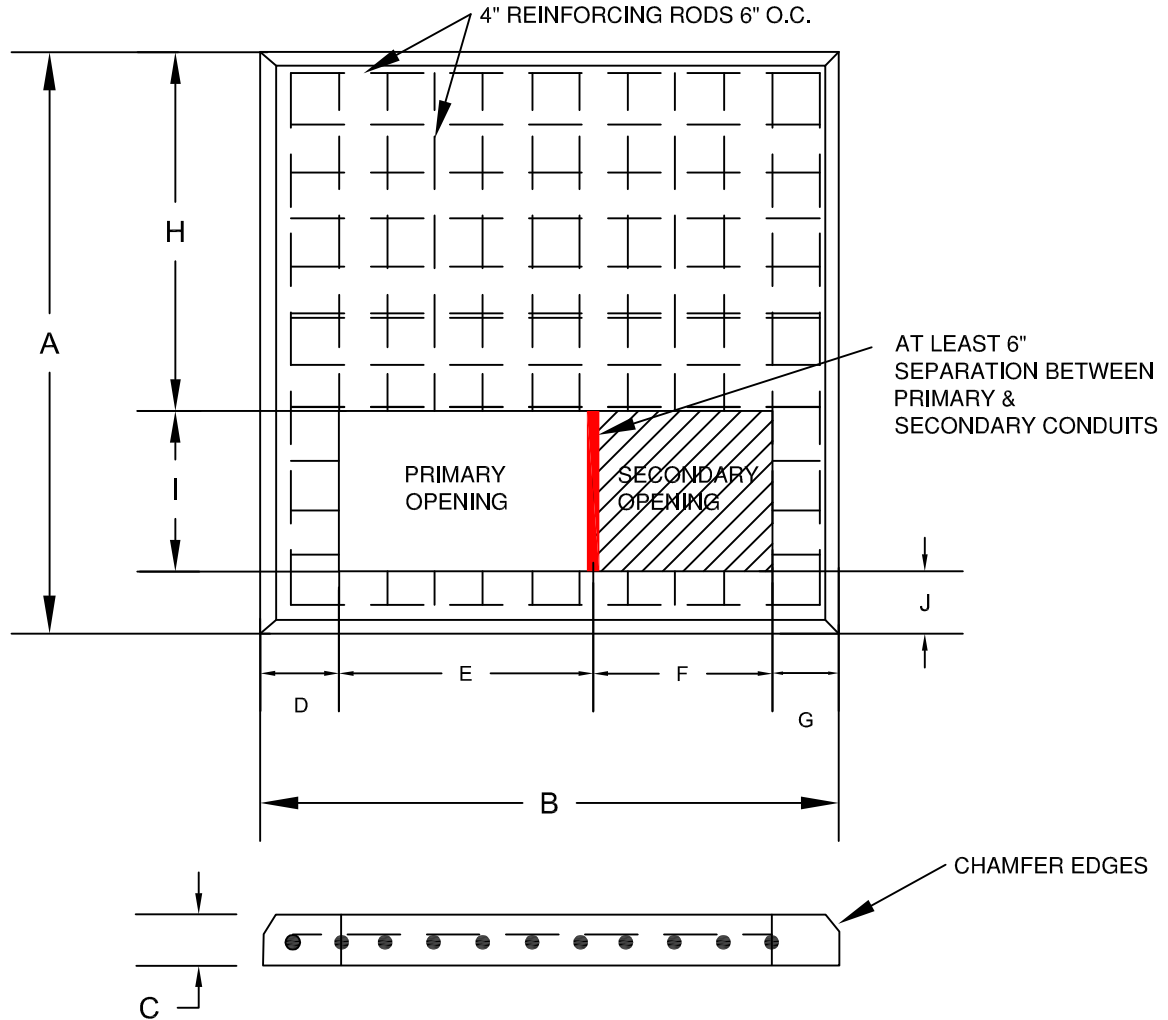
1. Provide clearance from edge of pad to any building, property line, wall, screen wall planting, or any other obstruction in accordance with Memo #15-3.
2. Final location of concrete pad to be spotted in the field by PECCI representative.
3. Pad must support transformer weight as shown in table below. If soil will not stand weight per square foot as shown in table, pad area must be increased or piling installed to meet transformer weight requirement.

Transformer Size KVA	Transformer Weight	Weight Per ft ²
45 - 225	8000	150
300 - 500	12000	400
750 - 1000	18000	300
1500 - 2500	23000	500

4. If location is subject to flooding, pad shall be elevated above water level.
5. Location must have heavy truck access not more than 5 feet from pad.
6. Primary conduit (SCHD40 PVC or GI) must extend 1" above the top of pad. GI conduit must have a ground type bushing. Number and size as specified by PECCI.
7. Number of secondary conduits as needed extending 1" above top of pad contained within dimensions shown.
8. The following chart indicates the maximum number of conductors per phase that can be placed in the secondary compartment. Recommended service conductors to be 4/0 through 500 KCMIL stranded cooper cables or 4/0 through 750 KCMIL stranded aluminum or multiples of the same. If the number of conductors exceeds the quantity listed, PECCI's prior approval is required.

Transf. Size Kva	Secondary Voltage		Transf. Size Kva	Secondary Voltage		Transf. Size Kva	Secondary Voltage	
	208Y/120	480Y/277		208Y/120	480Y/277		208Y/120	480Y/277
45 - 150	4	4	750	12	6	2500	-	16
225	4	4	1000	-	8	-	-	-
300	6	4	1500	-	12	-	-	-
500	8	6	2000	-	14	-	-	-

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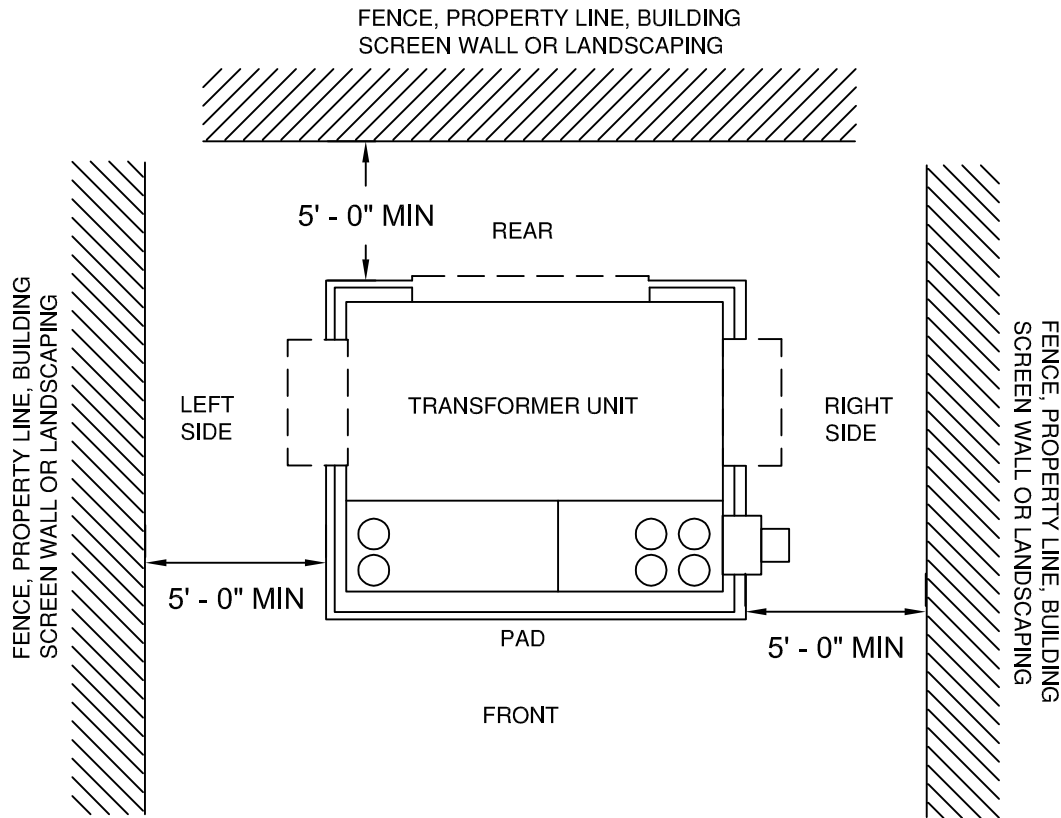
INCHES

KVA	A	B	C	D	E	F	G	H	I	J
45 - 500	76	76	6	8	34	26	8	42	26	8
750 - 1000	90	90	8	15	34	26	15	54	26	10
1500 - 2500	104	104	8	22	34	26	22	68	26	10

NOTES

1. CONCRETE SPECIFICATIONS, MIN 28 DAY COMPRESSIVE STRENGTH - 3000PSI, $\frac{3}{4}$ " AGGREGATE MAXIMUM SIZE.
2. REINFORCING STEEL, ASTM - A615 GRADE 60, PLACE 6" O.C. EACH WAY AND SECURELY TIED TOGETHER.
3. MINIMUM CONCRETE COVER OVER REINFORCING RODS, 3".
4. WOOD FLOAT FINISH, LEAVING NO DEPRESSIONS.
5. PRIMARY & SECONDARY CONDUITS TO BE SEPARATED BY AT LEAST 6".

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FOR CLEARANCES, SEE NOTES 1, 4, & 5

NOTES

1. A 10 foot minimum width corridor, suitable for heavy truck access, shall be provided to within 5 feet of the transformer.
2. Final pad location and orientation to be spotted on job site by PECEI company representative.
3. Transformer location should not be within 10 feet of cooling tower or apparatus which could damage the transformer's finish.
4. A minimum working distance of 12 feet from the point of the pad to any permanent structure must be provided. This distance may be reduced to 5 feet minimum if an easily removable lightweight screen or blind is used.
5. There shall be no building overhang or any structure directly above the concrete transformer pad for a minimum vertical clearance of 40 feet.
6. Suitable protection from vehicles to be provided by customer where deemed necessary and approved by PECEI.
7. Meter should be readily visible or where it faces a building wall, a minimum clearance of 36 inches from wall and access to it must be provided.
8. No foreign underground utility lines shall pass underneath or within 6 feet from the edge of the concrete transformer pad.
9. Do not install sprinkler systems within watering distance of any electrical equipment.
10. See Memo #19 for landscaping specifications around transformer.