

TOP VIEW

5/8" DIA. x 1-1/2" BOLTS  
W/NUTS & WASHER (TYP.)

4" DIA. STD. PIPE OR 4"  
ROUND OR SQUARE TUBE  
WITH 0.120" MIN. WALL  
THICKNESS CONCRETE  
FILLED. (TYP.)

FINISH GRADE

3" MIN. AROUND

CONCRETE FILLED



VIEW A

- C4x5.4x66" - 1φ PAD
- C4x5.4x106" - 3φ PAD (7'X7')
- C4x5.4x127" - 3φ PAD (12'X8'-9")

*Galvanized  
with  
nuts, bolts, washers*

NOTES:

1. IF A BUILDING IS USED AS ANY PORTION OF THIS GUARD, THE TRANSFORMER PAD SHALL BE SO LOCATED THAT THE PAD SIDE OR SIDES ADJACENT TO THE SURFACE OF THE BUILDING SHALL HAVE A CLEARANCE OF NOT LESS THAN 3 FEET. THIS CLEARANCE MAY BE REDUCED TO 2 FEET IF THE BUILDING SURFACE IS NONCOMBUSTIBLE. TRANSFORMERS 750 KVA AND ABOVE CONTACT DESIGNER FOR SPECIAL CLEARANCE REQUIREMENTS.
2. 8'-0" CLEARANCE SHALL BE PROVIDED IN FRONT OF UNIT TO PERMIT HOT STICK OPERATION.
3. BOLLARDS SHALL BE LOCATED BEHIND THE PAD AND ON BOTH SIDES OF THE PAD. BOLLARDS SHALL BE LOCATED AS SHOWN AND EQUALLY SPACED. THE MAXIMUM DISTANCE BETWEEN BOLLARDS SHALL BE FIVE FEET. THE MINIMUM QUANTITY OF BOLLARDS SHALL BE AS FOLLOWS: 5 FOR 1φ PAD (3'-8" X 4'-3"), 6 FOR THE 3φ PAD (7' X 7'), AND 8 FOR THE LARGER 3φ PAD (12' X 8'-9"). THESE QUANTITIES MAY BE REDUCED IF A BUILDING IS USED AS A PORTION OF THE GUARD. THERE SHALL ALSO BE A REMOVABLE BARRIER. LOCATED AS SHOWN, THAT CONSISTS OF TWO VERTICAL PIPES OR TUBES AND A HORIZONTAL CHANNEL AS SHOWN IN "VIEW A."
4. REDRAWN FROM A-1954.

ENGR. SPEC. <b>T007</b>	CONSTRUCTION STANDARDS	REV: 4	ENGR. SPEC.
 <b>SMUD</b> SACRAMENTO MUNICIPAL UTILITY DISTRICT	<b>PAD MOUNTED TRANSFORMER GUARD PIPE TYPE WITH REMOVABLE BARRIER</b>	DATE: Aug. 06 DRAWING REFERENCE# <b>UVD2.5</b>	PAGE# <b>C</b>  <b>SI</b> SACR/ MUNIC UTILIT DISTRI