

# SITE PREPARATION FOR EQUIPMENT AND PADS ON SLOPING GRADES



## SCOPE:

The intent of this standard is twofold; first, to provide a clear and level work space for the operation and maintenance of pad-mounted equipment, and second, to prevent erosion and soil deposition problems when pad-mounted equipment is placed on sloping grades. This standard applies to the site preparation for the following; single and three-phase Transformers, Pedestals, J10, J30, J1, J2, J6 and F2 cabinets, PMH/PME/Vista Switchgears and Capacitors.

## OPERATING WORK AREA:

A 10 foot permanent clear work area is required in front of the pad-mounted equipment for hot-stick operation. An effort should be made to keep this 10 foot area to a flat grade. If this is not possible the grade shall be no greater than a 12 inch vertical rise to a 9 foot (drop 4 inches in 3 feet) horizontal run. (See FIGURE 1)

## REQUIREMENTS FOR RETAINING WALLS:

Where the slope of the land adjacent to the sides and rear of the easement area is greater than a 12 inch vertical rise to a 3 foot horizontal run a retaining wall shall be constructed to prevent erosion or soil deposition. Walls are to be located outside of the easement. (See FIGURE 1 through FIGURE 7). Refer to SR-108 for easement requirements.



## REQUIREMENTS FOR SCREEN WALLS:

The customer can place a screen wall around a transformer, provided the wall is kept outside of the easement for the transformer. A clear area, 10 feet deep, should be provided in front of the transformer door(s) to allow for a proper operating work area. A gate the width of the easement may be placed in front of the transformer to completely screen the transformer, providing all other clearance requirements are met. The gate is not to be locked, unless arrangements are made for a TEP lock with access. For three phase pad-mounted transformer the screen wall must be at least three feet away from any extending part of the transformer.

## REQUIREMENTS FOR ESTABLISHMENT OF GRADE:

Company inspectors do not verify grade stakes. Any adjustments required to grade and/or pad sites due to inaccurate grading, grade changes and/or improper grade establishment at trench or pad sites will be the responsibility of the Developer/Contractor. Any associate costs to correct grade or pad sites and any costs incurred by Service Provider due to a change in surface elevation will be borne by the customer.

## EASEMENT REQUIREMENTS:



Refer to Company issued construction drawing for project specific easements and required access. See SR-108 for details.

 Tucson Electric Power	 SANTA CRUZ COUNTY	INITIATED BY	DJ	REVISION NO.	16	SR-208 Pg. 1 of 2
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FIGURE 1

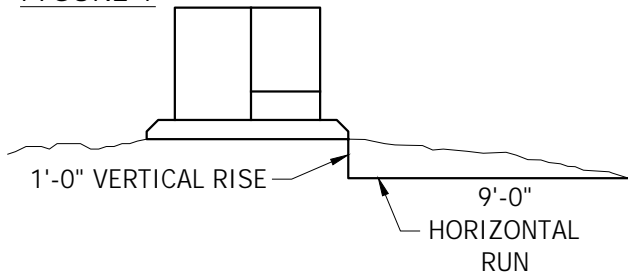


FIGURE 2

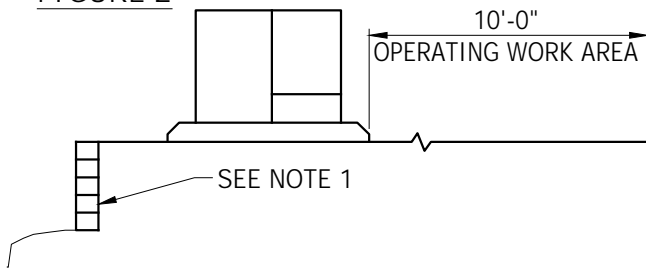


FIGURE 3

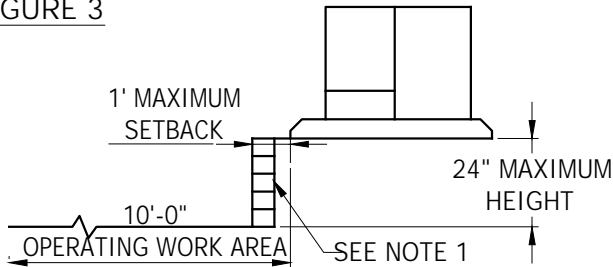


FIGURE 4

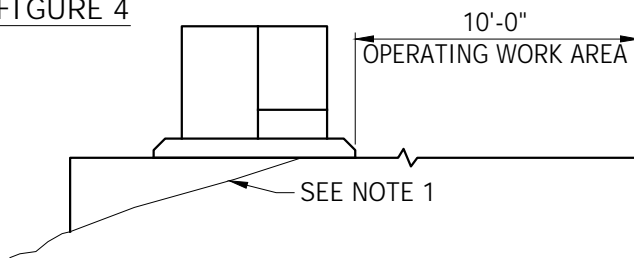


FIGURE 5

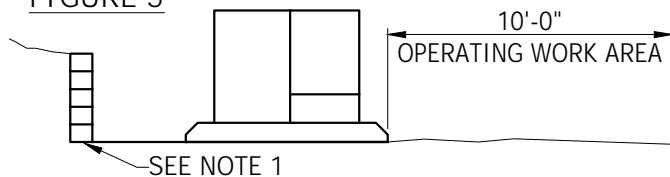


FIGURE 6  
TRANSFORMER CLEARANCE

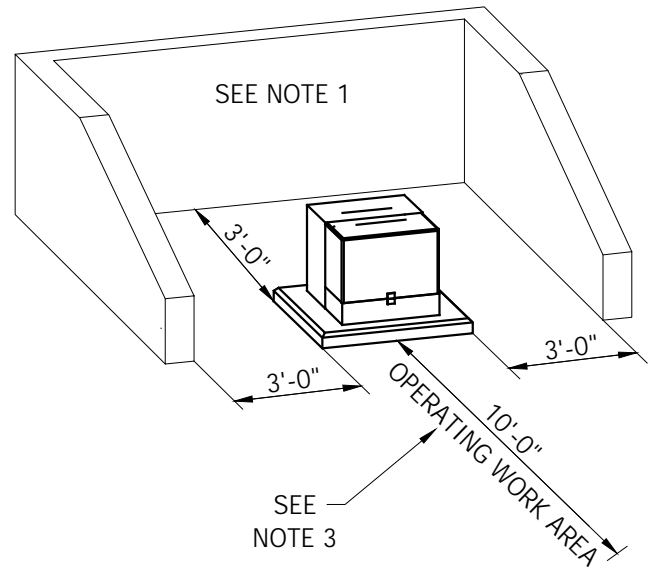
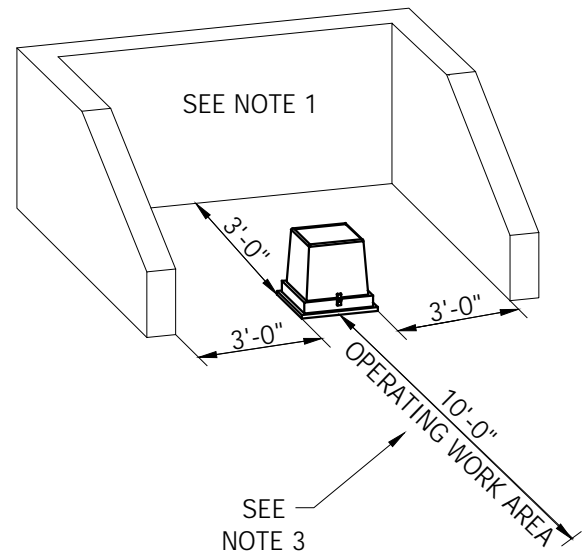


FIGURE 7  
PEDESTAL, J10 OR J30 CLEARANCE



## NOTES:

1. INSTALL RETAINING WALL (CONCRETE BLOCK/SOLID CONCRETE OR EQUIVALENT) AS NECESSARY.
2. THE AREA IN FRONT OF SINGLE-PHASE TRANSFORMER PADS MUST BE LEFT SUITABLE FOR THE FUTURE TRENCHING ACCESS REQUIRED FOR NEW SERVICES.
3. 10'-0" OPERATING WORK AREA NEEDED FROM ANY WALL OR OBSTRUCTION.

