SITE PREPARATION FOR EQUIPMENT AND PADS ON SLOPING GRADES

1. 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; 1Ø and 3Ø transformers, pedestals, J10, J30, J1, J2 and F2 cabinets, PMH / PME switchgears and capacitors.

2. 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 1-foot vertical rise to a 9-foot (drop 4" in 3') horizontal run. (See Fig. 1 below)

3. REQUIREMENTS FOR RETAINING WALLS:

Where the slope of the land adjacent to the sides and rear of the easement area is greater than a 1-foot 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 Fig. 2 through Fig. 8)

4. 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, 8 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.

Fig. 1

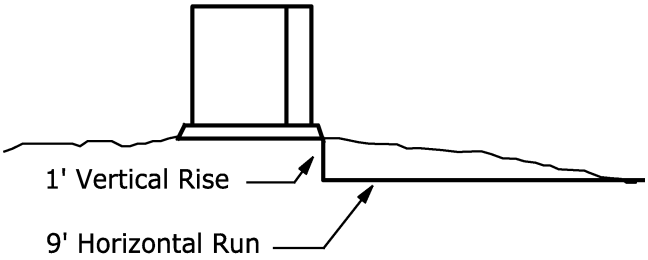

Fig. 2

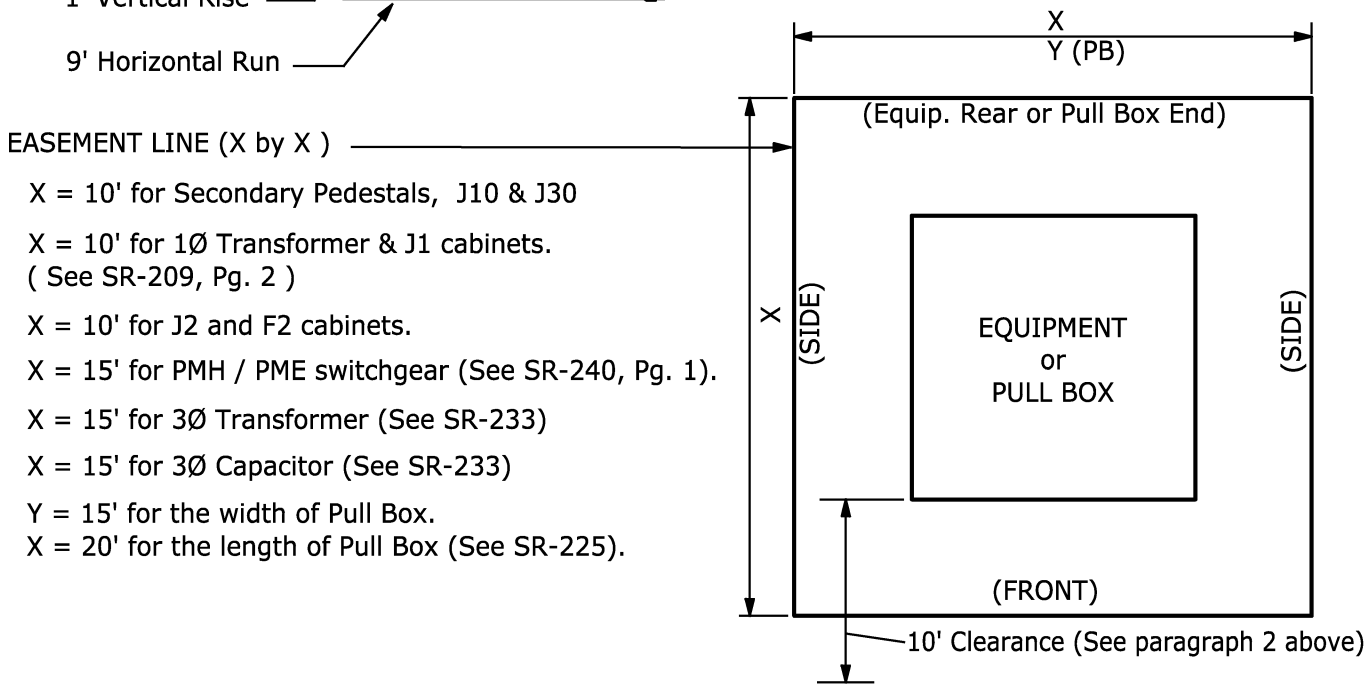

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Fig. 3

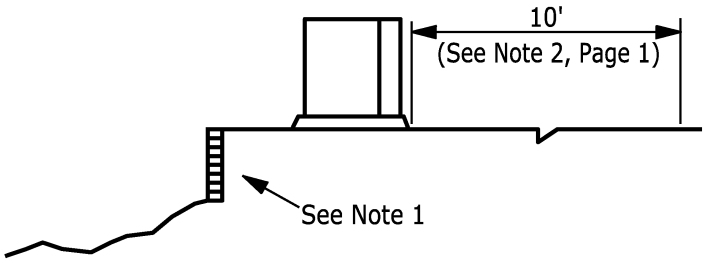


Fig. 4

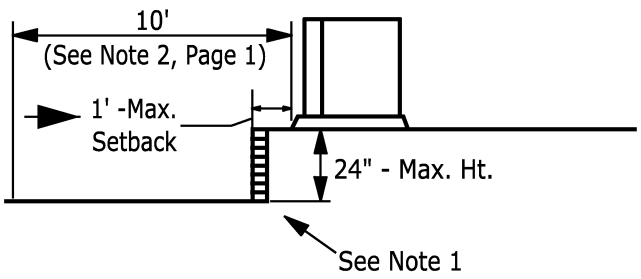
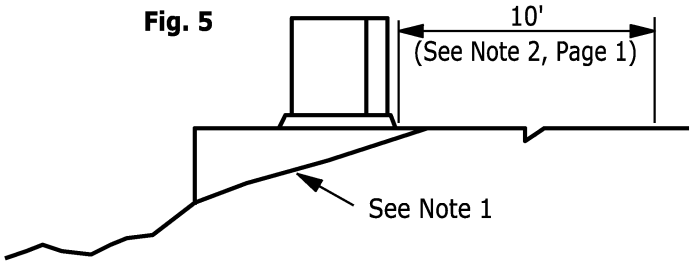


Fig. 5



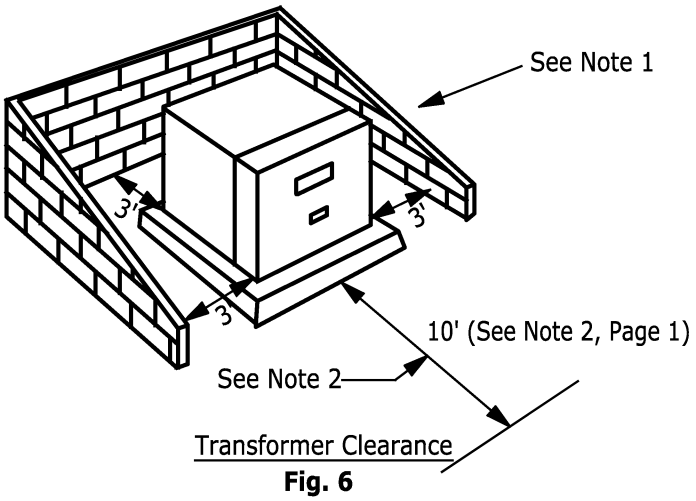
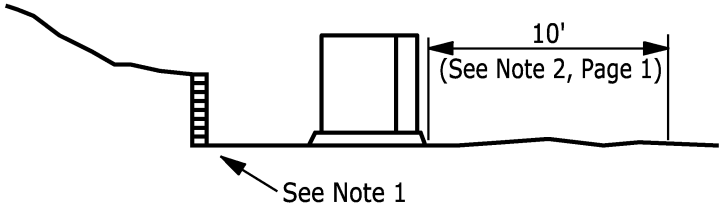


Fig. 6

Fig. 7



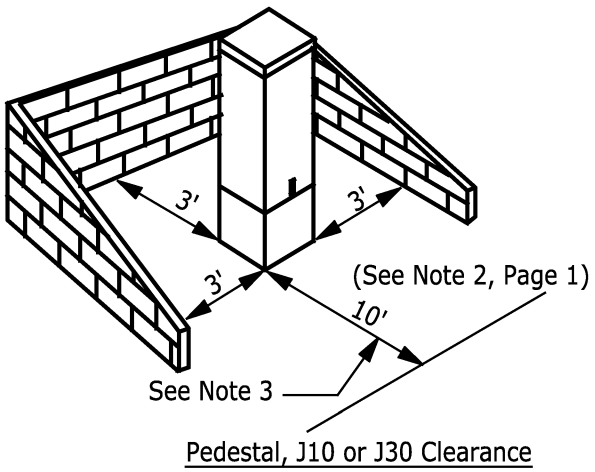


Fig. 8

NOTES:

1. Install retaining wall (concrete block/solid concrete or equivalent) as necessary.
2. The area in front of 1Ø Transformer Pads must be left suitable for the future trenching access required for new services.
3. Working clearance needed from any wall or obstruction.