

NOTES:

1. Maximum of 2% slope free and clear of buildings, bushes, trees, plants, sidewalks, and curbs 5 feet from structure slab.
2. The 8 feet of clearance can not be in a parking stall. This distance has to always be clear (California Code of Regulations, Title 8).
3. Switchgear requires 8 feet of clearance on both sides of the switch (California Code of Regulations, Title 8).
4. No carports are allowed over any equipment.
5. Suitable space shall be provided and maintained about electrical equipment to permit ready and safe operation and maintenance of such equipment. In all cases, the workspace shall be adequate to permit a 90 degree opening of doors or hinged panels.
6. The clearances shown shall be kept at all times. RPU reserves the right to remove any plants, shrubs, trees, etc. that interferes with working clearances.

Revision
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DATE: 7/25/05

REVISION: New standard

DATE: 8/16/05

APPROVAL: *Dave Redding*



CLEARANCE REQUIREMENTS FOR PADMOUNT EQUIPMENT

UGS

1. General:

These requirements apply to padmount equipment. Installations that do not comply with these requirements may be presented to the City of Riverside Public Utilities Standards Engineer for review and consideration. Easements may be required for non-standard installations.

2. Equipment Pad Accessibility:

A. Truck Accessibility

Equipment pads must be accessible to RPU trucks. Trucks must be able to be backed up to within 5' of the equipment pad on:

- A surface capable of withstanding truck weights of 24 tons
- A path that is a minimum of 12' wide

A minimum vertical clearance of 14' shall be maintained from the street to the equipment pad. If the path to the equipment pad requires any turns by RPU trucks, the minimum requirements of 12' and 14' previously described may need to be increased. Consult the RPU Standards Engineer when such situations occur.

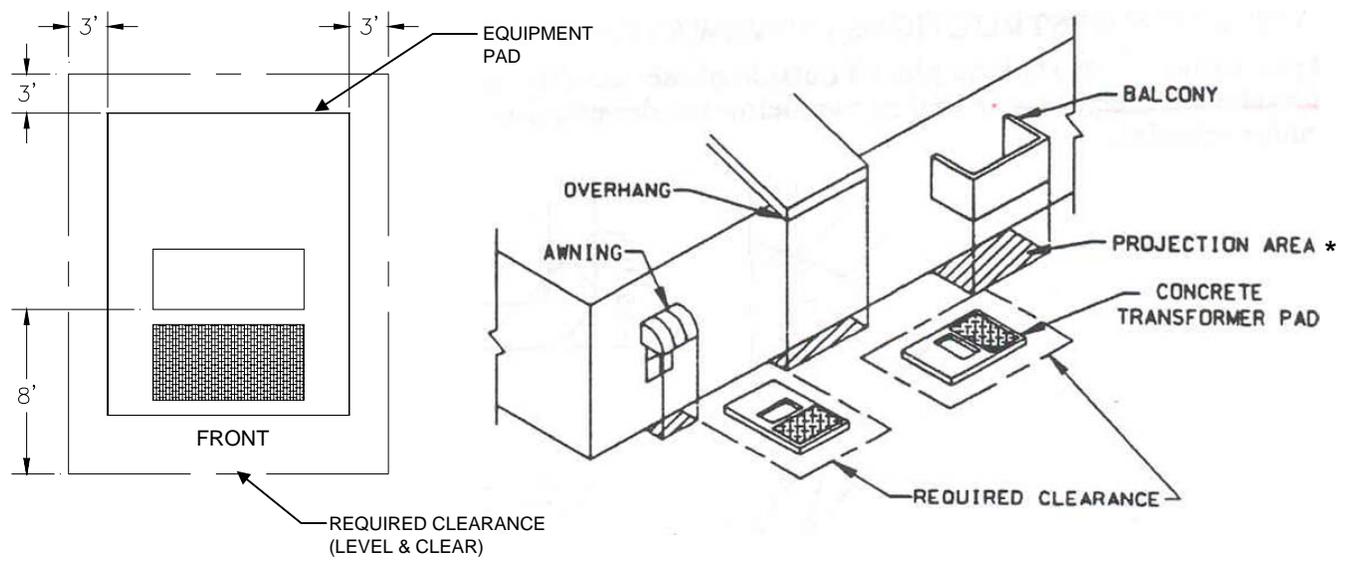
3. Equipment pad Locations:

All equipment pads shall be in an unobstructed and level location according to each figure and requirement noted below. There shall be no building projection underneath the equipment pad such as a subterranean parking structure or carport.

A. Required Clearances

Equipment pads shall have the same minimum clearances shown in the figures below. All clearances must be on the property served.

For buildings with architectural projections such as awnings, overhangs, or balconies, the edge of such projections shall be considered part of the floor area. Equipment pads shall be placed outside of these projections with the clearances shown in the figures below and observance of proximity to openings (4B.) must be observed.

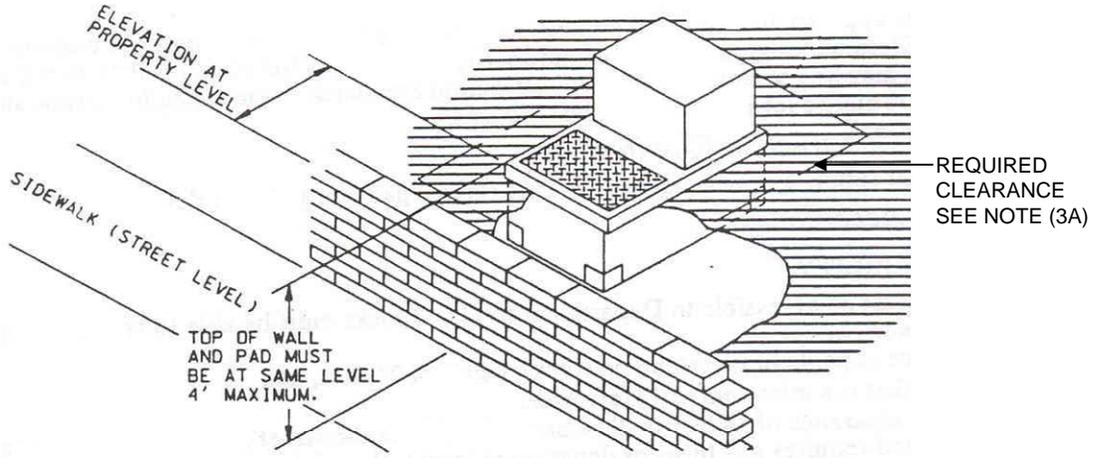


* Projections to ground considered as floor area. Use as referenced for required clearance area.



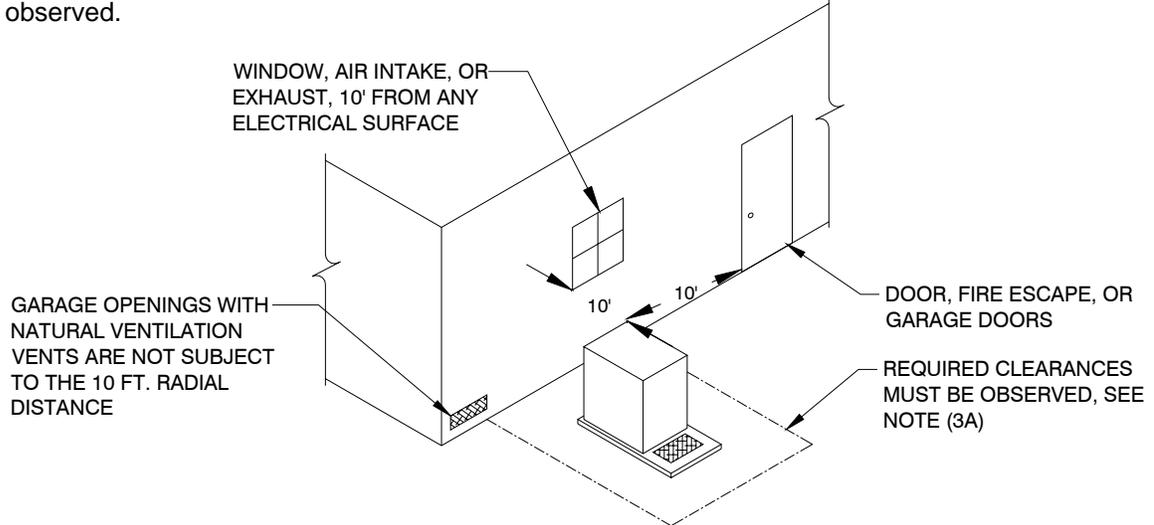
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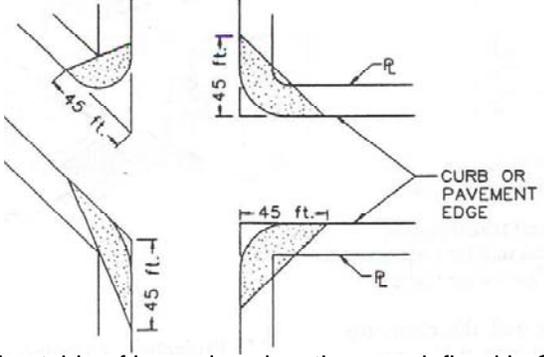
B. PROXIMITY TO OPENINGS (OTHER THAN GARAGE OPENINGS OR EXHAUST VENTS)

Equipment pads shall be placed at least 10' radially from all fire escapes, doors (including garage doors, windows, air intakes or air exhaust vents. This measurement shall be taken from the closest perimeter of the opening to the closest edge of the pad at ground level. Required clearances (3A.) must be observed.



C. VISIBILITY OBSTRUCTIONS DRIVEWAYS AND INTERSECTIONS

Equipment pads shall be placed outside of the visibility triangles as shown below for driveways and intersections to ensure the safe operation of motor vehicles.



D. HAZARDOUS LOCATIONS

Equipment pads shall be placed outside of hazardous locations as defined in Chapter 5 - Special Occupancies of the National Electrical Code (NEC), i.e. ARTICLE 514 on Gasoline Dispensing and Service Stations describes various location requirements.



CLEARANCE REQUIREMENTS FOR PADMOUNTED EQUIPMENT

UGS

4. Protection:

All equipment pads shall be protected by barrier posts when located near traffic or parking areas unless otherwise determined by Department Standards Engineer. Field evaluation shall be made by the Department representative for each installation. Walls may not be used in place of barrier posts. See the figure below for barrier post construction details. Refer to UGS-290 for barrier post locations.

5. LANDSCAPING & OTHER OBSTRUCTIONS:

Padmount equipment surroundings and screening are permitted with the compliance of required clearance (3A.) and accessibility requirements (2). Refer to page 1 for landscape clearances from padmounted equipment

6. EXCAVATION ON PRIVATE OR PUBLIC PROPERTY:

Before any new excavation is started on private or public property the Underground Service Alert must be called for substructure location.