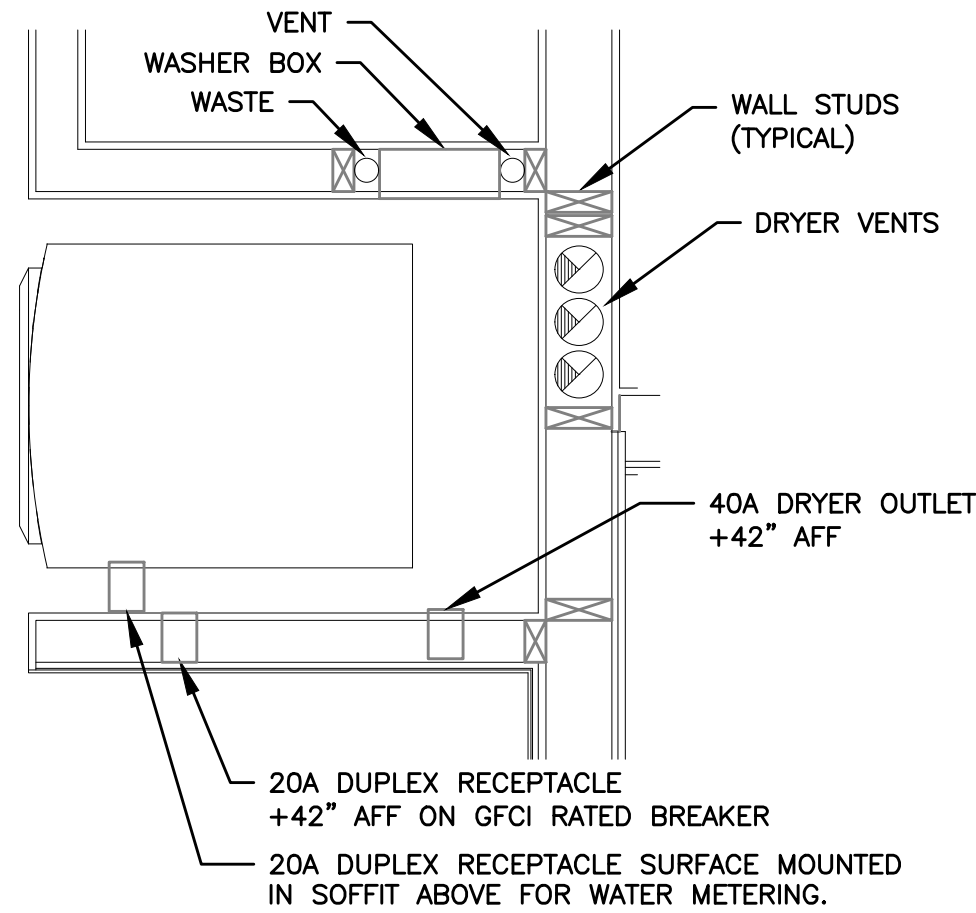
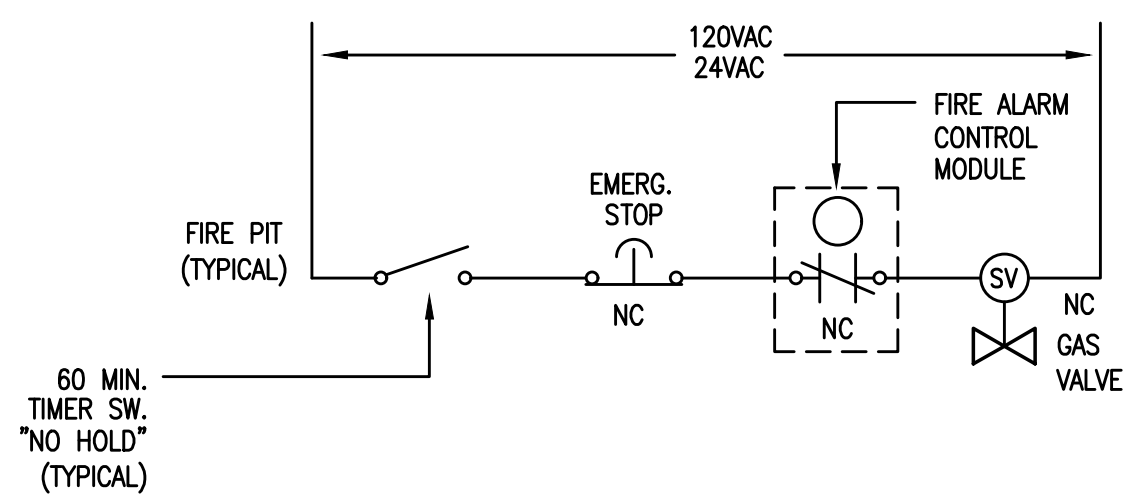


1 SWITCHBOARD/PANEL LABELING DETAIL
E1.15 NO SCALE
NOTE: ALL LETTERS ARE ENGRAVED WHITE

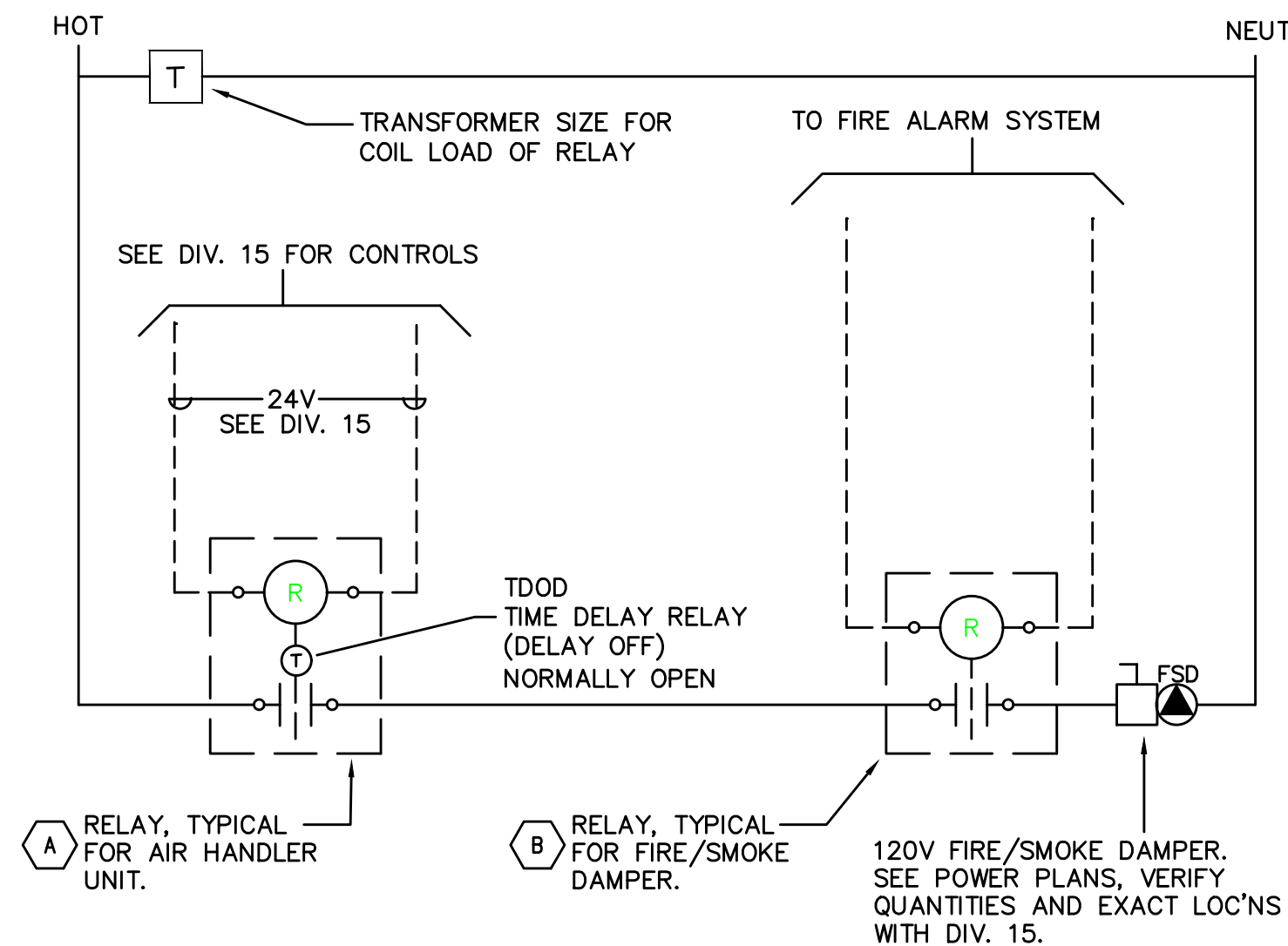


2 TYPICAL WASHER/DRYER ALCOVE
E1.15 NO SCALE

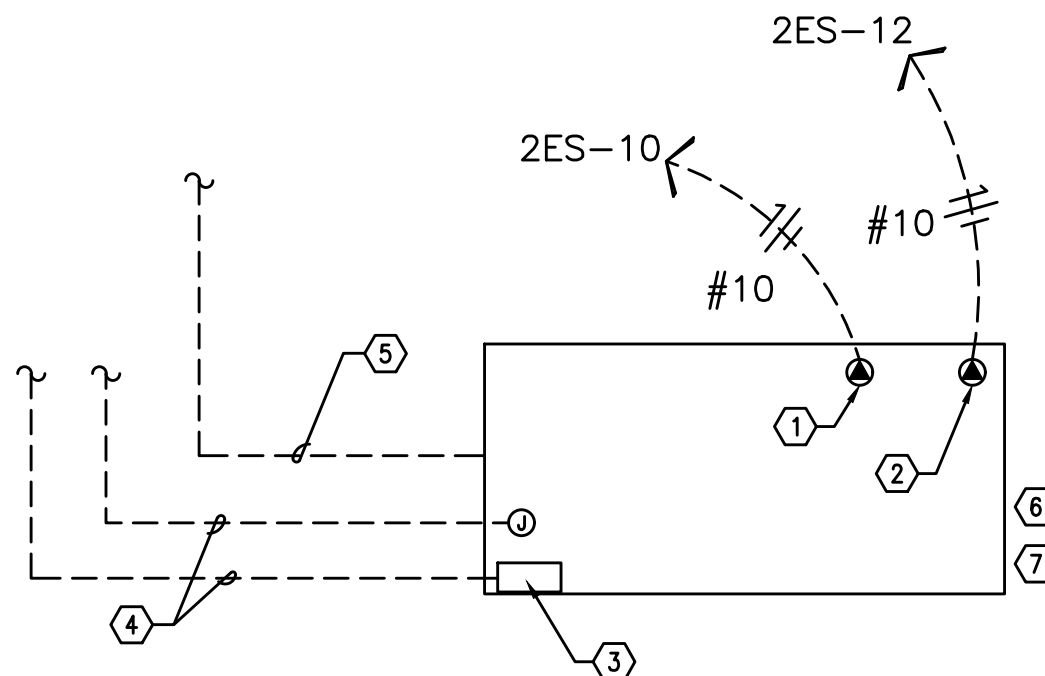
- NOTES:
1. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH IN, TO ENSURE THAT ELECTRICAL DEVICES ARE NOT INSTALLED WHERE THEY WILL CREATE CONFLICT.
 2. PREFERRED INSTALLATION SHALL HAVE THE ELECTRICAL DEVICES ON A WALL OPPOSITE THE WORK OF ANY OTHER TRADE.
 3. COORDINATE WITH WATER METER INSTALLER FOR EXACT LOCATION OF DUPLEX RECEPTACLE, WHERE REQUIRED.
 4. FIELD COORDINATE WITH ALL TRADES PRIOR TO ROUGH IN.



3 GAS APPLIANCE EMERGENCY SHUT-OFF DIAGRAM
E1.15 SCALE: NONE

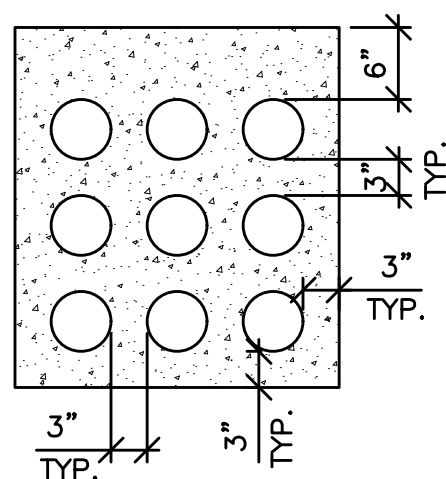


4 SMOKE/FIRE DAMPER CONTROL DIAGRAM
E1.15 NO SCALE



5 GENERATOR CIRCUITING DETAIL
E1.15 NO SCALE

- NOTES:
1. 120V GENERATOR BLOCK HEATER. SEE PANEL 2ES.
 2. 120V GENERATOR BATTERY CHARGER. SEE PANEL 2S.
 3. GENERATOR OUTPUT BREAKER AND CONTROL SECTION. SEE PANEL 4E1.
 4. POWER AND CONTROL TO TRANSFER SWITCH AND REMOTE ANNUNCIATOR. SEE ONE-LINE DIAGRAM ON SHEET E1.10.
 5. TO AUTOMATIC TRANSFER SWITCH. SEE E1.10.
 6. DIESEL GENERATOR TO BE PROVIDED WITH DOUBLE-WALL FUEL TANK AND SPILL CONTAINMENT PER CITY OF PORTLAND REQUIREMENTS.
 7. DIESEL GENERATOR TANK SHALL DOUBLE WALLED AND BE EQUIPPED WITH OVERFILL PROTECTION (AUTO SHUTOFF), 5 GALLON INFILL SPILL BUCKET WITH DRAIN BACK, 12FT ABOVE GRADE TANK FUME VENTING AND ONSITE PRESSURE TESTING PER CITY REQUIREMENTS.



6 CONCRETE ENCASED CONDUITS - SECTION
E1.15 NO SCALE

1. CONCRETE ENCASED CONDUITS FOR SECONDARY FEEDERS SHALL BE PER THE UTILITY PROVIDER'S REQUIREMENTS.
2. CONDUITS TO BE SPACED 3" APART (SKIN-TO-SKIN), WITH 6" OF CONCRETE ABOVE AND 3" OF CONCRETE AT SIDES AND BOTTOM.
3. CONSULT WITH STRUCTURAL ENGINEER FOR ADDITIONAL INFORMATION.

ADDRESSABLE DETECTOR CONTROL

- A RELAY TO BE 'NORMALLY OPEN'. TDOD (TIME DELAY ON DE-ENERGY) SET FOR 15 SECONDS. RELAY TO CLOSE UPON SIGNAL FROM HVAC CONTROL SYSTEM (ALLOWS DAMPER TO OPEN); DAMPERS TO CLOSE ON DE-ENERGIZE AFTER 15 SEC. TIME-OUT. PROVIDE WITH 20A CONTACTS AND COIL VOLTAGE AS REQUIRED BY HVAC CONTROL SYSTEM. MOUNT RELAY IN NEMA 1 ENCLOSURE ADJACENT TO HVAC CONTROL PANEL.
- B RELAY TO BE 'NORMALLY ENERGIZED'. RELAY TO BE DE-ENERGIZED UPON SIGNAL FROM FIRE ALARM SYSTEM (ALLOWS DAMPERS TO CLOSE). PROGRAM FIRE ALARM SYSTEM FOR 15 SECOND DELAY BETWEEN SMOKE DETECTOR ACTIVATION AND FIRE/SMOKE DAMPER SHUTDOWN. PROVIDE WITH 20A CONTACTS AND COIL VOLTAGE AS REQUIRED BY FIRE ALARM SYSTEM. MOUNT RELAY IN NEMA 1 ENCLOSURE ADJACENT TO FIRE/SMOKE DAMPER.

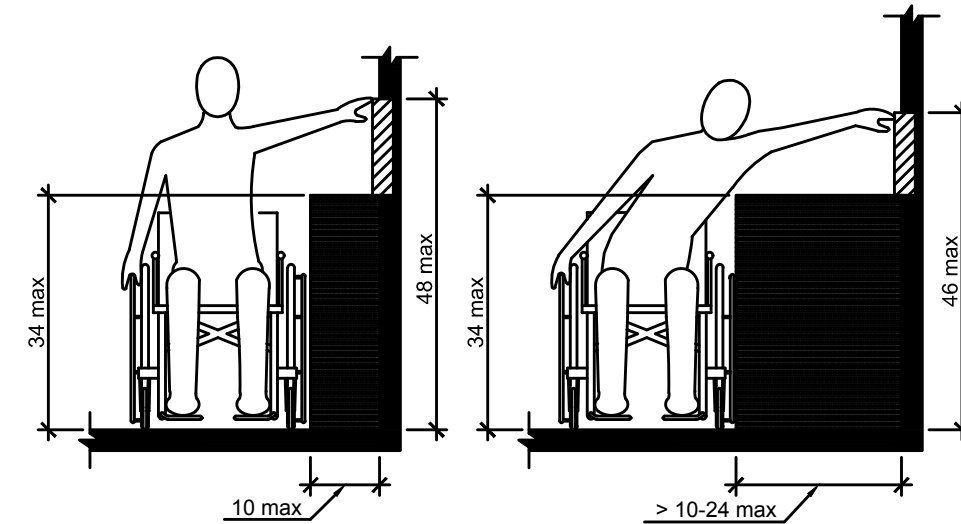


Figure 308.3.2
Obstructed High Side Reach

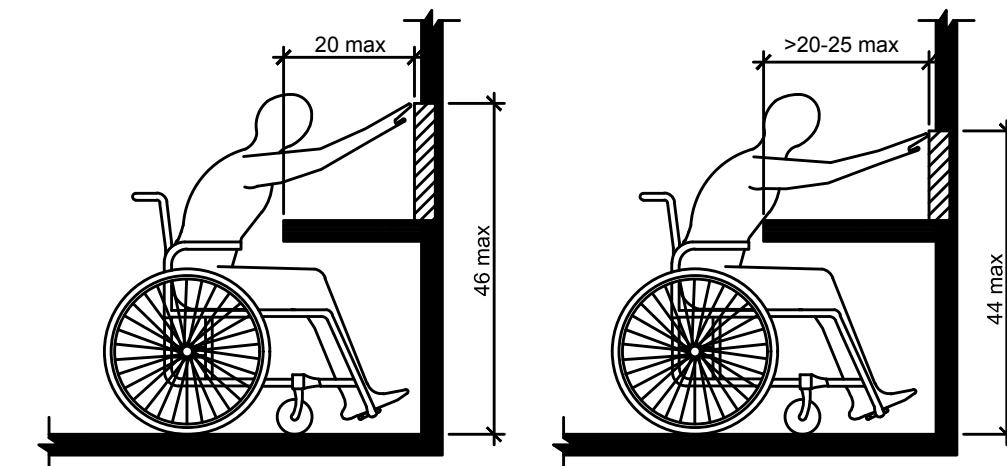


Figure 308.2.2
Obstructed High Forward Reach

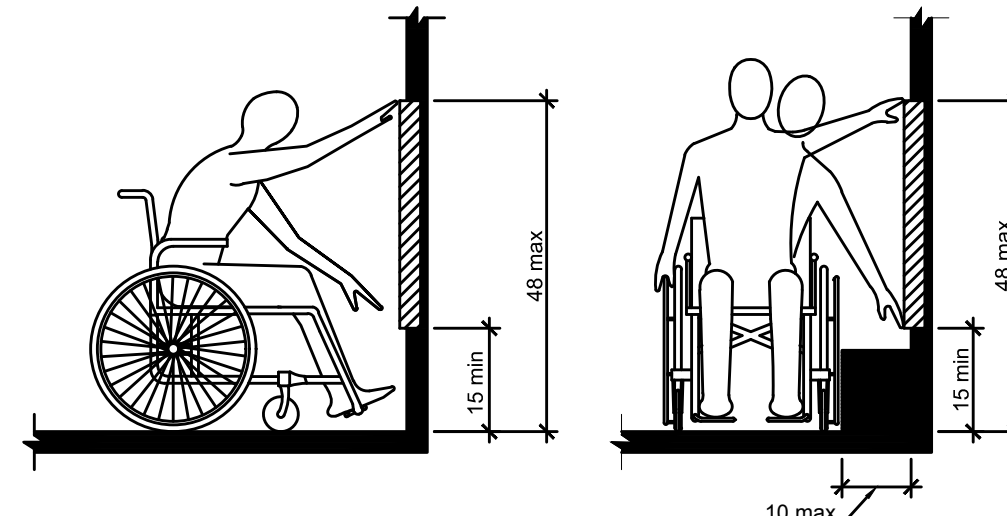


Figure 308.2.1
Unobstructed Forward Reach

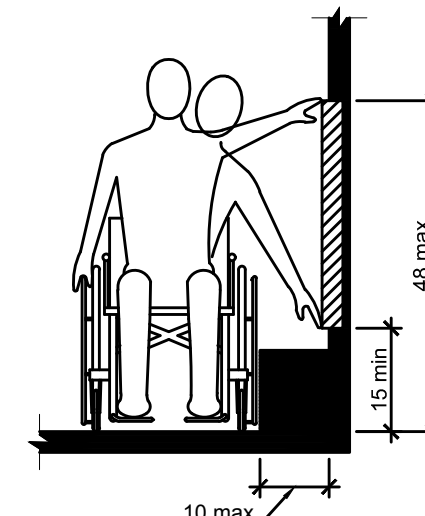


Figure 308.3.1
Unobstructed Side Reach

7 ADA REACH REQUIREMENTS
E1.15 NO SCALE

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48" maximum and the low forward reach shall be 15" minimum above the floor or ground.

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor or ground space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48" maximum where the reach depth is 20" maximum. Where the reach depth exceeds 20", the high forward reach shall be 44" maximum and the reach depth shall be 25" maximum.

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48" maximum and the low side reach shall be 15" minimum above the floor or ground.

Exception: Existing elements shall be permitted at 54" maximum above the floor or ground.

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an object and the high side reach is over an obstruction, the height of the obstruction shall be 34" maximum and the depth of the obstruction shall 24" maximum. The high side reach shall be 48" maximum for a reach depth of 10" maximum. Where the reach depth exceeds 10", the high side reach shall be 46" maximum for a reach depth of 24" maximum.

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