SECTION 12

ELECTRIC SERVICE REQUIREMENTS
DIAGRAMS

UPDATED: JANUARY 2015
RESOLUTION 2027-15
NOTE:

1) SERVICE MAST MAY BE INSTALLED INSIDE BUILDING LINES. PROVIDE MAST CONDUIT IS BRACED OR U-BOLTED. METER BASE SHALL BE GROUNDED WITH (2) 8' GROUND RODS (6' MIN SEPARATION) W/#6 COPPER CONNECTED TO ELECTRICAL EQUIPMENT.

2) ROOF LINE TO POINT OF STRIKE ATTACHMENT SHALL NOT BE LESS THAN 18". WEATHERHEAD SHALL NOT BE MORE THAN 8' ABOVE POINT OF ATTACHMENT. WHERE MAST IS OVER 26' HIGH OR SERVICE DROP EXCEEDS 100', GUYS ARE REQUIRED. SEE NEC SECTION 230-24 FOR OTHER ROOF CLEARANCES & REQUIREMENTS.
COLLARS, CYCLONE FENCE OR EQUAL, WITH 3/8" MIN. BOLT SIZE - SEE DWG #1.

3/4" RIGID GALV. CONDUIT TO HAVE ENDS FLATTENED AND DRILLED. JOINT AT LOWER END TO HAVE SHARP BEND WITH NO RADIUS

1/4" X 4" X 4" GALV. PLATE WASHER 5/16" MIN. BOLT OR LAG BOLT

SECURE CONDUIT TO RAFTER WITH U-BOLT, (5/16" MIN)

BRACES 60° TO 90° APART SO SYMMETRICAL ABOUT THIS CENTER LINE

NOTE: REFER TO DRAWING #2 FOR SPECIFICATIONS ON GUYING AND OVERHEAD STRIKES

GUYING-STIFF LEG TYPE
CLEARANCES:
SERVICES OVER GROUND & ROOFS

FIG. 1
USUAL INSTALLATION

FIGURE 2
WHERE SERVICE WALL IS OF INADEQUATE HEIGHT.
CUSTOMER EXTENDS SERVICE AS NECESSARY TO MEET
UTILITY COMPANY'S POINT OF ATTACHMENT

RESIDENTIAL

COMMERCIAL

H:\FNGSTANDARD\SPFCS\SFRV4
CLEARANCES: SERVICES OVER GROUND & ROOFS

OPEN WIRE OR TRIPLEX

MINIMUM REQUIRED CLEARANCES & NOTES

OVER GROUND

A 12ft OVER SPACES AND WAYS SUBJECT TO PEDESTRIAN OR RESTRICTED TRAFFIC ONLY. (NO VEHICLES OVER 8 FT HIGH.)

EXCEPTION Clearance may be reduced to 10ft at the drip loop or service drop cable limited to 150 volts to ground

EXCEPTION Clearance must be increased to 15ft for service voltages between 300 and 750 volts to ground

B 15ft RESIDENTIAL DRIVEWAYS, COMMERCIAL AREAS NOT SUBJECT TO TRUCK TRAFFIC.

EXCEPTION Clearance may be reduced to 12ft for triplex service cable limited to 150 volts to ground

C 18FT ROADS, STREETS, ALLEYS, NON-RESIDENTIAL DRIVEWAYS, PARKING LOTS AND OTHER AREAS SUBJECT TO TRUCK TRAFFIC.

24FT STATE HIGHWAYS

OVER ROOFS (INCLUDES PARKING GARAGES)

D Clearances from highest point in roof shall not be less than:
   1. 3ft—Roof not accessible to pedestrians (See note)
   2. 8ft—Roof accessible to pedestrians
   3. 10ft—Roof accessible to vehicles, but not truck traffic
   4. 18ft—Roof accessible to truck traffic

NOTE:
A roof is considered accessible to pedestrians if there is a means of access through a doorway, ramp, stairway or permanently mounted ladder, or if slope of roof is less than 4 in per ft

E Any equipment housing including air conditioning, platform or projection which a person might stand on

F Service mast, bracket attachment or upright of adequate size and height

G Normally triplex conductors, but may be separate as shown for commercial

H See Section 3.3.2 regarding meter mounting heights

EXCEPTIONS:

1. For open wire service with voltages between 300 and 750 volts to ground the 3ft clearance described above must be increased to 8ft

2. Where voltage between conductors does not exceed 300 volts, a reduction in clearance over the roof to 18 in minimum is permitted if:
   1. They do not pass over more than 4ft of the overhang of the roof
   2. They are terminated at a through-the-roof raceway or approved support
PUD SERVICE POLE:
OVERHEAD SERVICE FROM PADMOUNT TRANSFORMER
UNDERGROUND SERVICE FROM OVERHEAD TRANSFORMER

WEATHERHEAD AT TOP OF POLE

15" STAND-OFF BRACKETS MAY BE OBTAINED FROM ELECTRICAL DISTRIBUTORS—TYPE "LR15DB" IS APPROVED FOR PUD USE

NOTICE:
1. THE SERVICE SHALL RECEIVE APPROVAL OF STATE ELECTRICAL INSPECTOR PRIOR TO CONNECTION BY THE DISTRICT.
2. CONDUIT, STAND-OFF BRACKETS, GROUND ROD (IF REQUIRED), AND CONDUCTORS PROVIDED BY CUSTOMER.

LEADS 18" MIN LENGTH OR SUFFICIENT TO REACH TRANSFORMER ON PRIMARY POLE.

5'-6'
3/8" SERVICE POLE

GROUND ROD 6" MAX FROM POLE AND WITHIN A 90° QUADRANT CENTERED ON RISER.

PUD INSTALLED (AFTER 10')

CUSTOMER INSTALLED (FIRST 10')

INSTALL CONDUIT AT THE END OF THE BRACKET.

MOUNT STAND-OFF WITH GALVANIZED LAG SCREWS 3" MINIMUM INTO THE POLE.

10" SCH 80 PVC OR RIGID GALVANIZED

#6 COPPER CONDUCTOR MIN, ATTACHED TO GALV PIPE

GROUND LINE

CONDUITS AND CONDUCTORS PER PUD CHART #1, #2 & #3

GROUND ROD PER N.E.C. FOR RIGID GALVANIZED ONLY

REV: STANDOFF SEPARATION

DATE 7/8/82 SCALE: NONE
DRAWN NB
REVISIONS
02/03/93 02/07/03 10/17/94 04/20/04 05/05/97 08/13/04
APPROVED
10/29/98 03/14/00 CLALLAM COUNTY PUD #1 PAGE 6A OF 37 DRAWING 6A

Q:\ENGDATA\SPECS\SERV6
NOTES:

1. CUSTOMER SHALL PROVIDE SERVICE CONDUCTOR BETWEEN POLE AND CUSTOMER'S FACILITY. ALL CONDUCTORS SHALL HAVE A MINIMUM LENGTH OF 1 1/2 TIMES THE DISTANCE FROM THE SERVICE ATTACHMENT TO THE MOST DISTANT CURRENT TRANSFORMER.

2. ALL OUTDOOR ENCLOSURES MUST HAVE 8' GROUND ROD W/ #6 COPPER CONNECTED TO ELECTRICAL EQUIPMENT.

3. 15' STAND-OFF BRACKETS MAY BE OBTAINED FROM ELECTRICAL DISTRIBUTORS - TYPE LR15DB IS APPROVED FOR PUD USE.
WEATHERPROOF SWITCH CONTAINING GROUNDING TYPE RECEPTACLES

GROUND WIRE: #6 BARE COPPER OR #8 ARMORED CABLE

8' GROUND ROD, WIRE AND CLAMP IN ACCORDANCE WITH NEC.

RECOMMENDED MIN. WIRE SIZE: 2-#8 BLACK, 1-#8 WHITE WITH 30 AMP. WEATHERPROOF SWITCH

NOTES:
1. ALL WIRING MUST COMPLY WITH STATE OR LOCAL CODES; A STATE WIRING LABEL OR LOCAL WIRING PERMIT MUST BE IN EVIDENCE BEFORE SERVICE IS CONNECTED BY P.U.D.
2. RECEPTACLES SHALL BE PROVIDED WITH A GROUNDING CONTACT CONNECTED TO THE EQUIPMENT GROUND TO PERMIT EFFECTIVE USE OF THE GROUNDING TYPE PLUGS AND CORDS REQUIRED FOR PORTABLE TOOLS.
3. BRACING ADEQUATE TO SUPPORT THE SERVICE DROP MUST BE PROVIDED.
4. IF VEHICULAR TRAFFIC WILL PASS UNDER THE SERVICE, SUFFICIENT ATTACHMENT HEIGHT WILL BE REQUIRED TO PROVIDE A MINIMUM SERVICE DROP CLEARANCE OF 15' OVER PRIVATE PROPERTY, AND 24' OVER STATE HIGHWAY.
5. TEMPORARY SERVICE WILL BE PROVIDED IF FACILITIES AS SHOWN ARE WITHIN 150' OF A P.U.D. POLE; IF OVER 150', CONSULT THE NEAREST LOCAL OFFICE OF P.U.D. NO. 1 OF CLALLAM COUNTY.
6. POLE SHOULD BE LOCATED AS NEAR AS POSSIBLE TO PERMANENT SERVICE LOCATION.
Conduit as required

2"x6" or 4"x4" Post (min.)

2"x4" Dia. Bracing

2"x4" Stake

4.5'

2.5' min.

Extend to and leave enough wire to connect to transformer or pedestal.

Recommended wire size:
3-#6 Alum. U.S.E. Type Wire-one to be white

Approx. 5' from side of transformer (or 10 ft. in front)

Ground Rod per NEC

Weatherproof 20A breaker (120 V service or meet state requirement.) Ground fault circuit interrupter required.
FLUSH MOUNT

3'-0" (TYP) CLEARANCE

FINAL GRADE

5'-0" MIN. - 6'-0" MAX.

42" MIN.

SCHEDULE 80 PVC OR RIGID METALLIC (GALVANIZED)

CUSTOMER SERVICE PANEL

SURFACE MOUNT

6'-0" (TYP) CLEARANCE

FINAL GRADE

5'-0" MIN. - 6'-0" MAX.

42" MIN.

CONTINUOUS CONDUIT AND CONDUCTORS PER PUD CHARTS #1, #2 & #3 SEE SECTION 11

CUSTOMER SERVICE PANEL

NOTES:
(1) SEE SECTION 11, CHART #1 & 2. FOR CONDUIT AND CONDUIT BEND REQUIREMENTS.
(2) GROUND RODS PER NEC REQUIREMENTS
NOTES:

1. METER SITES #1, #2, AND #3 ARE RECOMMENDED METER LOCATIONS.
2. METER AT SITE #3 MUST BE A MINIMUM OF 5' FROM SIDE OF TRANSFORMER AND AT A HEIGHT OF BETWEEN 3 FEET AND 4 FEET.
3. THE CUSTOMER SHALL FURNISH A METER LOCATION ACCEPTABLE TO THE DISTRICT, READILY ACCESSIBLE WITHOUT RISK OF BODILY HARM TO DISTRICT EMPLOYEES.
DECKS AND RAILING SHALL CONFORM TO ALL UBC, STATE AND LOCAL BUILDING CODES.

ELEVATION VIEW

PLAN VIEW

18° MIN.  18° MIN.

36° MIN.
NOTES:
1. SERVICE EQUIPMENT MUST HAVE 8' GROUND ROD w/ #6 COPPER CONNECTED TO ELECTRICAL EQUIPMENT.
2. FILL UNDER SLAP MUST BE COMPACTED TO 95%
3. METER BASE MUST BE 6' MINIMUM FROM DISTRICT POLE.
1. SERVICE EQUIPMENT MUST HAVE 8' GROUND ROD W/ #6 COPPER CONNECTED TO ELECTRICAL EQUIPMENT.
2. FILL UNDER SLAB MUST BE COMPACTED TO 95%
3. METER BASE MUST BE 6' MINIMUM FROM DISTRICT POLE.
NOTES:
1. SERVICE EQUIPMENT MUST HAVE 8' GROUND ROD
   w/ #6 COPPER CONNECTED TO ELECTRICAL
   EQUIPMENT.
2. FILL UNDER SLAB MUST BE COMPACTED TO 95%
3. METER BASE MUST BE 6' MINIMUM FROM DISTRICT POLE.
### Meter Socket Clip Arrangement

#### Single Phase

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Wires</th>
<th>Max. Amps</th>
<th># Clips</th>
<th>Sockets</th>
<th># C.T.</th>
<th># Clips</th>
<th>Sockets</th>
</tr>
</thead>
<tbody>
<tr>
<td>120/208</td>
<td>3</td>
<td>200</td>
<td>5</td>
<td>B</td>
<td>2</td>
<td>8</td>
<td>F/TEST SW.</td>
</tr>
<tr>
<td>120/240</td>
<td>3</td>
<td>320</td>
<td>4</td>
<td>A</td>
<td>2</td>
<td>6</td>
<td>C/TEST SW.</td>
</tr>
<tr>
<td>480</td>
<td>3</td>
<td>200</td>
<td>4</td>
<td>A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Three Phase

<table>
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<th>Voltage</th>
<th>Wires</th>
<th>Max. Amps</th>
<th># Clips</th>
<th>Sockets</th>
<th># C.T.</th>
<th># Clips</th>
<th>Sockets</th>
</tr>
</thead>
<tbody>
<tr>
<td>208/120</td>
<td>4</td>
<td>200</td>
<td>7</td>
<td>D</td>
<td>3</td>
<td>13</td>
<td>E/TEST SW.</td>
</tr>
<tr>
<td>240</td>
<td>4</td>
<td>200</td>
<td>7</td>
<td>D</td>
<td>3</td>
<td>13</td>
<td>E/TEST SW.</td>
</tr>
<tr>
<td>480</td>
<td>4</td>
<td>200</td>
<td>7</td>
<td>D</td>
<td>3</td>
<td>13</td>
<td>E/TEST SW.</td>
</tr>
<tr>
<td>480/277</td>
<td>4</td>
<td>200</td>
<td>7</td>
<td>D</td>
<td>3</td>
<td>13</td>
<td>E/TEST SW.</td>
</tr>
</tbody>
</table>

**Note:**
All socket-type meters shall be furnished with district approved sealing ring (see section 3.6.9 of this manual for detail).

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**Date:** 9/17/93  **Scale:** NONE  **Electrical Service Requirements**
**Meters Socket Clip Arrangement**

**Drawn by:** KMD  **Revised:** 05/05/97
**Approved:** 10/29/98  **Page 18 of 37**  **Drawing # 18**

H:\ENGSTANDRD\SPECS\SERV18
200A BY-PASS METER BASE

ENCLOSURE DEPTH = 4-1/2" MIN.

BYPASS CLAMP LEVER

TO PANEL

RIGID GALVANIZED CONDUIT OR SCH. 80 PVC

SOURCE

200A METER BASE

ENCLOSURE DEPTH = 4-1/2" MIN.

TO PANEL

RIGID GALVANIZED CONDUIT OR SCH. 80 PVC

SOURCE

NOTE:
ALL METERS MUST HAVE A MINIMUM OF (1) 8' GROUND ROD
W/#6 COPPER CONNECTED TO ELECTRICAL EQUIPMENT
WEATHERHEAD
MINIMUM WIRE SIZE #8
DEADEND SERVICE SPOOL
CONDUIT
MINIMUM SUPPORT (4 x 4 BRACED MINIMUM OF TWO WAYS)
NEUTRAL
CENTER OF METER SOCKET TO BE 60" TO 72" FROM GROUND
DISCONNECT SWITCH
GROUND WIRE & GROUND ROD AS PER N.E.C. 250-94

(3) WIRE 240 VOLT

TEMPORARY

8" MAX (TYP)
BLACK (2)
WHITE
D.E. SERVICE SPOOL 2' MIN. GALVANIZED
METER SOCKET

DISCONNECT SWITCH OR BREAKER, 200 AMPS MAX.

120/240 VOLT
(3) WIRE 10
200 AMPS OR LESS

GROUND SIZE IN ACCORDANCE WITH N.E.C. 250-94

PERMANENT

NOTE
SERVICE EQUIPMENT MUST HAVE (2)
8' GROUND RODS (6' MIN SEPARATION) W/ #4 COPPER CONNECTED TO ELECTRICAL EQUIPMENT, AS PER N.E.C. 250-94
SEVEN TERMINAL LEVER BYPASS METER SOCKET

ALL METER BASES ARE 200 AMPS OR LESS
NOTE: SEE PUD DRAWING 11 OR 16 FOR INSTALLATION

UNGROUNDED PHASE CONDUCTORS

PARALLEL RUNS TO LOAD

ONE SET PARALLEL CONDUCTORS TO BE MARKED WITH RED TAPE
NEUTRAL TO BE MARKED WITH WHITE

DATE 12/13/94  SCALE NONE  ELECTRICAL SERVICE REQUIREMENTS
DRAWN KMD  REVISED 05/05/97 8/13/04  TYPICAL 320 AMP LEVER TYPE BYPASS METER BASE (UNDERGROUND)
APPROVED

CLALLAM COUNTY PUD #1  PAGE 22 OF 37  DRAWING # 22

H:\ENGSTANDRD\SPEC\SERV22
ONE SET PARALLEL
CONDUCTORS TO BE
MARKED WITH RED TAPE
NEUTRAL TO BE MARKED
WHITE

FROM SOURCE

NOTE: SEE PUD DRAWING 2 OR 7
FOR INSTALLATION

PARALLEL RUNS
TO LOAD
NOTES:

- 208/120 VOLT THREE(3) WIRE SINGLE PHASE METER SOCKET TO BE FIVE(5) TERMINAL LOCATED ON LEFT SIDE FACING METER.
- ALL LOAD TO BE BALANCED BETWEEN PHASES. (+ OR -10% OF NOMINAL AVERAGE LOAD)
- LOAD CENTER MAY BE TOP OR BOTTOM CONNECTED.
- LOAD CENTER TO BE APPROVED BY THE DISTRICT BEFORE BEING INSTALLED.
- NON-SHUNTING TYPE METER SOCKETS.
- ALL METERS SHALL BE IDENTIFIED WITH A PERMANENT TYPE LABEL AS TO LOCATION OF SERVICE. SEE REQUIREMENTS SECTION 1.5.1, 1.5.2
- MIN. SOCKET CENTER SEPARATION=8" HORIZ. AND 10" VERT.
ONE SET PARALLEL CONDUCTORS TO BE MARKED WITH RED TAPE

NEUTRAL TO BE MARKED WHITE

OVERHEAD SERVICE RISERS, OR GO OUT BOTTOM FOR UNDERGROUND SERVICE

TO OBTAIN SERVICE, PHASE CONDUCTORS ARE TO BE MARKED AT EACH CONDUIT. EACH CONDUIT TO BE INDEPENDENT OF THE OTHER. CONDUCTORS TO BE MARKED AT EACH END AND CORRECTLY PHASED & SOURCE SIDE OF BUSS. OR CURRENT TRANSFORMER

6 TERMINAL SOCKET WITH ROOM FOR TEST SWITCH

RIGID GALVANIZED CONDUIT PER DISTRICT REQUIREMENTS 4.3.13 AND 4.3.14

SEE SECTION 4.15 FOR ENCLOSURE SIZES

G R A D E

7' MAX

12' MIN

5' MIN, 6' MAX

NOTES:
* ALL OUTDOOR ENCLOSURE MUST HAVE THE GROUND ROD INSTALLED AT THE ENCLOSURE LOCATION & CONNECTED TO ELECTRICAL EQUIPMENT
* NO SPLICES IN C.T. ENCLOSURES

DATE 12/12/94  SCALE NONE

DRAWN KMD  REVISI 8/13/04 05/07/97
APPROVED 10/29/98 10/21/08 11/21/14

H:\ENGSTANDARD\SPECSSERV25
NOTE:

* All outdoor enclosures must have (1) 8' ground rod with #6 copper connected to electrical equipment.
* To obtain service, phase conductors are to be marked at each conduit, each conduit to be independent of the other.
* No splices in C.T. enclosure.
* Fill under slab must be compacted to 95%.
* Source and load conductors must be clearly identified and tagged at each landing pad connection.
3Ø CURRENT TRANSFORMER METERING, OUTSIDE ONLY

NOTES:
* SERVICE EQUIPMENT MUST HAVE (2) 8' GROUND RODS (6' MIN SEPARATION w/ COPPER GROUND LEADS CONNECTED TO ELECTRICAL EQUIPMENT AS PER NEC.
* BOND TO CT ENCLOSURE
* FOR UNDERGROUND SERVICE MOUNT SIMILAR TO DRAWING #26 CONNECT CONDUIT TO BOTTOM
P.U.D. TO FURNISH AND INSTALL CT'S

REMOVABLE BUS LINK

CT BRACKET SUPPLIED BY SWITCHGEAR MANUFACTURER

POTENTIAL TAP SCREW

SET SCREW CONNECTORS ACCEPTABLE THRU 350 MCM CONDUCTOR. CONDUCTORS LARGER THEN 350 MCM MUST BE TERMINATED WITH NEMA 2-HOLE COMPRESSION CONNECTORS.

PUD TO FURNISH AND INSTALL WIRING

PUD TO FURNISH AND INSTALL CT's

NEUTRAL TAP

GROUND ROD (TYP)

TO METER

NOTES:

* SEE DRAWING #18 FOR METER BASE REQUIREMENTS

* SOURCE AND LOAD CONDUCTORS MUST BE CLEARLY IDENTIFIED AND TAGGED AT EACH LANDING PAD CONNECTION.
PRIMARY OR SERVICE TRENCH

NOTES:

1. 12-INCH MINIMUM RADIAL SEPARATION IS REQUIRED EXCEPT WHERE RANDOM SEPARATION IS PERMITTED IN ACCORDANCE WITH NESC SECTION 354.

2. AN EXCEPTION TO MINIMUM TRENCH DEPTH MAY BE PERMITTED BY AUTHORIZED PERSONNEL DUE TO OBSTRUCTIONS OR ROCK SUBGRADE. IF DEPTH OF CONDUIT COVER IS LESS THAN 30-INCHES, THE CONDUIT SHALL BE PROTECTED BY A 6-INCH MINIMUM CONCRETE CAP AS SHOWN. (SEE DETAIL A & NOTE 4)

3. SEE WAC 296-155-657 FOR EXCAVATION, TRENCHING AND SHORING REQUIREMENTS.

4. MINIMUM 2,500 PSI STRENGTH CONCRETE WITH RED DYE IDENTIFIER TO A DEPTH OF 1-INCH AND/OR WARNING TAPE LOCATED ALONG TRENCH CENTERLINE, 12-INCHES ABOVE CONCRETE. (SEE DETAIL A)
NOTES:
1) THE ABOVE EXAMPLE IS INTENDED FOR 200A AND 320A SINGLE PHASE SERVICE WITH ONE RUN OF 4/0-4/0-2/0 IN 2" CONDUIT OR TWO RUNS OF 4/0-4/0-2/0 IN 3" CONDUIT.
2) CONTACT 1-800-424-5555 FOR LOCATIONS OF UNDERGROUND UTILITIES.
3) NO STANDING WATER ALLOWED IN TRENCH.
4) CONTACT THE PUD TO DETERMINE REQUIREMENTS FOR CONNECTION OF SERVICE OTHER THAN DESCRIBED ABOVE.
5) TWO INCH CONCRETE COVER IF TRENCH DEPTH LESS THAN 18".
6) PUD WILL PUSH CUSTOMER PROVIDED CONDUCTORS INTO CONDUIT FOR SERVICES UP TO 30 FEET.
7) CUSTOMER/CONTRACTOR CONNECT TO PUD PVC STUBOUT.
NOTES:

1) THE ABOVE EXAMPLES ARE INTENDED FOR 200A AND 320A SINGLE PHASE SERVICE WITH ONE RUN OF 4/0-4/0-2/0 IN 2" CONDUIT OR TWO RUNS OF 4/0-4/0-2/0 IN 3" CONDUIT.

2) CONTACT 1-800-424-5555 FOR LOCATIONS OF UNDERGROUND UTILITIES.

3) EXCAVATE BY HAND WITHIN TWO FEET OF OTHER UTILITY LOCATE MARKS.

4) NO STANDING WATER ALLOWED IN TRENCH.

5) CONTACT THE PUD TO DETERMINE REQUIREMENTS FOR CONNECTION OF SERVICE OTHER THAN DESCRIBED ABOVE.

6) PUD WILL PUSH CUSTOMER PROVIDED CONDUCTORS INTO CONDUIT FOR SERVICES UP TO 30 FEET.

7) CUSTOMER/CONTRACTOR CONNECT TO PUD PVC STUBOUT.
NOTE: ALL PARTS TO BE 316 STAINLESS EXCEPT NUTS. NUTS TO BE SILICON BRONZE.

1/2" x 1 1/2" BOLT (OR 1/2" x 2" IF BACK TO BACK INSTALLATION)

BELLAIRE WASHER

TYPICAL N.E.M.A. 2 HOLE SPADE CONNECTORS COMPATIBLE WITH SERVICE ENTRANCE CONDUCTOR COMPRESSED ON CONDUCTOR IN ACCORDANCE MANUFACTURE RECOMMENDATIONS

ON THREE PHASE PADMOUNTS:
WITH 350 MCM OR SMALLER DISTRICT PROVIDES MULTI-LUG CONNECTORS

(SEE DETAIL)

ON THREE PHASE PADMOUNTS:
FOR CONDUCTORS LARGER THAN 350 MCM CUSTOMER SHALL FURNISH HARDWARE

ELEVATION VIEW PAD MOUNT TRANSFORMER
REFERENCE: WAC 296-46-480  
NESC TABLE 234-1

SWIMMING POOL
OR BODY OF WATER

SEE NOTE 4
5' FROM NON-COMBUSTIBLE MATERIAL, OR
8' FROM COMBUSTIBLE MATERIAL FROM
NEAREST METAL PART.

WINDOW, VENT OR ANY
OTHER OPENING.

DOOR

8'

FIRE ESCAPE

15'

FIRE SPRINKLER, VALVE, STANDPIPE, FIRE
HYDRANT, OR NATURAL GAS CONNECTIONS,
VALVES OR GAUGES. (NESC 127)

3'

FENCES, SHRUBS
AND TREES

10'

NOTE 5

15'

DOOR SIDE OF
TRANSFORMER

WALL OR STRUCTURES
(NON-BUILDING)

FIRE
HYDRANT

Notes:
1. ALL MEASUREMENTS FROM NEAREST METAL PART OF THE TRANSFORMER.
2. MINIMUM 20' CLEARANCE FROM COMBUSTIBLE FUEL STORAGE TANKS.
3. PADMOUNT EQUIPMENT SHALL BE NOT MORE THAN 15' FROM ACCESS ROAD OR DRIVEWAY.
4. NON-COMBUSTIBLE: BRICK, CONCRETE, STEEL AND STONE.
5. LANDSCAPING WHICH DOES NOT INTERFERE WITH OPERATION AND MAINTENANCE OF THE
   TRANSFORMER IS ALLOWED.
6. GROUND MUST SLOPE AWAY FROM BUILDING FOR TRANSFORMER INSTALLATION SHOWN.
GUARD POSTS SHALL BE FURNISHED AND INSTALLED BY THE CUSTOMER WHEN PADMOUNT EQUIPMENT IS LOCATED WITHIN AN AREA OF VEHICULAR TRAFFIC. THE DISTRICT SHALL DETERMINE THE NUMBER AND LOCATION OF ALL GUARD POSTS.

GUARD POST LOCATIONS

- GUARD POSTS ARE REQUIRED BY THE STATE OF WASHINGTON ELECTRICAL INSPECTION DIVISION PARAGRAPH FOUR (4) OF WAC 296-46-480 "LOCATION OF PADMOUNT TRANSFORMERS", WHEN LOCATED WHERE EXPOSED TO VEHICULAR TRAFFIC OR OTHER MOBILE TYPE MACHINERY.
- GUARD POSTS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AT NO EXPENSE TO THE DISTRICT.
- THE DISTRICT SHALL DETERMINE THE NUMBER AND ESTABLISH THE LOCATIONS OF ALL GUARD POSTS.
- TWO TYPES OF GUARD POSTS ARE ACCEPTED BY THE DISTRICT. TYPE ONE IS A 6' X 60' STEEL PIPE SET IN AND FILLED WITH CONCRETE. TYPE TWO IS A 9' X 72' PRECAST STEEL REINFORCED CONCRETE POST SET IN CONCRETE. THE EXPOSED PORTION OF THE POST SHALL BE PAINTED HIGHWAY YELLOW.

REFER TO PAGE 34 FOR BUILDING CLEARANCES.

TYPICAL EXAMPLES
This page intentionally left blank
ENTIRE LOAD TRANSFERABLE

To Meter and Service Equipment

Double Throw Switch

Standby Generator

TRANSFERABLE LOAD

PARTIAL LOAD TRANSFERABLE

To Meter and Service Equipment

Double Throw Switch('s)

NON-TRANSFERABLE LOAD

Standby Generator

TRANSFERABLE LOAD

CUSTOMER GENERATION AND TRANSFER SWITCHES