RESIDENTIAL ELECTRICAL SERVICE PANEL
OVERHEAD INSTALLATIONS

MIN. 18' IF PASSING OVER
MAX. 6' OF ROOF OVERHANG
CEC SECTION 230-24(A)
EXCEPTION 3

MIN. 36' IF PASSING OVER MORE
THAN 6' OF ROOF OVERHANG
CEC SECTION 230-24(A)
EXCEPTION 2

MIN. 8' IF ROOF PITCH
LESS THAN 4/12
CEC SECTION 230.24(A)

10' TO BOTTOM OF D RIP LOOP
CEC SECTION 230.24(B)(1)

12' TO BOTTOM OF D RIP LOOP IF OVER
RESIDENTIAL DRIVEWAYS
CEC SECTION 230.24(B)(2)

MIN. 4'6" TO MAX. 6'2" (MID)
MIN. 4" TO MAX. 6'3" (TID)

GROUNDING ELECTRODE
(IF UFFER NOT
PROVIDED) CAN BE A
LISTED MIN. 1/2"X8";
STAINLESS STEEL,
NON-FERROUS (COPPER)
OR EQUIVALENT ROD,
OR A 3/4"X8" GALV.
PIPE PER CEC SECTION
250.52(A)(5)

MIN. 2-GANG PLASTER
RING UFFER ACCESS
(WHEN INSIDE WALL)

SECURE CONDUIT WITHIN 36"
OF HUB PER CEC
CHAPTER 3

DRIP LOOPS REQUIRED
CEC SECTION 230-54(F)

BRACE KIT REQUIRED
WHEN OVER 30" IN
LENGTH PER MID

FLASHING

BONDING
REQUIRED PER CEC SECTION
250.104(A)
and (B); MAIN
WATER GAS;
BONDING JUMPER
FROM COLD
WATER TO HOT
(TYPICALLY AT
WATER HEATER)

GROUNDING ELECTRODE
CONDUCTOR

MIN. 4 AVG COPPER OR #4 REBAR 20'
IN LENGTH UFFER GROUND, INSTALLED
WITHIN AND NEAR THE BOTTOM OF
FOOTING PER CEC SECTION
250.52(A)(3)

* CONDUIT REQUIRED FOR EXPOSED GROUNDING ELECTRODE CONDUCTOR (EXCEPTION 6
AWG WHERE RUN ON SURFACE OF BUILDING AND FREE FROM EXPOSURE TO PHYSICAL
DAMAGE) PER CEC SECTION 250.64(B). CONDUIT REQUIRED TO BE ELECTRICALLY
CONTINUOUS PER CEC SECTION 250.64(E)

* MIN. 30' WIDE X 36" IN FRONT CLEAR WORKING SPACE REQUIRED UP TO 6'6"
ABOVE GRADE PER CEC SECTION 110.26(A)

<table>
<thead>
<tr>
<th>AMP RATING OF SERVICE</th>
<th>SIZE OF SERVICE ENTRANCE CONDUCTORS</th>
<th>SIZE OF SERVICE RISER CONDUIT</th>
<th>SIZE OF GROUNDING ELECTRODE CONDUCTOR</th>
<th>SIZE OF BONDING CONDUCTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>COPPER</td>
<td>ALUM.</td>
<td>COPPER</td>
<td>ALUM.</td>
</tr>
<tr>
<td>100</td>
<td>4 AVG</td>
<td>2 AVG</td>
<td>1 1/4&quot;</td>
<td>1 1/4&quot;</td>
</tr>
<tr>
<td>125</td>
<td>2 AVG</td>
<td>1/0 AVG</td>
<td>1 1/4&quot;</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>150</td>
<td>1 AVG</td>
<td>2/0 AVG</td>
<td>1 1/4&quot;</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>200</td>
<td>2/0 AVG</td>
<td>4/0 AVG</td>
<td>1 1/2&quot;</td>
<td>2&quot;</td>
</tr>
</tbody>
</table>

Updated 1/28/2009