When new footings are available:

Provide copper concrete-encased electrode per NEC 250-50(c)

ONLY UV (SUNLIGHT) RESISTANT WIRE

Rigid conduit (see table below)

Neutral/ground bar

Grounding electrode conductor inside armored cable (see table below)

Ground clamp approved for direct burial

Natural grade

6" below ground surface

1/2" copper clad steel rod driven a minimum of 8' deep (2 @ 6' mir)

<table>
<thead>
<tr>
<th>Service Size</th>
<th>100 Amp</th>
<th>125 Amp</th>
<th>150 Amp</th>
<th>200 Amp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Entrance Conductors</td>
<td>#4 CU #2 AL</td>
<td>#2 CU 1/0 AL</td>
<td>#1 CU 2/0 AL</td>
<td>#2/0 CU 4/0 AL</td>
</tr>
<tr>
<td>Grounding Electrode Conductor</td>
<td>#8 CU #6 AL</td>
<td>#8 CU #6 AL</td>
<td>#6 CU #4 AL</td>
<td>#4 CU #2 AL</td>
</tr>
<tr>
<td>Service Entrance Conduit</td>
<td>1 1/4&quot;</td>
<td>1 1/4&quot;</td>
<td>1 1/2&quot;</td>
<td>2&quot;</td>
</tr>
</tbody>
</table>

Please see reverse side.
(c) Concrete-Encased Electrode. An electrode encased by at least 2 in. (50.8 mm) of concrete, located within and near the bottom of a concrete foundation or footing that is in direct contact with the earth, consisting of at least 20 ft (6.1 m) of one or more bare or zinc galvanized or other electrically conductive coated steel reinforcing bars or rods of not less than 1/2 in. (12.7 mm) diameter, or consisting of at least 20 ft (6.1 m) of bare copper conductor not smaller than No. 4. Reinforcing bars shall be permitted to be bonded together by the usual steel tie wires or other effective means.

250-56. Resistance of Made Electrodes. A single electrode consisting of a rod, pipe, or plate that does not have a resistance to ground of 25 ohms or less shall be augmented by one additional electrode of any of the types specified in Sections 250-50 or 250-52. Where multiple rod, pipe, or plate electrodes are installed to meet the requirements of this section, they shall not be less than 6 ft (1.83 m) apart.

FPN: The paralleling efficiency of rods longer than 8 ft (2.44 m) is improved by spacing greater than 6 ft (1.83 m).