SERVICE GROUNDING NOTES:

1. The service neutral conductor shall be continuous from the service connection to the ground rod on the standard or ground rod as shown in the types of service grounding.
2. All standards shall have grounding rods or lugs for connection of grounding conductors.
3. The ground rod shall be a 5/8" x 10 ft. long copper clad steel. The ground rod shall be furnished with additional approved wire connectors where required.
4. B.S.C.M. denotes bare stranded copper wire.

CIRCUIT PROTECTION REQUIREMENTS

<table>
<thead>
<tr>
<th>MAIN FUSE</th>
<th>BRANCH CIRCUITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE OF SERVICE</td>
<td>120/240 VOLT, 4-WIRE, 120 AMP</td>
</tr>
<tr>
<td>SERVICE CONDUIT</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>EACH FEEDER CONDUCTOR</td>
<td>120/240 VOLT, 4-WIRE, 120 AMP</td>
</tr>
<tr>
<td>CIRCUIT CURRENT</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>MAIN FUSE (CIRCUIT CURRENT)</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>TYPE</td>
<td>CIRCUIT CURRENT</td>
</tr>
<tr>
<td>120/240 VOLT, 4-WIRE, 120 AMP</td>
<td></td>
</tr>
</tbody>
</table>

"MAINT", "FEEDER" AND BRANCH FUSEHOLDER NOTES:

1. Provide fuseholders for fuses as shown in the applicable details and in accordance with the schedule shown on this plan.
2. Connecting wires shall be of the appropriate size for the conductors shown on the plan.
3. Fuseholders shall be installed as follows (unless otherwise noted or specified):
   - "Main" and individually served street lights located less than 35 ft. from service location in pull box nearest service box.
   - "Branches" and individually served street lights located more than 35 ft. from service location in pull box nearest service light standards.
4. Main fuse shall not be less than two times the fuse current, nor less than the largest branch fuse size.
5. Fuse holders for service fuses shall be furnished with "breakaway" feature. A 3-phase simultaneous disconnecting fuse holder shall be furnished with "main" fuses for 24 circuits. 828 fuses for 24 circuits. "Main" fuses required for each luminare.

This Standard Plan was developed for use on public works projects in the City and County of San Francisco, and shall not be used without consulting a Registered Professional Engineer. The Department of Public Works reserves the right to make revisions to this Standard Plan at any time.

BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY AND COUNTY OF SAN FRANCISCO

STANDARD PLAN
ELECTRICAL
STREET LIGHT SERVICE AND CIRCUIT REQUIREMENTS

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