Specifications

Materials:
- Mast Arm & Pole: Allowable Yield $F_y = 380 \text{ MPa (55 ksi)}$ min.
- Luminare Arm: Allowable Yield $F_y = 331 \text{ MPa (48 ksi)}$ min.
- Baseplate & Structural Steel: ASTM A36 steel 248 MPa (36 ksi)
- Pipe: ASTM A53 GR "B" steel
- Castings: ASTM A27 GR 65.35 steel
- Anchor bolt: ASTM A307
- Cap Screws: High strength Bolt ASTM 325N or ASTM 325X
- Welds: All butt weld to be ground flush with base metal. Longitudinal – Butt weld by the submerged arc process. Curvature– Butt weld with permanent back-up ring.
- Reinforced Concrete: $f_c = 20.7 \text{ MPa (3000 psi)}$
- Finish:
  - Pole: Galvanized per ASTM A123
  - Hardware: Galvanized per ASTM A153
- Wind Velocity: 160 km/h (100mph)

Notes:
1. Mast arm shall not deflect below horizontal plane when fully loaded and plumbed vertically.
2. For connection details, signal mounting & framework, and pole foundation details, see County Standard Details E/44, E/42 & E/43.
3. Signal head shall be 305mm (12") Red, Yellow, Green sections with backplate and visor, weighing 29kg (65 lbs) maximum. Minimum vertical clearance as specified in table shall be met.
4. Regulatory sign shall be 914mm x 914mm (3’ x 3’) max. in size weighing 11kg (25 lbs) max. See Table for connection details.
5. Street name sign shall be 560mm x 1830mm (22” x 6’-0”) max. in size weighing 29kg (65 lbs) max. Minimum vertical clearance shall be 4.9m (16’).
6. Optional reduction in thickness to 6.07mm (3 Go) from spire to end of mast arm for the 19.81m (65') mast arm.

Legend

<table>
<thead>
<tr>
<th>2006 Caltrans Standard Plan Sheet No.</th>
<th>Detail No.</th>
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<tbody>
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<thead>
<tr>
<th>SIGNAL ARM DATA</th>
<th>LUMINARE ARM DATA</th>
<th>SIGNAL HEAD CLEARANCE</th>
</tr>
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<tbody>
<tr>
<td>Pole Type</td>
<td>A</td>
<td>B</td>
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<tr>
<td>SCC 26–6–160 (26–6–100)</td>
<td>16.76m (55’-0&quot;)</td>
<td>3.2m (10’-6&quot;)</td>
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<tr>
<td>SCC 29–6–160 (29–6–100)</td>
<td>19.81m (65’-0&quot;)</td>
<td>3.96m (13’-0&quot;)</td>
</tr>
</tbody>
</table>

Santa Clara County Roads and Airports Department

SANTA CLARA COUNTY ROADS AND AIRPORTS DEPARTMENT

STANDARD DETAILS

SIGNAL STANDARD

TYPE SCC 29–6–160 (29–6–100) AND
TYPE SCC 26–6–160 (26–6–100)