



San Francisco Public Works
 General – Director’s Office
 49 South Van Ness Ave., Suite 1600
 San Francisco, CA 94103
 (628) 271-3160 www.SFPublicWorks.org

Public Works Order No: 206502

WOODEN UTILITY POLES

- **General limitations:** No wireless equipment may be attached to utility poles that are within 9' of any residential windows measured on a horizontal plane.
- **Use of shrouds:**
 - **Shrouds required:** All antennas must be in shrouds. Shrouds can be used only for antennas for a combination of antennas and ancillary equipment. For the purposes herein, a covered, integrated antenna/radio unit shall be considered a single shroud.
 - **Applicability of size limitations:** The shroud size limitations set forth below apply whether the shroud is used for antennas only or for a combination of antennas and ancillary equipment, or is a covered, integrated antenna/radio unit.
- **General requirements for wooden utility poles (all Compatibility Standards):**
 - **Design preference ladder:**
 - **Preference One:** Pole-top shroud without a taller replacement pole or pole-top extension. Re-arrange electric lines to meet CPUC General Order 95 separation requirements without increasing height of pole.
 - **Preference Two:** Side-mounted shrouds located on cross-arms without a taller replacement pole. Location on pole as required by CPUC General Order 95. No more than one cross-arm per pole. No cross-arm may have more than two shrouds.
 - **Preference Three:** Pole-top shroud with a taller replacement pole. Height of shroud after pole replacement does not exceed the lesser of: (a) 10' above height limit for the applicable zoning district; or (b) 10' above the height of the existing pole. A 12' clearance is permitted if required by CPUC General Order 95. The height measurements must be taken from ground level.
 - **Preference Four:** Side-mounted shrouds located on cross-arms with a taller replacement pole. Height of pole with shroud after pole replacement does not exceed the lesser of: (a) 10' above height limit for the applicable zoning district; or (b) 10' above the height of the existing pole. A 12' clearance is permitted if required by CPUC General Order 95.
 - **Preference Five:** Pole-top shroud with a pole-top extension. Height of pole with shroud after pole extension does not exceed the lesser of: (a) 10' above height limit for the applicable zoning district; or (b) 10' above the height of the existing pole. A 12' clearance is permitted if required by CPUC General Order 95. The height measurements must be taken from ground level.
 - **Preference Six (disfavored designs):**

- Pole-top shroud with a taller replacement pole or pole-top extension where the height of pole with shroud after the pole replacement or extension will exceed: (a) the height limit for the applicable zoning district by more than 10'; or (b) the height of existing pole by more than 10'. A 12' clearance is permitted if required by CPUC General Order 95. The height measurements must be taken from ground level.
- Side-mounted shrouds to be installed on a cross-arm on a pole located: (a) on a street with excellent views; (b) in a S.F. Planning Code Article 10 Landmark District; (c) in front of a S.F. Planning Code Article 10 designated landmark; (d) in a S.F. Planning Code Article 11 Conservation District; or (e) in front of a S.F. Planning Code Article 11 designated building.
- **Use of design preferences:** Applicants must use Preference One whenever feasible. If infeasible, Applicant must explain to Public Works the reasons for needing to move down each rung of the design preference ladder. Applications using Preference Six (disfavored design) must be approved by the Planning Department. Approval will not be granted unless Applicant shows this design is the only feasible one.
- **Skirting:** For pole-top shroud, a skirt is required to create a streamlined appearance.
- **Shroud size limitations:**
 - Pole-top cylindrical shroud shall not exceed 48" x 21" (length, diameter).
 - Side-mounted shrouds shall not exceed either three cubic feet in volume or 28" x 16" x 11" (length, width, depth) each. The volume limitation does not apply to: (a) any cross-arms or other fixtures that are necessary to attach the shrouds to the pole; and (b) any necessary cabling.
- **Ancillary equipment**
 - **Multiple boxes:**
 - Multiple boxes for ancillary equipment shall appear to be no more than five distinctive components per pole.
 - Ancillary equipment boxes shall be stacked and consolidated where feasible.
 - No single ancillary equipment box may exceed 36" x 16" x 12" (length, width, depth).
 - **Single box:**
 - Ancillary equipment may be placed within a single box provided the single box would not interfere with any authorized pole attachments.
 - The single box shall not exceed 66" x 16" x 12" (length, width, depth).
 - **General requirements:**
 - All ancillary equipment shall be put into boxes if not placed in a shroud.
 - Ancillary equipment boxes shall be flush-mounted where allowed, otherwise 6" to 8" from pole.
 - Total volume of all ancillary equipment boxes may not exceed 28 cubic feet.

- Location of ancillary equipment boxes shall be as required by CPUC General Order 95.
 - Any required meter and/or disconnect switch shall be placed in the size equipment box, and installed at the height, required by the applicable electric service provider.
- **Clutter:** Existing pole clutter shall be reduced where feasible (i.e., unused cables, lines, equipment).
- **Equipment color:** All equipment, equipment boxes, shrouds, and skirts (if necessary) shall be painted to match existing pole color.
- **Special requirements for wooden utility poles near parks (Tier C Compatibility Standard)**
 - **Shrouds:**
 - Must be side-mounted.
 - Shall maintain a maximum 2' horizontal clearance from the centerline of the pole.
 - **Ancillary equipment boxes:**
 - No ancillary equipment box may exceed 36" x 16" x 12" (length, width, depth).
 - Ancillary equipment boxes must be a minimum height of 8' above the ground.
 - Total volume of all ancillary equipment boxes may not exceed 15 cubic feet in volume.

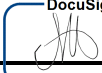
STEEL AND CONCRETE UTILITY POLES

- **General limitations:** No wireless equipment may be attached to utility poles that are within 9' of any residential windows measured on a horizontal plane.
- **Use of shrouds:**
 - **Shrouds required:** All antennas must be in shrouds. Shrouds can be used only for antennas for a combination of antennas and ancillary equipment. For the purposes herein, a covered, integrated 5G antenna/radio unit shall be considered a single shroud.
 - **Applicability of size limitations:** The shroud size limitations set forth below apply whether the shroud is used for antennas only or for a combination of antennas and ancillary equipment, or is a covered, integrated 5G antenna/radio unit.
- **Shroud size limitations:**
 - **Cylindrical shroud:** 48" x 21" (length, diameter).
 - **Hexagonal shroud:** 24" x 28.5" (length, diameter).
 - **Volume:** No shroud may exceed three cubic feet in volume.
- **Applicability of size limitations:** The shroud size limitations set forth below apply whether the shroud is used for antennas only or for a combination of antennas and ancillary equipment, or is a covered, integrated 5G antenna/radio unit.
- **Maximum ancillary equipment box size and location:**
 - **Multiple boxes:** If ancillary equipment will be placed in more than one box, no single box shall exceed 36" x 16" x 12" (length, width, depth) (spaced as close as possible).
 - **Single box:** Ancillary equipment may be placed within a single box provided the single box would not interfere with any authorized pole attachments. The single box shall not exceed 66" x 16" x 12" (length, width, depth).
 - **Volume:** Total volume of all ancillary equipment boxes may not exceed 28 cubic feet.
 - **Location:** Must be at a minimum height of 12'7" and a maximum height of 20'1".
- **Shroud locations and clearances:**
 - Cylindrical shroud to be at top of pole.
 - Hexagonal shroud to be as close as possible to streetlight arm without interfering with banners.
- **Meter/Disconnect switch:** Any required meter and/or disconnect switch shall be placed in the size equipment box, and installed at the height, required by the applicable electric service provider.
- **Shroud shape:**
 - Cylindrical shroud: Cone-shaped cylinder is preferred.
 - Hexagonal shroud: No preference for shape of bottom.
- **Equipment color:** All equipment, equipment boxes, shrouds, and skirts (if necessary) must match existing pole color.
- **Cabling:** No exposed cabling. Only conductors may be installed inside the street light pole.
- **Replacement pole:** Must be comparable to existing pole design but meet structural requirements.
- **Signage:**

- Identification plate: One identification plate with a maximum dimension of 7.5" x by 6" (length, width) (to specify facility owner's name and contact information) shall be attached directly to pole.
- Warning signs: Other signage that may be required by federal law.
- **Recreation & Park Department requirements.** For streetlight poles fronting City parks or open spaces, no shroud may exceed 2.5 cubic feet in volume.

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Huff, Nicolas C0A758C115B741C...
Bureau Manager

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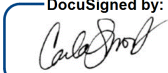
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Ko, Albert J 281DC30E04CF41A...
Deputy Director and City Engineer

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DocuSigned by:



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Short, Carla
Interim Director of Public Works