



# CITY OF REDONDO BEACH

## PUBLIC WORKS DEPARTMENT – ENGINEERING SERVICES DIVISION

### PUBLIC RIGHT-OF-WAY WIRELESS TELECOMMUNICATIONS SITING

#### PERMIT APPLICATION REQUIREMENTS:

Applicants are required to submit a complete Wireless Siting Project which includes, but is not limited to, the following items:

1. Engineering Permit forms to be filled out by the permittee at the time of application.
  - a. Engineering Permit Application:  
<https://www.redondo.org/civicax/filebank/blobdload.aspx?blobid=1532>
  - b. Engineering Permit Guidelines:  
<https://www.redondo.org/civicax/filebank/blobdload.aspx?blobid=1533>
  - c. NPDES Certification:  
<https://www.redondo.org/civicax/filebank/blobdload.aspx?BlobID=1537>
  - d. SWRPP Checklist:  
<https://www.redondo.org/civicax/filebank/blobdload.aspx?BlobID=1542>
2. Notarized Letter of Authorization from the Applicant/Permitee designating the person who can sign on behalf of the permittee.

Below is a link to the City's Signature Authorization Form for your use:

<https://www.redondo.org/civicax/filebank/blobdload.aspx?BlobID=33801>

3. Evidence of Applicant's Regulatory Authorization status under federal and California law to provide services and construct the proposed small cell wireless facility.
4. Engineering Plan Check Deposit Fee for Wireless Siting projects

Per the City's Master Fee Schedule, the Engineering Plan Check Fee for a Wireless Siting Project is the Actual Cost. The deposit amount is based on the current estimate of the City's average processing cost per wireless application which includes the City's consultant review fees and 6 hour of City staff time. Any unused portion of the deposit will be returned to the applicant/payee, however additional fees may be incurred should the actual cost of the review be more than the deposit. Below is a link to the Master Fee Schedule:

<https://www.redondo.org/civicax/filebank/blobdload.aspx?blobid=4018>

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5. Construction drawings: half scale (11" x 17" sheets downsized from 24" x 36") to include:
  - a. Vicinity Map
  - b. Equipment Details
  - c. Site Map
    - i. Any proposed infrastructure shall comply with the American with Disabilities Act (ADA) requirements for access. For new support structures, the adjacent sidewalk shall have a minimum of 36-inches clearance is required.
  - d. Existing and proposed improvements
  - e. Wet signed and stamped Structural Calculations required for proposed streetlight and foundation
  - f. Traffic Control
    - i. Must conform to the latest California Manuel of Uniform Traffic Control Devices (CA MUTCD).
    - ii. For streets that have a residential classification, the applicable figures of a typical application as shown in the latest CA MUTCD can be submitted. A site-specific detour plan is required for all road closures.
    - iii. For streets that do not have a residential classification, a site-specific Traffic Control Plan that is signed and stamped by a Registered Engineer is required.
6. A Radio Frequency ("RF") compliance report certifying compliance with federal standards and exposure limits. The RF report must be prepared certified by an RF engineer.
7. Photo simulations from a minimum of two (2) angles showing the existing site and the proposed small wireless facility in context and include all proposed equipment.
8. Appendix A form from the A Local Government's Official Guide to Transmitting Antenna RF Emission Safety: Rules, Procedures, and Practical Guidance.  
[http://wireless.fcc.gov/siting/FCC\\_LSGAC\\_RF\\_Guide.pdf](http://wireless.fcc.gov/siting/FCC_LSGAC_RF_Guide.pdf)
9. An executed Site License Agreement (SLA) for any project proposed on any structure owned or controlled by the City within the public right-of-way. This is a site-specific agreement.

**PERMIT REQUIREMENTS:**

Prior to the issuance of the permit, the following will be required:

1. Contractor to fill out the Contractor's portion of all Engineering Permit forms (see Application Requirements Section 1.a above).
  - a. See below for the City's Insurance Requirements:

<https://www.redondo.org/civicax/filebank/blobdload.aspx?BlobID=20807>

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2. Contractor to submit notarized letter of authorization designating the person who can sign on behalf of the contractor. Below is a link to the City's Signature Authorization Form for your use:

<https://www.redondo.org/civicax/filebank/blobdload.aspx?BlobID=33801>

3. Engineering Permit Fees

Per the City's Master Fee Schedule, the Engineering Permit Fee includes the following for a Wireless Siting Project:

- Engineering Permit Fee
- Engineering Inspection Fee
- Cleaning or Excavation – This is a deposit to ensure that all city property is returned to its original condition. Any unused portion of the deposit will be returned to the applicant/payee.

Below is a link to the Master Fee Schedule:

<https://www.redondo.org/civicax/filebank/blobdload.aspx?blobid=4018>

4. Any future work or maintenance requires a separate Engineering Permit for encroachment.

### **LOCATION REQUIREMENTS**

- A. Location Preferences. The City prefers small wireless facilities located in the public rights-of-way to be installed in the locations, ordered from most preferred to least preferred, as follows:
  1. Locations within areas designated as any of the land use categories listed in the General Plan as Commercial, Mixed Use, Industrial, or Public or Institutional categories (except where adjacent to public parks and open space areas), on or along arterial roads.
  2. Locations within areas designated as any of the land use categories listed in the General Plan as Commercial, Mixed Use, Industrial, or Public or Institutional categories (except where adjacent to public parks and open space areas), on or along collector roads.
  3. Locations within areas designated as any of the land use categories listed in the General Plan as Commercial, Mixed Use, Industrial, or Public or Institutional categories (except where adjacent to public parks and open space areas), on or along residential roads.
  4. Locations adjacent to public parks or open space areas on or along an arterial, collector, or residential road.
  5. Locations within areas designated as any of the Residential land use categories listed in the General Plan, on or along arterial roads.
  6. Locations within areas designated as any of the Residential land use categories listed in the General Plan, on or along collector roads.

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7. Locations within areas designated as any of the Residential land use categories listed in the General Plan, on or along residential roads.

**B. Support Structures**

The City prefers small wireless facilities located in the public rights-of-way to be installed on support structures, ordered from most preferred to least preferred, as follows:

1. Existing or replacement metal or composite streetlight or utility poles
2. New, non-replacement metal or composite streetlight poles
3. New, non-replacement metal or composite poles for small wireless facilities
4. Existing or replacement wood streetlight or utility poles

**DESIGN STANDARDS:**

- I. Antennas.
  - a. All antennas and associated mounting equipment, hardware, cables or other connectors must be completely concealed within an opaque antenna shroud or radome. The antenna shroud or radome must be painted a flat, non-reflective color to match the underlying support structure.
- II. Accessory Equipment.
  - a. All non-antenna accessory equipment shall be installed in accordance with the following preferences, ordered from most preferred to least preferred:
    - 1) underground in area in which utilities are primarily located underground in a vault that is load rated to meet the City's standards and specifications.
    - 2) on top of the pole or support structure with all associated mounting equipment, hardware, cables or other connectors completely concealed within a single opaque shroud painted a flat, non-reflective color to match the underlying support structure.
    - 3) on the pole or support structure outside of the climbing zone and flush mounted to the pole with all associated mounting equipment, hardware, cables or other connectors completely concealed within a single opaque shroud painted a flat, non-reflective color to match the underlying support structure to minimize the overall visual profile. Pole-mounted equipment may be installed behind street, traffic, or other signs. All cables, wires, and other connectors must be routed through conduits within the pole, and all conduit attachments, cables, wires and other connectors must be concealed from public view. To the extent that cables, wires, and other connectors cannot be route through the pole, applicants shall route them through a single external conduit or shroud that has been finished to match the underlying support structure.

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- 4) integrated into the base of the pole or support structure and installed within a shroud, enclosure, or pedestal integrated into the base of the support structure. All cables, wires, and other connectors must be concealed from public view.
- 5) ground mounted accessory equipment, including, but not limited to, any utility or transmission equipment, pedestal cabinets, panels, or electric meters shall not be approved.

**III. Streetlights.**

- a. Applicants that propose to install small wireless facilities on an existing streetlight must remove and replace the existing streetlight with one substantially similar to and meets the City's standards and specification but designed to accommodate wireless antennas and accessory equipment.
- b. To mitigate any material changes in the streetlighting patterns, the replacement pole must: A) be located as close to the removed pole as possible, B) be aligned with the other existing streetlights, and C) include a luminaire at substantially the same height and distance from the pole as the luminaire on the removed pole.
- c. All antennas must be installed above the pole within a single canister style shroud or radome that tapers to the pole.

**IV. Wood Utility Poles.**

- a. Applicants that propose to install small wireless facilities on an existing wood utility pole must install all antennas above the pole unless the applicant demonstrates that mounting the antennas above the pole would be technically infeasible as supported by clear and convincing evidence in the Site Justification.
- b. Side mounted antennas on a stand off bracket or extension arm must be concealed within a shroud. All cables, wires and other connectors must be concealed within the side arm mount or extension arm. The maximum horizontal separation between the antenna and the pole shall be the minimum separation required by applicable health and safety regulations.
- c. Applicants that propose to install small wireless facilities on a replacement wood utility pole must remove and replace the existing wood utility pole with one substantially similar in height and diameter unless the applicant demonstrate that a substantially similar replacement pole would be technically infeasible as supported by clear and convincing evidence in the Site Justification.

**V. New, Non-Replacement Poles**

- a. Applicants that propose to install small wireless facilities on a new streetlight in accordance with City standards, specifications and spacing requirements but designed to accommodate wireless antennas and accessory equipment.
- b. If there are no existing streetlights in the immediate vicinity, the applicant may install a metal or composite pole capable of concealing all necessary equipment

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- either within the pole or within an integrated enclosure located at the base of the pole.
  - c. All antennas must be installed above the pole within a single canister style shroud or radome that tapers to the pole.
- VI. Strand-Mounted Wireless Facilities.
- a. No more than one strand-mounted wireless facility may be installed between on any single span between two poles.
  - b. All strand-mounted equipment shall be finished in a non-reflective black color.
  - c. Any accessory equipment shall be painted to and textured to match the underlying pole.
  - d. "Snow shoes" and other spooled fiber or cables are prohibited.
- VII. Encroachments over Private Property.
- a. Small wireless facilities may not encroach onto or over any private property outside of the public rights-of-way without the owner's expressed written consent.
- VIII. Utility Connections.
- a. Underground cables and wires must transition directly into the pole base without any external doghouse.
  - b. All cables, wires and connectors between the underground conduits and the antennas and other accessory equipment shall be route through and concealed from view within: 1) internal risers or conduits if on a concrete, composite or similar pole; or 2) a cable shroud or conduit mounted as flush to the pole as possible.
- IX. Spools and Coils.
- a. To reduce clutter and deter vandalism, excess fiber optic or coaxial cables shall not be spooled, coiled or otherwise stored on the pole outside equipment cabinets or shrouds.
- X. Electrical Meters.
- a. Small wireless facilities shall use the flat-rate electrical service or other method that removes the need for a separate above-grate electric meter. If a flat-rate service is not available, the applicant may install a shrouded smart meter. A separate ground-mounted electrical meter pedestal shall not be approved.
- XI. Additional Requirements.
- a. The following requirements are to be complied with and are to be added to the construction drawings notes:  
*Additional Requirements:*
    1. *The permittee shall install and at all times maintain in good condition the RF emissions signage shown in the Plans.*

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2. *The permittee shall ensure that all RF signage complies with FCC OET Bulletin 65 or ANSI C95.2 for color, symbol and content conventions.*
3. *All such signage shall provide a working local or toll-free telephone number to its network operations center that reaches a live person who can exert transmitter power-down control over this site as required by the FCC.*
4. *The Contractor shall exercise all necessary precautions so as not to damage or destroy any trees and shall not trim or remove any trees unless such trees have been approved for trimming or removal by the City's Urban Forestry Manager.*
5. *All existing trees that are damaged during construction shall be trimmed and replaced by the Contractor or a certified tree company to the satisfaction of the City's Urban Forestry Manager.*
6. *Prior to starting any work, Contractor is to contact the City's Urban Forestry Manager at (310) 318 0687 ext. 4545.*