



# WIRELESS TELECOMMUNICATION FACILITIES PLAN CHECK CORRECTION SHEETS (2020 LABC)

Plan Review Date: \_\_\_\_\_

Plan Check #: \_\_\_\_\_ Permit Application Number: \_\_\_\_\_

Job Address: \_\_\_\_\_

Plan Check Engineer: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Your feedback is important, please visit our website to complete a Customer Survey at [www.ladbs.org/LADBSWeb/customer-survey.jsf](http://www.ladbs.org/LADBSWeb/customer-survey.jsf).

If you have any questions or need clarification on any plan check matters, please contact your plan check engineer and/or his or her supervisor.

## INSTRUCTIONS FOR PROCEEDING WITH THE PLAN CHECK (PC) PROCESS:

1. **Review corrections circled on this Plan Check Correction Sheet**, the plans, and the calculation sheets.
2. Provide a written response or reference to details pursuant to the corrections. Location of any revisions on the plans shall be identified as part of your responses. Any of the forms requested by this document can be found on-line at <https://www.ladbs.org/forms-publications/forms/green-building>.
3. Phone or email the Plan Check engineer for a verification appointment after you have addressed the corrections. Verification of corrections is only done by appointment.
4. Bring the originally checked set of plans and calculations at the time of your appointment with this plan correction sheet.
5. **If you have any questions or need clarification on any plan check matters, please contact a plan check supervisor at (213) 202-3400.**

## IMPORTANT ITEMS TO READ:

1. Your early attention is suggested to the approval process from other Departments as listed on the Plan Check Correction Sheet or the Clearance Summary Worksheet due to possible delays resulting from a public hearing or other processes required by other Departments. The City Planning Department, the Community Redevelopment Agency, and others may have requirements that could significantly affect the final design of the project.
2. The permit application will expire 18 months from the plan check submittal date.
3. Please be advised that the permit will be issued upon verification of compliance with the corrections included herein. The approval of plans does not permit the violation of any section of the Building Code, Zoning Code, other ordinance, or State law.
4. Italicized numbers refer to Code Sections of the 2020 Edition of the Los Angeles Codes or the current Zoning Code.

## PART I: GENERAL REQUIREMENTS

### A. PERMIT APPLICATION

1. Provide a legible fully dimensioned plot plan to scale, in ink, and copy it to the PCIS application plot plan sheet
2. The permit application must be signed by the property owner or licensed contractor or authorized agent at the time the permit is to be issued:
  - a. For owner-builder permits: Owner's signature can be verified with owner's driver license. Owner's representatives must present owner's approval with a notarized letter from the owner.

- b. For contractor building permits: Prior to the issuance of a building permit, the contractor shall have the following:
  - i. Notarized letter of authorization for agents.
  - ii. Certificate of workers Compensation Insurance made out to the Contractors State License Board.
  - iii. Copy of Contractor's State License or pocket ID.
  - iv. Copy of City of Los Angeles business tax registration certificate (BTRC) or a newly paid receipt for one.

As a covered entity under Title II of the Americans with Disabilities Act, the City of Los Angeles does not discriminate on the basis of disability and, upon request, will provide reasonable accommodation to ensure equal access to its programs, services and activities

**B. CLEARANCES**

- 1. Obtain sign-off for all clearances as noted on the attached Clearance Summary Worksheet. It is necessary to apply immediately for the signoff as it can take months for some departments to review the project. Comply with all conditions given by each departments/agencies as part of their approval prior to permit issuance.
- 2. Where there is an excavation of a greater depth than are the walls or foundation of an adjoining building or structure and located closer to the property line than the depth of the excavation, the owner shall provide the Department of Building and Safety with evidence that the adjacent property owner(s) have been given a 30-day written notice of such intent to make an excavation. This notice shall state the depth of such excavation and when it will commence. This notice is required to be by certified mail with return receipt. Provide the return receipt to the plan check engineer prior to permit issuance. *3307.1, P/BC 2020-060*
- 3. Soil/Foundation/Geology report(s) must be approved by the Grading Section. Provide a copy of the approved report and Department approval letter. Show compliance with the report's requirements and approval letter's conditions.
- 4. Obtain Clearance from the Green Building Division of LADBS.

**C. ADMINISTRATION**

- 1. Each sheet of the architectural and structural plans must bear the signatures and registration of an architect or engineer registered in the State of California

- 2. The address of the building, the name/address of the owner, and names/addresses of the consultants are required on their plans.
- 3. (One) (Two) sets of plans will be required during permit issuance. Plans must be: *106.3.2.2, 106.3.3*
  - a. Quality blue or black line drawings with uniform and light background color.
  - b. Max. 36' x 48" size with minimum 1/8" lettering size.
  - c. Sticky back details must produce prints without contrasting shades of background color.
- 4. The final set of plans must be stamped by:
 

<input type="checkbox"/> City Planning Dept.	<input type="checkbox"/> Accessibility Div.
<input type="checkbox"/> Green Building Div.	<input type="checkbox"/> Other: ( _____ )
- 5. Provide the following with each set of plans:
 

<input type="checkbox"/> Topographic Survey Map	<input type="checkbox"/> Grading Information
<input type="checkbox"/> Floor Plans	<input type="checkbox"/> Two Elevations
<input type="checkbox"/> Construction Sections	<input type="checkbox"/> Foundation Plans
<input type="checkbox"/> Framing Plans	<input type="checkbox"/> Structural Details
<input type="checkbox"/> Other: ( _____ )	
- 6. Provide a fully-dimensioned plot plan to scale, showing:
 

<input type="checkbox"/> Legal Description	<input type="checkbox"/> Building Lines
<input type="checkbox"/> Easements	<input type="checkbox"/> Lot Size
<input type="checkbox"/> Highway Dedication Lines	<input type="checkbox"/> Zone Boundaries
<input type="checkbox"/> Alley location/size	<input type="checkbox"/> Street Centerline
<input type="checkbox"/> Parking Spaces	<input type="checkbox"/> Use of all buildings
<input type="checkbox"/> Construction type and numbers of stories of each bldg.	
<input type="checkbox"/> Size/location of all buildings	<i>106.3.2.1</i>
- 7. Provide the ZA case number of the existing wireless facility, in the work description on the plans.

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**PART II: ZONING (Allow time for discretionary approval process from City Planning if zoning requirements cannot be met.)**

**A. ROOFTOP WIRELESS TELECOMMUNICATION FACILITIES** *12.21A.21*

- 1. Obtain conditional use permit per 12.24.W49 for the following condition:
  - a. The property is not located in C or M zone.
  - b. The property is located within a scenic parkway specific plan, scenic corridor specific plan, or a roadway designated as a scenic highway within a specific plan area.
  - c. The Rooftop facility and associated cabinets are proposed on building under 40 ft in height.
  - d. The facility is proposed on rooftop of building(s) that are:
    - i. Designated on the National Register of Historic Places, including Contributing Buildings in National Register Historic Districts,
    - ii. Designated on The California Register of Historic Resources,
    - iii. Designated on The City of Los Angeles List of Historic-Cultural Monuments. Or,
    - iv. A contributing Structure located in an Historic Preservation Overlay Zone (HPOZ) that has been established pursuant to Section 12.20.3 of the Los Angeles Municipal Code (LAMC).
  - e. The proposed location of the Roof mounted antennas does not meet the greatest feasible distance from the edge of the building per 12.21.A20 or are not approved by City Planning. See clearance summary sheet.

- 2. For by right project comply with:
  - a. Rooftop WTFs and associated cabinets are required to be enclosed on all sides, with an approved fiberglass or similar covering material for screening with an approved LARR #, or within an interior space of the building. *12.21A21(b)*
  - b. Equipment facilities and antennas shall not extend more than 10 feet above the highest point of the roof top, unless mounted on the walls of a penthouse. *12.21.A21(e)*
  - c. The total of all rooftop antennas and associated cabinets cannot cover more than 10% of the total roof area.
  - d. Provide note on plan: "*The structure covering the antenna and any equipment cabinet is painted and textured to match the exterior walls of the building*"
  - e. Provide evidence that the Council District office where the site is located has been given a 20-day written notice prior to the issuance of a permit. This notice shall contain the name and address of the building permit and the approximate date of the start of installation. This notification shall be certified mail, return receipt requested.

**B. MONOPOLES**

1. Obtain conditional use permit per 12.24.W49 for the following condition:
  - a. The property is not located in M zone.
  - b. The property is located across the street from, abutting, or adjoining a residential use or A or R zone, including the RA zone.
  - c. The placement standard of the proposed monopole does not meet 12.21.A20 or are not approved by City Planning. See clearance summary sheet.
2. Monopoles shall be of tapered design (3 foot diameter at the base up to 1.5 foot diameter at the top).

3. Monopoles shall have a landscaped buffer area that commences at the property line pursuant to Section 12.21A20(a)(6)
4. Equipment cabinets shall be located in an interior space of an existing building or in an attached or detached exterior building.
5. New Monopole must be setback 20% of the height of the monopole from all abutting streets, residential uses, and areas with access to the public, unless a qualified structural engineer specifies in writing that any collapse of the pole will occur within a lesser distance under all foreseeable circumstances. 12.21A20(a)(2)(I)

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**PART III: BUILDING CODE REQUIREMENTS**

**A. PLANS/DETAILS**

1. Provide a plot plan showing the location of the existing/ and/or proposed WTF.
2. Proposed location of the WTF is located within an existing parking space. Please provide a parking analysis to verify the required and provided number of parking spaces.
3. Provide anchorage details for the antennas to the supporting structure, i.e. (building wall/pipe/ frame (etc.)).
4. Provide any notes regarding assumptions made, statements of inspections or structural observation requirements, as applicable.
5. Provide attachment details for equipment units to unistrut, including lateral restraint. Specify type of unistrut proposed.
6. Show compliance with conditions on the soils report approval letter.
7. Block walls greater than 3'-6" height require a separate permit.

5. For seismic shear calculations, monopoles shall be considered a "class III structure" with an importance factor of 1.5 per table 2-3, TIA-222- H, section 2.8.3.
6. The footing of the antenna shall be designed to support a monopole which is at least 15 feet higher than the monopole under review.
7. Connection bolts and devices shall be in accordance with TIA-222- H, section 4.9.
8. Welded connections shall conform to AISC-LRFD Chapter J.
9. Foundations and anchorages shall conform to the criteria specified in TIA-222- H, section 9.0.
10. Anchor bolts to concrete slabs must be approved with a valid LARR #.
11. The design strength of the soil shall be equal to  $\Phi_s R_s$  per TIA-222-H, section 9.7.
12. The design strength of concrete and anchorages shall be in accordance with ACI 318-10 and AISC-LRFD.

**B. CALCULATIONS FOR NEW STEEL MONOPOLES**

1. Wireless Telecommunication Facility monopoles shall be designed, connected and supported in accordance with TIA-222-H standards.
2. The monopole shall be certified by a professional structural engineer licensed in the State of California to meet structural standards for steel antennas set in the EIA/TIA-222- H.
3. The monopole and foundations shall be designed to equal or exceed load effects of the factored loads per TIA -222- H, section 2.3.2.
4. The total seismic shear (Vs) shall be determined in accordance with TIA-222- H, Section 2.7.7.1

**C. CALCULATIONS FOR ROOFTOP MOUNTED WIRELESS TELECOMMUNICATION FACILITIES**

1. Earthquake loads for structures less than or equal to 100 feet may be evaluated in accordance with TIA-222-H, section 2.7.6 and 2.7.7 with applying an amplification factor as specified in section 2.7.8.1.
2. Connection bolts and devices shall be in accordance with TIA-222-H, section 4.9.
3. Welded connections shall conform to AISC-LRFD Chapter J.
4. Provide design calculations to justify size of existing roof framing to support new vertical load from new equipment cabinets.

<b>ADDITIONAL CORRECTIONS:</b>

