



Plan Check Correction Sheet for Wireless Telecommunication Facilities (2017 LABC)

Plan Check Date: _____

Plan Check / PCIS App #: _____

Job Address: _____

Applicant: _____ Phone #: () _____

P.C. Engineer: _____ Phone: _____
(E-mail: first name.last name@lacity.org)

Supervisor Name: _____ Phone: _____

Your feedback is important; please visit our website to complete a Custom Survey at www.ladbs.org/LADBSWeb/customsurvey.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 and on the plans and 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. For any questions related to these PC corrections, email or call the Plan Check Engineer.
3. Phone or email the PC engineer for a verification appointment after you have addressed the corrections. Verification of corrections is only done by appointment.
4. Complete item #2 above and bring the originally checked set of plans and calculations to the meeting along with this plan correction sheets. Unprepared responses with incomplete plans or calculations may result in cancellation of the meeting.
5. During the appointment, the plan check engineer will go over the corrections and comments. Once all the items have been corrected to comply with the code requirements and clearances are obtained, the permit will be ready to be issue.

IMPORTANT ITEMS TO READ:

1. Your early attention is suggested to the approval process from other Departments as listed in the Clearance Summary Worksheet due to possible delays resulting from a public hearing or other processes required by other Departments. The 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 plans 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, or other ordinance or state law.
4. Numbers in parenthesis refer to particular code sections of the current edition of the Los Angeles Code.

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PART I - GENERAL REQUIREMENTS:

A. PERMIT APPLICATIONS

1. Provide a fully dimensioned plot plan to scale, in ink and copy it to the PCIS application's 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) Certificate of workers Compensation Insurance made out to the Contractors State License Board.
 - ii) Notarized letter of authorization for agents.
 - iii) Copy of Contractors State License or pocket ID.
 - iv) Copy of City of Los Angeles business tax registration certificate or a newly paid receipt for one.

B. CLEARANCES

1. Obtain all clearances as noted on the attached Clearance Summary Worksheet. ZA clearance and Plan Approval for "Compliance for Wireless Telecommunication Facility" per 12.21A.20 are required.
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 shall be by certified mail, return receipt requested. (3307.1)(IB:P/BC 2014-060)
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 reports requirements and approval letter's conditions. A copy of approval letter should be on the plans.

4. Obtain Clearances from the Green Building Division of LADBS.

C. ADMINISTRATION

1. Each sheet of the architectural and structural plans must bear the signatures, registration number and expiration date of an architect or engineer registered in the State of California.
2. The address of the building and the name/address of the owner are required on all plans. The name and address of the consultants are required on their plans.
3. (One) / (Two) sets of plans will be required during permit issuance. One of these set of plans will be submitted to the Los Angeles County Assessors. The plans must be: (106.3.2.2.& 106.3.3.)(California Revenue and Taxation Section 72):
 - 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 (City Planning Dpt.) prior to obtaining a "Ready-to Issue (RTI)".
5. Provide the following with each set of plans:

<input type="checkbox"/> Topography Survey Map	<input type="checkbox"/> Grading
<input type="checkbox"/> Floor Plans	<input type="checkbox"/> Two Elevations
<input type="checkbox"/> Construction Section	<input type="checkbox"/> Foundation Plans
<input type="checkbox"/> Framing Plans	<input type="checkbox"/> Structural Details
6. Provide fully dimensioned plot plan to scale. Show legal description, building lines, easements, lot size, zone boundaries, highway dedication lines, street center line, alley, parking spaces and location of all buildings (Show type of construction, number of stories and the use for all buildings.) (106.3.2.1)

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7. Provide the ZA case number of the existing wireless facility, in the work description on the plans.

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))

PART II - ZONING CODE:

(Allow time for discretionary approval process from City Planning if zoning requirements can't be met.)

Rooftop Wireless Telecommunication Facilities (12.21A21)

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) The California Register of Historic Resources, iii) 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).
 - v) 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.

- 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.

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).

Monopole

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 sec. 12.21 A20 (a) (6).

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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. (sec. 12.21A20 (a) (2) (I))

PART III - BUILDING CODE:

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.

CALCULATIONS:

Calculations for new steel monopoles:

1. Wireless Telecommunication Facility monopoles shall be designed, connected and supported in accordance with TIA-222-G standards. Refer the website: <https://faaco.faa.gov/index.cfm/attachment/download/66449>
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-G.
3. The monopole and foundations shall be designed to equal or exceed load effects of the factored loads per TIA -222- G, section 2.3.2.
4. The total seismic shear (Vs) shall be determined in accordance with TIA-222-G, Section 2.7.7.1
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-G , section 2.8.3.
6. **Method 1** (Equivalent Lateral Force Procedure) per **Table 2-10 Seismic Analysis Procedure Methods**-maximum monopole height is 50 feet. An alternate seismic analysis procedure method is required.
7. The footing of the antenna shall be designed to support a monopole which is at least 15 feet higher than the monopole under review.
8. Connection bolts and devices shall be in accordance with TIA-222-G, section 4.9.
9. Welded connections shall conform to AISC-LRFD Chapter J.
10. Foundations and anchorages shall conform to the criteria specified in TIA-222-G, section 9.0.

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11. Anchor bolts to concrete slabs must be approved with a valid LARR #.
12. The design strength of the soil shall be equal to O_s R_s per TIA-222-G, section 9.4.1.
13. The design strength of concrete and anchorages shall be in accordance with ACI 318-10 and AISC-LRFD.
14. Per TIA-222-G, Section 2.6.6.2, The horizontal extent of Topographic Category 2, escarpments, shall be 16 times the height of the escarpment

**Calculations for new roof mounted
Wireless Telecommunication facilities:**

1. Earthquake loads for structures less than or equal to 100 feet may be evaluated in accordance with procedures specified in TIA-222-G, section 2.7.7 (Method 1) multiplied by an amplification factor as specified in section 2.7.12.1.
2. Connection bolts and devices shall be in accordance with TIA-222-G, section 4.9.

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