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# BUILDING DESIGN CRITERIA

## Handout #20

The purpose of this informational guideline is to provide design and construction professionals a summary of local Codes, Standards, and design criteria specific to the City of Covina. All buildings, structures, apparatus, and components thereof, shall be designed and constructed in accordance with these Codes and Regulations, as adopted and amended by the City of Covina.

- **Building Design Criteria:**

Current State of California Code with local amendments as follows:

<b>2022 California Building Code</b>	<b>2022 California Administrative Code</b>
<b>2022 California Residential Code</b>	<b>2022 California Fire Code</b>
<b>2022 California Green Building Standards Code</b>	<b>2022 California Electrical Code</b>
<b>2022 California Mechanical Code</b>	<b>2022 California Plumbing Code</b>
<b>2022 California Energy Standards</b>	<b>2020 Covina Municipal Code</b>
<b>2020 L.A. County Fire Code</b>	

- **Structural Design Criteria Parameters:** Coordinates 34.087706, -117.8895528

**Wind Speed:** (Vult = 110 mph) -Special Region,  
 (V3s = 95mph)

**Wind Exposure Category:** C

Risk Category I-100 MPH  
 Risk Category II-95 MPH  
 Risk Category III- & Iv -115 MPH

\*Importance factor, exposure and topographic features are site and project specific  
 See ASCE 7-10, Chapter 6. ASCE 7-16

**Seismic Design Category:** Zone 4 E or F  
 Site Class D (CBC) and D2 (CRC)

**Rain Load Data: 100 year- hourly rate**  $R=5.2(ds+dh)=$  (in/hr) (cm/hr)

**Very High Fire Severity Zones:** Yes, Areas of Covina are located within VHFSZ. Go to Cal Fire and/or LA County Fire to determine if site is located in VHFSZ

- **Foundation Design Parameters:**

Foundation and soils investigation and reports are required per *CBC Section 1802.2*

The following foundation design parameters shall be used unless higher values are justified by an approved soil report:

1. **Allowable soil bearing pressure:** 1500 p.s.f (or per soil report)
2. **Allowable lateral bearing pressure:** 100 p.s.f. (or per soil report)

- **Energy Design Criteria:** Climate Zone 9 **Elevation:** 558' (170m)