



BUILDING AND DEVELOPMENT  
SERVICES DEPARTMENT

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Form 16

**DESIGN REQUIREMENTS FOR THE CITY OF CHICO**  
**General**

- Governing **Residential Standards** to be 2019 California Residential Code.
- Governing **Electrical Standards** to be 2019 California Electrical Code.
- Governing **Mechanical Standards** to be 2019 California Mechanical Code.
- Governing **Plumbing Standards** to be 2019 California Plumbing Code.
- Governing **Fire Regulation Standards** to be 2019 California Fire Code.
- Governing **Energy Standards** to be the 2019 California Energy Code Efficiency Standards.
- Governing **Green Building Standards** to be 2019 California Green Building Standards Code.
- **Required minimum plan size to be 24" X 36" sheet.**
- **All sheets are to be scaled and dimensioned** (1"-20' Site Plan & ¼"-1" Architectural plans and details).
- **Refer to the "Minimum Plan Standards" handout for specific plan submittal details required.**
- **All plan sheets are to be wet stamped and/or signed by the Designer.**

**Gravity Loads**

- In accordance with 2019 California Building Code (Chapter 16) and ASCE 7-16.
- No snow load.

**Wind Loads**

- In accordance with 2019 California Building Code (Chapter 16) and ASCE 7-16.
- Wind design is now based on ultimate wind speed. (Figure 1609A,B,C)

### Seismic Loads

- In accordance with 2019 California Building Code (Chapter 16) and ASCE 7-16.
- When soil properties are not known Site Class D shall be used. (Section 1613.2.2).
- Seismic Design Category defines permissible structural systems, limitations on height and irregularity, permitted lateral force procedure, and required level of strength and seismic detailing. SDC ranges from A through F and is dependent on ground motion, soil characteristics and risk category. (Most structures in City of Chico will be in SDC D).

### Soils and Foundations

- In accordance with 2019 California Building Code (Chapter 18) and ASCE 7-16.
- Soil Site Class is D with a bearing of 1500 psf or as specified in a soil report.
- Lateral bearing pressure below natural grade to be 100 psf/ft or as specified in a soil report.
- Frost line depth = 0”

### Concrete

- In accordance with 2019 California Building Code (Chapter 19) and Reference Standard “*Building Code Requirements for Structural Concrete*” (ACI 318-14).
- 3000 psi compressive strength concrete required for structures assigned to SDC D, E or F. (Exception: light-framed construction, 2 stories or less in height may use 2500 psi concrete).

### Masonry

- In accordance with 2019 California Building Code (Chapter 21) and Reference Standard “*Building Code Requirements for Masonry Structures*” (TMS 602-16).
- “Half-Stress” design of masonry without special inspection is not permitted.
- All masonry requires a minimum level of special inspection (1704.5).

### Steel

- In accordance with 2019 California Building Code (Chapter 22) and Reference Standard “*Specification for Structural Steel Buildings*” (AISC 360-10). AISC 360-10 combines LRFD and ASD. AISI S100-12/S2-10 for Cold-Formed Steel.
- Structural steel structures assigned to SDC D, E or F shall be designed and detailed in accordance with AISC 341-10, Part I. (2205.2.2)

### **Wood**

- In accordance with 2019 California Building Code (Chapter 23) and Reference Standard "*National Design Specifications for Wood Construction*" 2018 Edition combines LRFD and ASD.
- An engineered lateral design is required for irregularly shaped buildings as defined in 2308.12.6.
- Conventional construction is limited to one story in SDC D and E and 2 stories in SDC C. (Except detached one and two family dwellings may be 2 stories in SDC D & E and 3 stories in SDC C). (2308.2)
- Cripple walls with studs exceeding 14" are considered a story for the purposes of applying braced wall requirements. (2308.6.6)

### **Special Inspection**

- In accordance with 2019 California Building Code (Chapter 17).
- Unless otherwise required by the Building Official, Group U occupancies accessory to residential occupancies are exempt from special inspections. (1704.2 exception 2)