



# COMMUNITY DEVELOPMENT DEPARTMENT BUILDING DIVISION

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## Design Requirements

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### General

- Governing **Building Code Standards** to be 2025 California Building Code.
- Governing **Residential Standards** to be 2025 California Residential Code.
- Governing **Electrical Standards** to be 2025 California Electrical Code.
- Governing **Mechanical Standards** to be 2025 California Mechanical Code.
- Governing **Plumbing Standards** to be 2025 California Plumbing Code.
- Governing **Fire Regulation Standards** to be 2025 California Fire Code.
- Governing **Energy Standards** to be the 2025 California Energy Code Efficiency Standards.
- Governing **Green Building Standards** to be 2025 California Green Building Standards Code.
- Plan shall be submitted electronically and
  - All sheets are to be scaled and dimensioned (" Architectural plans and details).
  - Site Plans scaled 1"-20' & architectural plans and details scaled ¼"-1'0", and when printed sized to be 24" X 36" per sheet.
  - **Refer to the "Minimum Plan Standards"** handout for specific plan submittal details required.
  - All plan sheets are to be digitally stamped and/or signed by the Designer
  - All calculations shall be digitally signed by the design professional.

### Gravity Loads

- In accordance with 2025 California Building Code (Chapter 16) and ASCE 7-22.
- No snow load.

### Wind Loads

- In accordance with 2025 California Building Code (Chapter 16) and ASCE 7-22.
- Wind design is now based on ultimate wind speed. (Figure 1609A, B, C)

### Seismic Loads

- 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).
- In accordance with 2025 California Building Code (Chapter 16) and ASCE 7-22.

### Soils and Foundations

- In accordance with 2025 California Building Code (Chapter 18) and ASCE 7-16 soils reports are generally required for \_\_\_\_\_ (lava cap, expansive soils)
- Soil Site Class is 5 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 2025 California Building Code (Chapter 19) and Reference Standard "Building Code Requirements for Structural Concrete" (ACI 318-19).
- 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). NOTE: Concrete using 3,000 psi requires special inspection.

### **Masonry**

- In accordance with 2025 California Building Code (Chapter 21) and Reference Standard "Building Code Requirements for Masonry Structures" (TMS 402, 403, 404 and 602-16).
- "Half-Stress" design of masonry without special inspection is not permitted.
- All masonry requires a minimum level of special inspection unless pre-approved by the building official for trash enclosures and similar structures. (1704.5).

### **Steel**

- In accordance with 2025 California Building Code (Chapter 22) and Reference Standard "Specification for Structural Steel Buildings" (AISC 360-22). AISC 360-22 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 5.400, Part I. (2206.1.1.2)
- Bolting (high strength), fabrication, & field welding

### **Wood**

- In accordance with 2025 California Building Code (Chapter 23) and Reference Standard "National Design Specifications for Wood Construction" 2024 Edition combines LRFD and ASD.
- An engineered lateral design is required for irregularly shaped buildings as defined in 2308.2
- 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. (2308.9.6)
- Multi-family construction two stories or more requires structural observation

### **Special Inspection**

- In accordance with 2025 California Building Code (Chapter 17). See Special Inspection requirements listed on the building division's website.

### **Trusses**

- All Truss Calculations- all sheets to be signed by engineer