



WASHOE COUNTY

Planning and Building

INTEGRITY COMMUNICATION SERVICE

STRUCTURAL PLAN REVIEW CHECKLIST

Community Services Dept.
1001 E. 9th Street
Reno, Nevada 89512
Phone: (775) 328-6100
Fax: (775) 328-6133

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DESIGN PARAMETERS

IBC / ASCE (current editions) referenced in the structural calculations and plans

SNOW LOAD

Site Elevation; referenced in structural calculations, plans, and EOR (engineer of record) verified

Ground Snow Load referenced in calcs, plans, and EOR verified

ASCE Pg to Pf / $0.7 \times C_e \times C_t \times I \times P_g = P_f$ calculation in the calcs

Roof Snow Load used in calcs accurate

Pg/Pf referenced in plans

Deck Snow Drift calc included in design (if applicable)

Correct Roof Snow Load used in calcs and truss drawings

Sliding Snow per ASCE 7.9

WIND DESIGN

Correct Vult or Vasd Wind Speed and Exposure referenced in calcs and plans

Correct Risk Category used in calcs

SEISMIC DESIGN

Risk Category from IBC Table 1604.5 referenced in calcs

Correct Importance Factor from ASCE Table 1.5.2 referenced in calcs

Seismic Design Category per ASCE Table 11.6-1 referenced in calcs and plans

SOIL BEARING

Allowable Soil Bearing referenced in calcs

LOADING SCHEDULES in EOR verified calcs

a) **ROOF LOADS**

Roofing material, sheathing, framing, ceiling, mechanical, & misc PSF in calcs

Total Dead Load PSF

Live Load PSF

Fire Sprinkler Load included

b) **FLOOR LOADS**

Floor covering, sheathing, framing, mechanical, electrical, misc PSF in calcs

Total Dead Load

Live Load- correct roof and floor live loads referenced in calcs

ROOF FRAMING

Roof Framing / truss spacing in calcs and plans

Roof Framing / rafter size, span, species & grade in calcs and plans

Roof Sheathing / thickness and fastening schedule in calcs and plans

Header / size, span, species and grade in calcs and plans

Premanufactured truss spacing and connections in plans

Ridge Beams size, span, species & grade in calcs and plans

Truss spacing & connections in plans matching manufacturer's truss package

Truss Cover Letter by E.O.R. confirming that Truss ID labels on plans match truss manufacturer's layout

FLOOR FRAMING

Joist, girder, and post size, span, species/grade, and connections in calcs and plans
Floor Sheathing, thickness and fastening schedule in calcs and plans
Concrete Slab and reinforcing in calcs and plans

DECK FRAMING

Ledger and connection in calcs and plans
Deck Beam, Posts, Joists, and Hangers in calcs and plans
Post to Beam connections in plans
Post to Pier connections in plans

FOUNDATION

Footing Frost depth 24"
Continuous Footing width, thickness, steel reinforcement in calcs and plans
Perimeter Concrete/CMU Stemwall width, height, steel reinforcement in calcs and plans
Spread Footing/Pier width, length, thickness and steel reinforcement in calcs and plans
Anchor Bolt size, spacing, embedment depth & length in calcs and plans
Retaining Wall Footing toe, heel, thickness and steel reinforcement in calcs and plans
Concrete/CMU Retaining Wall width, height, and steel reinforcement in calcs and plans
Specify location of 3x mudsill
Add Pedestal size & detail for girder/post - 8" min above grade or P.T.

WALL STUDS

Design in calcs and plans

LATERAL DESIGN

Wind and Seismic Analysis in calcs
Mean Roof height, Eave height and Roof Slope in calcs
Building length and width in calcs
Shear Wall Analysis in calcs
Shear Wall type (nailing), and panel lengths shown in plans
Perforated Shear wall Analysis in calcs
Perforated Shear wall specs shown in plans
Holdown devices and Floor to Floor transfer straps in calcs and plans
Embedment depth of holdown anchors, and type of anchor in calcs and plans
Steel Moment Frame, with anchors, and embedment depth in calcs and plans

STRUCTURAL OBSERVATION(S) LETTER

For any structure 5,000 sf or greater (see separate application form) signed/stamped by EOR

REQUIRED PLANS-minimum

Site, Floor, Foundation, Floor Framing, Elevations, Electrical, Roof Framing, Building and Wall
Cross Sections, Details and call outs

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SPECIAL INSPECTIONS (if applicable, see separate application)

STRUCTURAL STEEL

HIGH STRENGTH BOLTS

WELDING

MASONRY

STRUCTURAL WOOD

EPOXY ANCHORS

SIPS

PREMANUFACTURED SHEAR WALLS

INTUMESCENT COATINGS

EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)

SOILS
