



WASHOE COUNTY

COMMUNITY SERVICES DEPARTMENT

Planning & Building Division

1001 EAST 9TH STREET
RENO, NEVADA 89512
PHONE (775) 328.2020
FAX (775) 328.6132

Residential One and Two Family Dwelling Required Submittals

As of June 1, 2020 all Building Permit submittals to Washoe County will be Electronic and submitted online only (www.onenv.us)

General Requirements for Building Permits:

All Plan sheets, calculations and specifications submitted for review must be drawn by a NV licensed design professional, contractor or owner-builder (with affidavit). Contractors of each trade specialty need to sign and assume design responsibility within the scope of their license for drawings they prepare. Where more than one sheet is submitted, pages must be numbered, titled and each page should be identified on the front cover sheet under *Sheet Index* or similar list.

Once plans have been accepted by the Building Program, you can check the status and review comments on permits online at: www.OneNV.us

Requirements for Submitting: All Documents must follow Washoe County's Naming Conventions located on the following link: <https://www.washoecounty.us/building/Permitting%20Updates.php>

- **Plan Set** electronically stamped, signed and dated by design professional(s) (DP) including date of license expiration per NRS requirements. Plans designed by a contractor must have signature, license number, class, and limit. Needed for routing to: Planning, Engineering, Building, Fire (if in High or Extreme WUI Zones), GID's (Sun valley or Incline Village) and WC Health District (if on septic).

Plan Set Requirements:

- **Cover Sheet:** Climatic and geographic design criteria established by Northern Nevada Amendments (see Building website under *Design Criteria*), table of contents/list of drawing sheets, code analysis and applicable codes used for design, vicinity map and project information (address, APN, scope of work)
- **Site Plan:** Property lines, public and private ways, easements, setbacks, all existing and proposed structures, area of work, utilities, service roads, drainage, 2-0" max. contours and grading info (see Engineering Minimum Permit Submittal Requirements- located <https://www.washoecounty.us/building>) and GIS info (for elevation levels, infrastructure, zoning and engineering features) available at: www.gis.washoecounty.us/wrms

Minimum graphic requirements:

- Existing topography on sites with slopes greater than 10% and proposed grading with contour intervals of not more than two feet.
- Location of any watercourse and/or natural drainage channel, bodies of water and 100-year floodplains within 100 feet of subject property.
- Access slopes- must be less than 14% slope.
- Driveway width and length.
- Type and location of any slope stabilization and/or retaining walls including heights and finished grades. Grades and drainage details.
- Surface drainage diverted to a storm sewer conveyance or other approved point of collection. Lots graded to drain surface water away from foundation walls for a min. of 6 inches within the first 10 feet (5% slope).
- Impervious surfaces within 10 feet of the building foundation sloped a minimum of 2 percent away from the building.
- Grading information must include amount of disturbed area and cubic yards of excavation and fill.
- Location of mechanical equipment, if ground mounted; Shown on Elevations if roof mounted.
- All fire hydrants within 200' of the property.

Exceptions:

- Where lots lines, walls, slopes or other physical barriers prohibit 6 inches of fall within 10 feet, drains or swales shall be constructed to ensure drainage away from the structure.



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Additional Site Plan Requirements, if on Septic.(Washoe County Health District):

Important:

The items below are required to be submitted with well or septic system construction permit applications as per the Washoe County District Board of Health Regulations governing Sewage, Wastewater, and Sanitation (S.W.S.). If you have any questions regarding these requirements, or for information on well applications, please contact Environmental Health Services at (775) 328-2434. Septic Design must be prepared by a NV Licensed Engineer in accordance with NRS 445A :

- Diagram to scale the location of all proposed or existing on-site sewage disposal system components, including location, length, depth, and width of disposal trenches, location and size of septic tank and a delineated area for future replacement of disposal trench(es) (repair field). Distances to any part of the septic system shall be shown to the closest property line, and the location, thereof, shall also be established relative to the building it serves.
- Diagram to scale all areas subject to vehicular traffic and material storage.
- Show the location of all on-site well(s) with dimensions to the nearest two property lines and to all components of septic systems on site.
- Diagram and locate to the nearest property lines any percolation hole or test trench(s) on the property.
- Diagram the distance to any available sewer system within 400 feet of property line. (If none, so indicate).
- Indicate the number of bedrooms in the proposed residence footprint.
- Show existing and proposed ground slope of the on-site sewage disposal system area at contour intervals of not more than two feet.
- Diagram the location of the water supply line.
- Locate and diagram all septic systems and private wells within 100 feet of the site property line. (If none, so indicate.) Show any public well within 200 feet of site property line. (If none, so indicate.)
- Provide Percolation test results and report by a NV licensed Engineer per NRS 445A.

A construction permit for a new on-site sewage disposal system shall only be issued in conjunction with a building permit application for the building it serves. A building permit application is not required to obtain a construction permit to repair an existing on-site sewage disposal system.

- ❑ **Floor Plan(s) (see Exhibit A):** All floors dimensioned, identifying rooms names (use), ceiling heights, opening sizes, rated assemblies, separations, stair/landings/handrail details, fireplaces/stoves and window/skylight/door schedule.
- ❑ **Foundation and Floor Framing Plans:** All structural members, materials, sizes and matched to accompanying calculations (stamped, signed and dated by NV licensed Engineer or Architect).
- ❑ **Elevations (see Exhibit B):** All building elevations, vertical dimensions, openings, materials and HVAC equipment.
- ❑ **Roof Framing:** All structural members, materials, sizes and matched to accompanying structural calculations.
- ❑ **Electrical:** Electrical load calculations, service panel, outlet and receptacle locations.
- ❑ **Plumbing:** All fixtures, including isometric of plumbing and gas lines.
- ❑ **Mechanical:** Size and layout of all equipment and ducting in accordance with Manual J, D and S, and/or include engineered plans with venting details.
- ❑ **Building Cross (see Exhibit C) and Wall Section(s) (see Exhibit D):** Multiple Building Cross Sections to show different portions of structure and Wall Sections to include footings, insulation (R-values), materials, wall construction, flashing, weather-proofing, framing (top/bottom plates), blocking, rim/ceiling joists, roof rafters, sheathing and any decks.

Required Documents:

- ❑ A completed online Residential/Remodel Building Permit Application.
- ❑ Energy Calculations and Certification (signed by DP or contractor): Insulation values on Wall Sections. If non-prescriptive method is chosen, provide energy compliance documentation/modeling. ResCheck software available for free at: www.energycodes.gov



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- ☐ Manual D, J, and S Calculations
- ☐ Truss Calculations (if applicable) (sheets electronically stamped, signed and dated by NV Licensed Engineer or Architect, including date of license expiration per NRS requirements)
- ☐ Truss review letter from engineer of record stating, *"This letter is to certify that I have reviewed the attached truss calculations for the above address, prior to submitting to the Building Program, and find them to be in compliance with the plans and specifications (including, but not limited to, connections, truss loads, load path, bearing points, etc.)."*
- ☐ Structural Engineering Calculations (electronically stamped, signed and dated by design professional(s) (DP), including date of license expiration per NRS requirements)
- ☐ Geo-Technical Soils Report: soils classification, analysis and test pit locations (electronically stamped, signed and dated by a NV licensed Engineer, including date of license expiration per NRS requirements)
- ☐ HOA letter (if applicable)
- ☐ TRPA Project Approval (if applicable)
- ☐ Special Inspection Application (if applicable) required for: STRUCTURAL STEEL, HIGH STRENGTH BOLTS, WELDING, MASONRY, STRUCTURAL WOOD, EPOXY ANCHORS, SIPS, SHEAR WALLS, INTUMESCENT COATINGS, EXTERIOR INSULATION, FINISH SYSTEM AND SOILS
- ☐ PV Solar or Hydronic Hot Water Application (if applicable)
- ☐ Fire Alarm or Sprinkler Permit (via NLTFPD or TMFPD) (if applicable)

DOCUMENTS REQUIRED DURING INSPECTION PROCESS

- ☐ Soils Compaction Certification letter before footings inspection
- ☐ Setback and Elevation Certification letter (electronically stamped, signed and dated by a NV licensed Engineer, including date of license expiration per NRS requirements) – before Footings
- ☐ Drainage Certification letter (signed/stamped and dated by a NV licensed Engineer) – Before Final Inspection

ADDITIONAL REQUIREMENTS:

Floodplains:

- If the structure is in a FEMA floodplain or in an area determined to be a floodplain, there will be additional requirements for permit/construction. There are several options and methods of construction in a floodplain and the CSD-Engineering Division will assist you in determining which method meets your project requirements.
- The services of a licensed NV Engineer or Land Surveyor will be required to complete a FEMA Elevation Certificate. The 1st part of the elevation certificate is required before a building permit is issued. The 2nd part of the elevation certificate is required at the floor joist inspection. The elevation certificate (part 2) can be used to obtain flood insurance for the structure.

Impact Fees:

- Regional Road Impact Fee (RRIF): Washoe County collects the RRIF for new residences. The fee is for the increased traffic generated by new construction. This fee is collected at the time the building permit is issued or can be deferred until C of O.
- The Residential Park Tax is imposed on construction of apartments, houses, condos, duplexes and residential dwelling units and mobile home lots in the County. This tax rate is 1 percent of the valuation of each building permit issued or \$1,000 per residential dwelling unit, whichever is less.

Prerequisite:

Architectural Committees (NRS 278.563): If the project is located in an area that has an architectural committee, the committee must be registered with Washoe County per NRS 278.564 and the State of Nevada Department of Business and Industry, Real Estate Division, Office of the Ombudsman for Commission for Common-Interest Communities and Condominium Hotels, OR have an *"Exemption Certificate"*. Architectural committee letter of approval is required prior to submitting your plans to the Building Program.

If project location is in Incline Village or Crystal Bay, TRPA approval or exemption is needed prior to permit being issued.



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ENGINEERING REQUIREMENTS:

Structural engineering is strongly recommended. Structural engineering is required when the ground snow load (See table below) is more than 70 pounds per square foot, exceeds the prescriptive design requirements, or exceeds a 25' length braced wall line.

Snow Load Requirements

| Elevation In Feet | WEST of U.S. Hwy 580 / old 395 Sierra slope Carson, Douglas, Washoe , Reno Pg. (Pounds Per Square Foot) | EAST of U.S. Hwy 395 Washoe County, Pg. (Pounds Per Square foot) | Lyon County Pg. (Pounds Per Square foot) | Storey County Pg. (Pounds Per Square foot) | All Nevada Counties Lake Tahoe Basin Pg. (Pounds Per Square foot) |
|--|--|---|---|---|--|
| 4500 | 30 | 30 | 10 | 10 | |
| 5000 | 30 | 30 | 30 | 10 | |
| 5100 | 41 | 31 | 31 | 10 | |
| 5200 | 52 | 33 | 33 | 10 | |
| 5300 | 64 | 34 | 34 | 10 | |
| 5400 | 75 | 35 | 35 | 10 | |
| 5500 | 86 | 37 | 37 | 50 | |
| 6000 | 142 | 43 | 43 | 70 | 220 |
| 6500 | 171 | 43 | 43 | 90 | 235 |
| 7000 | 200 | 57 | 57 | 90 | 250 |
| 7500 | 215 | 57 | 57 | 90 | 265 |
| 8000 | 229 | 86 | 86 | 90 | 280 |
| 8500 | 243 | 86 | 86 | 90 | 295 |
| 9000 | 271 | 114 | 114 | 114 | 330 |
| 9500 | 300 | 142 | 142 | 142 | 390 |
| 10000 | 357 | 142 | 142 | 142 | 420 |
| 1. Drift load design in the 30-psf zones may utilize ASCE 7 -10 Table C7-1 ground snow values. 2. The final roof design loads shall not be less than 20 psf after all reductions are factored, except for Lyon County. 3. Intermediate values may be interpolated by proportion. | | | | | |

Special Wind Region – Basic Wind Speed, Exposure & Risk Category

- Washoe County is in a Special Wind Region
- Minimum basic wind speed within Washoe County is 120 MPH (V_{ult}), Exposure C, Risk Category II

Seismic Design – IBC Chapter 16, Section 1613 The seismic design for structures within Washoe County shall be based on the response parameters and equations of Chapter 16. Use Category “D2” for single family residential structures designed to the IRC.



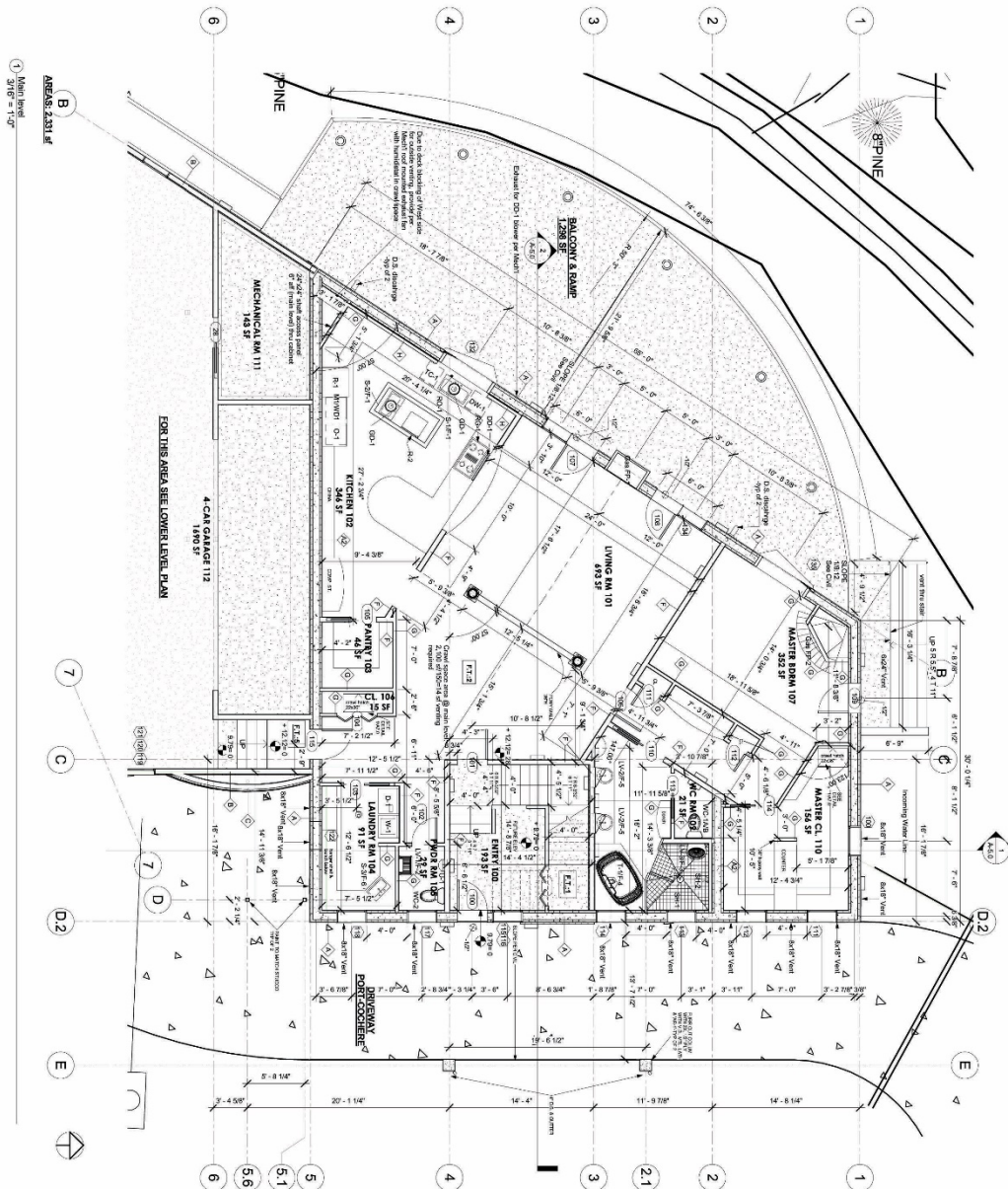
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Exhibit A – Floor Plan



| | |
|-------------------------|--|
| DESIGN STAMP | |
| project address | |
| APRIL | |
| MAIN LEVEL FLOOR PLAN | |
| Project number: 1000012 | |
| Drawn by: LMS | |
| Checked by: LMS | |
| Scale: 3/16" = 1'-0" | |
| A-1.0 | |
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