



Carson City Building Division

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POOLS AND SPAS RESIDENTIAL PLAN SUBMITTAL REQUIREMENTS

TWO (02) COMPLETE SETS OF THE FOLLOWING PLAN ITEMS combined together to form one complete set of plans:

- **ICBO Evaluation Service Report** – Pre-manufactured pools or spas must include copies of the applicable ICC Evaluation Services Report.
- **Engineer Designed Plans & Structural Calculations** – Projects that involve a site built pool or spa must be designed by a Nevada licensed engineer. The plan must include all applicable design sheets for constructing the pool or spa, and

EXTERIOR POOLS OR SPAS:

- **Site Plan** – Drawn to scale and fully dimensioned, with the location of the proposed pool or spa clearly marked. The Site Plan must have dimension lines from the proposed pool or spa to the property line and neighboring structures on the same lot. (Note: Properties on well and/or septic must provide one additional Site Plan with the location of the septic system clearly indicated)

The Site Plan must also indicate the method of barrier protection for the proposed pool or spa.

- **Utility Site Plan** – Drawn to scale and fully dimensioned, with the location of the proposed pool or spa clearly marked, and the following minimum information provided.
 - Show the underground routing of all return and supply water lines from the proposed pool or spa to the filtration equipment. Indicate on the plans the size and type of piping used for the water lines, with burial depths.
 - Show the underground routing of any gas or fuel piping to the proposed pool or spa heater. (If applicable). Indicate on the plans the size and type of the fuel piping, with burial depth.
 - Show the underground routing of all electrical conduits from the proposed pool or spa, back to the electrical panel or disconnect. Indicate the size and type of conduit used for the electrical, with burial depths.
 - Show the location of any electrical switch, receptacle outlet, panel, disconnect, or light fixture within 25'-0" (twenty-five feet) of the proposed pool or spa.
- **Equipment Floor Plan** – Provide a Floor Plan view, drawn to scale, of the proposed pool or spa equipment. This detail must clearly show the location of all electrical disconnects and the lay out of the filtration equipment. Proposed pools or spas with fuel fired heaters must show the location of the fuel piping, with shut-off valve location clearly indicated.
- **Equipment Specifications** – Provide copies of all of the pool or spa equipment manuals, and specifications.
- **Electrical Grounding & Bonding Plan** – Provide a detail which clearly indicates how compliance with the grounding and bonding requirements for pools and spas will be met. The detail must clearly show all grounding and bonding points on the pool or spa, and the equipment. Include grounding and bonding conductor sizes.
- **Gas One Line Diagram** – Provide a gas piping one line diagram, when the proposed pool or spa includes the addition of a gas fire heater. This diagram must include Btu rating of each appliance, the developed length of each pipe branch, and the size and material of each of pipe branch for the entire gas piping system. Furthermore, provide calculations that clearly indicate the methodology used to size the gas piping system.

INTERIOR POOLS OR SPAS:

- **Floor Plan** – Provide an interior floor plan of the dwelling, showing the pool or spa location, and the room directly communicating with the pool or spa. The rooms or area must clearly be labeled to identify their use (Ex.: "Bedroom #3", "Kitchen", "Living Room", etc.) The plan must clearly show the location, size and type of all windows. This plan must be drawn to scale.

The Floor Plan must also indicate the method of barrier protection for the proposed pool or spa.

- **Utility Plan** – Drawn to scale and fully dimensioned, with the location of the proposed pool or spa clearly marked, and the following minimum information provided.

- Show the underground or under slab routing of all return and supply water lines from the proposed pool or spa to the filtration equipment. Indicate on the plans the size and type of piping used for the water lines with burial depths for piping outside of the building footprint.
- Show the underground or under slab routing of any gas or fuel piping to the proposed pool or spa heater (If applicable). Indicate on the plans the size and type of the fuel piping, with burial depth for piping for outside of the building footprint.
- Show the underground or under slab routing of all electrical conduits from the proposed pool or spa, back to the electrical panel or disconnect. Indicate the size and type of conduit used for the electrical, with burial depths for conduit outside of the building footprint.
- **Equipment Floor Plan** – Provide a Floor Plan view, drawn to scale, of the proposed pool or spa equipment. This detail must clearly show the location of all electrical disconnects, and the lay out of the filtration equipment. Proposed pools or spas with fuel fired heaters must show the location of the fuel piping, with shut-off valve location clearly indicated.
- **Electrical Floor Plan** – Provide a floor plan, drawn to scale. Show the location of any electrical switch, receptacle outlet, panel, disconnect, or light fixture within 25'-0" (twenty-five feet) of the proposed pool or spa. This is only applicable to electrical within the same room as the pool or spa.
- **Equipment Specifications** – Provide copies of all of the pool or spa equipment manuals and specifications.
- **Electrical Grounding & Bonding Plan** – Provide a detail which clearly indicates how compliance of the grounding and bonding requirements for pools and spas will be met. The detail must show all grounding and bonding points on the pool or spa and the equipment. Include grounding and bonding conductor sizes.
- **Gas One Line Diagram** – Provide a gas piping one line diagram, when the proposed pool or spa includes the addition of a gas fire heater. This diagram must include Btu rating of each appliance, the developed length of each pipe branch, and the size and material of each pipe branch for the entire gas piping system. Furthermore, provide calculations that clearly indicate the methodology used to size the gas piping system.

GENERAL NOTES & REQUIREMENTS:

- The site plan and plan details shall be drawn on a minimum paper size of 11"x 17", to an approved architectural and engineering scale. Construction plan approved scales: 1/4"=1'-0". Plot (site) plan approved scales: 1"=10', 1"=20' & 1"=30'.
- Plans must be prepared on a **minimum of 11" x 17" paper size**.
- Plans **must be photocopies or original blue or black ink drawings**. The use of colored ink, other than blue or black, or the use of colored ink beyond that which is used for licensing seals and/or original signatures on plan sets, would constitute grounds for an automatic rejection of the application.
- **Plans prepared by a Nevada licensed Contractor** must have the business name, business address, license number and license expiration date printed in a title block labeled "Designer" on each plan sheet. Below this information, within the "Designer" title block on the Site Plan and Cover Sheet must be an original signature of the qualified employee on the license, with the date of signing.
- **Plans prepared by an Owner/Builder**, in compliance with Nevada Revised Statute (NRS), the plan set must have the owner's name and address printed in a title block labeled "Designer" on each plan sheet. Below this information, within the "Designer" title block on the Site Plan and Cover Sheet must be an original signature with date of signing.
- Provide a **title block on each plan sheet** with the project address and assessor parcel number (APN). If applicable, include the owner's name and contact information.
- In ground pools or spas installed or constructed in areas with a high ground water level must be designed to resist the hydrostatic pressures encountered when the pool or spa is empty.
- All electrical must comply with the requirements of the National Electrical Code.
- When aspects of Plumbing or Electrical System design exceeds the average Owner/Builder's skill level. Carson City Building Division Staff recommends that you seek the advice of a Nevada licensed Design Professional (Architect, Residential Designer, Contractor, or Engineer).