

Provide **two (2)** stamped and signed engineered pool construction plans to comply with current California State adopted Building Codes and City of Menifee Ordinances.

Additional construction such as slides, raised rock coping, grottos, etc... shall be provided with stamped and signed construction details.

Pool construction plans shall be highlighted for soil conditions and applicable construction details.

The swimming pool/spa plan submittal shall include **three (3)** site plans drawn to scale.

The site plans shall include:

- a. All structure locations on the property
- b. Proposed pool/spa location
- c. Equipment location (including sub-panels, heaters, etc...)
- d. Pool fencing location, fencing type and height complying with City of Menifee requirements
- e. All distances to the pool/spa and the equipment shall be indicated from property lines, existing/proposed structures and sewage systems if applicable
- f. Indicate size, location, and type of material for the gas line (if applicable)
- g. Indicate size, location, and type of material for the electrical conduit.

Where the permit applicant is not the property owner or California licensed contractor, a signed notarized authorization letter from the property owner or California licensed contractor is required with the name of the authorized person(s) identified.

A temporary construction fence and gate shall be in place upon commencing pool construction if the yard fence/wall is open during construction.

Portable toilets that are provided during construction shall not be placed in the public right-of-way (e.g., sidewalks, streets, etc...) the portable toilet shall only be placed within the private property lines at all times.

This notice will advise you that a permit for a swimming pool has been applied for on your behalf as owner of the property listed by address below. You should be aware that under the provisions of the City of Menifee, certain requirements must be complied with concurrent with the building or installation of an outside swimming pool, including an in-ground, above ground or on ground pool, hot tub or spa. These requirements apply to all pools, hot tubs and spas permitted on or after April 6, 2006. **An outdoor swimming pool, hot tub or spa shall be provided with a permanent barrier that shall be installed, inspected and approved prior to plastering or filling with water.** Please refer to the City of Menifee Pool and Spa barrier Requirements handout for barrier fence requirements.

Inspections shall be requested the day prior to the inspection by calling (951) 246-6213 or by email at

## GUIDE FOR POOL AND SPA CONSTRUCTION

[bldg-insp@cityofmenifee.us](mailto:bldg-insp@cityofmenifee.us)

The permit card and the approved plans must be on-site for the inspection and placed in a location that is easily found by the inspector. Preferably at the pool equipment location.

Inspections shall be called for in the following order to verify that the requirements listed below each category have been met. See the individual categories below this list for the individual requirements.

1. Pre-Gunite
2. Pre-Deck
3. Pre-Plaster
4. Final

The sections below will indicate the items the city inspector will be verifying during the inspections.

### 1. PRE-GUNITE REQUIREMENTS

- The location and excavation of the pool/spa is installed per the approved plans.
- Any standing water or loose soils and mud have been removed from the excavation.
- All reinforcing steel is installed as per plan and maintains a minimum of 3" inches of clearance to earth. All steel must be free from rust, debris, and mud.
- The pool shell must be bonded with a minimum #8 copper wire and terminate at the pool equipment.
- A minimum of four (4) #8 copper wires must installed for the pool deck bonding. (See the City of Menifee deck bonding handout for the bonding requirements.)
- #8 copper bond wires shall installed for any metal ladders, diving boards, or other metallic objects within 5' of the pool water (if applicable)
- Light niches and conduits shall be installed.
- All plumbing circulation, filtering, supply, drainage, and other associated plumbing in the pool shall be installed. All plumbing piping for the pool shall be pressurized with water to a minimum of 35psi during the inspection.
- All components of the pool shell that will be concealed by gunite must be installed and inspected during the pre-gunite inspection.
- The pool equipment and all associated conduits, plumbing, and gas piping should be installed at time of the pre-gunite inspection. (See the plumbing and electrical sections of this handout for those requirements)
- All main electrical conduits and gas piping should be installed from the point of connection to the point of termination at the time of the pre-gunite inspection. (See the plumbing and electrical sections of this handout for those requirements)

### 2. PRE-DECK REQUIREMENTS

- All forms for the deck shall be in place and any footings, where required by the approved plans, shall be installed.
- A bonding grid for the deck shall be installed consisting of steel rebar, welded-wire-mesh, copper wire, or other approved material in a 12" x 12" grid pattern for a minimum 3' feet out from the water's edge of the pool. (See the City of Menifee deck bonding handout for detailed requirements.)
- The four (4) deck bonding wires that were provided during the pre-gunite inspection shall be connected in four locations to the bonding grid with approved clamps or other approved methods of connection.
- If steel rebar is used for the deck bonding, a minimum of #3 steel shall be used and must maintain minimum clearances to earth.
- All accessories and metal objects within 5' feet of the water's edge of the pool such as handrails, slides, diving boards, metal patio covers, metal fencing, and other metal objects shall be bonded with a minimum #8 copper wire to the pool shell.

### 3. PRE-PLASTER REQUIREMENTS

- All perimeter yard fencing must be installed and complete and must comply with City of Menifee and State of California requirements. (See the City of Menifee handout for pool barrier requirements for detailed information)
- All gates to the yard must be installed and must comply with City of Menifee and State of California requirements. (See the City of Menifee handout for pool barrier requirements for detailed information)
- Any alarms required on the doors of the home leading to the pool area must be installed and functional and must comply with City of Menifee and State of California requirements. The inspector will require access to verify the alarms inside of the home, please plan accordingly. (See the City of Menifee handout for pool barrier requirements for detailed information)
- Any light niches that have been installed shall have the ground wire installed and terminated to the ground lug in the light niche forming shell. The ground lug and the ground wire connection to the lug shall be covered or encapsulated with an approved potting compound. (Exception: LED lights)

### 4. FINAL INSPECTION REQUIREMENTS

## GUIDE FOR POOL AND SPA CONSTRUCTION

- The items listed above will be verified again for completion.
- See the plumbing and electrical sections of this handout for those requirements.
- All pool/spa equipment shall be installed and fully functional.
- The pool/spa shall be filled completely with water to the normal fill level.
- All aboveground plumbing piping shall be painted or shall be made of UV resistant material.
- All electrical sub-panels, junction boxes, control panels, and other associated electrical equipment shall be installed per code and the manufacturer's requirements.
- All electrical and bonding wires shall be installed and properly terminated in all devices and equipment.
- The main service panel and any other sub-panels, control panels, and other equipment that contains circuit breakers shall have those circuit breakers properly and permanently identified in a legible manner.
- Pool/spa pump circuits shall be GFCI protected.
- Pool lighting circuits shall be GFCI protected.
- All equipment manufacturer's manuals shall be provided for the inspection.
- All associated work with the pool/spa shall be complete such as expansion joints between the deck, coping, and pool/spa shall be filled with an approved caulking or sealer. All other items such as rock or stucco work on any raised bond beams or other areas associated with the pool/spa shall be complete.
- All construction debris, trash, materials and waste shall be removed from the site.
- The inspector will operate the equipment to verify proper function.
- The pool/spa barrier fence and alarms must be intact and functional.

### PLUMBING REQUIREMENTS

- Plumbing piping must be of an approved type.
- Any bending of plumbing piping can only be performed with approved devices designed for the purpose of bending or heating the pipe (no torch heating).
- All aboveground plumbing pipes must be UV resistant or painted to protect the pipe from UV rays.
- All plumbing pipes must be pressurized or full of water for any inspection.
- All plumbing pipes must be buried a minimum of 12" deep measured from the top of the pipe to finished grade.

### GAS PIPING REQUIREMENTS

- Gas piping (if provided) must be pressurized for the inspection. A test gauge must be installed and must be pressurized to 15 psi. The inspector will bleed the air pressure down to 10 psi and check the air pressure for 15 minutes. There shall be no drop in pressure during the test.
- Gas line may be PE (Polyethylene), marked, labeled, and listed for the use. The gas pipe must be buried at a minimum of 18" deep measured from the top of the pipe to finished grade. PE pipe must be fitted per the manufacturer's specifications. A minimum #18AWG yellow tracer wire must be installed with the plastic gas pipe for its entire length and the tracer wire must terminate above grade on both ends.
- Gas line of black iron pipe cannot be used underground. Black iron pipe with a factory applied coating to prevent rust and corrosion can be used underground, all fittings, couplers, joints, elbows, and damaged areas on the factory coating must be wrapped with a minimum 40 mil. The coated black iron gas pipe must be buried at a minimum of 12" deep measured from the top of the pipe to finished grade.

### ELECTRICAL REQUIREMENTS

- Electrical work for the pool/spa shall be installed in accordance with the 2016 California Electrical Code
- Underground PVC and non-metallic conduits must be buried a minimum of 18" deep measured from the top of the conduit to grade. Non-metallic conduit can be buried at 12" deep if the conduit is covered with 2" inches of concrete or if the circuit in the conduit is GFCI protected.
- All outdoor installations of electrical wiring must be rated for use in wet and damp areas such as THWN.
- All pool circulation pump circuits - 120/240 V shall be GFCI protected.
- All pool/spa lights shall be GFCI protected.
- In front of all electrical sub-panels, control panels, and other electrical equipment, a clear space of 36" inches deep and 30" inches wide shall be provided that is free of any other objects or equipment.
- At least one GFCI receptacle shall be installed a minimum of 10' from and not more than 20' from the inside wall of a permanently installed pool/spa. No receptacle outlets are allowed less than 10' from the pool.
- Lighting fixtures within 5' feet of the pool edge and less than 12' feet above grade, or directly over the pool are prohibited.
- All receptacles installed outdoors shall be rated WR (water resistant)
- All receptacles mounted less than 5' feet above grade shall be rated TR (tamper resistant)