



City of Villa Park

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POOL & SPA REQUIREMENTS

PERMIT REQUIREMENTS - In order to obtain a pool or spa permit, three (3) copies of a site plan and structural details (gunite pools/spas only) must be submitted with the engineer's stamp on each sheet including the site plan. Portable spas require a permit also.

BONDS - A \$575.00 refundable cash bond for gunite pools / spas is required at the time of permit issuance. \$500.00 is refundable, and \$75.00 is for administrative services

POOL LOCATION PER APPROVED PLAN - Measurements are taken from the inside wall of the pool or spa, therefore it must be set per approved plans prior to calling for the first inspection. Any change in location must be approved prior to the inspections.

POOL ENCLOSURE - Every pool or spa must be enclosed with a fence a minimum of 5 feet in height, with no vertical openings more than 4 inches nor horizontal openings more than 2 inches. All doors providing access from the house to the pool shall be equipped with an alarm or be self closing with a self latching device. Access gates shall be self closing and self latching and open outward away from the pool. Latch to be a minimum of 54 inches above grade.

CONSTRUCTION REQUIREMENTS - All pool construction shall conform to expansive soil details unless a soils report indicates otherwise. Use surcharge details as necessary. Note: Continuous inspection by special licensed inspector required on pools constructed of concrete.

OUTDOOR HEATER INSTALLATION - All mechanical shall be set on a concrete base above grade. Have manufacturer's installation instructions available on job site for inspection. The heater vent termination must be a minimum of 4 feet from any door, window or gravity air inlet into any building, measured from the closest edge of the vent. Clearance to any wall shall be per manufacturer's installation instructions and listing and not be closer than three (3) feet from any property line. There must be a minimum of 30" working space in front of heater. There shall also be an opening or doorway not to be less than 24" in width.

PLUMBING - PVC plastic, schedule 40, pipe and fittings may be used for circulating piping systems. The entire system shall be tested and must hold a static water or air pressure test of not less than 35 psi for 15 minutes. PVC water and air lines to be painted to be protected from ultraviolet rays. A length of plumbing (36" minimum) is required between the filter and the fossil fuel heater for the future addition of solar heating equipment. Plastic pipe and fittings designed to be joined by solvent cementing shall comply with appropriate I.A.M.P.O. installation standards. A minimum of two outlets are required and must be separated by a minimum of three feet. All outlets shall be covered by an anti-vortex cover. Any pool or spa over 750 gallons requires a minimum of three inch (3") P-trap and a backwash line. Pools or spas using a cartridge filter may reduce P-trap size to a minimum of

one and one half (1 -1/2") inch for drainage.

GAS PIPING -

1. METALLIC PIPE - Metallic piping installed underground is prohibited by City Ordinance 8.02.190.

2. NON METALLIC PIPE - Must be PVC plastic, schedule 40. The words "Natural Gas" must appear on the piping. PVC cannot be used above ground. Transition from PVC to metal shall be made with an approved transition fitting only and be installed in the horizontal position. The horizontal metallic portion of the riser shall extend a minimum of thirty inches (30") before connecting to the plastic pipe. Piping must be buried a minimum of 18 inches below grade (or 12 inches if below concrete). Pressure test is required and must hold 10 psi for 15 minutes. A copper tracer wire (min. #18 AWG) shall be installed with PVC gas piping. Never cover or conceal piping until inspected and approved. For correct pipe size see Section 513, 1991 **Uniform Swimming Pool Code**. Do not install or connect gas lines to meter or appliance until pressure test has been approved. Gas shut-off valve required outside of, and within 3 feet of heater.

ELECTRICAL - Permanently installed pools or spas shall have at least one 125-volt convenience receptacle located a minimum of 10 feet from and not more than 20 feet from the inside wall of pool / spa. Receptacles located within 20 feet of the inside walls of a pool / spa shall be protected by G.F.C.I.. Pool light must have a metallic or nonmetallic raceway. Where rigid nonmetallic conduit is used, a No. 8 insulated copper conductor shall be installed. Junction boxes shall be located 4 feet minimum from pool and 8 inches minimum above flood level or ground level, whichever is greater. Pool light branch circuit to be G.F.C.I. protected. Light fixtures closer than 5 feet horizontally from pools edge shall be a minimum of 12 feet above water level. Overhead electrical and communication lines shall be shown on plans if they

occur. Indicate height and horizontal distances from edge of pool.

All metal parts or components within 5 feet of the inside wall of the pool / spa (includes metal straps for posts; metal fences; window and door frames; etc.) ; any enclosures (timer cans, switch boxes, etc.) ; and if a pool light is installed, the housing and junction box thereof shall be bonded with a No. 8 AWG unspliced solid copper conductor.

Electrical conduit may be PVC plastic, schedule 40, below grade. It must be a minimum of 18 inches deep (or 4 inches deep when covered with concrete). Must be U.L. listed conduit. Above ground, may be PVC plastic schedule 80 sunlight resistant, or rigid galvanized steel.

STATE ENERGY CODE - All swimming pools / spas with fossil-fuel heaters must contain the following measures mandated by the State Energy Code.

1. Any fossil-fueled swimming pool heater shall have a thermal efficiency of at least 75 percent and shall be so identified on the plans and the heater.
2. Outdoor pools equipped with a fossil-fuel or electric heater shall also be equipped with a pool cover. Pool cover to be on pool at time of final inspection.
3. Heater On-Off switch mounted on the outside of the heater for easy access to allow shutting off the operation of the heater without adjusting the thermostat setting and to allow restarting without relighting the pilot light.
4. A weather-proof plate on heater with instructions.
5. Time clock on recirculating pump.
6. Directional water inlets for good mixing of pool water.

DUMPING CERTIFICATE - Dumping certification is required prior to guniting inspection.