

MOUNT CLEMENS SWIMMING POOL & SPA REQUIREMENTS

LOCATION OF OUTDOOR POOLS:

A Building permit and Electrical permit is required for a swimming pool containing 24" inches or more of water at any point or has a filter. A mechanical permit is required for pool heaters. A Building bond is also required for compliance. A building permit will be issued by the Community Development Department upon the applicant complying with Chapter 42 of the 2015 Michigan Residential Code and the following requirements:

1. There shall be a distance of not less than ten (10') feet between the outside of the pool wall and any building including the main structure. NOTE: Spas on decks may be located anywhere on an approved deck permit which meets all live and dead load requirements.
2. There shall be a distance of not less than three (3') feet between the outside of the pool wall and the side and rear property line unless abutting an alley.
3. A swimming pool may be located at least one (1') foot off any easement or five (5') feet off the rear property line if abutting an alley.
4. Outside faucets shall have a vacuum breaker when a yard hose is used for filling a pool. This is to prevent pool water from backing up into the water system.
5. Pool dimensions, depths, volume in gallons, plus type of filter system and size is required to accompany the information for a permit.
6. Call MISS DIG (1-800-482-7171) for references as to the location of under ground electric prior to any excavation for pools or spas (pools shall not be located over any such service and can not be located within 10' feet of overhead wires).
7. All pool less that 48" inches in height from grade shall be completely enclosed by a fence or barrier not less than four (4') feet in height for protection of the general public. The gates shall swing away from the pool area and have a self-closing and self-locking device with latches placed 54" above grade on the outside of the gate to comply with locally adopted code.
8. Spas shall be equipped with a lockable cover.
9. All doors with direct access to the pool shall be equipped with an alarm which produces an audible warning when the door and its screen, if present, are opened. The alarm shall sound continuously for a minimum of 30 seconds immediately after the door is opened, and sound of the alarm shall be distinctive from other household sounds such as smoke alarms, telephone, and door bells. Such deactivation shall last for not more than 15 seconds. The deactivation touch pads or switches shall be located at least 54 inches (1372mm) above the threshold of the door.
10. Pools may be equipped with an approved power safety cover – submit all supporting documentation.
11. Where an above ground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure and a means of access is fixed or removable ladder or steps, the ladder or steps shall be surrounded by a barrier which includes requirements 1 through 10. A removable ladder shall not constitute an acceptable alternative to enclosure requirements.

POOL ELECTRICAL REQUIREMENTS

Electrical permits are required for swimming pools. Electrical work shall conform to the National Electrical Code and the work is to be done by a qualified person. Ground-Fault-Circuit-Interrupters (G.F.C.I.) shall be required on all pools. Swimming pools, including diving structures, observation stand (decks included) towers, and platforms shall be located at least ten (10') feet measured horizontally from any service drop or any other open overhead electrical conductors. Underground wires shall maintain a 5' distance from pool wall.

All metal fences, enclosures or railings near or adjacent to swimming pools to which bathers have access, which may become electrically charged as a result of contact with a broken over-head conductor or from any other causes, shall be bonded. Pool grounding conductors shall be insulated and installed in rigid conduit to the pool receptacle location 680-22C. Trenched under ground pool conduits shall be a minimum of 18" below grade.

APPLICATION FOR POOL PERMITS – REQUIREMENTS:

1. Complete application as homeowner and sign Home Owners Affidavit or if the pool company is involved have the agent submit an application along with a copy of their electrical contractors and drivers licenses and workman comp and liability insurance.
2. Submit two (2) copies of plot plan (mortgage survey) showing reference to pool location, distances to property lines and structures.
3. Show all easements on plot plan.
4. Show location of overhead and underground cables and distances to pool.
5. Show enclosures (fences) and details of fence openings. Note all gate openings shall be self-closing and self latching.
6. Indicate the location of electrical circulating pump and filter.
7. Show location of well and septic system, if applicable.

REQUIRED INSPECTIONS:

1. Reinforcement Steel inspection for in ground pools.
2. Trench for electrical & heating (conduit installed)
3. Final electrical & heating
4. Final pool (inspections in this order)

NOTE: USE OF POOL WITH NO FINAL INSPECTION IS STRICTLY PROHIBITED!

The fee for pool permits are as follows:

Above Ground Pool Fees:

Fee: \$60
Bond: \$100
Electric: \$70

In Ground Pool Fees:

Fee: \$95
Bond: \$100
Electric: \$70
Heating: \$95

POOL MECHANICAL REQUIREMENTS

This document only serves as a general overview and basic guide. All gas line and pool heater installations must comply with the following:

1. *2015 Michigan Mechanical Code*
2. *2015 International Fuel Gas Code*
3. *Manufacturers installation specifications*

GAS PIPING INSTALLATION

- The minimum burial depth shall be 12 inches;
- An appliance shutoff valve is required, and must be installed within six (6) feet of the heater;
- All gas piping shall be properly sized by the load demand, type of material used, and the total length of piping to be installed.

The piping materials listed below are approved, providing all conditions and limitations followed:

- Steel – (scheduled 40) metallic piping and fittings above ground and exposed to the elements must be weather proofed with protective coating. Metallic piping installed underground is required to be wrapped/coated, but must be approved and applied by the manufacturer.
- Copper – (type K or L) a protective sleeve is recommended at the point at which the tubing enters and exits the ground.
- Plastic – (ASTM D2513) for outside underground use only. Cannot be installed under a slab, must terminate above ground with an anodeless riser or service head. A minimum 18 awg yellow tracer wire is also required.
- Corrugated stainless tubing – (ansi/aga) tubing must be sleeved passing through any foundation wall. Must be installed within conduit, and sealed at both ends 18” install underground.

POOL HEATERS

- All heaters must be installed per manufacturer specifications;
- Where an integral bypass is not provided as part of the heater, a bypass shall be installed;
- Heaters must maintain a minimum of four (4) feet distance from any window or fresh air intake, and three (3) feet distance from a clothes dryer vent.

Requirements are in most manufacturers' installation specs.