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Swimming Pools

Building Guide for Homeowners



DID YOU KNOW?

- The suction from a pool drain can be so powerful that it can hold an adult under water. Most drain related incidents involve children. Consider installing a Safety Vacuum Release System (SVRS), which detects when a drain is blocked and automatically shuts off the pool pump or interrupts the water circulation to prevent entrapment.
- Nearly 9 of 10 drowning related deaths happen while a child is under some form of supervision, according to a Safe Kids Worldwide study.
- Beyond the fun and fitness they provide, an in-ground pool raises the home's value nearly eight percent according to the National Association of Realtors! (Pool & Spa Living, May 2008)
- A building permit is required for all swimming pools with a depth of 24 inches or more.
- Along with a building permit, plumbing, electrical and heating permits may be required where applicable.

Why Do I Need a Permit?

There are many important reasons to obtain building permits and to have inspections performed for your construction project the following are just a few.

Protects property values

Your home is typically your largest investment. If your construction project does not comply with the building codes, your investment could lose value. If others in your neighborhood make unsafe or substandard changes to their homes, it could lower the resale values for the entire community.

Saves Money

Homeowners insurance policies may not pay for damages caused by work done without permits and inspections.

Makes Selling Property Easier

Listing associations require owners to disclose any home improvements or repairs and if permits were obtained. Many financial institutions will not finance a purchase without proof of a final inspection. If you decide to sell a home or building that has had modifications without a permit, you may be required to tear down the addition, leave it unoccupied or do costly repairs.

Improves safety

Your permit allows the building department to inspect for potential hazards and unsafe construction. By ensuring your project meets the minimum building code standards of safety, the building department can reduce the risk of fire, structural collapse and other issues that might result in costly repairs, injuries and even death. Inspections complement the contractor's experience and act as a system of checks and balances resulting in a safer project.

It's the Law

Permits are required by ordinance. Work without a permit may be subject to removal or other costly remedies.

The purpose of this guide is to assist you in the permitting process. This handout is intended to cover information for a basic plan submittal and typical project under the building codes. It is not intended to cover all circumstances. Depending on the scope and complexity of your project, additional information may be required. Discuss your project with City staff to determine if it is subject to additional requirements.

What do I need in order to apply for a building permit? The following must be submitted:

<input type="checkbox"/>	Site Plan	Page 2
<input type="checkbox"/>	Plan Requirements	Page 2
<input type="checkbox"/>	Required Inspections	Page 3
<input type="checkbox"/>	Fence Detail	Page 4
<input type="checkbox"/>	Contact Information	Page 4
<input type="checkbox"/>	Permit Application	



What is a Site Plan?

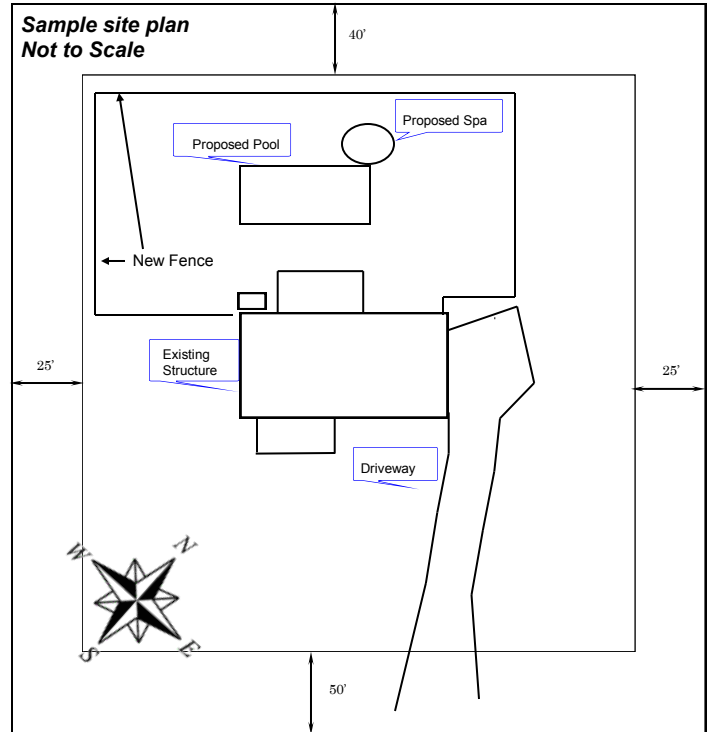
A site plan is a detailed drawing of your property, also known as a survey of your land. These are usually drawn by a land surveyor. The site plan will show the dimensions of your project and its relationship to existing setbacks, easements, utilities, other structures on the property, and distance to your property lines. If your project will require moving any utilities (gas, water, sewer/septic, electric, etc.), show where those meters will be relocated.

What is REQUIRED for a Permit?

- Provide copies of the SITE PLAN

Notes:

1. Swimming pools are considered accessory structures; therefore, their locations shall conform to the zoning ordinance. Pools are allowed in a rear yard only.
2. Setback distance requirements are 6' from rear and side lot lines, 10' from corner lot/outside lot line & recommended 10' from other buildings on property.
3. A survey from a registered land surveyor will be required if your project is located within the setbacks or in a protected area. A variance from the municipality may also be required.
4. If your property is on a slope, you may be required to install silt fence to keep the dirt on your property.
5. If you are on a septic tank, you may be required to have approval from the county health department prior to submitting your pool application.
6. If you do not know the location of your utilities, contact MISSDIG. (Remember to ask them about the cost of this service)
7. Certificate of elevation may be required on any lot of record that includes or abuts any portion of a flood plain.
8. Entry to your pool must be secured, and a fence or other barrier must be shown on the site plan.



Construction Plan Requirements

What is REQUIRED for a Permit?

- Provide copies of a POOL PLAN, drawn at a legible scale. Such plans shall include details, drawings, and notes that sufficiently describe the work to be done and clearly shows building code compliance: Include the following :
 - Address, lot number, owner's name & contact information, designer's name & contact information, list of plan pages in the set.
 - Dimensioned, detailed plans showing pool location, decking, fencing, equipment location, retaining walls, spas, pool house location, fire pits, etc.
 - Location of electric meters & panels, pool heater gas lines, overflow, backwash, pool fill, etc.

- Profile section of pool
- Entrapment protection provisions
- Heated pools require covers or other energy conservation measures per International Energy Code Section 504.7.3
- Any additional information needed to show ANSI/NSPI compliance
- Include any notes or statements on the plan that clarify what work is to be by the pool contractor and what work is to be completed by the property owner
- Notes and/or statements on the plans that clarify who will be responsible for alarm installation, fencing and landscape requirements.

NOTES

- Separate structures (Pool houses, outdoor fireplaces, etc.) all require a separate permit.
- For above ground pools purchased as a "do-it-yourself" kit, you must provide the pool manufacturer's printed product literature, installation instructions, and pool deck/stair construction details.

Tips For Hiring Contractors

- ◆ Hire only licensed contractors
- ◆ Get at least 3 bids—Get 3 references and ask to see a project
- ◆ Get it in writing - but before you sign the contract, make sure you completely understand
- ◆ Don't make final payment until you have a Certificate of Completion (CC) and you are satisfied

What the inspector will look at: Required Inspections

1. Pool Structure.

IN GROUND POOLS (Basket)

- Made after the pool has been excavated and cleaned of all loose soils, debris, and organic matter all required forms are in place and properly supported
- All drain and circulation piping is in place and under required test.
- All reinforcement steel is in place, properly tied, and supported with concrete bricks or approved chairs to guarantee the required 3" minimum cover.
- All electrical conduits, lighting fixtures (or shells), etc are in place and properly supported.
- All supports or sockets for ladders, diving boards, etc are in place and properly supported.
- The Basket is completely ready for shotcrete.
- For in ground pools not constructed as above (vinyl liners, fiberglass shell), the manufacturer's installation instructions, NSPI Installation Standards, and/or structural installation plans sealed by a Michigan Registered Design Professional must be on site at all times during construction.

ABOVE GROUND POOLS

Made after erection of the pool structure and before any structural members and connections are covered. The installer must provide safe access to all areas of the pool, have the Manufacturer's installation instructions on site at all times, and be ready to perform any tests of connections required by the inspector.

2. **Circulation/Drain Piping Test.** To be made with a basket inspection listed above. A water pressure test of 1½ times (150%) the maximum operating pressure is required. Bypass the pool equipment and do not exceed the piping maximum test pressure for the piping.

Exceptions

- Air pressure test of not less than 35 psi (if allowed by the piping manufacturer)
- Listed pre-fabricated package pool assemblies do not require pressure tests.

3. **Electrical Bonding.** Made when all metal parts of a pool structure, deck bonding grid, and equipment is properly bonded together and ready to be covered. **Note:** Depending on pool design and site conditions, this inspection may require several trips to be completed and shall be at the inspector's discretion.

4. **Back Flow.** Made prior to or with the final pool inspection. State law requires backflow prevention for all pools connected to a potable water supply. If the pool fill has an indirect connection, protection is usually not required. **Note:** Building inspectors do not make backflow inspections, but will check pool fills for compliance. Only Certified Backflow Testers can perform and Certify backflow tests. Written certification of passing the test must be provided to the building department before a Certificate of Completion is issued.

5. **Gas Piping.** Made at any time during construction but before Final inspection. A gas pressure test of at least 1½ times (150%) the gas system operating pressure, but not less than 3 psi, is required. Piping must be under pressure with a working gauge for inspection. **Note:** Gas piping may not be covered or concealed without passing this inspection. In most applications, a separate gas line is required to be installed from the gas meter.

6. **Electrical System.** Made at any time during construction but before Final. All of the electrical system, including low voltage systems, must be in place and ready for electrical rough-in inspection. The system must meet the requirements of 2015 Michigan Residential Code, Chapter 41 for locations, GFCI protection, bonding, etc. Additional wiring information is available upon request. **Note:** Underground electrical may not be covered or concealed without passing this inspection.

7. **Permanent Fence.** Must be complete, with entry warning alarms working, prior to filling the pool with water. May be done at anytime during construction. **Note:** Construction safety barriers must remain in place until permanent fencing is 100%.

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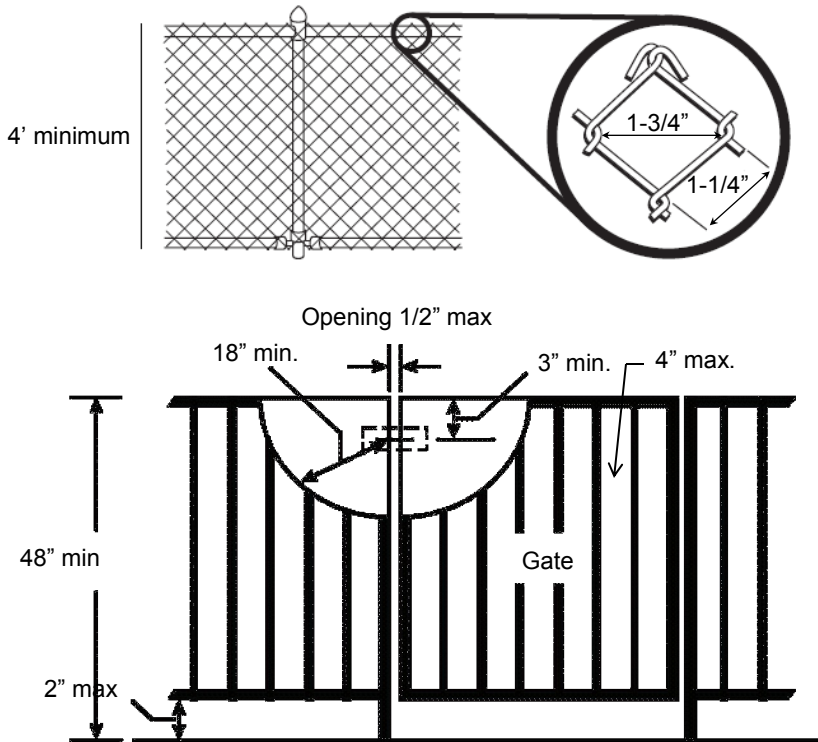


REMINDER:

Permits are only issued after plan review. The time required to conduct this review will depend on the completeness of the information we receive in the application and plans.

Construction Details

Fence and Gate Barriers



- A fence or other permanent barrier, such as a wall, is required to be completely around the pool. If the house is part of the barrier, the doors leading from the house to the pool must be protected with an alarm.
- The fence or other barrier must meet the height requirements in City code (4' minimum).
- Details for a chain link fence barrier is shown. A 1-3/4 x 1-1/3" maximum opening allowed.
- Details for a vertical fence barrier is shown. A 4" maximum opening allowed.
- Gate must swing outwards away from pool and be equipped with a self-closing, self-latching device able to accommodate a locking device.

Required Inspections (cont.)

8. Pool Final. Made after the pool and all associated construction is complete and ready for use.

- The pool must be full of water and all equipment, lights, ladders, steps, and other pool accessories in place, connected, and working as designed for a completed ready for use pool.
- All permanent fences, gates, and entry warning alarms must be in place and working.
- All life safety equipment must be in place.
- All site work, walks, drives, paved areas, and landscaping included in the plans submitted at permitting must have final inspections, and sign-off's by the various departments and authorities as required.

Note for commercial pools: In addition to the City's inspection, County Health Department Inspectors must perform their inspections before the City issues a Certificate of Completion for the pool. Pool permit holders must provide the city written proof of passing required health inspections.

How do I schedule a required inspection?

Please call the inspection line (877) 721-9266 and leave all information requested in the message. Inspection requests received after 7:00 am will be performed the next business day.

Want to know more? Need more help?

We hope you found the information in this guide useful. If you have any questions, please feel free to contact us at 269-729-9244.

Please contact MISS DIG prior to digging on your lot at: 1-800-482-7171