



8555 Kalamazoo Avenue SE
Caledonia MI 49316
Phone: 616 698-6640 Fax: 616 698-2490
www.gainestownship.org

Swimming pools and their barriers will be reviewed for compliance with Michigan Residential Code 2015 (MRC 2015) and the International Swimming Pool and Spa Code (ISPSA) and in the Gaines Charter Township Code of Ordinances, Chapter 10, Article III. All follow on subsequent pages.

Swimming Pool Requirements

1. Application for Zoning Approval. All swimming pools require review from the Planning and Zoning Department. A fee is not charged for the review, but a Swimming Pool Permit will not be issued without approval from the Planning and Zoning Department.
2. Swimming Pool Permit Application. The permit fee is \$130 and requires a pool deposit of \$500 that is *refundable* after final inspection. Payment should be submitted on two separate checks made payable to Gaines Charter Township. Contractors are required to be licensed by the State of Michigan. Homeowners may apply for the permit if completing the work themselves; complete the enclosed "Homeowner Affidavit".
3. Electrical Permit Application is required if the swimming pool will use pumps, heaters, lights etc. Electrical contractors must be licensed by the State of Michigan. Homeowners may apply for the permit if completing the work themselves; complete the enclosed "Homeowner Affidavit".
4. Mechanical Permit Application may be required if the pool will be heated by any gas driven device. Mechanical contractors must be licensed by the State of Michigan. Homeowners may apply for the permit if completing the work themselves; complete the enclosed "Homeowner Affidavit".

Filling the pool

The Byron Gaines Utility Authority does not allow use of fire hydrants. The Township recommends filling the pool by using a garden hose. The cost can be estimated by the Water & Sewer Department based on the number of gallons specified. Tanker services are also recommended.



Gaines Charter Township General Information

Condensed from Gaines Charter Township Zoning Ordinance, Michigan Residential Code 2015 and the International Swimming Pool and Spa Code 2015

Swimming Pools and Ponds

A Structure either above or below or partly above and partly below grade, whether located inside, outside or partly in each, designed to hold water to a depth of greater than two (2) feet when filled, and intended to be used for swimming purposes.

A. Swimming Pool Location:

No pool shall be located in the Front Yard. Pools must meet the following setback requirements:

1. In-ground pool: At least 6 feet from any property line.
2. Above ground pool: At least 10 feet from any property line.

Setbacks are measured from the outside edge of the pool wall.

B. Fencing:

All swimming pools shall be protected by an approved fence or barrier. Fences must meet all of the following requirements:

1. The fence must be at least 4 feet in height.
2. The fence must be a type that children cannot readily climb. See International Swimming Pool and Spa Code 2015 for details.
3. All gates and doors must be capable of being locked and shall be locked at all times when no person is present on the lot or parcel of land upon which the pool is located.
4. All gates and doors shall be of a self-closing and self-latching type. The latch should be located on the inside of the gate positioned in such a manner that it is not readily available for children to open. Child-proof latches may be acceptable if approved by the Building Inspector.

C. Above-Ground Pools:

A fence is required per Section B unless:

1. The top of the pool is 4 or more feet above grade around the entire perimeter and must have an approved lockable or removable ladder.
2. If the above ground pool has a deck, the deck must meet Michigan Residential Code 2015 for construction and must provide barrier requirements of the International Swimming Pool and Spa Code 2015.

ARTICLE III. - SWIMMING POOLS

Sec. 10-46. - Purpose and intent.

In the past, some property owners have had outdoor swimming pools installed and have begun to fill such pools with water and utilize them prior to final township inspections and approvals, and in some situations without any required fencing being in place. The township board is concerned about the safety implications of not having required fencing in place and in compliance with all applicable laws prior to the time that a swimming pool is filled with water and utilized. The township board believes that this article is necessary to protect the public health, safety, and welfare.

(Ord. No. 02-MY-13-BLD, § 1, 6-10-2002)

Sec. 10-47. - Required permit.

No swimming pool shall be installed outdoors (nor shall any construction or installation on any such swimming pool commence) until a building permit has been issued by the township, which expressly authorizes the installation of such a swimming pool, alternately, the township has issued a separate permit for the pool. The installation, construction, and use of any such swimming pool shall comply with all applicable permit requirements and conditions.

(Ord. No. 02-MY-13-BLD, § 4, 6-10-2002)

Sec. 10-48. - Final township inspection and approval.

No swimming pool located outdoors shall be filled with water; and no such swimming pool shall be used (for wading, floating, or swimming) until and unless the final inspection has been done by the township (i.e., the applicable township official) and the township has given final approval for the swimming pool, required fencing, and other items required by the state construction code. The township recognizes that some water may be needed for the proper construction of a pool and that this water does not constitute filling the pool for use prior to final approval.

(Ord. No. 02-MY-13-BLD, § 5, 6-10-2002)

Sec. 10-49. - Security deposit.

No permit shall be issued for the installation of a swimming pool located outdoors and no such swimming pool shall be installed, constructed, or used until the owner of the property involved has deposited with the township a sum of money to ensure that the swimming pool, fencing and other required appurtenances are properly installed and that the swimming pool is not used prior to such proper installation and final approval by the township (the "pool security deposit"). The township board shall set the amount required for such pool security deposit from time to time by resolution.

- (1) *Full refund of the pool security deposit.* The full amount of the pool security deposit shall be refunded to the owner of the property involved if all of the following conditions are met:
 - a. The pool, fencing, and appurtenances have been fully installed as required by the state construction code and other applicable laws;
 - b. A final inspection has been done by the township and the pool, fencing, and all appurtenances have been approved by the township;
 - c. The pool has not been filled with water prior to the time of final township inspection and approval; however, some water is allowable if it is required for the proper installation of the pool during construction; and

- d. No additional costs have been incurred by the township due to multiple final inspections occurring, with due to noncompliance with this article, the building code, or other applicable codes.
- (2) *Township retention of the entire pool security deposit.* Pursuant to any of the following situations, the township may retain the entire amount of the pool security deposit and the same shall be deposited into the general township fund:
- a. The pool is filled with water prior to the final township inspection and approval; however, some water is allowable if it is required for the proper installation of the pool during construction;
 - b. The pool is used (i.e., for swimming, wading, or floating) prior to final township inspection and approval.
- (3) *Township retention of part of the pool security deposit.* The township building inspector will make a final inspection and a follow-up inspection of the pool, fencing or appurtenances. However, should any additional inspections of the pool, fencing, or appurtenances be necessitated due to the incomplete nature of the work or noncompliance with the building code, this article or other laws, the township shall retain and keep one-half of the pool security deposit and shall deposit the same in the general fund. As to the balance of the pool security deposit held by the township, subsection (1) or (2) of this section shall be applicable to the remaining portion of the pool security deposit depending upon the fact situation.

(Ord. No. 02-MY-13-BLD, § 6, 6-10-2002)

Sec. 10-50. - Nuisance.

Any swimming pool, fencing, or other appurtenance installed, constructed, or used in violation of this article, the state construction code, or any other applicable code shall be a nuisance per se.

(Ord. No. 02-MY-13-BLD, § 7, 6-10-2002)

Sec. 10-51. - Violation a municipal civil infraction.

Any person violating this article is responsible for a municipal civil infraction, punishable as provided in section 1-11.

(Ord. No. 02-MY-13-BLD, § 8, 6-10-2002)

Secs. 10-52—10-66. - Reserved.

CHAPTER 3

GENERAL COMPLIANCE

SECTION 301 GENERAL

301.1 Scope. The provisions of this chapter shall govern the general design and construction of public and residential aquatic vessels and all related piping, equipment, and materials. Provisions that are unique to a specific type of aquatic vessel are located in Chapters 4 through 10.

301.1.1 Application of Chapters 4 through 10. Where differences occur between the provisions of this chapter and the provisions of Chapters 4 through 10, the provisions of Chapter 4 through 10 shall apply.

SECTION 302 ELECTRICAL, PLUMBING, MECHANICAL AND FUEL GAS REQUIREMENTS

302.1 Electrical. Electrical requirements for aquatic facilities shall be in accordance with NFPA 70 or the *International Residential Code*, as applicable in accordance with Section 102.7.1.

Exception: Internal wiring for portable residential spas and portable residential exercise spas.

302.2 Water service and drainage. Piping and fittings used for water service, makeup and drainage piping for aquatic vessels shall comply with the *International Plumbing Code*. All fittings shall be approved for installation with the piping installed.

302.3 Pipe, fittings and components. Pipe, fittings and components shall be listed and labeled in accordance with NSF 50 or NSF 14. Plastic jets, fittings, and outlets used in public spas shall be listed and labeled in accordance with NSF 50.

Exception: Portable residential spas and portable residential exercise spas listed and labeled in accordance with UL 1563 or CSA C22.2 No. 218.1.

302.4 Concealed piping inspection. All piping, including process piping, that is installed in trenches, shall be inspected prior to backfilling.

302.5 Backflow protection. Water supplies for aquatic vessels shall be protected against backflow in accordance with the *International Plumbing Code* or the *International Residential Code*, as applicable in accordance with Section 102.7.1.

302.6 Wastewater discharge. Where wastewater from aquatic vessels, backwash from filters and water from deck drains discharge to the building drainage system, such installation shall be in accordance with the *International Plumbing Code* or the *International Residential Code*, as applicable in accordance with Section 102.7.1.

302.7 Tests. Tests on piping systems constructed of plastic piping shall not use compressed air for the test.

302.8 Maintenance. Aquatic vessels shall be maintained in a clean and sanitary condition, and in good repair.

302.8.1 Manuals. An operating and maintenance manual in accordance with industry-accepted standards shall be provided for each piece of equipment requiring maintenance.

[E] SECTION 303 ENERGY

303.1 General. The energy requirements for all pools and inground permanently installed spas shall be as specified in Sections 303.2 through 303.4 and APSP 15. The energy requirements for residential portable electric spas shall be in accordance with APSP 14.

303.2 Heaters. Heaters shall be equipped with an external on-off switch to allow the heater to be shutoff without adjusting the thermostat setting. Such switch shall be provided with ready access. Gas fired heaters shall not be equipped with continuous pilot burners.

Exception: Portable residential spas and portable residential exercise spas.

303.3 Time switches. Time switches or other control methods that can automatically turn off and on heaters and pumps according to a preset schedule shall be installed on all heaters and pumps. Heaters, pumps and motors that have built in timers shall be deemed in compliance with this requirement.

Exceptions:

1. Where public health standards require 24-hour pump operation.
2. Pumps that operate solar-and waste-heat recovery pool heating systems.
3. Portable residential spas and portable residential exercise spas.

303.4 Covers. Heated pools and inground permanently installed spas shall be provided with a vapor retardant cover.

Exception: Where more than 70 percent of the energy for heating, computed over an operating season, is from site-recovered energy such as from a heat pump or solar energy source.

SECTION 304 FLOOD HAZARD AREAS

304.1 General. The provisions of section 304 shall control the design and construction of aquatic vessels installed in flood hazard areas.

304.2 Determination of impacts based on location. Aquatic vessels located in flood hazard areas established by the *International Building Code* shall comply with Section 304.2.1 or 304.2.2.

Exception: Aquatic vessels located in riverine flood hazard areas that are outside of designated floodways and aquatic vessels located in flood hazard areas where the source of flooding is tides, storm surges, or coastal storms.

304.2.1 Aquatic vessels located in designated floodways. Where aquatic vessels are located in designated floodways, documentation shall be submitted to the code official that demonstrates that the construction of the aquatic vessel will not increase the design flood elevation at any point within the jurisdiction.

304.2.2 Aquatic vessels located where floodways have not been designated. Where aquatic vessels are located where design flood elevations are specified but floodways have not been designated, the applicant shall provide a floodway analysis that demonstrates that the proposed aquatic vessel and any associated grading and filling, will not increase the design flood elevation more than 1 foot (305 mm) at any point within the jurisdiction.

304.3 Aquatic vessels in flood hazard areas subject to high velocity wave action. Aquatic vessels installed in flood hazard areas subject to high velocity wave action (coastal high hazard areas) shall be designed and constructed in accordance with ASCE 24.

304.4 Protection of equipment. Equipment shall be elevated to or above the design flood elevation or be anchored to prevent flotation and protected to prevent water from entering or accumulating within the components during conditions of flooding.

304.5 GFCI protection. Electrical equipment installed below the design flood elevation shall be supplied by branch circuits that have ground-fault circuit interrupter protection for personnel.

SECTION 305 BARRIER REQUIREMENTS

305.1 General. The provisions of this section shall apply to the design of barriers for all aquatic vessels. These design controls are intended to provide protection against the potential drowning and near drowning by restricting access to such vessels. These requirements provide an integrated level of protection against potential drowning through the use of physical barriers and warning devices.

Exception: Portable residential spas and portable residential exercise spas.

305.2 Outdoor Swimming Pools. All outdoor aquatic vessels shall be surrounded by a barrier that complies with Sections 305.2.1 through 305.8.

Exception: Spas or hot tubs with a lockable safety cover that complies with ASTM F1346.

305.2.1 Barrier height and clearances. The top of the barrier shall be at least 48 inches (1524 mm) above grade measured on the side of the barrier that faces away from the aquatic vessel around the entire perimeter of the vessel and for a distance of three (3) feet measured horizontally from the required barrier. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches (51 mm) from surfaces that are not solid, such as grass or gravel, and measured on the side of the barrier that faces away from the vessel. Where the top of the vessel structure is above grade, the barrier shall be at ground level or mounted on top of the vessel structure, and the maximum vertical clearance between the top of the vessel structure and the bottom of the barrier shall be 4 inches (102 mm). The maximum vertical clearance between a surface below the barrier to a solid surface, such as concrete, and the bottom of the required barrier shall be four (4) inches (102 mm) measured on the side of the required barrier which faces away from the vessel.

305.2.2 Openings. Openings in the barrier shall not allow passage of a 4-inch-diameter (102 mm) sphere.

305.2.3 Solid barrier surfaces. Solid barriers that do not have openings shall not contain indentations or protrusions that form handholds and footholds, except for normal construction tolerances and tooled masonry joints.

305.2.4 Mesh restraining barrier/fence. Mesh fences, other than chain link fences in accordance with Section 305.2.7, shall be installed in accordance with the manufacturer's instructions and shall comply with the following:

1. The bottom of the mesh restraining fence shall be not more than 1 inch (25 mm) above the deck or installed surface or grade.

2. The maximum vertical clearance from the bottom of the mesh fence and the solid surface shall not permit the fence to be lifted more than four (4) inches (102 mm) from grade or decking.
3. The fence shall be designed and constructed so that it does not allow passage of a 4-inch sphere under any mesh panel. The maximum vertical clearance from the bottom of the mesh fence and the solid surface shall not be more than four (4) inches (102 mm) from grade or decking.
4. An attachment device shall attach each barrier section at a height not lower than 45 inches (1143 mm) above grade. Common attachment devices include, but are not limited to, devices that provide the security equal to or greater than that of a hook-and-eye-type latch incorporating a spring-actuated retaining lever such as a safety gate hook.
5. Where a hinged gate is used with a mesh barrier, the gate shall comply with Section 305.3.
6. Patio deck sleeves such as vertical post receptacles which are placed inside the patio surface shall be of a nonconductive material.
7. Mesh fences shall not be used on top of on ground residential pools.

305.2.5 Closely spaced horizontal members. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the aquatic vessel side of the fence. Spacing between vertical members shall not exceed 1.75 inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.

305.2.6 Widely spaced horizontal members. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.

305.2.7 Chain link dimensions. The maximum opening formed by a chain link fence shall be not more than 1.75 inches. Where the fence is provided with slats fastened at the top and bottom which reduces the openings, such openings shall be not more than 1.75 inches.

305.2.8 Diagonal members. Where the barrier is composed of diagonal members, the maximum opening formed by the diagonal members shall be no more than 1.75 inches (44 mm).

305.2.9 Clear Zone. There shall be a clear zone of not less than 36 inches (914 mm) around the exterior of the barrier and around any permanent structures or equipment such as pumps, filters and heaters that can be used to climb the barrier.

305.2.10 Poolside Barrier Setbacks. The aquatic vessel side of the required barrier shall be not less than twenty (20) inches from the water's edge.

305.3 Gates. Access gates shall comply with the requirements of Sections 305.3.1 through 305.3.3 and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the vessel and shall be self-closing and have a self-latching device.

305.3.1 Utility or Service Gates. Gates not intended for pedestrian use, such as utility or service gates, shall remain locked when not in use.

305.3.2 Double or multiple gates. Double gates or multiple gates shall have at least one leaf secured in place and the adjacent leaf shall be secured with a self-latching device. The gate and barrier shall not have openings larger than 1/2 inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.

305.3.3 Latches. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from grade, the release mechanism shall be located on the vessel side of the gate at least 3 inches (76 mm) below the top of the gate, and the gate and barrier shall not have openings greater than 1/2 inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.

305.4 Structure wall as a barrier. Where a wall of a dwelling or structure serves as part of the barrier, doors and operable windows with a sill height of less than 48 inches, that provide direct access to the aquatic vessel through the wall shall be equipped with an alarm that produces an audible warning when the door or its screen or window, is opened. The alarm shall be listed and labeled in accordance with UL 2017. In dwellings or structures not required to be Accessible units, Type A units or Type B units, the deactivation switch shall be located 54 inches (1372 mm) or more above the threshold of the door. In dwellings or structures required to be Accessible units, Type A units or Type B units, the deactivation switch shall be located not greater than 54 inches (1372 mm) and not less than 48 inches (1219 mm) above the threshold of the door. In addition, one or more of the following additional levels of protection shall be provided:

1. The aquatic vessel shall be equipped with a power safety cover that is listed and labeled in accordance with ASTM F1346.
2. The aquatic vessel shall be provided with an underwater alarm that is listed and labeled in accordance with ASTM F2208.
3. The aquatic vessel shall be provided with a laser or infrared alarm that is listed and labeled in accordance with ASTM F2208.
4. Other means of protection, such as self-closing doors with self-latching devices, which are approved, shall be accepted provided that the degree of protection afforded is not less than the protection afforded by Items 1, 2 or 3.

305.5 Pool structure as a barrier. Where an on ground residential pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, the following shall apply:

1. An onground pool wall, itself, shall be permitted to be the barrier where the pool structure is on grade and the wall is at least 48 inches (1219 mm) above grade for the entire perimeter of the pool and complies with the requirements of Section 305.3.
2. Where the means of access is a ladder or steps, the ladder or steps shall be capable of being secured, locked or removed to prevent access or the ladder or steps shall be surrounded by a barrier that meets the requirements of this section.
3. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diameter (102 mm) sphere.
4. The barrier shall be installed in accordance with the manufacturer's instructions.

305.6 Natural barriers. In the case where the vessel area abuts the edge of a lake or other natural body of water, public access is not permitted or allowed along the shoreline, and required barriers extend to and beyond the water's edge a minimum of eighteen (18) inches, a barrier is not required between the natural body of water shoreline and the vessel.

305.7 Natural topography. Natural topography that prevents direct access to the aquatic vessel area shall include but not be limited to mountains and natural rock formations. A natural barrier approved by the governing body shall be acceptable provided that the degree of protection is not less than the protection afforded by manufactured or constructed means.

305.8 Indoor swimming pools. Walls surrounding indoor aquatic vessels shall comply with Section 305.4.

SECTION 306 DECKS

306.1 General. Decks shall be designed and installed in accordance with the *International Residential Code* or the *International Building Code*, as applicable in accordance with Section 102.7, except as provided in this section.

306.2 Slip resistant. Decks, ramps, coping, and similar step surfaces shall be slip resistant and cleanable. Special features in or on decks such as markers, brand insignias, and similar materials shall be slip resistant.

306.3 Stair treads and risers. Stair riser heights shall be in accordance with the *International Residential Code* or the *International Building Code*, as applicable in accordance with Section 102.7.1.

306.4 Slope. The minimum slope of decks shall be in accordance with Table 306.4 except where an alternate drainage method is provided that prevents the accumulation or pooling of water. The slope for all decks, other than wood decks, shall be not greater than 1/2 inch per foot (1 mm per 24 mm) except for ramps. The slope for wood decks shall be not greater than 1/8 inch per 1 foot (1 mm per 96 mm). Decks shall be sloped so that standing water will not be deeper than 1/8 inch (3.2 mm), 20 minutes after the cessation of the addition of water to the deck.

**TABLE 306.4
MINIMUM DRAINAGE SLOPES**

Surface	Typical minimum drainage slope (inch per foot)
Textured, hand-finished concrete	1/8 in. (1mm per 96mm)
Exposed aggregate	1/4 in. (1mm per 48mm)
Carpet	1/2 in. (1mm per 24mm)
Brick and heavy textures finished	3/8 in. (1mm per 32mm)

306.5 Gaps. Gaps shall be provided between deck boards in wood decks. Gaps shall be consistent with approved engineering methods with respect to the type of wood used and shall not cause a tripping hazard.

306.5.1 Maximum gap. The open gap between pool decks and adjoining decks or walkways, including joint material, shall be not greater than 3/4 inch (19.1 mm). The difference in vertical elevation between the pool deck and the adjoining sidewalk shall be not greater than 1/4 inch (6.4 mm).

306.6 Concrete joints. Isolation joints that occur where the pool coping meets the concrete deck shall be watertight.

306.6.1 Joints at coping. Joints that occur where the pool coping meets the concrete deck shall be installed to protect the coping and its mortar bed from damage as a result of the anticipated movement of adjoining deck.

306.6.2 Crack control. Joints in a deck shall be provided to minimize visible cracks outside of the control joints caused by imposed stresses or movement of the slab.

306.6.3 Movement control. Areas where decks join existing concrete work shall be provided with a joint to protect the pool from damage due to relative movement.

306.7 Deck edges. The edges of all decks shall be radiused, tapered, or otherwise designed to eliminate sharp corners.

306.8 Valves under decks. Valves installed in or under any deck shall be provided with access for operation, service, and maintenance as required by the *International Plumbing Code* or *International Residential Code*, as applicable in accordance with Section 102.7.1. Access covers shall be provided.

306.8.1 Hose bibbs. Hose bibbs shall be provided for rinsing down the entire deck and shall be installed in accordance with the *International Plumbing Code* or *International Residential Code*, as applicable in accordance with Section 102.7.1, and shall be located not more than 150 feet apart. Water-powered devices, such as water-powered lifts, shall have a dedicated hose bibb water source.

Exception: Residential spas shall not be required to have a hose bibbs located at 150-foot intervals, or have a dedicated hose bibb for water-powered devices.



8555 Kalamazoo Ave SE • Caledonia MI 49316
PH: 616 698-6640 FAX: 616 698-2490
www.gainestownship.org

Building Department Homeowner Affidavit

I, _____, hereby certify, under penalty of perjury,
that if a permit is granted me, the work described on the permit application:

- ☐ **Building** ☐ **Electrical** ☐ **Mechanical** ☐ **Plumbing**
(Building includes: Demolition, Roofing and Swimming Pools)

Shall be installed by myself in my own home, in which I am living or about to occupy located at:

Address

City

Zip

All work shall be installed in accordance with the applicable Code(s) and shall not be enclosed, covered up or put into operation until it has been inspected and approved by the appropriate inspector(s). I will cooperate with the inspector(s) and assume the responsibility to arrange for necessary inspections.

Section 23a of the State Construction Code Act of 1972, 1972PA 230, MCL 125.1523A, prohibits a person from conspiring to circumvent the licensing requirements of this State relating to persons who are to perform work on a residential building or a residential structure. Violators of Section 23a or subject to civil fines.

Work shall not be started until the application for permit has been filed and permit issued. All installations shall be in conformance with the applicable Code(s). No work shall be concealed until it has been inspected. When ready for an inspection, provide as much advance notice as possible. The inspector will need the job location and permit number.

Signature: _____

Date: _____

Printed: _____

Phone: _____

E-Mail: _____



Swimming Pool Permit Application

8555 Kalamazoo Avenue SE • Caledonia MI 49316

Phone: 616 698-6640 FAX: 616 698-2490

John Stuyfzand – Building Official • 616 433-8560

www.gainestownship.org

Application Date:

Swimming Pool Permit Fee:

\$130

Pool Deposit (Refundable):

\$500

Identification

Name of Homeowner/Agent:		
Street Address:		
City:	State:	Zip:
Phone:	Cell:	E-Mail:

Location of Project

Address:	
City:	Zip:
Permanent Parcel Number (PPN): 41-22-	

Applicant

Is the Applicant the ☐ Contractor ☐ Homeowner	Contractor Name:	License Number:	Expiration Date:
Business Name:			
Address:			
City:	State:	Zip:	
Phone:	Cell:	E-Mail:	

Type of Pool

Above Ground ☐	Size: Length X Width: _____ Sidewall height of above ground pool: inches:	Deck? Yes ☐ No ☐
In Ground ☐		Decks require a separate Building Permit with detailed blueprints and gate/barrier information.
Soft Side ☐		
Description of ladder or barrier:		

Pools with less than 48" sidewalls require a separate barricade or fence.

Signature of Licensee or Homeowner

Name (Signature)	Date:
Name (Printed)	
New pools may <u>NOT</u> be used until an approved barrier is in place. A final inspection must be done to insure all codes and compliances are correct and a written notice of final approval is issued.	
The following is completed by the Building Department:	
Building Permit Number: <i>Subject to Field Inspection</i>	Building Inspector Signature:
Issue Date:	
Permit Fee:	
Any completed application shall be granted, in whole or in part, or denied within ten (10) business days, except in case of an unusually complicated building or structure, action shall be taken within fifteen (15) days. The term completed application shall mean an application which has had all required reviews and approvals, including Building Plan Review, prior to submission to the Building Department.	

REQUIREMENTS:

- A Building Permit Address card must be posted and visible from the street before work begins.
- An Application of Zoning Approval must be submitted and approved before a Swimming Pool Permit will be issued. The Zoning Application must be submitted with a site plan sketch showing lot lines, location of pool and barricade.
- An Electrical Permit Application must be submitted by a licensed electrical contractor or homeowner.
- Fencing for pools with less than 48" high sidewalls is required to enclose the entire pool area with a minimum four (4) foot high fence with a self-closing & self-latching gate. **Fencing must be in place before the pool is filled with water.**
- A new deck surrounding or connected to a pool requires a separate building permit and detailed blueprint drawings.

Acknowledgement Regarding Swimming Pool Installation

The Building Department requires this acknowledgement form be signed by **both** the owner of the property where a swimming pool is proposed to be installed as well as the contractor who will be installing the swimming pool.

A building permit must be issued for the installation of the swimming pool by the Township before the pool may be installed. The commencement of installation, or the installation of a swimming pool without first obtaining a permit from the Township constitutes a violation of Township ordinances.

The Building Inspector must be notified before filling the pool with any water. Filling or utilizing the swimming pool before the Township has completed both its final inspection and approval for the swimming pool may constitute a criminal misdemeanor violation of Township ordinances and can be potentially dangerous.

A Certificate of Occupancy which is considered to be the final approval by the Township, will not be issued until the swimming pool meets all code requirements and a final inspection has occurred. Should any of these violations occur, the Township will not hesitate to take appropriate legal action, including criminal prosecution. **The pool deposit will be refunded only after the Certificate of Occupancy is issued.**

The below-signed have fully read this acknowledgment form, understand its terms and agree to abide by same:

Property Owner	Contractor
Name (Signature)	Name (Signature)
Name (Printed)	Name (Printed)
Date:	Date:
Address:	Address:



8555 Kalamazoo Avenue SE • Caledonia MI 49316
 Ph: 616 698-6640 • Fax: 616 698-2490
www.gainestownship.org

FILE NO.

Application for Zoning Approval

Project Address		
Owner Name		
Owner Address	Street Address	City, State, Zip
Parcel Number(s):	41-22-	41-22-
Description of Proposed Project/Use		

Applicant/Contact		
Applicant/Contact Address	Street Address	City, State, Zip
Contact Info	Home / Office / Cell	E-Mail
<i>"I" hereby certify to the correctness and knowledge of the information submitted and hereby agree to comply with the terms and requirements of all applicable Township ordinances. I also grant Township staff permission to enter onto the subject property in review of this application.</i>		
Signature		
<i>Please complete the appropriate Worksheet as part of your application packet (see Staff for more information) for: Planning Commission, Zoning Board of Appeals requests, Land Divisions, Combinations or Lot Line Adjustments.</i>		

Township Use Only

Current Zoning District:				RL-14	RL-10	R-3	R-4	C-1	C-2	O-S	I-1	I-2	PUD	A-R	A-B
One / Two Family Construction	☐	Zoning Board of Appeals	☐	Planning Commission	☐	Land Combination	☐								
Site Plan Review	☐	Rezoning / PUD Rezoning	☐	PUD Amendment	☐	Land Division	☐								
Subdivision / Site Condo Review	☐	Special Use Permit	☐	Lot Line Adjustment	☐										
Other:															
Approved	☐	Approved with Conditions	☐	Denied	☐	Withdrawn	☐								
Zoning Administrator:														Date:	

Site Plan

Please Show:

The property lines and their dimensions.

The location, dimensions, setbacks, minimum building openings and distance between all existing and proposed structures.

The gross floor area, listed by floor level, including basements.

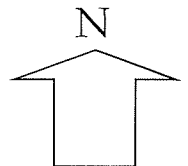
The location of all roads bordering or private drives/easements on the property.

The location of all bodies of water, easements, utility lines, sidewalks, drives, septic systems, drain, and other improvements.

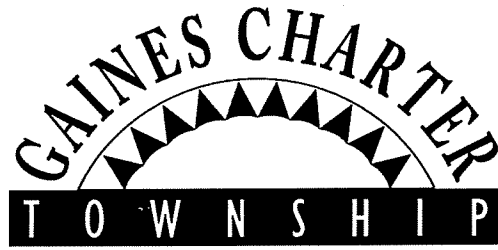
Please Note: Setbacks must be measured from the edge of the street right of way (which is not the edge of the pavement) or from the edge of an access easement. Staff reserves the right to determine whether or not an application is complete.

Place site plan in this area (*failure to do this may result in an incomplete application*)

Gross Floor Area Calculations



Main Floor: _____ Second Floor: _____ Basement: _____ Total: _____ Garage: _____



Electrical Fees for Pools

Page 2 of the Electrical Permit Application Form

Required:

#1	Administration Fee (non-refundable and does not include an inspection)	\$40
#19	K.V.A. and H.P.: Units up to 20 (Pool Pump)	\$ 6
#33	Final Inspection - All pools	\$40

By Circumstance:

#7	Circuits If adding a 120 volt circuit for a convenience outlet such as a radio, lights, or small power tools. This is required by code if there is not one already within 25'.	\$ 5 ea
#32	Bonding Inspection – required for in-ground pools	\$40



Electrical Permit Application

8555 Kalamazoo Avenue SE
Caledonia MI 49316

Phone: 616 698-6640 Fax: 616 698-2490

Roger Sterk – Electrical Inspector Phone: 616 438-9289

www.gainestownship.org

Application Date:

Authority:	1972 PA 230
Completion:	Mandatory to obtain permit
Penalty:	Permit cannot be issued

Job Location		Gaines Charter Township, Kent County Michigan	
Name of Owner / Agent:		Phone:	Has a Building Permit been obtained for this project? Yes ☐ No ☐ Not Required ☐
Location of Project:	Street Address		City
Contractor / Homeowner Information:			
☐ Contractor ☐ Homeowner	Business Name:		
	Contact Name:		
Address:	Street No. and Name City, State, Zip		
Phone / E-Mail	Office:	Cell:	E-Mail:
License Info:	Contractor Number	Expiration Date:	Federal Employer ID Number
	Master Electrician Name:		Master License Number
	Workers Compensation Insurance Carrier (or reason for exemption)		
Work to be completed.			
A description of work this permit covers (please write in this space):			
☐ Single Family ☐ Other	☐ New ☐ Alteration ☐ State Owned	☐ Service Only ☐ Special Inspection ☐ School	☐ Pre-manufactured Home Setup (State Approved) ☐ Manufactured Home Setup (HUD Mobile Home)
Plan Review Required			
Plans must be submitted with an Application for Plan Examination and the appropriate fee before a permit can be issued, except:			
Plans are not required 1. When the electrical system rating does not exceed 400 amps and the building is not over 3,500 sq ft in area. 2. Work completed by a governmental subdivision or state agency costing less than \$15,000. Check box if either of the above statements pertain: ☐ Plans Not Required			
Plans are required for all other building types and shall be prepared by or under the direct supervision of an architect or engineer licensed pursuant to 1980 PA 299 and shall bear that architect's or engineer's seal and signature. Plan Review Submission Number:			
Homeowner Affidavit			
I hereby certify the electrical work described on this permit application shall be installed by myself in my own home in which I am living or about to occupy. All work shall be installed in accordance with the Michigan Electrical Code and shall not be enclosed, covered up or put into operation until it has been inspected and approved by the Gaines Charter Township (GCT) Electrical Inspector. I will cooperate with the GCT Electrical Inspector and assume the responsibility to arrange for necessary inspections.			
Signature of licensee or homeowner (Homeowner signature indicates compliance with Homeowner Affidavit above.)			Date:

Fee Schedule							
Description	Fee	# of Items	Total	Description	Fee	# of Items	Total
1. Administration Fee (Non-refundable and does not include an inspection.)	\$40	1	\$40	K.V.A. and H.P.:			
2. Through 200 Amp	\$10			19. Units up to 20	\$6		
3. Over 200 Amp thru 600 Amp	\$15			20. Units 21 to 50	\$10		
4. Over 600 Amp thru 800 Amp	\$20			21. Units 51 K.V.A. and Over	\$12		
5. Over 800 Amp thru 1200 Amp	\$25						
6. Over 1200 Amp (GFI only)	\$50			FIRE ALARM SYSTEMS (Not smoke detectors)			
7. Circuits	\$5			22. Up to 10 devices	\$50		
8. Lighting Fixtures – per 25	\$6			23. Over 10 thru 20	\$100		
9. Dishwasher	\$5			24. Over 20 devices	\$5 ea		
10. Furnace – Unit Heater	\$5						
11. Electrical Heating Units (baseboard)	\$4			DATA / TELECOMMUNICATION:			
12. Power Outlets (Ranges, Dryers, etc.)	\$7			25. Up to 10 devices	\$50		
				26. Over 10 thru 20	\$100		
SIGNS:				27. Over 20 devices	\$5 ea		
13. Unit	\$10			28. Energy Retrofit – Temperature Control	\$45		
14. Letter	\$15			29. Conduit only or grounding only	\$45		
15. Neon – each 25 feet	\$20						
				INSPECTIONS:			
16. Feeders – Bus ducts, etc. per 50 feet	\$6			30. Special / Safety Inspection	\$50		
17. Mobile Home Park Site*	\$6			31. Service	\$40		
18. Recreational Vehicle Park Site	\$4			32. Rough-In	\$40 ea		
				33. Final	\$40		
Grand Total							
Total fee must include the \$40 non-refundable Administration Fee. Make checks payable to Gaines Charter Township.							
Section 23a of the State Construction Code Act of 1972, 1972 PA 230, MCL 125.1523a, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential building or a residential structure. Violators of section 23a are subject to civil fines.							

***Item #17 – Mobile Home Unit Site:**

When installing a site service in a mobile home park hereinafter called “park”, the permit application must include the application fee, service, plus the number of park sites. When setting a HUD mobile home in a park, a permit must include the application fee and a feeder. This shall be done by a licensed electrical contractor. When setting a HUD mobile home or a pre-manufactured home on private property, a permit must include the application fee, service and feeder.

General: Electrical work shall not be started until the application for the permit has been filed with Gaines Charter Township. All installations shall be in conformance with the National Electrical Code NEC 2014 with Part 8 Amendments. **No work shall be concealed until it has been inspected.** The telephone number for the inspector is **616 438-9289**. When ready for an inspection, call the inspector providing as much advance notice as possible. The inspector will need the **job location and permit number**.

Expiration of Permit: A permit remains valid as long as work is progressing and inspections are requested and conducted. A permit shall become invalid if the authorized work is not commenced within six months after the permit has been issued or if the authorized work is suspended or abandoned for a period of six months after the time of commencing the work. **A permit will be CLOSED when no inspections are requested and conducted within six months of the date of issuance or the date of a previous inspection. CLOSED permits cannot be refunded or reinstated.**

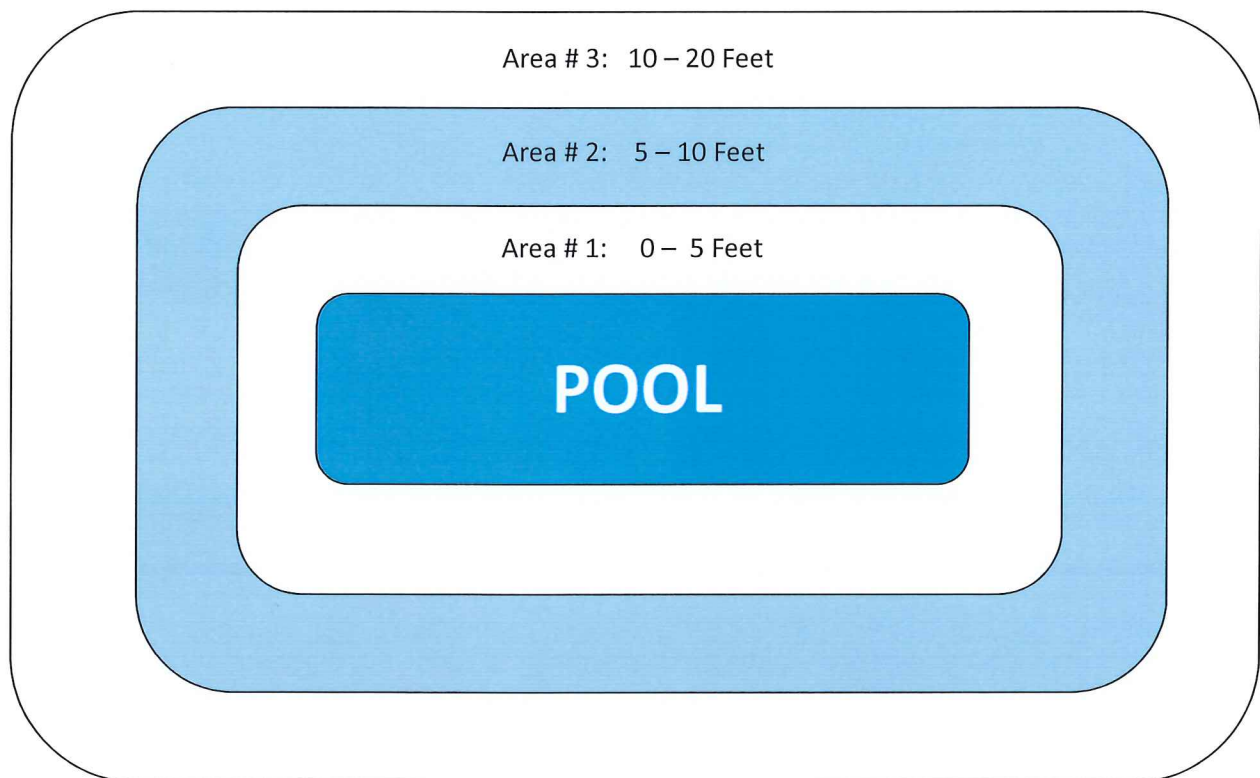
The wiring requirements around pools and for pool associated equipment is very specific regarding methods that may be used. As a homeowner you have the legal right to do this work once proper permits (the Electrical Permit in addition to the required Building Permit) have been obtained. Following is a summary of the requirements for pool wiring installation, complete requirements will be found in the National Electrical Code, Article 680. Those attempting to do this work should be familiar with this article.

Please refer to the diagram below for reference

Area #1: 0 – 5 feet from inside the edge of the pool. No electrical devices are allowed in this area, e.g. switches, receptacles, light fixtures. No underground electrical wiring is allowed in this area except for that which supplies pool equipment but it must be run in one of the following types of conduit, rigid metal, intermediate metal, (which is a threaded type) or rigid nonmetallic (electrical PVC gray in color not white plumbers or black irrigation)

Area #2: 5 – 10 feet. Switches are permitted. Lights are permitted if protected by a ground fault circuit interrupter (GFCI). No receptacles are permitted except for the pump motor receptacle which it must be a combination; single locking and grounding type and must be protected by GFCI and have a wet location cover that is capable of being closed while the cord is plugged in.

Area #3: 10-20 Feet. At least one receptacle is required to be located in this area for general use. All receptacles located in this area must be protected by GFCI Switches including light fixtures.



The approved wiring method for a pool pump motor is as follows: The wiring method shall contain an insulated grounding conductor no smaller than #12 installed with the circuit conductors.

Exterior of the dwelling / underground. Wiring shall be installed in a rigid metal conduit, intermediate metal conduit or rigid nonmetallic conduit. Electrical metallic tubing may be used on the exterior walls of the dwelling.

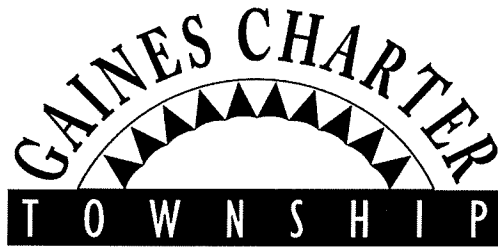
Interior of the dwelling. Wiring may be installed in electrical metallic tubing (EMT) type NM Cable (ROMEX) can also be used.

ROMEX and UF cable do not contain an insulated grounding conductor and cannot be run inside the conduit to the pump motor. A junction point (proper junction boxes and fittings to be used) must be made either immediately outside or inside the dwelling to change to the approved wiring method. It is not permitted to pull any SO or SJ type cord in a conduit or tubing.

There are no special wiring requirements for wiring the general receptacles or general lighting that may be installed around a pool except for the distance limitations and ground fault protection already mentioned. All wiring methods must be suitable for location installed.

CAUTION: Underwater lighting fixtures have specific wiring requirements. You should contact the electrical Official if you are planning to install this type of fixture as well as consult the installation instructions that are supplied with the light fixture.

These rules apply to both pools and hot tubs. This is only a summary of the rules, it is intended to be used as an aide in understanding the code requirements only. All wiring shall conform to Article 680 of the National Electrical Code.



Mechanical Fees for Pools

Page 2 of the Mechanical Permit Application Form

Gas Heater

#1	Administration Fee (non-refundable and does not include an inspection)	\$40
#3	Gas / Oil Burning Equipment – New and/or Conversion Units	\$30
#10	Gas Piping: Each Opening, New Installation	\$ 5
#34	Final inspection	\$40



Mechanical Permit Application

8555 Kalamazoo Avenue SE
Caledonia MI 49316

Phone: 616 698-6640 Fax: 616 698-2490

Mechanical Inspections • PH: 616 438-9076

www.gainestownship.org

Application Date:

Authority: 1972 PA 230

Completion: Mandatory to obtain permit

Penalty: Permit cannot be issued

Job Location		Gaines Charter Township, Kent County Michigan	
Name of Owner / Agent:		Phone:	Has a Building Permit been obtained for this project? Yes ☐ No ☐ Not Required ☐
Location of Project:	Street Address		City
Contractor / Homeowner Information:			
☐ Contractor ☐ Homeowner	Business Name:		
	Contact Name:		
Address:	Street No. and Name City, State, Zip		
Phone / E-Mail	Office:	Cell:	E-Mail:
License Info:	Contractor Number:	Expiration Date:	Federal Employer ID Number
	MESC Employer Number		
Workers Compensation Insurance Carrier (or reason for exemption)			
Type of Job (Description of work to be completed.)			
<i>This section must be completed.</i>			
☐ Single Family ☐ Other	☐ New ☐ Alteration	☐ Special Inspection	☐ Pre-manufactured Home Setup (State Approved) ☐ Manufactured Home Setup (HUD Mobile Home)
Section 23a of the State Construction Code Act of 1972, 1972 PA 230, MCL 125.1523a, prohibits a person from conspiring to circumvent the licensing requirements of this state relating to persons who are to perform work on a residential building or a residential structure. Violators of section 23a are subject to civil fines.			
Homeowner Affidavit			
I hereby certify the mechanical work described on this permit application shall be installed by myself in my own home in which I am living or about to occupy. All work shall be installed in accordance with the Michigan Mechanical Code and shall not be enclosed, covered up or put into operation until it has been inspected and approved by the Gaines Charter Township (GCT) Building Official. I will cooperate with the GCT Building Official and assume the responsibility to arrange for necessary inspections.			
Signature of Mechanical Contractor or Homeowner (Homeowner signature indicates compliance with Homeowner Affidavit above.)			Date:

Fee Schedule

Description	Fee	# of Items	Total	Description	Fee	# of Items	Total
1. Administration Fee (Non-refundable and does not include an inspection.)	\$40	1	\$40	19. Heat Pumps: Commercial (Pipe Not Included)	\$20		
2. Residential Heating System (Includes Duct & Pipe)	\$50			AIR HANDLERS / HEAT WHEELS:			
3. Gas / Oil Burning Equipment New and/or Conversion Units	\$30			20. Under 10,000 CFM	\$20		
4. Residential Boiler	\$30			21. Over 10,000 CFM	\$60		
5. Water Heater	\$5			22. Commercial Hoods	\$15		
6. Flue / Vent Damper	\$5			23. Heat Recovery Units	\$10		
7. Solid Fuel Equip/Fireplace (Includes Chimney)	\$30			24. V.A.V. Boxes	\$10		
8. Chimney, Factory Built Installed Separately	\$25			25. Unit Ventilators	\$25		
9. Solar: Set of 3 Panels (Includes Piping)	\$20			26. Unit Heaters (Terminal Units)	\$15		
10. Gas Piping: Each Opening New Installation	\$5			27. Fire Suppression/Protection Minimum \$20	\$.75 Per Head		
11. Residential A/C	\$30			28. Evaporator Coils	\$30		
12. Heat Pumps: Complete Residential	\$30			29. Refrigeration (Split System)	\$30		
13. Bath & Kitchen Exhaust / Water Heater Vent	\$5 ea			30. Chiller	\$30		
14. Tank Aboveground	\$20			31. Cooling Towers	\$30		
15. Tank Underground	\$25			32. Compressor	\$30		
16. Humidifiers	\$10						
17. Piping 50' - \$.05 / ft. Residential – no minimum Commercial - \$25 minimum				INSPECTIONS:			
18. Duct 50' - \$.10 / ft. Residential – no minimum Commercial - \$25 minimum				33. Rough-In	\$40		
				34. Final	\$40		
				35. Additional	\$40		

Grand Total:

Total fee must include the \$40 non-refundable Administration Fee. Make checks payable to Gaines Charter Township.

General: Mechanical work shall not be started until the application for the permit has been filed with Gaines Charter Township. All installations shall be in conformance with the 2015 Michigan Mechanical Code. **No work shall be concealed until it has been inspected.** The telephone number for the inspector is **616 438-9076**. When ready for an inspection, call the inspector providing as much advance notice as possible. The inspector will need the **job location** and **permit number**.

Expiration of Permit: A permit remains valid as long as work is progressing and inspections are requested and conducted. A permit shall become invalid if the authorized work is not commenced within six months after the permit has been issued or if the authorized work is suspended or abandoned for a period of six months after the time of commencing the work. **A permit will be CLOSED when no inspections are requested and conducted within six months of the date of issuance or the date of a previous inspection. CLOSED**