



cityofnovi.org

RESIDENTIAL SWIMMING POOL & SPA REQUIREMENTS
CITY OF NOVI
Community Development Department
(248) 347-0415

GENERAL:

- APPLIES TO ALL POOLS OR SPAS CONTAINING 24 INCHES OR MORE OF WATER AT ANY POINT.
- All residential pools and spas must conform to the City of Novi Ordinance and comply with *Appendix G of the 2015 Michigan Residential Code, incorporating the Michigan Uniform Energy Code 2009.*
- Permit for Pool or Spa is required.
- Submit Homeowner Association or Architectural Control Committee approval. This can be the plans submitted, with a signature and date.
- Minor Land Improvement Permit required for in ground swimming pools only. Submit with check for \$161.00 for review and inspection.
- Woodland/Wetland Affidavit required.
- Construction safety fence required for in-ground pools during construction.

ZONING REQUIREMENTS:

- All pools must be a minimum of ten (10) feet away from the principle structure. NOTE: Spas on decks or patios may be located anywhere within the approved deck requirements.
- Pools and spas cannot be located within ten (10) feet of any overhead wires.
- Pools or spas shall be located no closer than six (6) feet to any side or rear property line.

BUILDING CODE REQUIREMENTS:

- Provide enclosure around pool a minimum of four (4) feet in height with a gate. The gate shall open outwards from the pool and be self-closing and have a self-latching device. If the self latching device is located less than 54" from the bottom of the gate then the release mechanism shall be located on the pool side of the gate at least 3 inches below the top of the gate and the barrier shall have no openings greater than ½" within 18 inches of the release mechanism.
(Code Section AG105.2, MRC 2015)
- Spas or hot tubs may be equipped with a safety cover which complies with ASTM F 1346, instead of a barrier. – Submit all supporting documentation.
(Code Section AG 105.5, MRC 2015)
- Where the wall of a dwelling serves as part of the barrier, one of the following conditions must be met:
 - * All doors with direct access to the pool through that wall 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 sound of the alarm shall be capable of being heard throughout the house during normal household activities. The alarm shall automatically reset under all conditions. The alarm shall be equipped with manual means, such as touch pads or switches, to deactivate temporarily the alarm for a single opening from either direction. Such deactivation shall last for not more than 15 seconds. The deactivation touchpads or switches shall be located at least 54 inches (1372 mm) above the threshold of the door.
(Code Section AG 105.2 (9.2), MRC 2015).
 - * The pool may be equipped with an approved power safety cover in compliance with ASTM F1346, instead of having the doors to the dwelling alarmed – submit all supporting documentation.
(Code Section Ag 105.2 (9.1) MRC 2015)
- Where an above-ground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and 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 shall be surrounded by a barrier, which meets the requirements of Section 105.2, items 1 through 9. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diameter sphere.
(Code Section AG 105.2 (10) MRC 2015)

PLAN SUBMITTAL - SHALL INCLUDE TWO (2) SETS OF THE FOLLOWING:

1. Site Plan

- a. Show location of pool in reference to property lines, principle building, and accessory structure
- b. Show location of overhead power lines (Horizontal and vertical distance to pool per Chapter 41 of Michigan Residential Code 2015)
- c. Show location of enclosures (fences) and details of fence openings
- d. Indicate location of electrical and pump filter
- e. Indicate location of easements
- f. Show location of well and septic (if applicable)

2. Pool Plans

a. Above-Ground

- i. Show description of pool shape and size
- ii. Indicate materials used
- iii. Show type of fence to be used. Provide dimensions on openings and all supports.
- iv. If deck, show supports and height off grade.

b. In-Ground

- i. Show description of pool - shape and size
- ii. Indicate materials used
- iii. Indicate steel layout
- iv. Show electrical grounding
- v. Provide a sectional view showing depth, location of diving board, steps, and ladder
- vi. Show composition and width of walking surface around pool
- vii. Indicate plumbing and heating

SPECIAL NOTE: Notify "Miss Dig" prior to any excavation. Have them stake out location of all underground utility lines.

CHAPTER 42

SWIMMING POOLS

SECTION E4201 GENERAL

E4201.1 Scope. The provisions of this chapter shall apply to the construction and installation of electric wiring and equipment associated with all swimming pools, wading pools, decorative pools, fountains, hot tubs and spas, and hydromassage bathtubs, whether permanently installed or storable, and shall apply to metallic auxiliary equipment, such as pumps, filters and similar equipment. Sections E4202 through E4206 provide general rules for permanent pools, spas and hot tubs. Section E4207 provides specific rules for storable pools and storable/portable spas and hot tubs. Section E4208 provides specific rules for spas and hot tubs. Section E4209 provides specific rules for hydromassage bathtubs. (680.1)

E4201.2 Definitions. (680.2)

CORD-AND-PLUG-CONNECTED LIGHTING ASSEMBLY. A lighting assembly consisting of a cord-and-plug-connected transformer and a luminaire intended for installation in the wall of a spa, hot tub, or storable pool.

DRY-NICHE LUMINAIRE. A luminaire intended for installation in the floor or wall of a pool, spa or fountain in a niche that is sealed against the entry of water.

FORMING SHELL. A structure designed to support a wet-niche luminaire assembly and intended for mounting in a pool or fountain structure.

FOUNTAIN. Fountains, ornamental pools, display pools, and reflection pools. The definition does not include drinking fountains.

HYDROMASSAGE BATHTUB. A permanently installed bathtub equipped with a recirculating piping system, pump, and associated equipment. It is designed so it can accept, circulate and discharge water upon each use.

LOW VOLTAGE CONTACT LIMIT. A voltage not exceeding the following values:

1. 15 volts (RMS) for sinusoidal AC
2. 21.2 volts peak for nonsinusoidal AC
3. 30 volts for continuous DC
4. 12.4 volts peak for DC that is interrupted at a rate of 10 to 200 Hz

MAXIMUM WATER LEVEL. The highest level that water can reach before it spills out.

NO-NICHE LUMINAIRE. A luminaire intended for installation above or below the water without a niche.

PACKAGED SPA OR HOT TUB EQUIPMENT ASSEMBLY. A factory-fabricated unit consisting of water-circulating, heating and control equipment mounted on a common base, intended to operate a spa or hot tub. Equipment may include pumps, air blowers, heaters, luminaires, controls and sanitizer generators.

PERMANENTLY INSTALLED SWIMMING, WADING, IMMERSION AND THERAPEUTIC POOLS. Those that are constructed in the ground or partially in the ground, and all others capable of holding water with a depth greater than 42 inches (1067 mm), and all pools installed inside of a building, regardless of water depth, whether or not served by electrical circuits of any nature.

POOL. Manufactured or field-constructed equipment designed to contain water on a permanent or semipermanent basis and used for swimming, wading, immersion, or therapeutic purposes.

POOL COVER, ELECTRICALLY OPERATED. Motor-driven equipment designed to cover and uncover the water surface of a pool by means of a flexible sheet or rigid frame.

SELF-CONTAINED SPA OR HOT TUB. A factory-fabricated unit consisting of a spa or hot tub vessel with all water-circulating, heating and control equipment integral to the unit. Equipment may include pumps, air blowers, heaters, luminaires, controls and sanitizer generators.

SPA OR HOT TUB. A hydromassage pool, or tub for recreational or therapeutic use, not located in health care facilities, designed for immersion of users, and usually having a filter, heater, and motor-driven blower. They are installed indoors or outdoors, on the ground or supporting structure, or in the ground or supporting structure. Generally, a spa or hot tub is not designed or intended to have its contents drained or discharged after each use.

STORABLE SWIMMING, WADING OR IMMERSION POOLS; OR STORABLE/PORTABLE SPAS AND HOT TUBS. Those that are constructed on or above the ground and are capable of holding water with a maximum depth of 42 inches (1067 mm), or a pool with nonmetallic, molded polymeric walls or inflatable fabric walls regardless of dimension.

THROUGH-WALL LIGHTING ASSEMBLY. A lighting assembly intended for installation above grade, on or through the wall of a pool, consisting of two interconnected groups of components separated by the pool wall.

WET-NICHE LUMINAIRE. A luminaire intended for installation in a forming shell mounted in a pool or fountain structure where the luminaire will be completely surrounded by water.

SECTION E4202 WIRING METHODS FOR POOLS, SPAS, HOT TUBS AND HYDROMASSAGE BATHTUBS

E4202.1 General. Wiring methods used in conjunction with permanently installed swimming pools, spas, hot tubs or hydromassage bathtubs shall be installed in accordance with Table E4202.1 and Chapter 38 except as otherwise stated in this section. Storable swimming pools shall comply with Section E4207. (680.7; 680.21(A); 680.23(B) and (F); 680.25(A); 680.42; 680.43; and 680.70)



MINOR LAND IMPROVEMENT PERMIT APPLICATION
CITY OF NOVI
Community Development Department
(248) 347-0415

Location: _____

Lot No. or Parcel No.: _____ Subdivision: _____

Area of Parcel or Lot: _____ Acres: _____

Swimming pool Driveway Berm Other _____

Owner: _____

Phone No: () _____ Fax No: () _____

Address: _____ City: _____ Zip: _____

Builder: _____

Phone No: () _____ Fax No: () _____

Address: _____ City: _____ Zip: _____

E-mail address: _____

- Minor Land Improvement Permit is required for any improvement that will affect drainage of property.
- Final inspection required after completion of work.
- Applicant shall submit five (5) sets of plot plans showing the location of the proposed improvement in reference to all property lines, existing structure(s) and/or proposed structure(s). Plans shall show the drainage pattern by elevations of the proposed improvement and the surrounding grade. Elevations shall show existing and new.
- Allow approximately five (5) to seven (7) working days for approval. Note: No Building Permit will be issued until the Land Improvement Permit is approved.
- Cost of the Minor Land Improvement Permit is \$161.00, payable when submitted.
- Show on the plan any woodland or wetland area within the lot.

The undersigned hereby makes application for a Land Improvement Permit in accordance with Ordinance No. 82-103 *City of Novi Drainage Regulation Ordinance*.

Applicant or Authorized Agent: _____

Date: _____



Community Development Department
 45175 Ten Mile Road
 Novi, MI 48375
 (248) 347-0415 Phone
 (248) 735-5600 Facsimile
 www.cityofnovi.org

Permit #: _____

**WOODLANDS/WETLANDS/WATERCOURSE
 AFFIDAVIT APPLICATION
 APPLICATION MUST BE FILLED OUT COMPLETELY**

I. PROPERTY INFORMATION

PROJECT NAME / SUBDIVISION	
ADDRESS	LOT/SUITE/SPACE #
SIDWELL # 50-22-_____	May be obtained from Assessing Department (248) 347-0485
CROSS ROADS OF PROPERTY	ACREAGE

II. APPLICANT/ INFORMATION

A. PROPERTY OWNER		EMAIL ADDRESS	CELL PHONE NO.
NAME		TELEPHONE NO.	
ORGANIZATION/COMPANY		FAX NO.	
ADDRESS	CITY	STATE	ZIP CODE
B. CONTRACTOR		EMAIL ADDRESS	CELL PHONE NO.
Identify the person or organization that owns the subject property:		TELEPHONE NO.	
NAME		FAX NO.	
ORGANIZATION/COMPANY		FAX NO.	
ADDRESS	CITY	STATE	ZIP CODE

III. PROPOSED PROJECT INFORMATION

DESCRIBE THE FOLLOWING ACTIVITY: _____ PROJECT STARTING DATE: _____

<p>WETLANDS/WATERCOURSE</p> <p>That the Applicant has examined the Official Wetlands/Watercourse Map for the City of Novi, Chapter 12, Article V of the Novi Code and if applicable, has referred to the final approved plat and/or approved site plan and determined that the above property:</p> <p><input type="checkbox"/> Does not contain any regulated wetland/watercourse or regulated twenty-five (25) foot wetland/ watercourse setback (i.e., 25-foot buffer) and is not contiguous to any stream or watercourse.</p> <p><input type="checkbox"/> Does contain regulated wetland/watercourse and twenty-five (25) foot wetland/watercourse setback (i.e., 25-foot wetland buffer). Protective measures are required pursuant to Chapter 12, Article V of the City of Novi Code. All proposed work shall take place outside of these areas.</p> <p><input type="checkbox"/> Adjacent to regulated wetland/watercourse. Property contains twenty-five (25) foot wetland/watercourse setback (i.e., 25-foot wetland buffer). Protective measures are required pursuant to Chapter 12, Article V of the City of Novi Code. All proposed work shall take place outside of these areas.</p> <p><input type="checkbox"/> Impacts to regulated wetlands or regulated twenty-five (25) foot wetland/watercourse setback (i.e., 25-foot buffer) are proposed and are indicated on the proposed plan.</p>	<p>WOODLANDS</p> <p>That the Applicant has examined the Official Woodlands Map for the City of Novi, Novi Code Chapter 37 and has referred to the final approved plat and/or final approved site plan and determined that the above property:</p> <p><input type="checkbox"/> Does not contain any regulated woodlands on this property.</p> <p><input type="checkbox"/> Does not contain any designated Historic or Specimen trees as defined under Chapter 37 of the City of Novi Code, nor any tree with a diameter of thirty six (36) inches measured at four and one half (4 1/2) feet above existing grade.</p> <p><input type="checkbox"/> Does contain -regulated woodlands are located on this property. Protective measures are required pursuant to Chapter 37 of the City of Novi Code.</p> <p><input type="checkbox"/> Regulated woodlands are located adjacent to this property. Protective measures are required pursuant to Chapter 37 of the City of Novi Code.</p> <p><input type="checkbox"/> Impacts to regulated woodlands are proposed and are indicated on the proposal Plan.</p>
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 Print Signature of Applicant

 Signature of Applicant

 Date