



City of Zeeland

Guidelines and Requirements for Swimming Pools, Spas, Hot Tubs and Similar Devices

The City has a number of specific regulations with which you must comply to provide protection to yourself and others that may enjoy your pool. In addition, to ensure that your pool does not annoy or become a problem to others near your property, there are a number of general guidelines and requirements that you will also need to address in your planning. Most pool installations will require both a Building/Pool Permit and an Electrical Permit.

There are additional, more specific construction requirements that you should become knowledgeable of, if you should proceed to the point of pool construction, particularly with in-ground pools or construction of decks. Contact the Building Inspector for more information.

You are encouraged to call the City Building and Zoning Department early in your planning so that the installation of your pool can be done without unnecessary delay.

Codes and ordinances define “**pools**” to include any pool, spa, hot tub, etc. capable of holding 24 or more inches of water at any point in the pool. This also includes the air inflatable “blue pools.”

Pool General Requirements

1. Any pool, hot tub or spa capable of holding 24” of water or more must be enclosed with a non-climbable fence that is 4 to 6 feet high. See the following “Pool Enclosure Requirements” for specific fence and gate requirements.
2. Spas and hot tubs are not required to be enclosed if they have a safety cover that complies with ASTM F 1346 standards.
3. Pools must be equipped with a filter and circulation system that will turn over the water every 18 hours.
4. Pool and spa drains must have an approved “Safety Vacuum Release System” (SVRS).
5. Pools must have an effective germicide, algacide, and ph control procedure.
6. Pool water discharged from backwashing, etc. must not become a nuisance to adjacent properties.
7. The electrical circuit that supplies power to your pool area must be protected with a ground fault interrupter.
8. Pools may only be placed in side and rear yards.
9. Most pools and decks are permitted to be located within 3 feet of interior side and rear property lines.
10. Diving board requirements are available from your inspector.
11. An alarm system may be required on doors leading from the house to the pool.

If you are considering a pool, you are encouraged to bring a “to-scale” site sketch of your property to the Building and Zoning Department where it can be determined if a pool is feasible for your property. A pool permit application & drawing may be left at the office for the inspectors to use when they make pre-construction site investigations prior to permit approval. The drawing will then become a part of the permanent City Hall record of your property. You should be as accurate as possible with information on the drawing regarding decks, fences, gate construction, and pool access from your house.

Pool Enclosure Requirements

Fence Height

Fences that enclose a swimming pool, spa, hot tub, or similar device must have a minimum height of 4 (four) feet and can be a maximum height of 6 (six) feet.

Chain Link Fence

Chain link fencing may not be placed in front yards. If chain link fencing is used to enclose the pool the fence mesh openings may not be larger than 2 ¼ inches.

Access Gates

Pool access gates must open out away from the pool, have self-closing, self-latching hardware, and also have the latch control lever 54 inches above the adjacent ground or standing surface by the gate, or attach the control lever on the inside of the gate 6 inches down from the top.

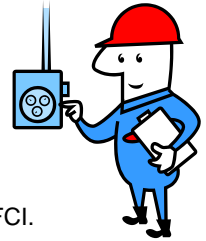
If you have any questions regarding fence and gate requirements, please contact the Building and Zoning Department.

(616) 772-0872

buildinginspector@ci.zeeland.mi.us

Rev June 12

Pools, Spas & Hot Tub Electrical Requirements

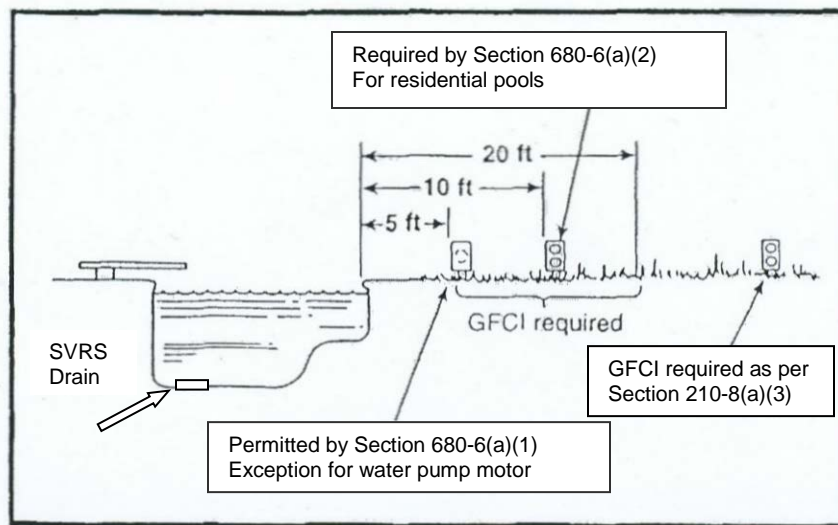


Electrical Outlets

1. The pool pump outlet must be located between 5 feet and 10 feet from the inside wall of the pool and shall be single and of the locking and grounding type. It must also be protected by a ground fault circuit interrupter.
2. All other outdoor outlets must be located at least 10 feet from the inside wall of the pool or foundation and be GFCI.
3. At least one 125 volt, 15 or 20 ampere outlet shall be located a minimum of 10 feet from and not more than 20 feet from the inside wall of the pool or 6 feet 6 inches above grade. It must be GFCI protected.

Other Requirements

4. Cords for equipment rated 20 amperes or less (other than lights and certain filter equipment for storable pools) shall not exceed 3 feet in length and have a copper-grounding conductor not smaller than #12 AWG.
5. All underground wiring must be installed in an approved conduit. The ground wire must be green and insulated.
6. All overhead wires must be located a minimum of 10 feet horizontally from the pool wall. All underground wires must be 5 feet horizontally from the inside wall of the pool.



7. The wiring method for a pool pump motor shall contain an insulated grounding conductor no smaller than #12 installed with the circuit conductors.
8. **Exterior and underground** wiring shall be installed in rigid metal conduit, intermediate metal conduit, or rigid nonmetallic conduit. Electrical metallic tubing (EMT) may be used on the exterior walls of the dwelling. Interior wiring may be installed in electrical metallic tubing. 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 must 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.
8. There are no special requirements for wiring the general outlets or general lighting that may be installed around a pool except for the distance limitations and ground fault protection mentioned above. All wiring methods must be suitable for the location where installed.
9. **CAUTION:** Underwater lighting fixtures have very specific wiring requirements. You should contact the electrical inspector if you are planning to install this type of fixture as well as consult the installation instructions that are supplied with the light fixture.
10. Certain pool parts and construction components of in-ground pools must be bonded as required by the Building & Electrical Codes.

NOTE: These rules apply to pools and spas/hot tubs. This is only a summary of the regulations and is intended to be used as an aide in understanding the code requirements. All wiring shall conform to Article 680 of the MEC.



POOL PERMIT APPLICATION
CITY OF ZEELAND
21 SOUTH ELM ST
ZEELAND, MI 49464
PH 616-772-0872 FAX 616-772-0880
www.ci.zeeland.mi.us

AUTHORITY: P.A. 230 OF 1972 AS AMENDED
 COMPLETION: MANDATORY TO OBTAIN PERMIT
 PENALTY: PERMIT CANNOT BE ISSUED

I. PROJECT INFORMATION

PROJECT DESCRIPTION	PROJECT COST \$
PROJECT ADDRESS (street number & street name)	
CROSS STREETS	

II. IDENTIFICATION

A. OWNER OR LESSEE

NAME		ADDRESS	
CITY	STATE	ZIP	TELEPHONE () - FAX () -

B. CONTRACTOR (SKIP THIS SECTION AND CHECK BOX IF WORK IS BEING DONE BY OWNER)

NAME		ADDRESS	
CITY	STATE	ZIP	TELEPHONE () - FAX () -

LICENSEE NAME

BUILDERS LICENSE NUMBER	EXPIRATION
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FEDERAL EMPLOYER NUMBER OR REASON FOR EXEMPTION

WORKERS COMP INSURANCE CARRIER OR REASON FOR EXEMPTION

MESC EMPLOYER NUMBER OR REASON FOR EXEMPTION

III. TYPE OF IMPROVEMENT AND PLAN REVIEW

A. TYPE OF IMPROVEMENT

1. NEW BUILDING 2. ALTERATION 3. ADDITION 4. REPAIR 5. FOUNDATION ONLY
 6. RELOCATION 7. DEMOLITION 8. MOBILE HOME SETUP 9. PREMANUFACTURE 10. SPECIAL INSP

B. REVIEW(S) TO BE PERFORMED

BUILDING ELECTRICAL MECHANICAL PLUMBING FOUNDATION

IV. APPLICANT SIGNATURE

APPLICANT IS RESPONSIBLE FOR THE PAYMENT OF ALL FEES AND CHARGES PERTAINING TO THIS APPLICATION.

I HEREBY CERTIFY THAT THE PROPOSED WORK IS AUTHORIZED BY THE OWNER OF RECORD AND THAT I HAVE BEEN AUTHORIZED BY THE OWNER TO MAKE THIS APPLICATION AS HIS/HER AUTHORIZED AGENT. WE AGREE TO CONFORM TO ALL APPLICABLE LAWS OF THE STATE OF MICHIGAN. ALL INFORMATION SUBMITTED ON THIS APPLICATION IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

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 subjected to civil fines.

✓ SIGNATURE OF APPLICANT

PRINTED NAME

PLAN REVIEW FEE ENCLOSED \$

BUILDING PERMIT FEE ENCLOSED \$

V. ENVIRONMENTAL CONTROL APPROVAL – FOR DEPARTMENT USE ONLY

	REQUIRED?	APPROVED	DATE	NUMBER	BY
A – ZONING	<input type="checkbox"/> YES <input type="checkbox"/> NO				
B – FIRE DISTRICT	<input type="checkbox"/> YES <input type="checkbox"/> NO				
C – POLLUTION CONTROL	<input type="checkbox"/> YES <input type="checkbox"/> NO				
D – NOISE CONTROL	<input type="checkbox"/> YES <input type="checkbox"/> NO				
E – SOIL EROSION	<input type="checkbox"/> YES <input type="checkbox"/> NO				
F – FLOOD ZONE	<input type="checkbox"/> YES <input type="checkbox"/> NO				
G – WATER SUPPLY	<input type="checkbox"/> YES <input type="checkbox"/> NO				
H – SEPTIC SYSTEM	<input type="checkbox"/> YES <input type="checkbox"/> NO				
I – VARIANCE GRANTED	<input type="checkbox"/> YES <input type="checkbox"/> NO				
J – OTHER	<input type="checkbox"/> YES <input type="checkbox"/> NO				

VI. VALIDATION – FOR DEPARTMENT USE ONLY

USE GROUP _____ BASE FEE _____
 TYPE OF CONSTRUCTION _____ NO. OF INSPECTIONS _____
 SQUARE FEET _____

APPROVAL SIGNATURE

TITLE

DATE

The City of Zeeland will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, handicap or political beliefs.

Please draw your site and proposed structure in the space below. Site plan must include street, sidewalk, and all structures on the property. Please indicate pool height, fence height, and fence material. Please show distances between all structures, property lines and overhead wires.

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ELECTRICAL PERMIT APPLICATION
CITY OF ZEELAND
21 SOUTH ELM ST
ZEELAND, MI 49464
PH 616-772-0872 FAX 616-772-0880
www.ci.zeeland.mi.us

AUTHORITY: P.A. 230 OF 1972 AS AMENDED
 COMPLETION MANDATORY TO OBTAIN PERMIT
 PENALTY: PERMIT CANNOT BE ISSUED

I. JOB LOCATION

Name of Owner/Agent	Has a building permit been obtained for this project? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not required	
Address/Job Location (street number & street name)	City ZEELAND	County OTTAWA

II. CONTRACTOR/HOMEOWNER INFORMATION

<input type="checkbox"/> Contractor <input type="checkbox"/> Homeowner	Name	License Number	Expiration Date
Address (street number & street name)		City	State MI
Zip		Federal Employer I.D. Number (or reason for exemption)	
Telephone Number () -	Fax Number () -		
Workers Comp Insurance Carrier (or reason for exemption)		MESC Employer Number (or reason for exemption)	

III. TYPE OF JOB

<input type="checkbox"/> New	<input type="checkbox"/> Alteration	<input type="checkbox"/> Service	<input type="checkbox"/> Special inspection	<input type="checkbox"/> Pre-manufactured home setup (state approved)
<input type="checkbox"/> Other	<input type="checkbox"/> Sign	<input type="checkbox"/> School	<input type="checkbox"/> State-owned	<input type="checkbox"/> Pre-manufactured home setup (HUD mobile home)

IV. PLAN REVIEW REQUIRED

See below for plan review requirements before completing this section. Plans and specifications must be submitted when the wiring or alteration to an electrical system is over 400 amps or is in excess of 3,500 square feet in all buildings.

What is the rating of the service or feeder in ampere? _____

What is the building size in square feet? _____

Have plans been submitted? Yes No Not required

Plans are required for all building types and shall be prepared by or under the direct supervision of an architect or engineer licensed pursuant to Act No. 299 of the Public Acts of 1980, as amended, and shall bear that architect's or engineer's signature and seal, except:

- When the electrical system rating does not exceed 400 amps.
- For work completed by a governmental subdivision or state agency costing less than \$15,000.
- For residential structures having less than 3,500 square feet of habitable space.

PLANS MUST BE SUBMITTED BEFORE A PERMIT CAN BE ISSUED

V. 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 State Electrical Code and shall **not be enclosed, covered up,** or put into operation until it has been **inspected** and **approved** by the City Electrical Inspector. I will cooperate with the City Electrical Inspector and assume the responsibility to arrange for necessary inspections.

VI. APPLICANT SIGNATURE

Section 23a of the state construction code act of 1972, 1972 P.A. 230, MCL125.1523A 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.

Signature of Licensee or Homeowner	Date	Printed Name
(Homeowner signature indicates compliance with section V, Homeowner Affidavit.)		

COMPLETE NEXT PAGE OF APPLICATION

VII. FEE CHART – Enter the number of items being installed and multiply by the unit price for total fee.

	FEE	# ITEMS	TOTAL
➡ 1. Application Fee - required (non-refundable, inspection not included)	\$ 25.00	1	\$ 25.00
2. Annual Electrical Permit (manufacturing facilities only)	\$ 100.00		\$
3. Service ≤ 200 Amp	\$ 10.00		\$
4. 200 Amp – 600 Amp Service	\$ 15.00		\$
5. 600 Amp – 800 Amp Service	\$ 20.00		\$
6. 800 Amp – 1200 Amp Service	\$ 25.00		\$
7. Over 1200 Amp Service	\$ 50.00		\$
➡ 8. Circuit	\$ 5.00		\$
9. Lighting fixtures – per 25	\$ 6.00		\$
10. Dishwasher	\$ 5.00		\$
11. Furnace – unit heater	\$ 5.00		\$
12. Electrical heating units (baseboard)	\$ 4.00		\$
13. Power outlets (range, dryer, etc.)	\$ 7.00		\$
14. Sign (unit)	\$ 10.00		\$
15. Sign (letter)	\$ 15.00		\$
16. Sign (neon) – per 25 feet	\$ 20.00		\$

	FEE	# ITEMS	TOTAL
17. Feeders, bus ducts, etc. – per 50 ft.	\$ 6.00		\$
19. Units ≤ 20 K.V.A. & H.P.	\$ 6.00		\$
20. Units 21 – 50 K.V.A. & H.P.	\$ 10.00		\$
21. Units ≥ 51 K.V.A. & H.P.	\$ 12.00		\$
22. Residential Smoke Detector	\$ 1.00		\$
23. Fire Alarms – up to 10 devices	\$ 50.00		\$
24. Fire Alarms – 11 to 20 devices	\$ 100.00		\$
25. Fire Alarms – over 20 devices	\$ 5.00 each		\$
26. Energy Retrofit – temp. control	\$ 45.00		\$
27. Conduit only or grounding only	\$ 45.00		\$
28. Special / safety inspection (includes certification fee)	\$ 45.00		\$
➡ 29. Inspection	\$ 45.00		\$ 45.00
30. Certification Fee	\$ 10.00		\$
31. Administrative Fee (required for work started before permit was issued)	\$ 100.00		\$
TOTAL FEE			\$

Description of work (REQUIRED): Please briefly describe the work being done.

**Make checks payable to
"City of Zeeland"**

IX. PERMIT STIPULATIONS

GENERAL: Electrical work shall not be started until the application for permit has been approved by the City of Zeeland. All installations shall be in conformance with the State Electrical Code. No work shall be concealed until it has been inspected. The phone number for inspection requests will be provided on the permit form. When ready for an inspection, call the Building Department 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 issuance of the permit 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 CANCELLED WHEN NO INSPECTIONS ARE REQUESTED AND CONDUCTED WITHIN SIX MONTHS OF THE DATE OF ISSUANCE OR THE DATE OF A PREVIOUS INSPECTION. CANCELLED PERMITS CANNOT BE REFUNDED OR REINSTATED.

SUBMIT APPLICATION TO: City of Zeeland Michigan
City Hall – Building Department
21 South Elm Street
Zeeland, MI 49464
Ph 616-772-0872 – Fax 616-772-0880

The City of Zeeland will not discriminate against any individual or group because of race, sex, religion, age, national origin, color, marital status, handicap or political beliefs.