



## BUILDING DEPARTMENT

100 Parkers Mill • Oswego, IL 60543 • (630) 554-2310 • Fax: (630) 554-7545  
Website: <http://www.oswegoil.org>

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### **Permanently Installed Swimming Pools**

**SWIMMING POOL** – Any Structure intended for swimming or recreational bathing that contains water over 24 inches deep. This includes, but limited to, in-ground, aboveground and on-ground swimming pools, hot tubs, and spas.

#### **PLACEMENT**

1. Swimming pools are permitted in the rear yard only. Swimming pools are not permitted to be placed in front yards, side yards, or corner side yards.
2. Swimming pools are not permitted in any easement areas.
3. Swimming pools and associated barriers shall not adversely affect the way water drains from the property in which the pool is placed as well any adverse affects to adjoining properties.
4. Any concrete associated with the pool such as a concrete deck area for an in-ground pool is not permitted in any easement area.
5. All pool types
  - 5 feet minimum from rear property line to the wall of the pool.
  - 5 feet minimum from the side property line to the wall of the pool.  
(The size of the easement areas may increase these setbacks. Refer to your properties Plat of Survey for the size of all easement areas that may affect your installation)
  - 10 feet from the primary structure to the wall of the pool.
  - (Recommended) 10 feet from any accessory structures.

#### **UTILITY WIRES**

1. Swimming pools may not be located over or under any utility wires.
2. Underground utilities shall not be located within 5 feet of the swimming pool.
3. Overhead utilities shall not be located within 10 feet horizontal of the swimming pool. Pool related equipment such as but not limited to diving platforms may increase these required clearances. Provide information on all pool related equipment being installed that may effect this requirement.



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### **BARRIERS**

1. Pools with the top of the wall less than 48 inches above the surrounding finished grade must be enclosed with an approved barrier. The minimum height of the pool barrier must be a minimum of 48 inches above the surrounding grade measured to the lowest point of the proposed barrier.
2. Pools with the top of the pool wall 48 inches or greater above the surrounding grade are not required to have a separate fence or barrier.
3. Where an approved 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, then one of the following must apply:
  - a. The ladder or steps are secured, locked, or removed to prevent access.
  - b. The ladder or steps shall be surrounded by a barrier which meets all of the listed barrier requirements.
    - When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4 inch-diameter sphere.
4. The top of the barrier shall be at least 48 inches above grade measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches measured on the side of the barrier which faces away from the swimming pool.
5. Where a barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches, the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1-3/4 inches. When the tops of horizontal members are 45 inches or more, spacing between vertical members shall not exceed 4 inches.  
Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1-3/4 inches in width.
6. Solid barriers which do not have openings, such as masonry or stone wall, shall not contain indentations or protrusions except for normal construction tolerances.
7. Barriers composed of diagonal members, such as lattice fence, the maximum opening formed by the diagonal members shall not be more than 1-3/4 inches.



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8. Pedestrian access gates shall comply with all barrier requirements, as well as meeting the following requirements:

- a. Open outward away from the pool area.
- b. Equipped to accommodate a locking device.
- c. Be self closing and self latching.

Gates other than pedestrian access gates shall be provided with a self latching device and a means to secure the gate when not in use.

9. Self latching device / access gate release:

- a. Located a minimum of 54 inches above grade on exterior side of the access gate.
- b. Located on the interior side of the access gate, installed a minimum 3 inches below the top with any openings within 18 inches of the release to be no greater than ½ inch in size.

10. Where the dwelling serves as part of the barrier one of the following conditions shall be met:

- a. The pool shall be equipped with a power safety cover in compliance with ASTM F 1346.
- b. All doors with direct access to the pool area be equipped with an alarm meeting the following:
  - Listed in accordance with UL 2017
  - Activate within 7 seconds and sound continuously for a minimum of 30 seconds after the door and/or screen are opened and capable of being heard throughout the home.
  - Capability to automatically resetting.
  - Provided with a manual means to temporarily deactivate the alarm for a single opening. Deactivation shall not last more than 15 seconds. This switch shall be located at least 54 inches above the threshold of the door. **(most home security systems will not have these capabilities)**

11. Barriers shall be located so as to prohibit permanent structures, equipment or similar objects from being used to climb them.

### **Entrapment Protection**

1. Suction outlets shall be designed to produce circulation throughout the pool or spa. Single outlet systems, such as automatic vacuum cleaner systems, or other such multiple suction outlets weather isolated by valves or otherwise, shall be protected against user entrapment.



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2. Pool and spa suction outlets shall have a cover that conforms to ANSI/ASME A112.19.8M, or an 18 inch x 23 inch drain grate or larger, or an approved channel drain system.

**Exception:** Surface skimmers

3. Single or multiple outlet circulation systems shall be equipped with an Atmospheric Vacuum Relief. This vacuum relief system shall include at least one approved or engineered method of the type specified herein, as follows:

- Safety vacuum release system conforming to ASTM A112.19.17; or
- An approved gravity drainage system.

4. Where provided, vacuum or pressure cleaner fitting(s) shall be located in an accessible position(s) at least 6 inches and not greater than 12 inches below the minimum operational water level or as an attachment to the skimmer(s).

### **Electrical**

1. The branch circuits for pool associated motors shall be installed in rigid metal conduit, intermediate metal conduit, or rigid nonmetallic conduit. EMT type conduit is only permitted within or on buildings.

2. Any wiring method employed shall contain an isolated copper equipment grounding conductor sized as follows:

<u>Overcurrent device size</u>	<u>Grounding conductor size</u>
60, 40, 30	10 AWG
20, 15	12 AWG

3. Burial depths shall be as follows:

- Minimum of 6 inches for IMC or Ridged conduit. (EMT is not permitted)
- Minimum of 18 inches for heavy wall PVC conduit. (Thin wall PVC is not permitted)

4. Receptacles that provide power for water-pump motors or for loads directly related to the circulation and sanitation system shall be located at least 10 feet from the inside walls of the pool, or not less than 5 feet from the inside walls of the pool if they meet all of the following conditions:

- Consist of a single receptacle
- Employ a locking configuration (twist lock type receptacle)
- Are of the grounding type
- Have GFCI protection

5. No less than one 125 volt, 15 or 20 ampere GFCI protected receptacle on a general purpose branch circuit shall be located not less than 10 feet from, and not more than 20 feet from the pool wall. This outlet shall be located no greater than 6 feet 6 inches above the grade level serving the pool.



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6. A means for disconnecting electrical power to all pool equipment shall be provide for routine maintenance. This disconnect shall be located within sight of the pool equipment.

### **Equipotential Bonding**

1. An 8 AWG solid copper conductor shall be installed to reduce voltage gradients in the pool area extending 5 foot horizontal from the pool wall and 12 feet vertically. This bonding lead shall be provided for the following:

- a. Metallic Structural Components – All metallic parts of the pool structure.
- b. Under Water lighting – Those systems employing metal components.
- c. Metal fittings – All metal fittings within or attached to the metal pool structure.
- d. Electrical equipment – Metal parts of electrical equipment associated with the pool water circulation system, including pump motors and metal parts of equipment associated with pool covers, including electric motors. **(This would include filtration systems as well as heaters located in a remote location on the property)**
  - Where a double insulated pump has been installed a bonding lead shall not be installed, however a lead of sufficient length shall be provided in the vicinity of the circulation motor for future use if required.

2. Connections shall be made by exothermic welding or by listed pressure connectors or clamps that are labeled as being suitable for the purpose and are of stainless steel, brass, copper, or copper alloy.

### **Energy Conservation**

1. Pool Heaters – Shall be provided with an on-off switch to allow shutting off the heater without adjusting the thermostat setting. Pool heaters fired by natural gas shall not have continuously burning pilot lights.

2. Time Switches – Provide timer that can automatically turn off and on heaters and pumps according to a preset schedule.

3. Pool Covers – Heated pools shall be equipped with a vapor-retardant pool cover installed at the pool water surface. Pools heated to 90 degrees shall have a pool cover with a minimum insulation of R-12.



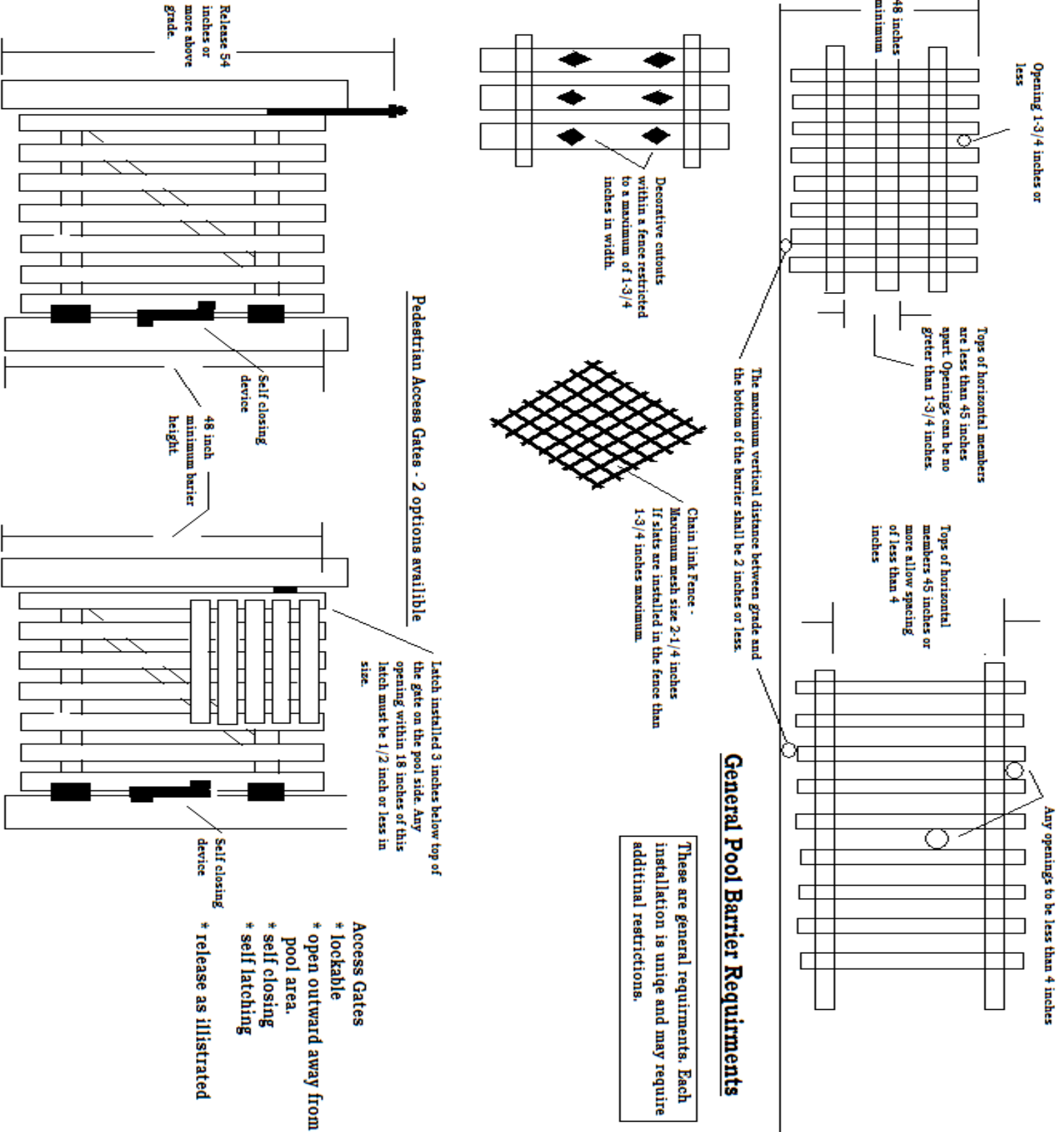
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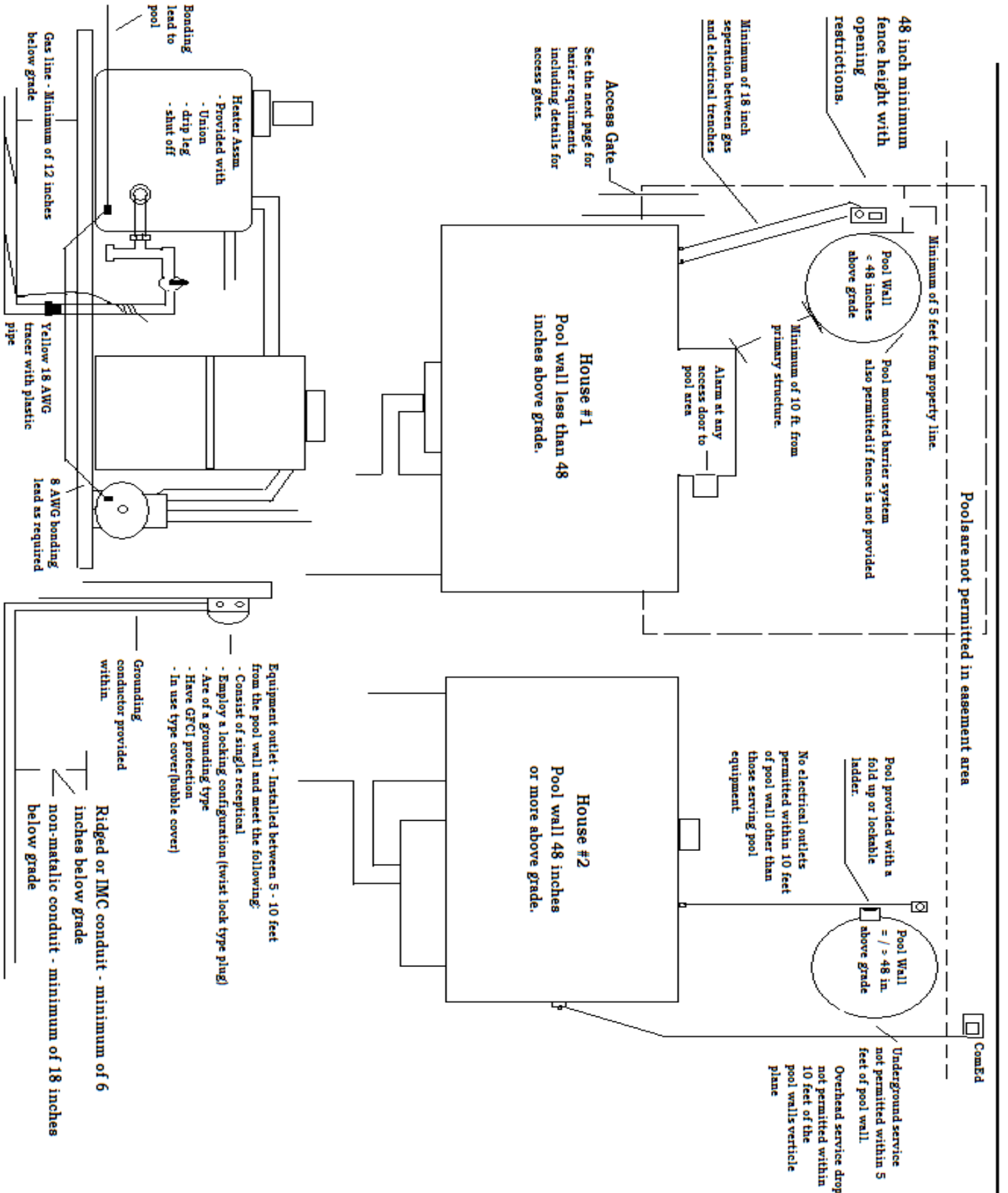
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### **Pool Heaters**

1. The gas line for the heater shall be protected against physical damage where it enters and exits the ground. The gas line shall be buried a minimum of 12 inches below grade. A yellow tracer wire shall be installed adjacent to underground nonmetallic piping. Access shall be provided to the tracer wire or the tracer wire shall terminate above ground at each end of the nonmetallic piping. The tracer wire shall not be less than 18 AWG and the insulation type shall be suitable for direct burial. The trench shall be inspected before burial of gas line.
2. The heater shall be installed on a non-combustible base.
3. The heater shall be installed at least 5 feet away from the inside wall of the pool.
4. The heater shall not be installed in a location where the heater's combustion air and venting shall be obstructed.
5. A main gas shut-off valve must be installed on the outside of the unit, within 6 feet of the heater and readily accessible.
6. A union shall be provided on the downstream side of the main shut-off valve for maintenance or replacement.
7. A sediment trap shall be installed in the main gas line as close to the downstream side of the shut-off valve as possible. The sediment trap shall be a minimum of 3 inches in length and readily accessible.
8. Flexible appliance connectors shall not be used unless the connector is rated and approved for outdoor installation and for the type of fuel to be used. The connector shall be protected against physical damage.
9. The plumbing system and connections shall comply with the manufacturer specifications.
10. Buried gas and buried electric shall be separated by a minimum of 18 inches.
11. All electric to the heater shall be in accordance with the 2005 edition of the National Electric Code and the listed manufacturer specifications.
12. The heater shall not be installed under a deck or stairs.
13. If enclosed in an approved structure, proper venting of the unit and sufficient combustion air shall be provided in compliance with all applicable codes.







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PERMANENT SWIMMING POOL INSTALLATION DETAILS

1. Indicate the type of swimming pool to be installed:

Above-Ground In-ground Above-ground partially buried

2. What will serve as the required barrier?

Existing Fence New Fence Pool wall with secured or removable ladder Other If other, provide details

When a fence is placed at the property line and extends to the home rather than encompassing the pool the house is considered part of the barrier and will require the installation of an alarm at all doors with access to the pool area.

3. What is the proposed height of the barrier? Inches This measurement shall be from grade to the lowest point on the barrier that faces away from the swimming pool.

4. Will a new underground electrical branch circuit be installed to provide power to the swimming pool equipment? Yes No

5. Indicate the type of GFCI protection that will be provided for the swimming pool equipment. Circuit Breaker Device Located at Equipment

6. What is the proposed location of the electrical timer for the pool equipment to be installed? Interior Near Electrical Panel Exterior of the Home A locking device is recommended were accessible to small children.

7. What type of suction inlet will be provide (water returning to the filtration system) Skimmer Only Floor Drain and Skimmer Floor Drains

8. Will a heater be installed for the pool? Yes No If yes, will a new gas line to the equipment be installed? Yes No If no, Please explain

9. Will a deck be provided to serve the swimming pool? Yes No Deck type New Wood Construction Existing Wood Construction Metal Sold as Part of the Pool Package Other

10. Will a diving board be installed? Yes No



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**DATE:** \_\_\_\_\_

**PERMANENT SWIMMING POOL PERMIT CHECKLIST FOR** \_\_\_\_\_  
(Address)

**All Items listed must be completed and all documentation must be submitted at the time of permit application. Application submittals not complete will not be accepted for processing.**

- Name, Address, Phone Number Complete on Permit Application**
- Permit Application Signed and Dated**
- Project Cost – Including Labor (if applicable)**
- Contractor Information (if applicable)**
- Plat of Survey Showing the Location of the Swimming Pool with all Distances from the Swimming Pool to the Lot Lines and the Distance from the Swimming Pool to the Primary Structure**
- Location of all Utilities on Plat of Survey**
- Location of all Easements on Plat of Survey**
- Type of Swimming Pool – In-Ground, Above Ground, Etc**
- Dimensions of Swimming Pool**
- Location of all Existing and Proposed Electric**
- Information on Required Barrier Compliance (Fence Around Swimming Pool, Wall of Swimming Pool, or Wall of Swimming Pool with Railing, Etc)**
- Swimming Pool Plans with Application**
- Manufacturer Specifications on Swimming Pool Pumps and Filters**
- Swimming Pool Requirement Work Sheet Filled Out with Application**
- Manufacturer Specifications on Swimming Pool Heater (if applicable)**
- Location of Swimming Pool Heater (if applicable)**
- Homeowner has Contacted Their Homeowner’s Association**

**The Village of Oswego has no authority to enforce the covenants or adopted rules of Homeowner’s Association.**



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Building Permit Application for Existing and Accessory Structures

Permit No. \_\_\_\_\_

CUSTOMER DATA

Name of Owner: \_\_\_\_\_
Property Address: \_\_\_\_\_
Daytime Phone #: \_\_\_\_\_ Cell #: \_\_\_\_\_
Subdivision: \_\_\_\_\_

CONTRACTOR DATA

Name of Contractor: \_\_\_\_\_
Address of Contractor: \_\_\_\_\_
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_
Daytime Phone #: \_\_\_\_\_ Cell #: \_\_\_\_\_

PROPOSED PROJECT DATA

TOTAL OVERALL COST: \$ \_\_\_\_\_

DESCRIPTION OF WORK:

Existing Structure:

- (5) Remodel / (10) Demolition / (9) Re-roof/Siding
(4) Addition / (11) Plumbing work / (11) Electrical work
(11) Radon Mitigation / (4) Garage/attached (3) Garage/detached

Accessory:

- (3) Fence wood chain link other -
new replacement / height 3' 4' 5' 6'
(3) Patio size X / concrete pavers
(3) Deck / (3) Pergola / (3) Service Walk / concrete pavers
(3) Driveway asphalt concrete
(3) Shed size X / pre-built built on site
(3) Swimming Pool above ground in ground
(11) Other - describe
(19) Temporary Pool
(21) Lawn Irrigation

CERTIFICATION

The applicant agrees to conform to all applicable laws of this jurisdiction. I also agree that all work performed under this permit will be in accordance with the plans and specifications which accompany this application., except for such changes as may be required by the inspection officials.

I HEREBY CERTIFY THE ABOVE STATEMENTS TO BE CORRECT

Signed: \_\_\_\_\_
Signature of Owner or Owner's Agent

DATE

PERMIT APPROVED BY:

Building Inspector \_\_\_\_\_ Date \_\_\_\_\_