Power lines: Overhead, underground, and transmission lines may impact your ability to build a pool or any other structure on your property. You must obtain approval from your utility company that may be impacted by the installation of your swimming pool, hot tub, pond or spa. Although there may be other utilities impacted that are not listed, City of Anoka, Connexus Energy, Xcel Energy and Great River Energy are the main entities that will need to provide initial approval prior to submitting a building application to the City of Coon Rapids. Great River Energy owns the high tension power lines.

PERMITS

- Less than 24 inches deep and 5,000 gallons: an Exterior Site Work Permit is required.
- A Building Permit is required for above-ground pools, in-ground pools, ponds, hot tubs and spas (except where noted above),
- A Mechanical Permit is required for installation of a heater for any pools, ponds, hot tubs, or spas.
- An Electrical Permit is required for all pools, ponds, hot tubs, spas

SUBMISSION REQUIREMENTS

- A completed Permit Applications (see above).
- A site plan and two sets of plans drawn to scale with dimension of the following information:
  1. Approval confirmation and site specific location from all impacted utilities including required setbacks from property lines and the utilities on the property. (It is the homeowner’s responsibility to contact all impacted utilities.)
  2. Mark all above and below ground utilities, including gas, electric, sewer, water, phone, etc.
  3. Mark all property lines including property corners.
  4. Proposed location of pool, hot tub, pond, or spa, including length, depth and width of the pool, hot tub, pond, or spa and any decking and showing distance of the pool, hot tub, pond, or spa to the property lines.
  5. The house, garage, driveway, and other permanent structures and distance of each to the property lines.
- Detailed drawing of fence design, gate design, and latching mechanisms.
- A copy manufacturer’s specifications on operation and maintenance.
- Source and location of water supply.
- Temporary or inflatable pools greater than 24 inches in depth and more than 5,000 gallons: A fence will be required and will need to follow the regulations stated in the fence section.

INSPECTIONS

Inspections are required. Please call 763-767-6476 to schedule an inspection. (See page 6 for additional inspection information.)

- A site inspection is required after location of pool or pond is determined but before pool or pond is in place. Lot irons must be visible at time of site inspection.
- Footings for pools, decks, and fences.
- Concrete forms, gas line air test for pool heater, heating and plumbing. Electrical inspection on all new or associated electrical work.
- Final inspection for code compliance upon completion.

*If at any time changes or alterations are made to the approved, stamped plans, a supplementary plan covering the work involved shall be submitted for approval and must conform to all requirements.
R403.9 Pools and in-ground permanently installed spas (Mandatory).

Pools and in-ground permanently installed spas shall comply with Sections R403.9.1 through R403.9.3.

R403.9.1 Heaters. All heaters shall be equipped with a readily accessible on-off switch that is mounted outside of the heater to allow shutting off the heater without adjusting the thermostat setting. Gas-fired heaters shall not be equipped with constant burning pilot lights.

R403.9.2 Time switches. Time switches or other control method 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. Where pumps are required to operate solar- and waste-heat-recovery pool heating systems.

R403.9.3 Covers. Heated pools and in-ground permanently installed spas shall be provided with a vapor-retardant cover.

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

SECTION AG106 – ENTRAPMENT PROTECTION FOR SWIMMING POOL AND SPA SUCTION OUTLETS

AG106.1 General. Suction outlets shall be designed and installed in accordance with ANSI/APSP-7.


E4203.6 Overhead conductor clearances. Except where installed with the clearances specified in Table E4203.6, the following parts of pools and outdoor spas and hot tubs shall not be placed under existing service-drop conductors, overhead service conductor, or any other open overhead wiring; nor shall such wiring be installed above the following:

1. Pools and the areas extending not less than 10 feet, (3048 mm) horizontally from the inside of the walls of the pool.
2. Diving structures and the areas extending not less than 10 feet (3048 mm) horizontally from the outer edge of such structures.
3. Observation stands, towers, and platforms and the areas extending not less than 10 feet (3048 mm) horizontally from the outer edge of such structures.

Table E4203.3

<table>
<thead>
<tr>
<th>Voltage to ground</th>
<th>0-15 kV</th>
<th>Greater than 15 to 50 kV</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Clearance in any direction to the water level, edge of water surface, base of diving platform, or permanently anchored raft</td>
<td>22.5</td>
<td>25</td>
</tr>
<tr>
<td>B. Clearance in any direction to the diving platform</td>
<td>14.5</td>
<td>17</td>
</tr>
</tbody>
</table>
SETBACKS

City Code Section 12-510 – Location.

No portion of a pool, pool deck, or pool appurtenance shall be located in front of the building line. In addition, the following setbacks shall apply.

Water Line:
- Front Property Line (Landscape Ponds): 20 Feet
- Interior side or interior rear property line: 10 Feet
- Street side or street rear property line: 20 Feet

Mechanical Equipment:
- Front Property Line (Landscape Ponds): 20 Feet
- Interior side or interior rear property line: 10 Feet
- Street side property line: 20 Feet

Appurtenances other than mechanical equipment of pool decks:
- Front Property Line (Landscape Ponds): 20 Feet
- Interior side or interior rear property line: 5 Feet
- Street property line: 20 Feet

Pool Deck (In Ground Pool):
- Any side or rear property line: 5 Feet

Pool Deck (Above Ground Pool):
- Interior side property line: 5 Feet
- Street side property line: 20 Feet
- Rear Property line (attached to residence): 20 Feet
- Rear Property line (not attached to residence): 5 Feet

Fence/Barrier

Requirements for fences/barriers associated with pools, spas, and hot tubs are more specific than simply installing a four (4) foot fence.
All swimming pools, spas, and hot tubs with a depth of 24” or greater must be surrounded by a non-climbable barrier or fence with a self-closing and self-latching gate.

- Barriers, fences and gates must be at least four (4) feet high.
- In-ground pools: the barrier must be at least four (4) feet from the waterline.
- Above ground pools, spas, or hot tubs: with sides or attached fences which reach four (4) feet in height, do not require an additional fence. Where the above ground pool structure is used as the barrier, the access ladder or steps shall be capable of being secured, locked, removed, or otherwise protected to prevent access.

- If an above ground pool had a barrier on the top of the pool, the maximum vertical clearance between the top of the pool and the bottom of the barrier shall not exceed four (4) inches.
- The distance between the bottom of the fence (or barrier) and grade beneath it shall not exceed 2” (two inches).
- Openings in the barrier (i.e.: spaces between fence pickets, railing balusters, etc.) shall not allow passage of a four (4) inch sphere.

A successful pool barrier prevents a child from getting OVER, UNDER, or THROUGH and keeps the child from gaining access to the pool except when supervising adults are present.
• **Spacing of vertical members** of fence depends upon the spacing of the horizontal members. Where spacing from the top of the bottom horizontal member to the top of the next horizontal member is less than forty five (45) inches, spacing of vertical members shall not exceed one and three quarters (1.75) inches.

![Spacing Diagram](image)

• **For chain link** fences or **lattice work fences**, the following pictures apply:

![Chain Link Diagram](image)

• **Gates** shall open outward away from the pool, shall be **self-closing**, and shall have a **self-latching device**. Where the release mechanism of the latching device is located less than fifty four (54) inches from the bottom of the gate, the release mechanism shall be located on the pool side of the gate at least three (3) inches below the top of the gate, and the gate and barrier shall have no opening greater than one half (1/2) inch within eighteen (18) inches of the release mechanism.

![Gate Diagram](image)
Doors with direct access to the pool shall also be self-latching, secured, protected, or alarmed, or the pool shall have a power safety cover.

WHAT ITEMS WILL BE INSPECTED?

Fences and Barriers – Designed to keep a child from gaining access to the pool unless supervised by an adult.

Structural Design – the structure shall be engineered and designed to withstand the expected forces to which it will be subjected.

Overflow and Surface Drainage – designed so no splash or overflow water, surface or roof drainage will return or enter the pool

Finish – the sides and floor of the pool shall be cleanable white or light colored and skid resistance.

Handhold – is required and shall not be more than nine (9) inches above the water line on all sides of the pool.

Decking – Unobstructed deck areas of not less than 48 inches wide shall be provided to extend entirely around the pool. The deck shall be sloped away from the pool to drain at a grade of ¼ inch to 3/8 inch per lineal foot. The deck shall be constructed of materials that are non-toxic, impervious, permanent, and enduring. Deck drains must have pipelines at least two (2) inches in diameter; drain opening must be at least four times the cross-sectional area of the drain pipe and shall not be connected to the re-circulation system piping. Above ground pools are not required to have decking.

Piping – all piping for pools, spas, and hot tubs shall be constructed in accordance with the Minnesota State Plumbing Code and inspected by the City.

Water Supply – There shall be no physical connection between the water supply line and the pool system. A fill spout shall be at least six (6) inches above the upper rim of the pool. If the make-up water goes through a balancing or surge tank, the point of surcharge shall be at least (6) inches above the rim of the tank. An approved vacuum breaker shall be installed between the sillcock or control valve at the fixture and the hose connection if a plumbing fixture is used to fill the pool. The sillcock must be installed above ground level. No over-the-rim spout will be acceptable unless located under a diving board.

Drainage – main outlets shall be at least 20 feet apart and at least 10 feet from the walls. One drain must be located in the deepest end of the pool and all outlets must be equipped with grating having an area of opening not less than four (4)
times the cross-sectional area of the outlet pipe. Gratings cannot be readily removable by bathers. Discharge of water to the sanitary sewer is acceptable, however, the outlet for the pools shall end at least six (6) inches above the connection to the sewer.

*Drainage systems must be constructed and supervised by a licensed plumber. Swimming pools, spas, or hot tub drainage cannot be drained onto or across neighboring properties.

Heaters – pool heaters and boilers shall be listed for this type of use. Mechanical permits and inspections are required.

Electrical – all electrical installations shall conform to the State Electrical Code. No final inspection will be scheduled until the electrical permit has been issued and the inspection has been completed and approved by the Inspector.

Lighting – all lighting effecting an outdoor pool, spa, or hot tub shall be arranged and shaded to reflect light away from neighboring properties.

Chemical Treatment – gaseous chlorinated systems shall not be used as a disinfecting method for pools, spas, or hot tubs

*All pools, hot tubs, ponds, and spas shall be operated and maintained in such a manner as to not be a nuisance or dangerous to life or detrimental to health. (City Code Section 12-511)

*The Chief Building Official has authority to inspect any pool at any reasonable time during the construction and thereafter to determine whether or not the provisions of the code are being met in regards to health, sanitation, operation, and safety. (City Code Section 12-512)

* Other Design and Equipment. Any landscape pond, the design and equipment of which incorporate features other than those set forth herein, shall be subject to review and approval by and in conformance with current public health and safety practices.
EXAMPLE SITE PLAN

SHOW ON PLAN
1. LOT LINES.
2. LOT DIMENSIONS.
3. OWNERS NAME.
4. ADDRESS.
5. DRIVEWAY.
6. POND/LAKE/STREAM.
7. EASEMENTS.
8. POWER SUPPLY.
9. DIMENSIONS TO PROPOSED PROJECT AND ALL OTHER STRUCTURES.
10. SIZE OF NEW STRUCTURE.
11. DIMENSIONS TO LOT LINES.
12. DIMENSIONS TO OTHER BLDGS.
13. INCLUDE YARD SETBACKS AND EASEMENTS ON SIDE, FRONT, AND BACK YARDS.
14. LABEL ALL ADJACENT STREETS.
15. INCLUDE SCALE.

NOTE: PLEASE PROVIDE (2) COPIES OF THE PROPOSED SITE PLAN.

IF A COMPLETED SITE PLAN IS NOT PROVIDED, THE PLAN REVIEW PROCESS WILL BE DELAYED.

Jack & Jill Smith
3505-89th Ave. NW.

1"=20' SCALE

USE CERTIFICATE OF SURVEY
CONTACT BUILDING DEPARTMENT

GOFFER STATE 1 CALL FOR UTILITY LOCATIONS
651-454-0002 OR 811