



TOWN OF WETHERSFIELD BUILDING DEPARTMENT

Pool Permit Guideline

The Town of Wethersfield assumes no responsibility for any errors, omissions. Installer is required to follow all applicable codes. No handout could possibly cover all situations, nor is it intended to do so.

<i>Residential Aboveground Pool Application Requirements</i>	<i>Required Inspections</i>
<p>We need the following to be identified and locations shown on the plot plan: Swimming pool and pool equipment (pump, outlets etc.) Fencing and gates (might be required if the pool doesn't meet barrier requirements)</p> <ul style="list-style-type: none"> ➤ In-ground pools shall be designed and constructed in compliance with the following 2018 Connecticut adopted codes and amendments: ❖ 2015 ICC International Residential Code; <ul style="list-style-type: none"> • Chapter 3 section R326 • Chapter 42 ❖ ANS/NSPI-4 <p>If the owner elects to install a pool heater, they will need to provide addition information. Other codes will apply.</p> <ul style="list-style-type: none"> ➤ The following information required: Door alarm, pool alarm and ladder ➤ Provide pool manufacture's information and engineered stamped design <p>The following permits are required.</p> <ul style="list-style-type: none"> ✓ Building ✓ Electrical ✓ Mechanical (only if pool heater is installed) <p><u>If a new deck is to be built, please include the design drawings, dimensions and locations on plot pans.</u></p>	<p><i>The following is just a list of inspections. Sometimes more inspections will be required at the discretion of the Building Official.</i></p> <ul style="list-style-type: none"> ✓ Building: <ul style="list-style-type: none"> • Pool frame • Rebar and gridding • Rough • Final ✓ Electrical: <ul style="list-style-type: none"> • Trench • Bonding • Rough • Final ✓ Mechanical: <ul style="list-style-type: none"> • Trench • Pressure test • Rough • Final <p>A new C of O will be issued for the pool when the following is met:</p> <ul style="list-style-type: none"> ✓ Pool to be 100 % complete ✓ Fencing (if required) ✓ All life safety in place including alarms ✓ All final inspections from all department's

Exempt Pools that are premanufactured and under 24 inches in depth

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REV 3/05/2019

Town of Wethersfield
Engineering Division
505 Silas Deane Highway, Wethersfield, CT 06109
Phone: 860-721-2850 Fax: 860-721-2843

Minimum Plot Plan Requirements for In-Ground Pools

In addition to plans required by the Building Department, all Building Permit applications for new in-ground pools must include two (2) copies of a plot plan on a 24"x36" sheet at a scale of 1"=20' (1"=40' maximum) showing existing conditions and proposed improvements. Plot plans shall be prepared, signed and sealed by a land surveyor licensed in the State of Connecticut and show existing conditions to Class A-2 and T-2 standards of accuracy for property boundaries and topography in the vicinity of the proposed improvements, respectively. Plans shall be developed in accordance with the Regulation for Connecticut State Agencies, Section 20-300b, and the "Standards for Surveys and Maps in the State of Connecticut", as adopted by the CT Association of Land Surveyors on September 26, 1996 (as amended). The horizontal datum shall be based on NAD 83 and the vertical datum shall be based on NAVD 88 utilizing the Geoid 96 model.

At a minimum, plot plans shall include the following information:

1. Title block containing:
 - Plan title and date (incl. revision dates)
 - Property address, lot number and subdivision name (if applicable)
 - Owner's name
 - Name of Survey and/or Engineering Consultant
2. Seal and signature of land surveyor (and professional engineer, if applicable) responsible for preparation of the plan
3. Limits of inland wetlands and/or FEMA 100-year flood zone derived from base flood elevations (BFEs) shown on the FEMA Flood Profiles. If no wetlands are located within 50' of the property and no flood zone exists, then add appropriate notes.
4. All property boundary dimensions and bearings
5. Front, side and rear building setback lines with associated labels
6. Proposed or existing easements on or abutting the property with all dimensions, bearings, angles and associated volume and page labels from the Town Land Records
7. Limits of existing house, and existing and proposed accessory structures with perimeter dimensions
8. Location and type of existing and proposed fence on the property
9. Existing and proposed topography at 2' foot maximum intervals in the vicinity of proposed improvements and a minimum of 50' in all directions
10. Existing and proposed retaining walls with top and bottom of wall elevations (if applicable)
11. Proposed elevations of top and bottom of pool and surrounding ground surface
12. Location, size and type of existing and proposed subsurface drainage
13. Existing tree lines and maximum limits of proposed clearing
14. Proposed erosion and sedimentation control measures such as silt fence, haybales, construction entrances and all associated details
15. Proposed soil stockpile area surrounded by erosion controls
16. Coordinates for a minimum of two (2) monuments or iron pins shown on the plan
17. Project benchmark
18. Complete Legend, north arrow and all map references (as applicable)

Notes:

- *These are minimum submission requirements; the Town reserves the right to require additional information as deemed necessary to conduct a complete review of the application.*
- *If the property has an existing septic system and/or potable well, contact the Central Connecticut Health District at 860-721-2822 for specific requirements.*
- *Any questions regarding plot plan requirements should be directed to the Engineering Division at 860-721-2850 or the Building Department at 860-721-2839.*



TOWN OF WETHERSFIELD BUILDING DEPARTMENT

Pool Permit Guideline

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<i>Residential in-ground Pool Application Requirements</i>	<i>Required Inspections</i>
<p>We need the following to be identified and locations shown on the plot plan: Swimming pool and pool equipment (pump, outlets, heater etc.) Fencing and gates</p> <p><u><i>Engineering department has its own set of requirements for plot plans. Please follow their handout.</i></u></p> <ul style="list-style-type: none"> ➤ In-ground pools shall be designed and constructed in compliance with the following 2018 Connecticut adopted codes and amendments: <ul style="list-style-type: none"> ❖ 2015 ICC International Residential Code; <ul style="list-style-type: none"> • Chapter 3 section R326 • Chapter 42 ❖ ANSI/NSPI-5 <p>If the owner elects to install a pool heater, they will need to provide addition information. Other codes will apply.</p> <ul style="list-style-type: none"> ➤ The following information required: Door alarm , pool alarm, Fencing and gate ➤ Provide pool manufacture's information and engineered stamped design <p>The following permits are required.</p> <ul style="list-style-type: none"> ➤ Building ➤ Electrical ➤ Mechanical (only if pool heater is installed) 	<p><i>The following is just a list of inspections. Sometimes more inspections will be required at the discretion of the Building Official.</i></p> <ul style="list-style-type: none"> ➤ Building: <ul style="list-style-type: none"> • Temporary fencing • Pool frame • Rebar and gridding • Rough • Final ➤ Electrical: <ul style="list-style-type: none"> • Trench • Bonding • Rough • Final ➤ Mechanical: <ul style="list-style-type: none"> • Trench • Pressure test • Rough • Final <p>A new C of O will be issued for the pool when the following is met:</p> <ul style="list-style-type: none"> ✓ <i>Pool to be 100 % complete</i> ✓ <i>Fencing</i> ✓ <i>All life safety in place including alarms</i> ✓ <i>All final inspections from all department's</i>

Exempt Pools that are premanufactured and under 24 inches in depth

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Text and
Illustrations

Swimming Pools

The drawings contained in this brochure pertain to Chapter 3 section R326 and 42 of the 2015 International Residential Code along with a portion of the 2018 Amendment to the State Building Code. These drawings are for illustration purposes only. The written code text shall apply.

Guidelines for Residential Swimming Pools, Spas and Hot Tubs

- ❖ The following is an excerpt from 2015 ICC International Residential Code;
 - Chapter 3 section R326 and Chapter 42 of the current State Building Code and amendments.

Application. The provisions of this code shall control the design of barriers for residential swimming pools, spas and hot tubs. These design controls are intended to provide protection against potential drownings and near-drownings by restricting access to swimming pools, spas and hot tubs.

(Add) R326.6 Barrier requirements. The provisions of this section shall control the design of barriers for residential swimming pools, spas and hot tubs. These design controls are intended to provide protection against potential drownings and near-drownings by restricting access to swimming pools, spas and hot tubs.

(Add) R326.6.1 Outdoor swimming pool. An outdoor swimming pool, including an in-ground, above-ground or on-ground pool, hot tub or spa, shall be surrounded by a barrier which shall comply with the following:

1. The top of the barrier shall be at least 48 inches (1219 mm) 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 (51 mm) measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above grade, such as an above-ground pool, the barrier may be at ground level, such as the pool structure, or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102 mm).
2. Openings in the barrier shall not allow the passage of a 4-inch-diameter (102 mm) sphere.
3. Solid barriers which do not have openings, such as a masonry or stone wall, shall not contain indentations or protrusions, except for normal construction tolerances and tooled masonry joints.
4. 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 swimming pool side of the fence. Spacing between vertical members shall not exceed 1¾-inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1 ¾ inches (44 mm) in width.
5. 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 1¾-inches (44 mm) in width.
6. Maximum mesh size for chain link fences shall be a 2 ¼-inch (57 mm) square, unless the fence has slats fastened at the top or the bottom which reduce the openings to not more than 1¾-inches (44 mm).
7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than 1 ¾ inches (44 mm).
8. Access gates shall comply with the requirements of Items 1 through 7, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool, and shall be self-closing and have a self-latching device. Gates, other than pedestrian access gates, shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the gate, the release mechanism and openings shall comply with the following:
 - 8.1 The release mechanism shall be located on the pool side of the gate at least 3 inches (76 mm) below the top of the gate; and

8.2 The gate and barrier shall have no opening larger than 1/2 inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.

9. Where a wall of a dwelling serves as part of the barrier, one of the following conditions shall be met:

9.1 The pool shall be equipped with a powered safety cover in compliance with ASTM F1346;

9.2 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/or its screen, if present, are opened. The alarm shall be listed and labeled in accordance with UL 2017. The deactivation switch(es) shall be located at least 54 inches (1372 mm) above the threshold of the door; or

9.3 Other means of protection, such as self-closing doors with self-latching devices, which are approved by the governing body, shall be acceptable as long as the degree of protection afforded is not less than the protection afforded by Item 9.1 or 9.2 described herein.

10. Where an above-ground or on-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 surrounded by a barrier that meets the requirements of Section AG105.2, Items 1 to 9, inclusive.

(Add) R326.6.2 Indoor swimming pool. Walls surrounding an indoor swimming pool shall comply with Item 9 of Section R326.6.1.

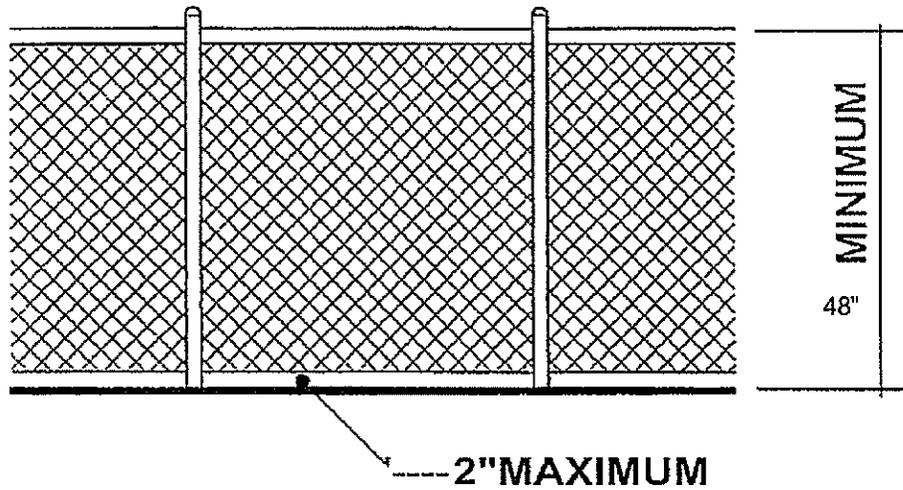
(Add) R326.6.3 Barrier perimeter clearance. The required barrier height shall exist around the entire perimeter of the barrier and for a distance of 3 feet (914 mm) measured horizontally from the outside of the required barrier, free of structures, equipment or similar objects.

(Add) R326.6.4 Barrier exceptions. Spas or hot tubs with a safety cover which comply with ASTM F1346 shall be exempt from the provisions of this appendix.

(Add) R326.6.5 Temporary enclosure. A temporary enclosure shall be installed prior to the electrical bonding inspection of any in-ground swimming pool unless the permanent barrier specified in Section R326.6.1 is in place prior to the commencement of the installation. The temporary enclosure shall be a minimum of 4 feet (1219) in height, shall have no openings that will allow passage of a 4-inch sphere and shall be equipped with a positive latching device on any openings.

(Add) R326.6.6 Pool alarm. Pursuant to section 29-265a of the Connecticut General Statutes, no building permit shall be issued for the construction or substantial alteration of a swimming pool at a residence occupied by, or being built for, one or more families unless a pool alarm is installed with the swimming pool. As used in this section, "pool alarm" means a device that emits a sound of at least 50 decibels when a person or an object weighing 15 pounds or more enters the water in a swimming pool.

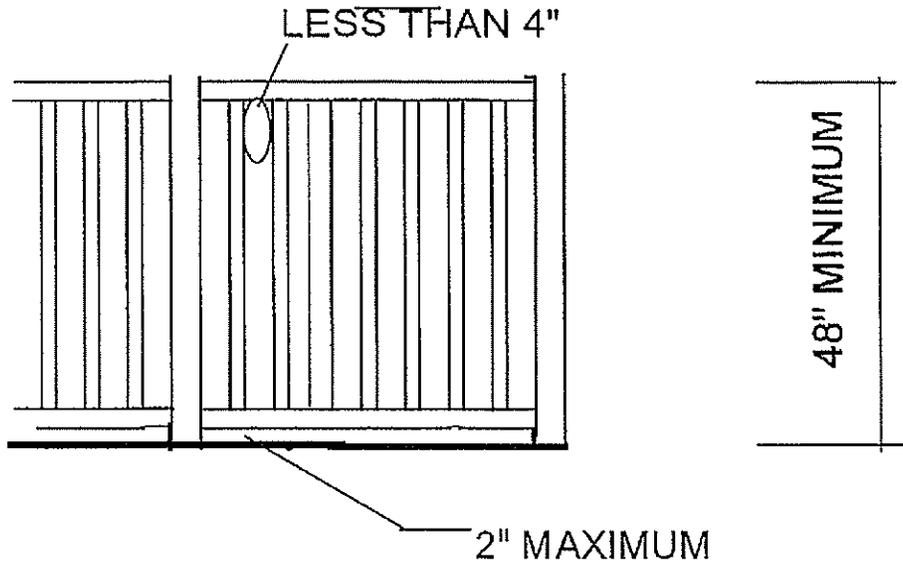
Exception: Hot tubs and portable spas shall be exempt from this requirement.



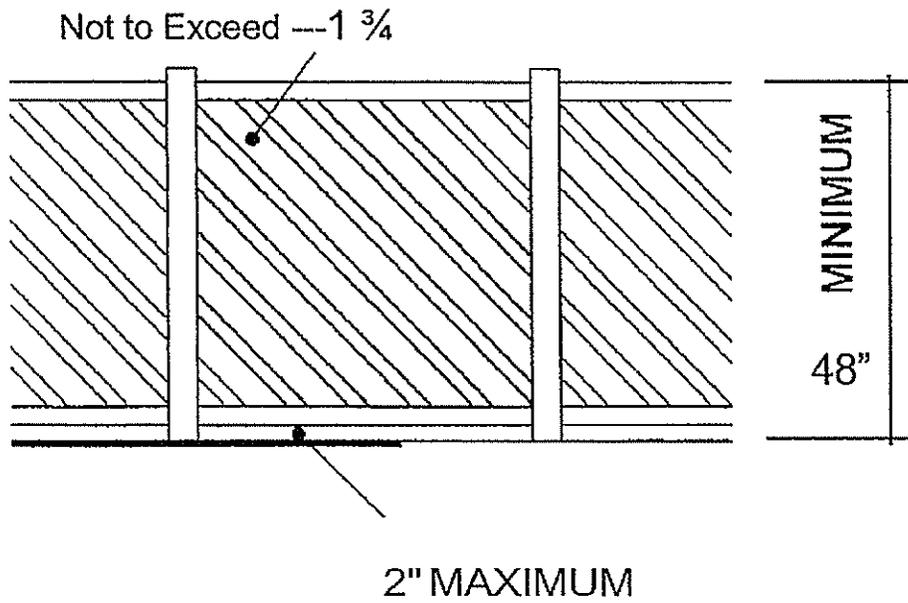
ELEVATION

OUTSIDE OF THE POOL ENCLOSURE

SECTION R326.6.1, ITEM 1

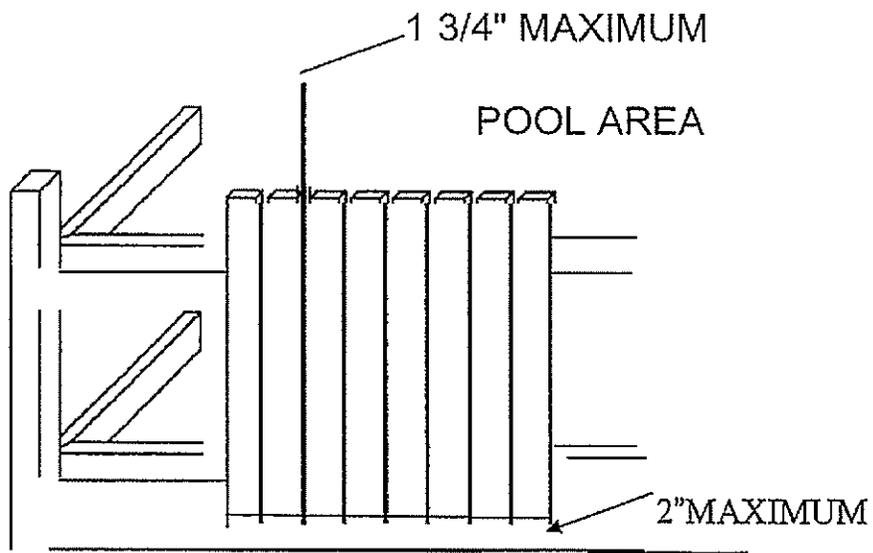
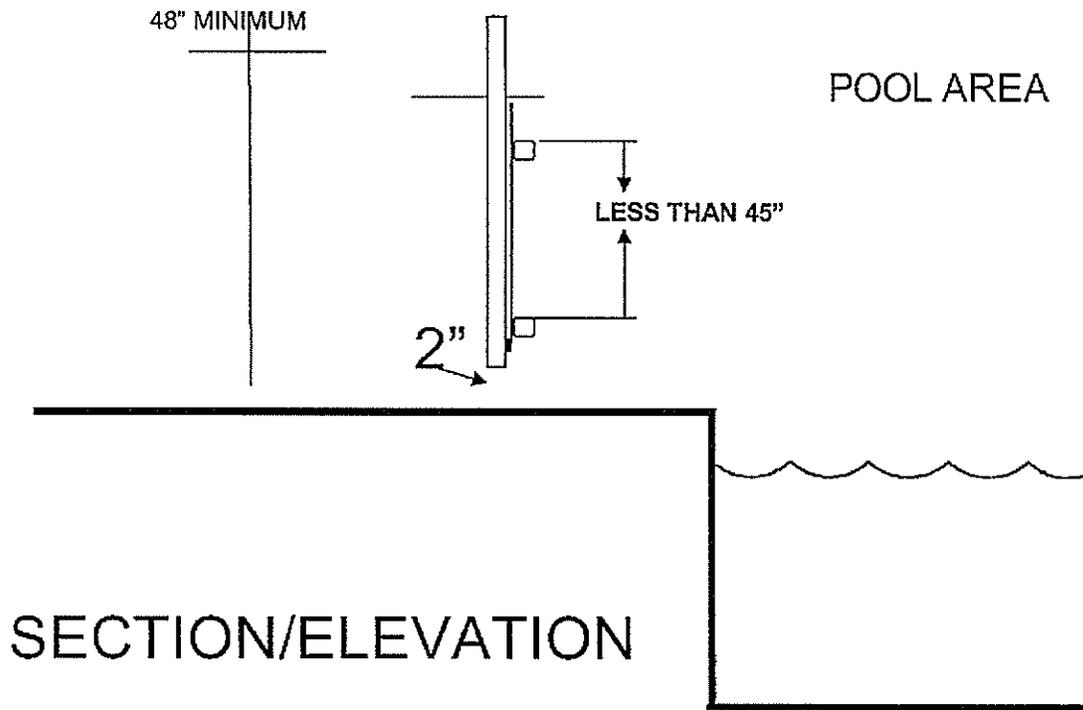


ELEVATION

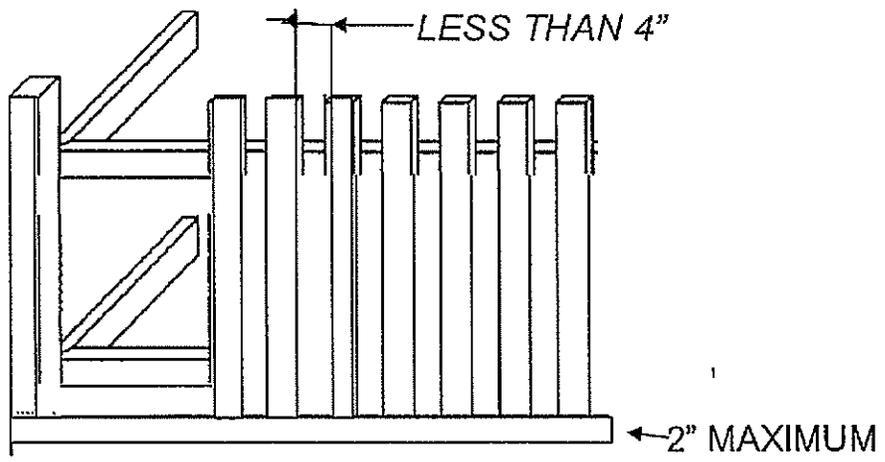
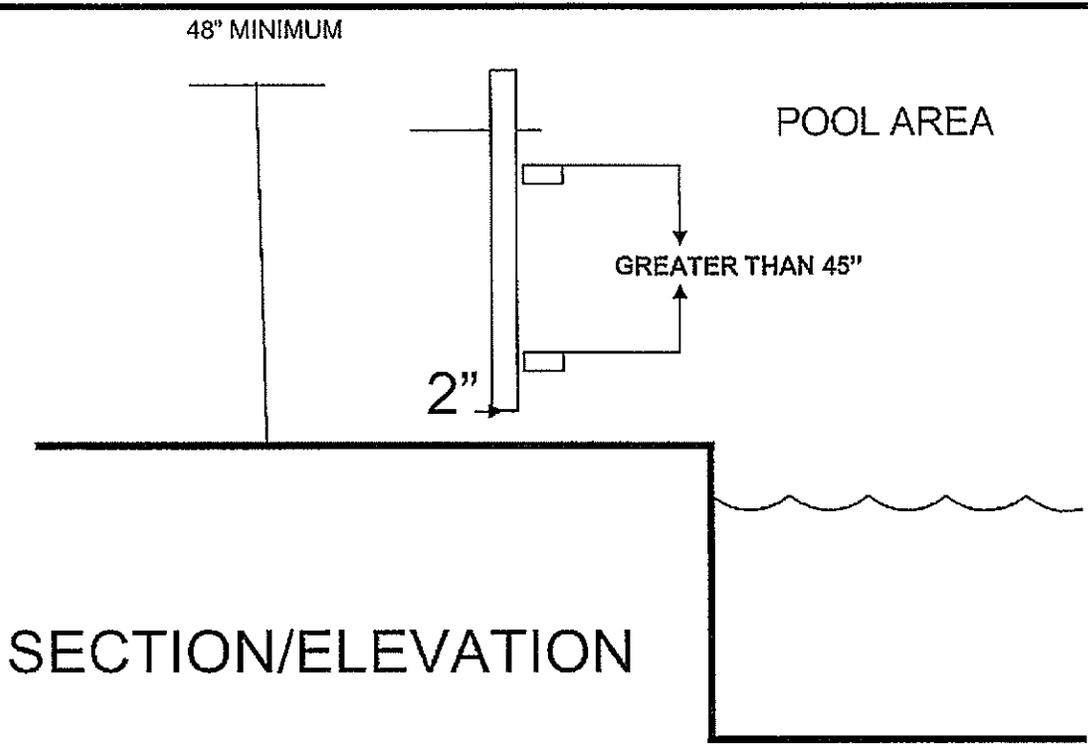


ELEVATION

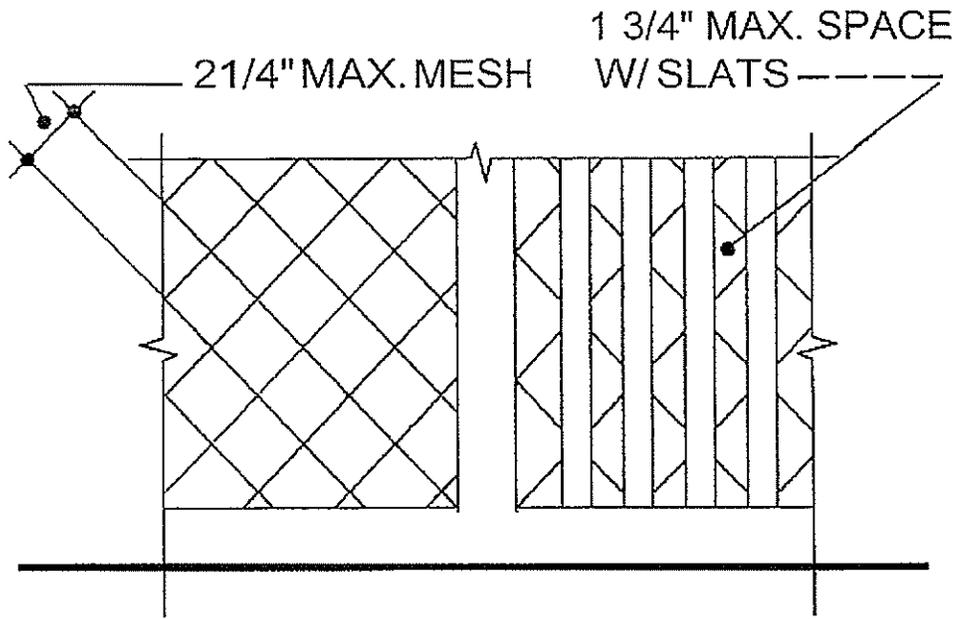
SECTION R326.6.1, ITEM 4



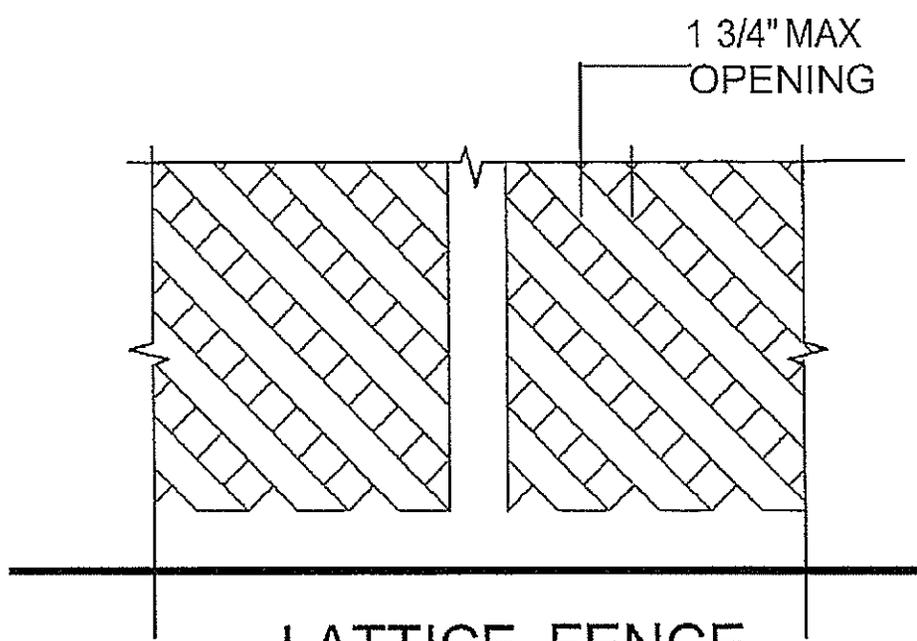
SECTION R326.6.1, ITEM 4



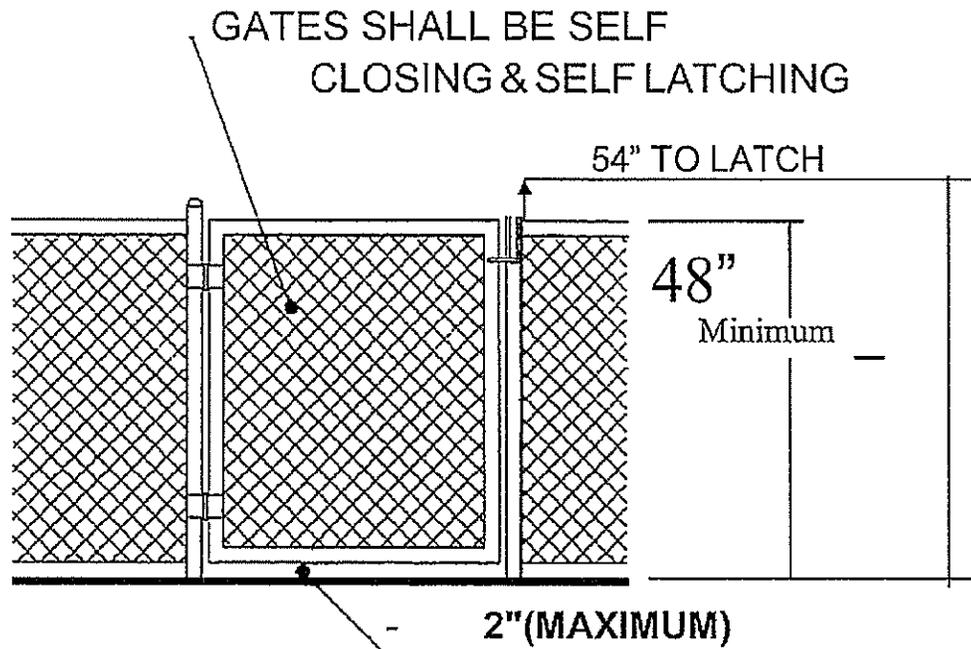
SECTION R326.6.1, ITEM5



CHAIN LINK FENCE
SECTION R326.6.1, ITEM 6



LATTICE FENCE
SECTION R326.6.1, ITEM 7



ELEVATION

PEDESTRIAN ACCESS GATE
TO OPEN OUTWARD AWAY
FROM POOL

SECTION R326.6.1, ITEM 8

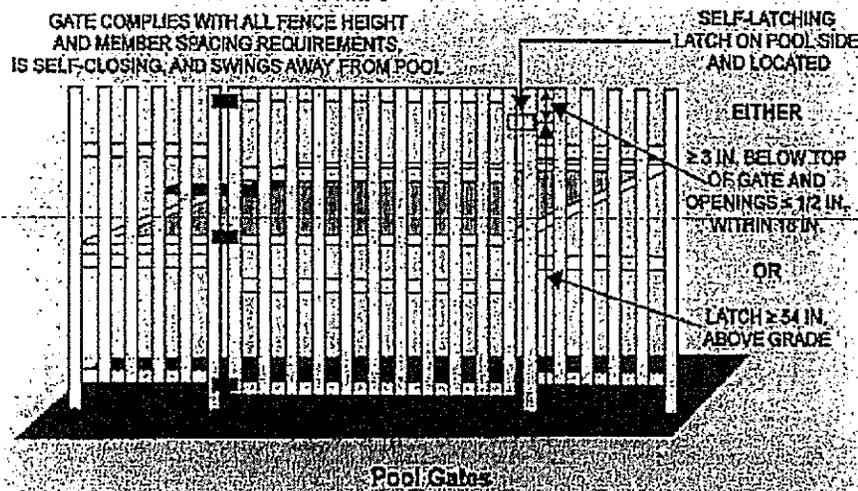
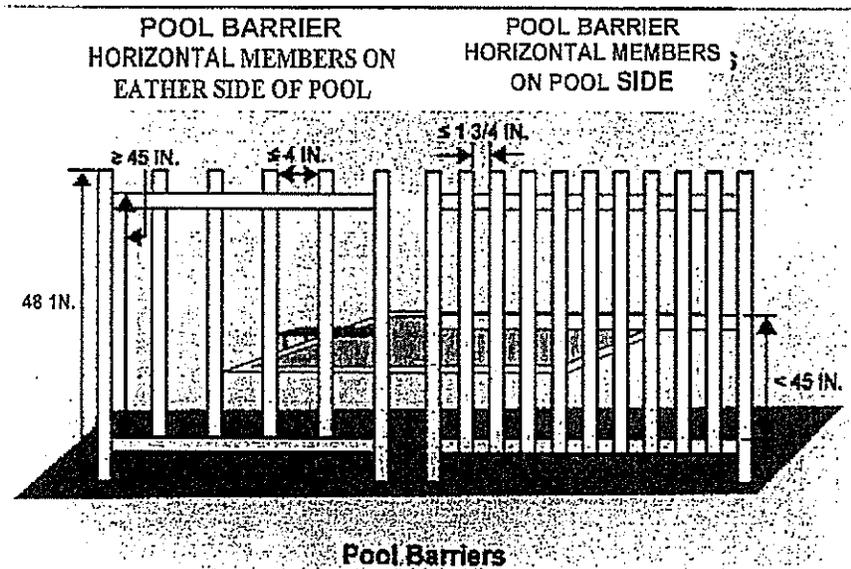
Pool Enclosures

A successful pool barrier prevents a child from getting OVER, UNDER, or THROUGH and keeps a child from gaining access to the pool except when supervising adults are present. Any openings should not allow for the passage for a 4 inch sphere.

Maximum mesh size for chain link fences shall be a 2 1/4 inch square unless the fence is provided with slats fastened at the top or the bottom which reduce the openings to no more than 1 3/4 inches.

Any solid barrier surfaces cannot contain indentations or protrusions that form handholds or footholds, except for normal construction tolerances and tooled masonry joints.

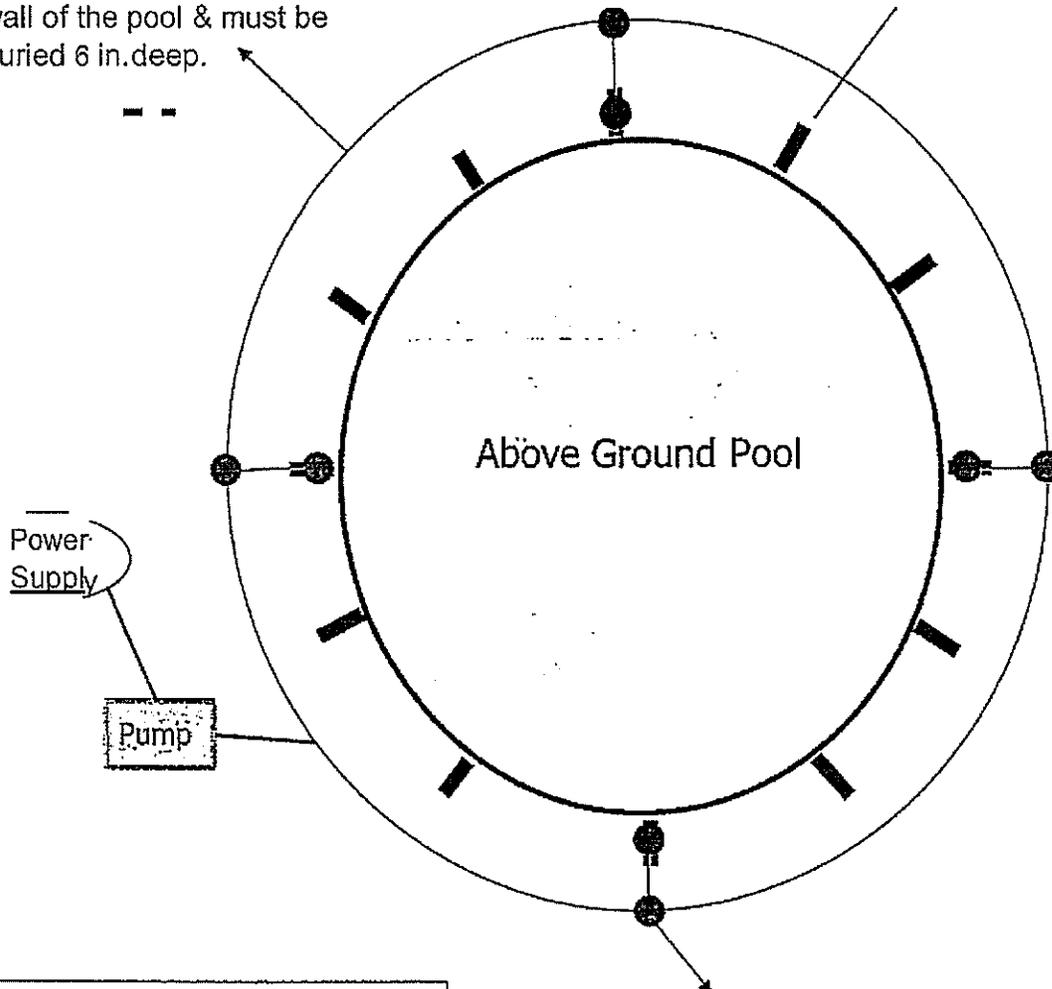
The sidewall of an above ground pool can be considered part of the barrier provided that the ladder to the pool is an approved enclosure. A flip-up ladder does not constitute a (passive) self-closing device.



Above Ground Pool Bonding Information

#8 Solid Copper Bond Wire - to be 18 in. - 24 in. away from the wall of the pool & must be buried 6 in. deep.

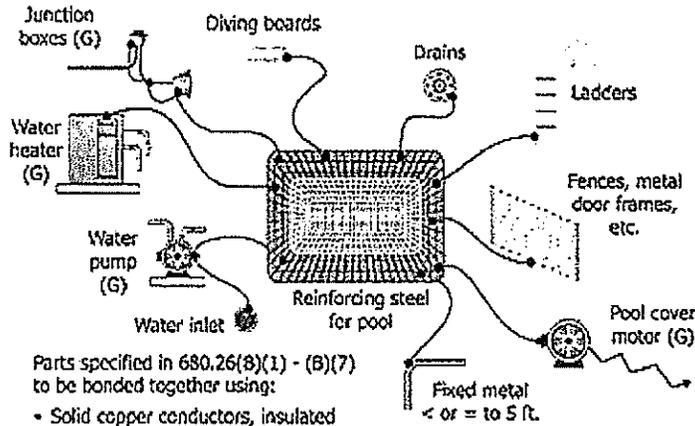
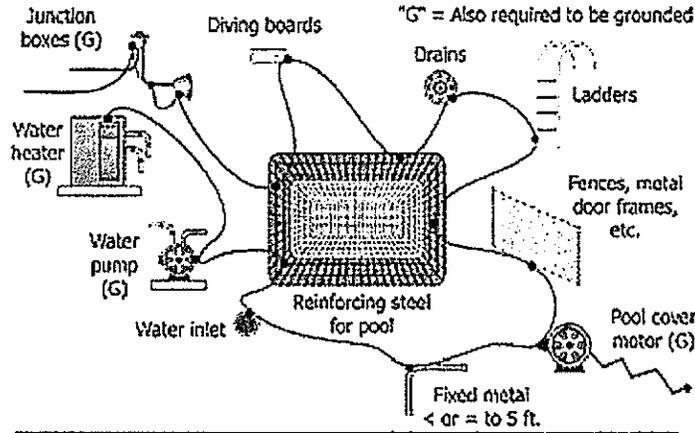
Pool frame ribs (legs)



*If a metal ladder is being used, the ladder must be bonded as well.

Copper Lugs (rated for direct burial) mounted from bond wire to frame ribs with stainless steel screws in 4 locations (preferably spaced evenly around pool).

680.26(B) Equipotential Bonding - Bonded Parts

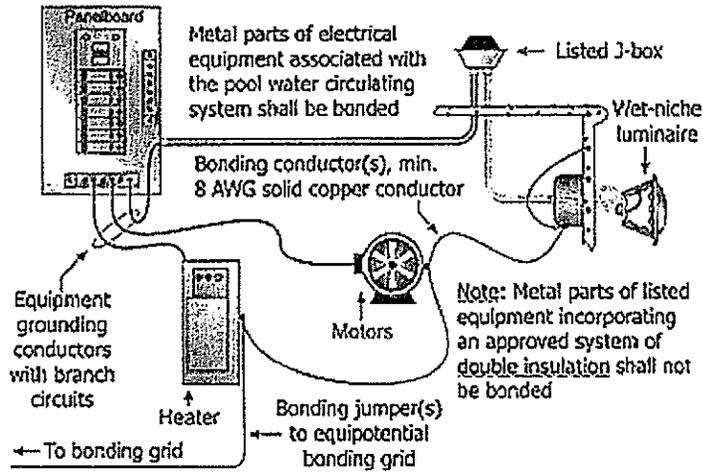


Parts specified in 680.26(8)(1) - (8)(7) to be bonded together using:

- Solid copper conductors, insulated covered, or bare, not smaller than 8 AWG
- Rigid metal conduit of brass or other identified corrosion-resistant metal

680.26(B)(6) Bonding of Electrical Equipment

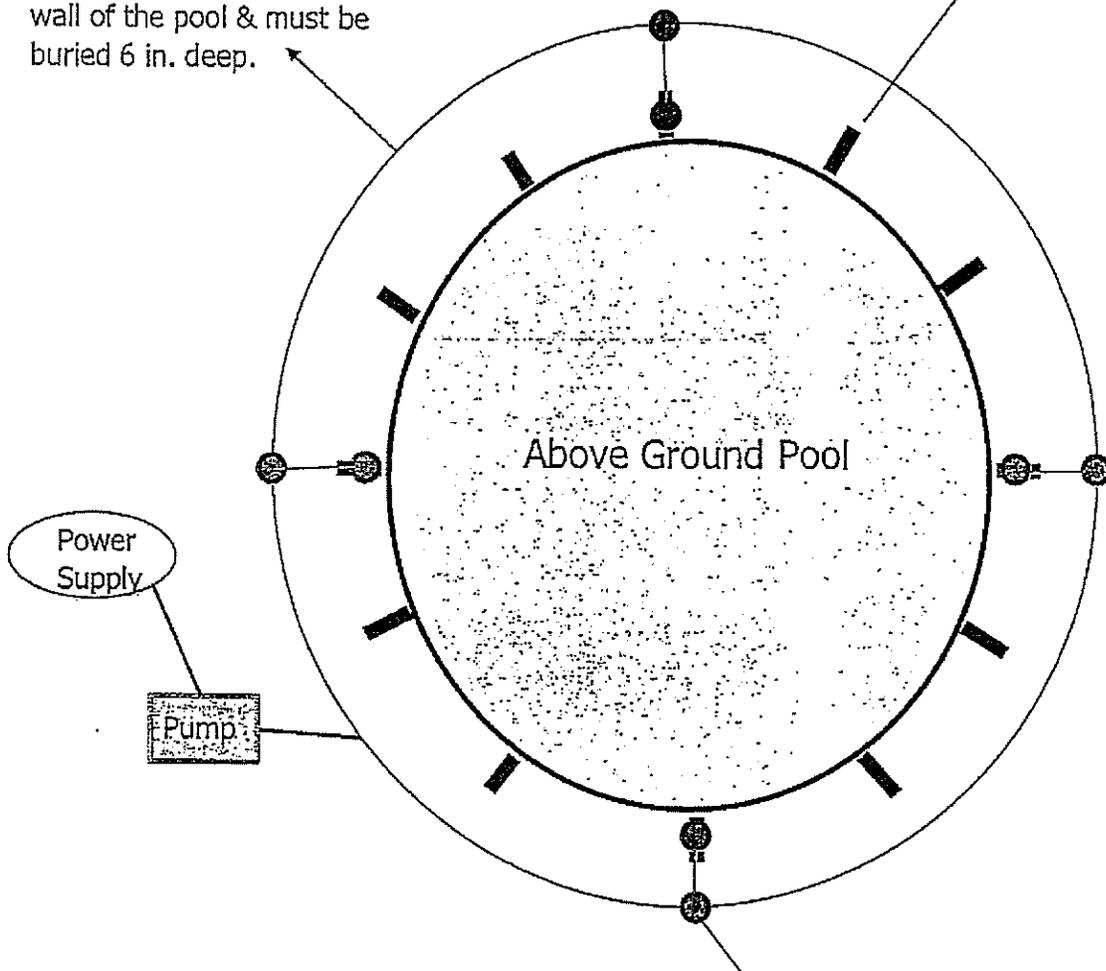
Note: EGCs (green) and equipotential bonding jumpers (copper) shown



Above Ground Pool Bonding Information

#8 Solid Copper Bond Wire – to be 18 in. – 24 in. away from the wall of the pool & must be buried 6 in. deep.

Pool frame ribs (legs)



*If a metal ladder is being used, the ladder must be bonded as well.

Copper Lugs (rated for direct burial) mounted from bond wire to frame ribs with stainless steel screws in 4 locations (preferably spaced evenly around pool).