



Town of Norfolk

Building Department

1 Liberty Lane
Norfolk, MA 02056

Swimming Pool Information & Regulations

A building permit is required for ANY structure intended for swimming or recreational bathing that contains water over 24 inches deep. This includes in-ground, aboveground AND on-ground swimming pools, hot tubs and spas.

Application – submit a completed building permit application with all information required (including dig safe #, license numbers, assessors map block and lot. Also required are signatures from the Treasurer/Collector, Board of Health, Conservation office and Town Clerk.

Licenses/Insurance – submit copy of the installing contractor's license, insurance and worker's compensation insurance affidavit.

Electrical Permit Application – submit completed electrical permit application along with copy of electrician's insurance and worker's compensation insurance affidavit. Electrical permit is a separate \$75.00 fee paid at time of submittal.

Plans – submit two (2) copies of engineered drawings of pool showing the size and description.

Plot Plan – submit a certified plot plan showing property lines, location of all primary and accessory structures, location of pool and required fencing with setbacks to property lines shown. Pool setback requirements: 25 feet from side and rear lot lines, 50 feet from front lot line, 10 feet from septic tank and 20 feet from leaching field. A house located on a corner lot has two front lot lines.

Enclosures/Fencing –

1. Top of the barrier shall be at least 48 inches above finished ground level.
2. 2 inch space between barrier and ground
3. 4 inch space between top of pool and barrier
4. Openings in barriers 4 inch sphere cannot pass through the barrier
5. 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, the horizontal member shall be located on the swimming pool side of the fence and spacing between vertical members shall not exceed 1 ¾ inch in width.
6. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches or more, spacing between vertical members shall not exceed four inches.
7. 1 ¼ mini mesh size for chain link fences (max) unless slats are fastened at the top or the bottom which reduce the openings to not more than 1 ¾ inches.
8. 1 ¾ inch for diagonal members, such as a lattice fence.

Gate –

1. Must be self closing
2. Self latching
3. shall open outwards away from pool
4. must accommodate a lock
5. 54 inch minimum for self-latching release mechanism or
6. if the release mechanism of the self latching device is less than 54 inches from the bottom of the gate, then:
 - it shall be located on the pool side of the gate at least 3 inches below the top of the gate; and
 - the gate and barrier shall not have an opening greater than ½ inch within 18 inches of the release mechanism

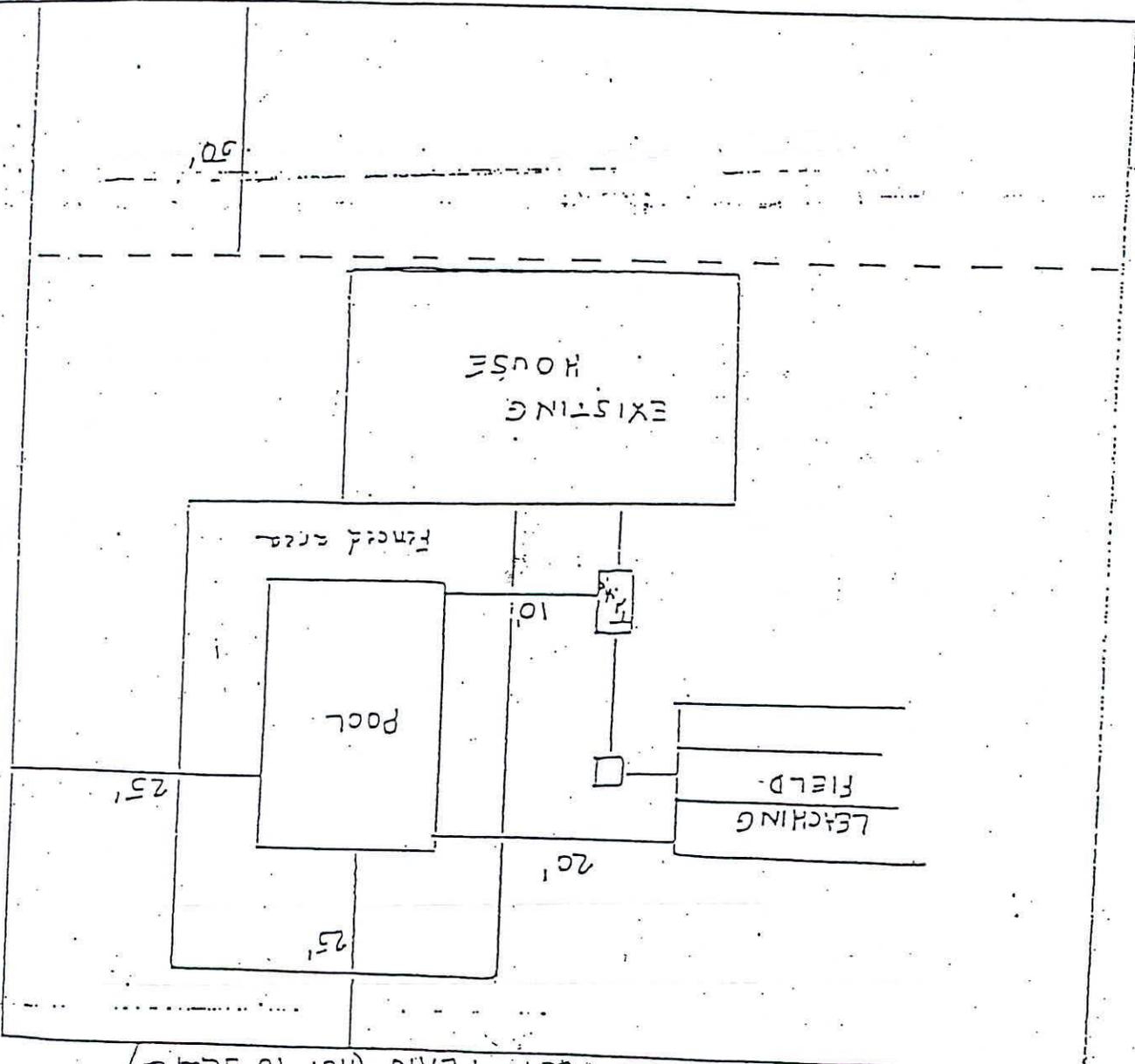
House as Part of the Barrier – All doors including bulk heads with direct access to the pool area must have an alarm that sounds when the door and its screen, if present, are opened

1. Must sound within 7 seconds
2. Must sound continuously for at least 30 seconds
3. Distinctive sound from other household sounds
4. Automatically reset
5. Manual deactivation for 15 seconds and located at least 54 inches above the threshold

Ladders or Steps – A fixed or removable ladder or steps must be fenced as specified above for pools, including the gate. A removable ladder shall not constitute an acceptable alternative to enclosure requirements. Where an aboveground 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:

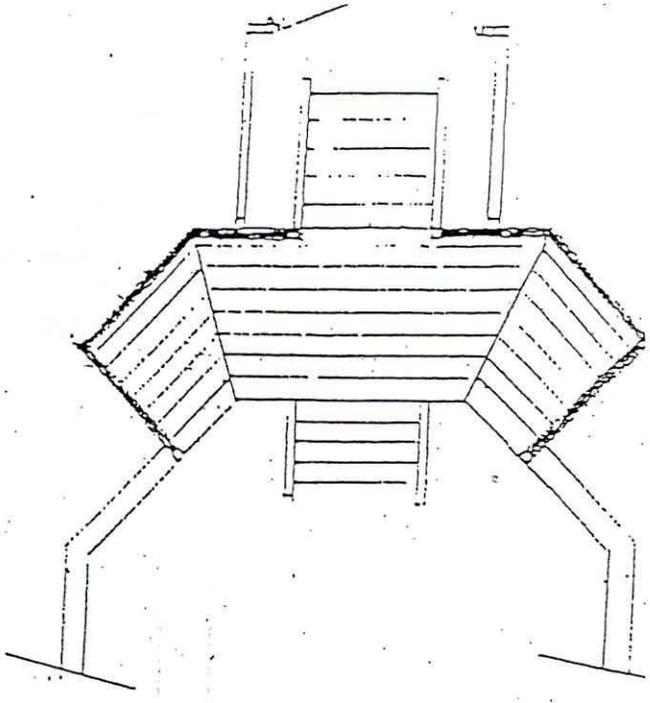
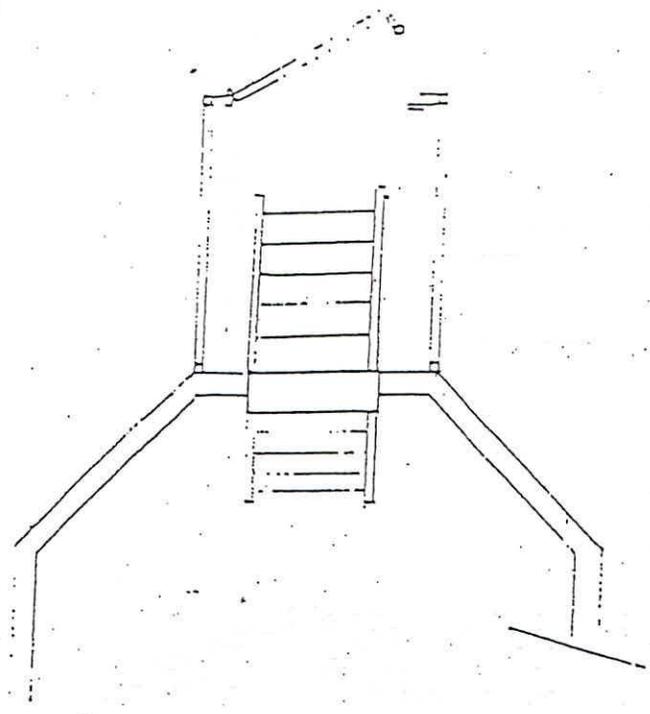
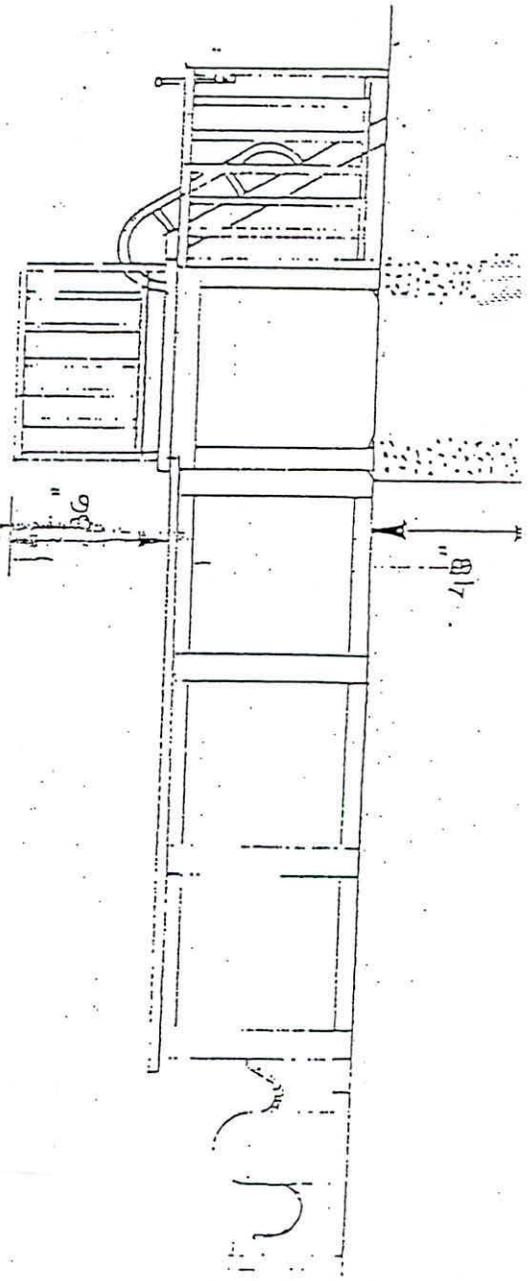
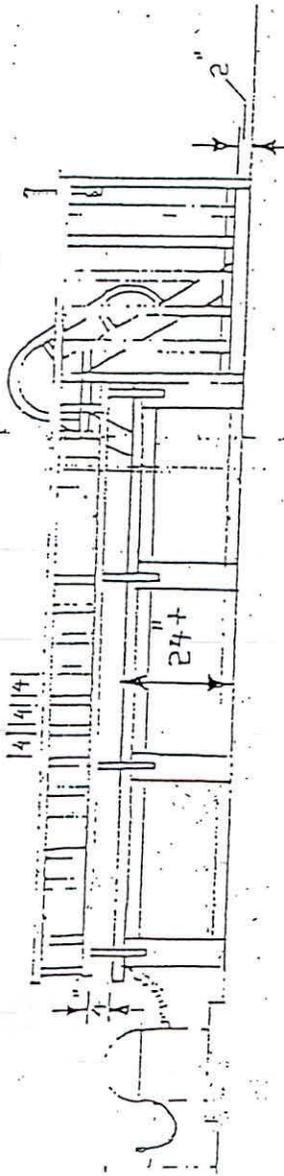
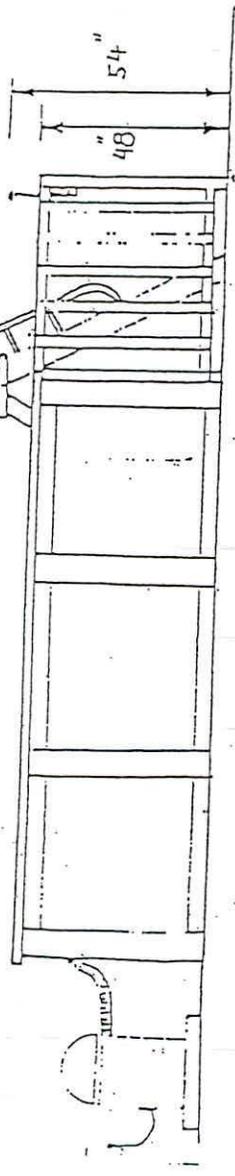
- The ladder or steps shall be capable of being secured, locked or removed to prevent access or;
- The ladder or steps shall be surrounded by a barrier with a self-closing self latching device

STREET



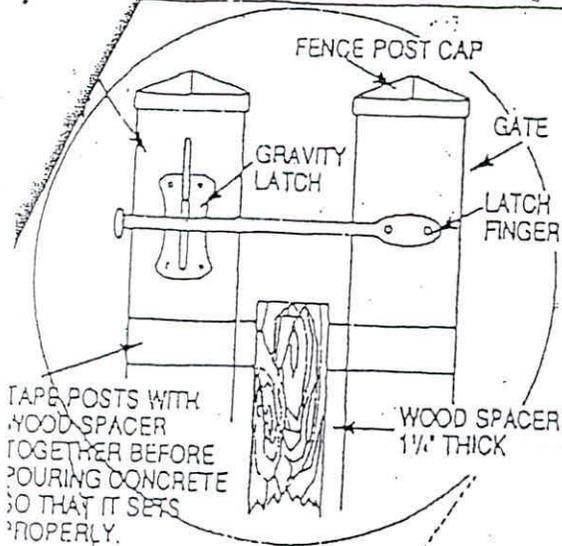
SAMPLE PLOT PLAN (not to scale)

ABOVE GROUND POOL RAILINGS



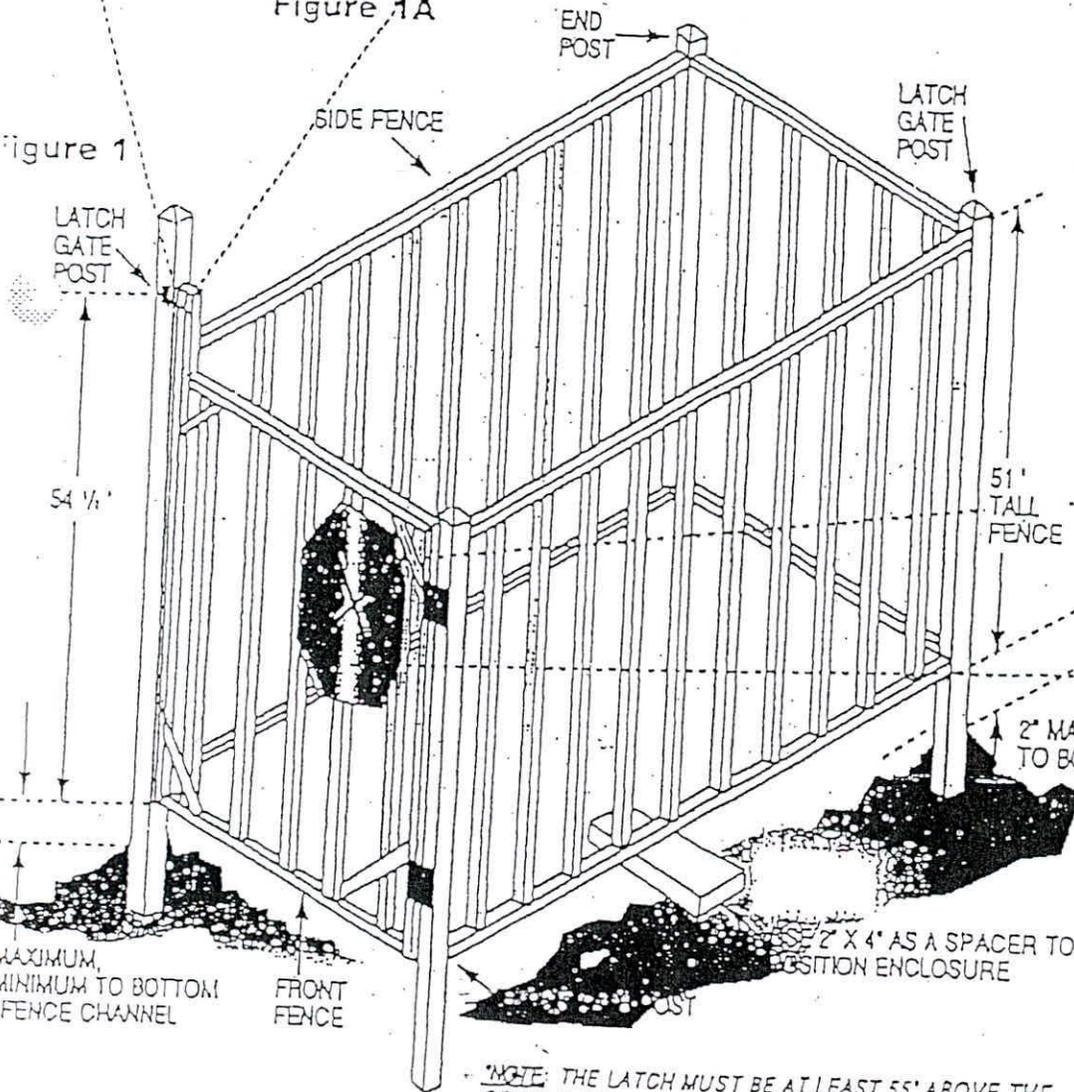
Installation Instruction

Parts List



TAPE POSTS WITH WOOD SPACER TOGETHER BEFORE POURING CONCRETE SO THAT IT SETS PROPERLY.

Figure 1A



MAXIMUM, MINIMUM TO BOTTOM OF FENCE CHANNEL

FRONT FENCE

51\"/>

2\"/>

2\"/>

NOTE: THE LATCH MUST BE AT LEAST 55\"/>

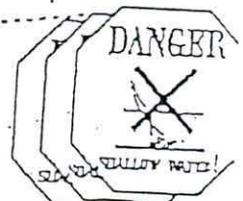
1) Following is a list of all the parts. Please open all of your cartons and make sure you have all of the parts listed. If you do not have all of the parts listed below, STOP! Contact the dealer where you purchased this enclosure, and advise them about what is missing. Without all of the parts needed to construct this enclosure, it cannot function properly and safely.

Carton #1

- 2 fence sections 66\"/>

Carton #2

- 1 post 1 1/2\"/>



MAKE SURE ALL POSTS ARE VERTICAL, AND ALL FENCE SECTIONS ARE SQUARE BEFORE AND AFTER POURING CONCRETE.

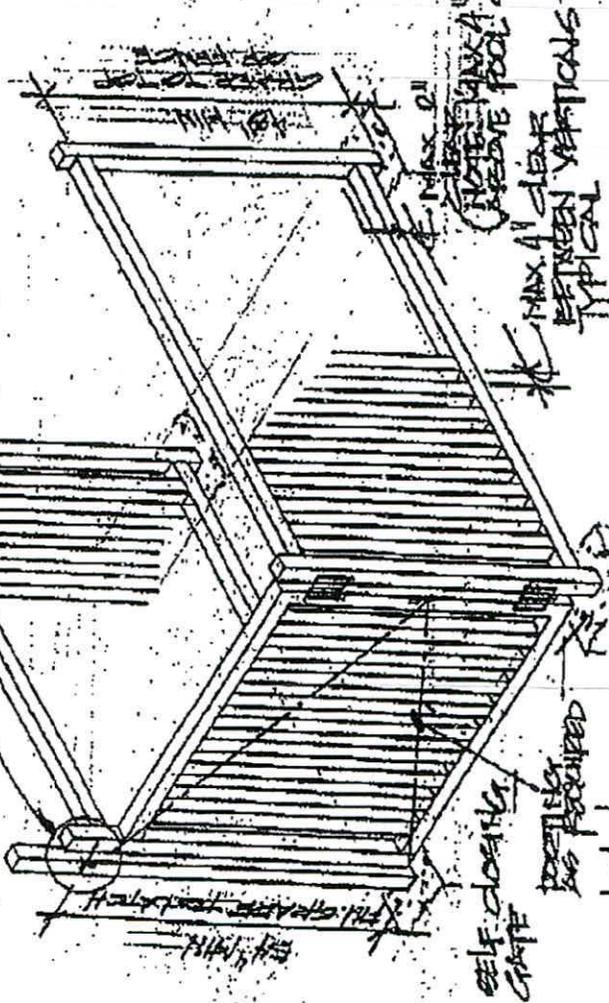
READ ALL THE WAY THROUGH THESE INSTRUCTIONS AT LEAST ONCE BEFORE YOU COME BACK TO STEP #4 AND START INSTALLATION

3) Do not install (if already installed, remove) your "A" frame safety ladder or ground to deck ladder until you have completed installing your ladder enclosure

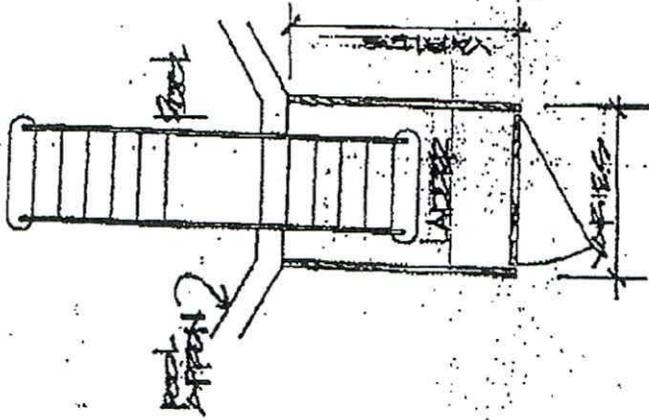
SAMPLE

FOR DESIGN PURPOSES ONLY

SELF LATCHING
LOCKING DEVICE



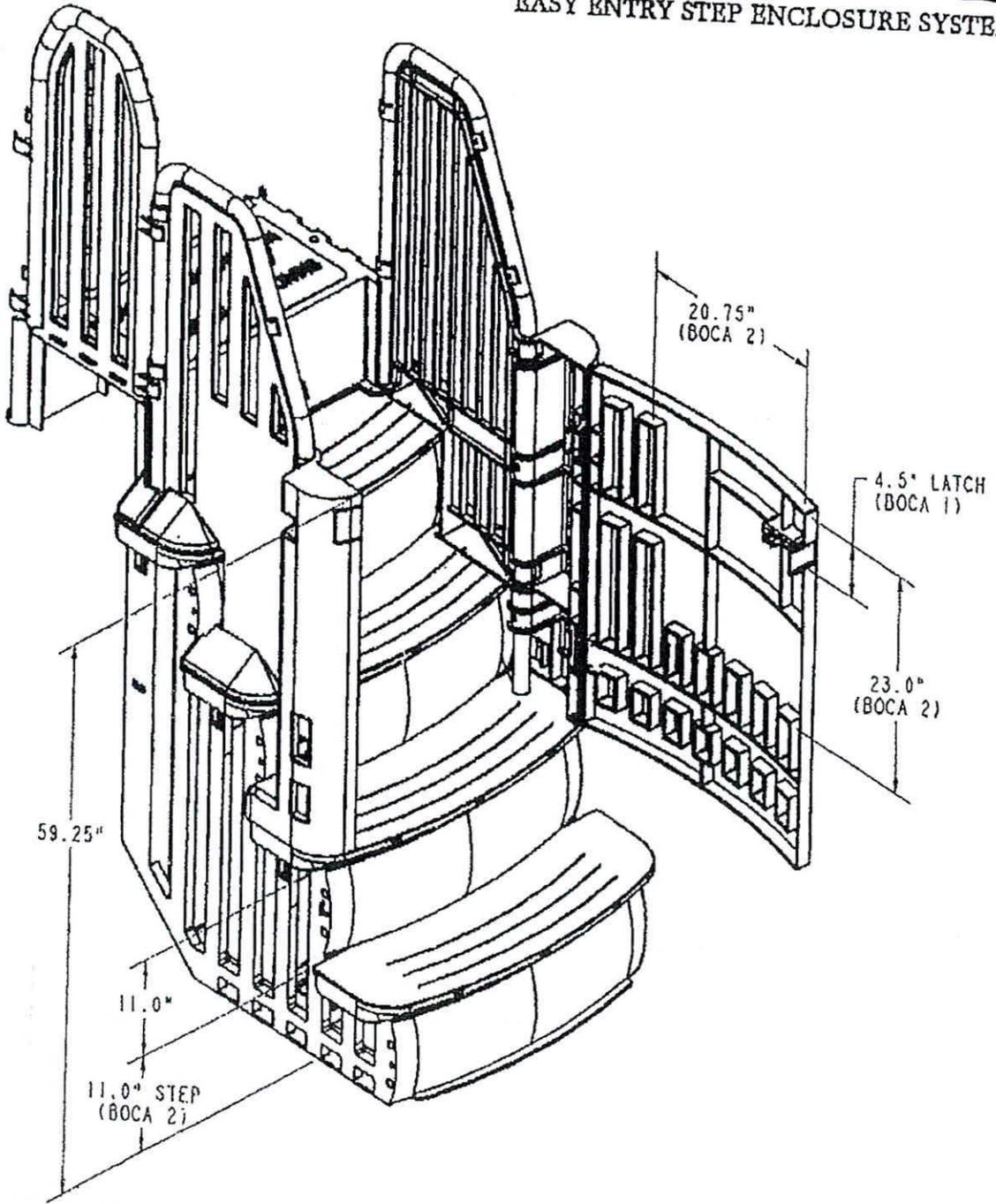
ENCLOSURE ISOMETRIC



PLAN
A-FRAME LADDER

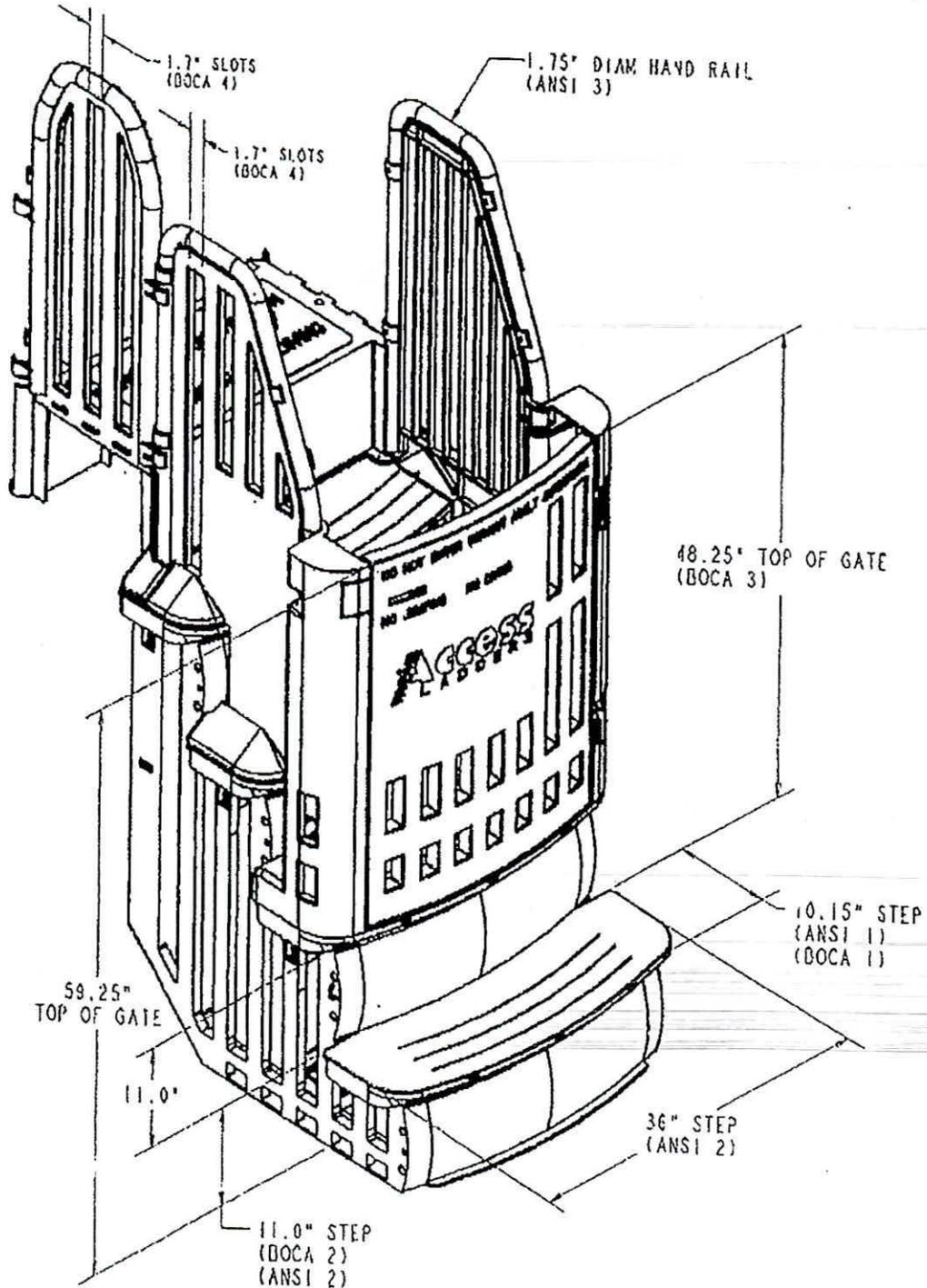
SAMPLE

EASY ENTRY STEP ENCLOSURE SYSTEM



<p>MATERIAL: FINISH: SCALE:</p>	<p>PROPRIETARY NOTICE: THIS DRAWING IS THE PROPERTY OF RECREATIONAL PRODUCTS, INC AND SHALL NOT BE USED, REPRODUCED OR COPIED WITHOUT WRITTEN CONSENT FROM RECREATIONAL PRODUCTS, INC.</p>	<p>DRAWN BY: J HAHN DATE: 03-08-01</p>	<p>ENGINEERING INNOVATION, INC. 1516 Cottonwood LN NE Cedar Rapids, IA 52402</p>
<p>UNTOLERANCED DIMENSIONS .18 ± .01 FRACTIONS ± .01 .005 ± .005 ANGLES ± 1 DEGREE</p>	<p>UNLESS SPECIFIED ALL DIMENSIONS IN INCHES THIRD ANGLE PROJECTION</p>	<p>APPROVED BY: _____ DATE: _____</p>	<p>TITLE: ANSI/BOCA REQ'MTS - SHT 2 of 2 CADD FILE: FINAL.ASM MODEL #: STEP w/ ENCL</p>

SAMPLE



<p>MATERIAL: FINISH: SCALE:</p>	<p>PROPRIETARY NOTICE: THIS DRAWING IS THE PROPERTY OF RECREATIONAL PRODUCTS, INC AND SHALL NOT BE REPRODUCED, DISCLOSED OR COPIED WITHOUT WRITTEN CONSENT FROM RECREATIONAL PRODUCTS, INC.</p>	<p>DRAWN BY: JHAHN DATE: 03-08-01</p>	<p>ENGINEERING INNOVATION, INC. 1516 Cottonwood LN NB Cedar Rapids, IA 52402</p>
<p>UNFINISHED DIMENSIONS XX.XX FRACTIONS = 01 XX.XX = .005 ANGLES 1.4 DEGREE</p>	<p>UNLESS SPECIFIED ALL DIMENSIONS IN INCHES THIRD ANGLE PROJECTION</p>	<p>APPROVED BY: DATE:</p>	<p>TITLE: EASY ACCESS STEP WITH ENCLOSURE</p>
			<p>CADD FILE: FINAL.ASM RCODE: #</p>

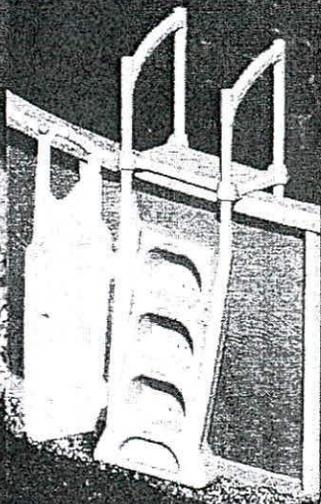
SELF-LATCHING SYSTEM

Factory install

Easy assembly

Fit all InnovaPlas steps:
H2O, Bilt Mor, Fiesta,
Opera, Elegant Step,
Tuxedo

Made from Ultra-Violet
rated virgin
polyethylene resin



BOCA National Uniform
Construction Code Section
421.0 Swimming Pools
421.10 Enclosures for private
swimming pools,
spas and hot tubs:
9.2. All doors with direct access
to the pool through that wall
shall be equipped with a
self-closing and self-latching
device with the release
mechanism located a minimum
of 54 inches above the floor.

InnovaPlas
PRODUCTS

101 Industrial Blvd., Bromptonville QC CANADA JOB 1HO
www.innovaplas.com

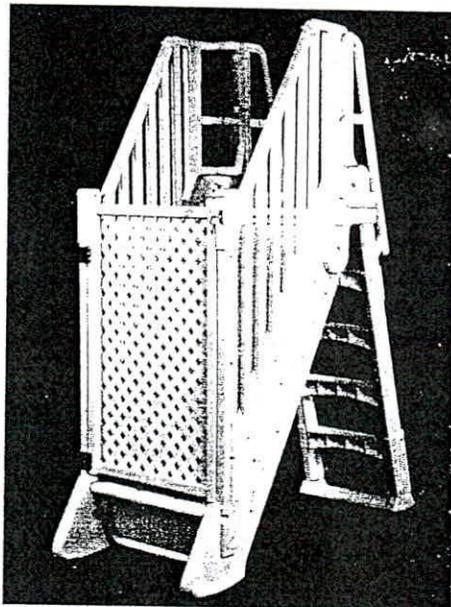
Stackability is patent-pending innovations
(N° 2,409,866)

InnovaPlas products reserves the right to modify its products' specifications,
designs or models at any time, without further obligation on its part.

Model 2003SL Stair Ladder Combo

Product Features

- Reversible - choose whether you want the ladder or the stair on the inside / outside of the pool
- Designed for use with both 48" or 52" pools
- Double handrails on the stair and extended handrails on the ladder for easy entry and exit
- All resin design with stainless hardware for years of worry-free use
- Easy "J" hook brackets to secure Combo to pool top rail for greater stability (no drilling required)
- Optional gate and picket package available for stair portion for greater security (sold separately). Gate is spring-loaded, self-closing, self-latching and lockable
- Unit can be used with our resin Pool Fencing to totally enclose and protect pool
- *Slide-Lock* ladder protects entry to your pool when using ladder portion on the out side of the pool
- 350lbs. capacity



Shown with Model 20030G Optional Gate
& Picket package (sold separately)

Take the ordinary and make it extraordinary ...

QUALITY BY DESIGN

VINYL WORKS CANADA

P.O. Box 96, Port Colborne, Ontario, CANADA L3K 5V7

www.vinylworkscanada.com

APPENDIX G

SWIMMING POOLS, SPAS AND HOT TUBS

(The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.)

SECTION AG101 GENERAL

AG101.1 General. The provisions of this appendix shall control the design and construction of swimming pools, spas and hot tubs installed in or on the *lot* of a one- or two-family dwelling.

AG101.2 Pools in flood hazard areas. Pools that are located in flood hazard areas established by Table R301.2(1), including above-ground pools, on-ground pools and in-ground pools that involve placement of fill, shall comply with Sections AG101.2.1 or AG101.2.2.

Exception: Pools located in riverine flood hazard areas which are outside of designated floodways.

AG101.2.1 Pools located in designated floodways. Where pools are located in designated floodways, documentation shall be submitted to the *building official*, which demonstrates that the construction of the pool will not increase the design flood elevation at any point within the *jurisdiction*.

AG101.2.2 Pools located where floodways have not been designated. Where pools are located where design flood elevations are specified but floodways have not been designated, the applicant shall provide a floodway analysis that demonstrates that the proposed pool will not increase the design flood elevation more than 1 foot (305 mm) at any point within the *jurisdiction*.

SECTION AG102 DEFINITIONS

AG102.1 General. For the purposes of these requirements, the terms used shall be defined as follows and as set forth in Chapter 2.

ABOVE-GROUND/ON-GROUND POOL. See "Swimming pool."

BARRIER. A fence, wall, building wall or combination thereof which completely surrounds the swimming pool and obstructs access to the swimming pool.

HOT TUB. See "Swimming pool."

IN-GROUND POOL. See "Swimming pool."

RESIDENTIAL. That which is situated on the premises of a detached one- or two-family dwelling or a one-family *townhouse* not more than three stories in height.

SPA, NONPORTABLE. See "Swimming pool."

SPA, PORTABLE. A nonpermanent structure intended for recreational bathing, in which all controls, water-heating and water-circulating *equipment* are an integral part of the product.

SWIMMING POOL. Any structure intended for swimming or recreational bathing that contains water over 24 inches (610

mm) deep. This includes in-ground, above-ground and on-ground swimming pools, hot tubs and spas.

SWIMMING POOL, INDOOR. A swimming pool which is totally contained within a structure and surrounded on all four sides by the walls of the enclosing structure.

SWIMMING POOL, OUTDOOR. Any swimming pool which is not an indoor pool.

SECTION AG103 SWIMMING POOLS

AG103.1 In-ground pools. In-ground pools shall be designed and constructed in conformance with ANSI/NSPI-5 as listed in Section AG108.

AG103.2 Above-ground and on-ground pools. Above-ground and on-ground pools shall be designed and constructed in conformance with ANSI/NSPI-4 as listed in Section AG108.

AG103.3 Pools in flood hazard areas. In flood hazard areas established by Table R301.2(1), pools in coastal high hazard areas shall be designed and constructed in conformance with ASCE 24.

SECTION AG104 SPAS AND HOT TUBS

AG104.1 Permanently installed spas and hot tubs. Permanently installed spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-3 as listed in Section AG108.

AG104.2 Portable spas and hot tubs. Portable spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-6 as listed in Section AG108.

SECTION AG105 BARRIER REQUIREMENTS

AG105.1 Application. The provisions of this chapter 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.

AG105.2 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 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 $1\frac{3}{4}$ inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed $1\frac{3}{4}$ 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 $1\frac{3}{4}$ inches (44 mm) in width.
6. Maximum mesh size for chain link fences shall be a $2\frac{1}{4}$ -inch (57 mm) square unless the fence has slats fastened at the top or the bottom which reduce the openings to not more than $1\frac{3}{4}$ 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 $1\frac{3}{4}$ inches (44 mm).
8. Access gates shall comply with the requirements of Section AG105.2, 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

3" - 1' Standard

8.2. The gate and barrier shall have no opening larger than $\frac{1}{2}$ 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 F 1346; or
 - 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 above.
10. 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:
 - 10.1. The ladder or steps shall be capable of being secured, locked or removed to prevent access; or
 - 10.2. The ladder or steps shall be surrounded by a barrier which meets the requirements of Section AG105.2, 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 (102 mm) sphere.

AG105.3 Indoor swimming pool. Walls surrounding an indoor swimming pool shall comply with Section AG105.2, Item 9.

AG105.4 Prohibited locations. Barriers shall be located to prohibit permanent structures, *equipment* or similar objects from being used to climb them.

AG105.5 Barrier exceptions. Spas or hot tubs with a safety cover which complies with ASTM F 1346, as listed in Section AG107, shall be exempt from the provisions of this appendix.

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.

