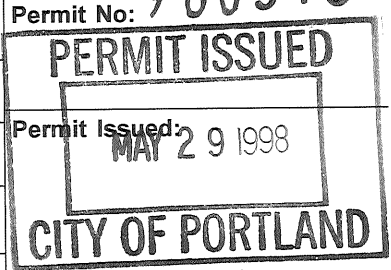


City of Portland, Maine – Building or Use Permit Application 389 Congress Street, 04101, Tel: (207) 874-8703, FAX: 874-8716

Permit No: **980546**

Location of Construction: 104 Roaringbrook Rd		Owner: Jean & Christine Ferraro		Phone: 878-0881	
Owner Address: 5AA 04103		Lessee/Buyer's Name:		Phone:	
Contractor Name: Owner		Address:		BusinessName:	
Past Use: 1-fam		Proposed Use:		COST OF WORK: \$ 1,600.00 PERMIT FEE: \$ 30.00	
Proposed Project Description: Install A/G 21' pool and additional deck area		FIRE DEPT. <input type="checkbox"/> Approved <input type="checkbox"/> Denied Signature:		INSPECTION: Use Group: R3 Type: 5B Signature: <i>[Signature]</i>	
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved with Conditions <input type="checkbox"/> Denied Signature: _____ Date: _____		Zoning Appeal: <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied		Zoning Approval: Special Zone or Reviews: <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan maj <input type="checkbox"/> minor <input type="checkbox"/> mm <input type="checkbox"/>	
Permit Taken By:		Date Applied For: 22 May 1998		Zone: CBL: 395-R-031	



1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal rules.
2. Building permits do not include plumbing, septic or electrical work.
3. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..

PERMIT ISSUED WITH REQUIREMENTS

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or 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 authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provisions of the code(s) applicable to such permit

26 May 1998

SIGNATURE OF APPLICANT	ADDRESS:	DATE:	PHONE:
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE			PHONE:

Zone: CBL: 395-R-031

Shoreland
 Wetland
 Flood Zone
 Subdivision
 Site Plan maj minor mm

Variance
 Miscellaneous
 Conditional Use
 Interpretation
 Approved
 Denied

Zoning Appeal

Variance
 Miscellaneous
 Conditional Use
 Interpretation
 Approved
 Denied

Historic Preservation

Not in District or Landmark
 Does Not Require Review
 Requires Review

Action:

Approved
 Approved with Conditions
 Denied

Date: 4/29/98

CEO DISTRICT

COMMENTS

7/29/98 Pool is in / Fence in - Still working on deck - Insulin
on Alarms - Referred to P.S.H. (R)

7-30-98 SETBACKS are above and Board Required Gate is being
Built. But can and is placed at site and when they are not home

	Type	Inspection Record	Date
Foundation:	_____	_____	_____
Framing:	_____	_____	_____
Plumbing:	_____	_____	_____
Final:	Pool is all set	TER	7-30-98
Other:	_____	_____	_____

BUILDING PERMIT REPORT

DATE: 28 MAY 98 ADDRESS: 104 Roaringbrook Rd. (395-K-031)
REASON FOR PERMIT: To install A/G 21' pool & deck area.
BUILDING OWNER: J. & C. Ferraro
CONTRACTOR: owner
PERMIT APPLICANT: _____
USE GROUP R-3 BOCA 1996 CONSTRUCTION TYPE A/G Pool 21'

CONDITION(S) OF APPROVAL

This Permit is being issued with the understanding that the following conditions are met:

Approved with the following conditions:

*1, *2, *8, *10, *24, *29

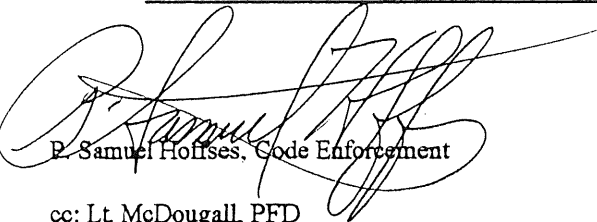
1. This permit does not excuse the applicant from meeting applicable State and Federal rules and laws.
2. Before concrete for foundation is placed, approvals from the Development Review Coordinator and Inspection Services must be obtained. (A 24 hour notice is required prior to inspection) *(Before placing pool call for inspection for setbacks)*
3. Precaution must be taken to protect concrete from freezing. *(setbacks)*
4. It is strongly recommended that a registered land surveyor check all foundation forms before concrete is placed. This is done to verify that the proper setbacks are maintained.
5. Private garages located beneath habitable rooms in occupancies in Use Group R-1, R-2, R-3 or I-1 shall be separated from adjacent interior spaces by fire partitions and floor/ceiling assembly which are constructed with not less than 1-hour fire resisting rating. Private garages attached side-by-side to rooms in the above occupancies shall be completely separated from the interior spaces and the attic area by means of ½ inch gypsum board or the equivalent applied to the garage means of ½ inch gypsum board or the equivalent applied to the garage side. (Chapter 4 Section 407.0 of the BOCA/1996)
6. All chimneys and vents shall be installed and maintained as per Chapter 12 of the City's Mechanical Code. (The BOCA National Mechanical Code/1993).
7. Sound transmission control in residential building shall be done in accordance with Chapter 12 section 1214.0 of the city's building code.
8. Guardrails & Handrails: A guardrail system is a system of building components located near the open sides of elevated walking surfaces for the purpose of minimizing the possibility of an accidental fall from the walking surface to the lower level. Minimum height all Use Groups 42", except Use Group R which is 36". In occupancies in Use Group A, B, H-4, I-1, I-2 M and R and public garages and open parking structures, open guards shall have balusters or be of solid material such that a sphere with a diameter of 4" cannot pass through any opening. Guards shall not have an ornamental pattern that would provide a ladder effect. (Handrails shall be a minimum of 34" but not more than 38". Use Group R-3 shall not be less than 30", but not more than 38".) Handrail grip size shall have a circular cross section with an outside diameter of at least 1 1/4" and not greater than 2".
9. Headroom in habitable space is a minimum of 7'6".
10. Stair construction in Use Group R-3 & R-4 is a minimum of 10" tread and 7 3/4" maximum rise. All other Use group minimum 11" tread. 7" maximum rise.
11. The minimum headroom in all parts of a stairway shall not be less than 80 inches. (6' 8")
12. Every sleeping room below the fourth story in buildings of use Groups R and I-1 shall have at least one operable window or exterior door approved for emergency egress or rescue. The units must be operable from the inside without the use of special knowledge or separate tools. Where windows are provided as means of egress or rescue they shall have a sill height not more than 44 inches (1118mm) above the floor. All egress or rescue windows from sleeping rooms shall have a minimum net clear opening height dimension of 24 inches (610mm). The minimum net clear opening width dimension shall be 20 inches (508mm), and a minimum net clear opening of 5.7 sq. ft.
13. Each apartment shall have access to two (2) separate, remote and approved means of egress. A single exit is acceptable when it exits directly from the apartment to the building exterior with no communications to other apartment units.
14. All vertical openings shall be enclosed with construction having a fire rating of at least one (1) hour, including fire doors with self closer's. (Over 3 stories in height requirements for fire rating is two (2) hours.)
15. The boiler shall be protected by enclosing with (1) hour fire-rated construction including fire doors and ceiling, or by providing automatic extinguishment.
16. All single and multiple station smoke detectors shall be of an approved type and shall be installed in accordance with the

provisions of the City's Building Code Chapter 9, Section 19, 920.3.2 (BOCA National Building Code/1996), and NFPA 101 Chapter 18 & 19. (Smoke detectors shall be installed and maintained at the following locations):

- In the immediate vicinity of bedrooms
- In all bedrooms
- In each story within a dwelling unit, including basements

In addition to the required AC primary power source, required smoke detectors in occupancies in Use Groups R-2, R-3 and I-1 shall receive power from a battery when the AC primary power source is interrupted. (Interconnection is required)

17. A portable fire extinguisher shall be located as per NFPA #10. They shall bear the label of an approved agency and be of an approved type.
18. The Fire Alarm System shall be maintained to NFPA #72 Standard.
19. The Sprinkler System shall maintained to NFPA #13 Standard.
20. All exit signs, lights, and means of egress lighting shall be done in accordance with Chapter 10 Section & Subsections 1023. & 1024. Of the City's building code. (The BOCA National Building Code/1996)
21. Section 25-135 of the Municipal Code for the City of Portland states, "No person or utility shall be granted a permit to excavate or open any street or sidewalk from the time of November 15 of each year to April 15 of the following year".
22. The builder of a facility to which Section 4594-C of the Maine State Human Rights Act Title 5 MRSA refers, shall obtain a certification from a design professional that the plans commencing construction of the facility, the builder shall submit the certification to the Division of Inspection Services.
23. Ventilation shall meet the requirements of Chapter 12 Sections 1210. Of the City's Building Code.
- *24. All electrical, plumbing and HVAC permits must be obtained by a Master Licensed holders of their trade.
25. All requirements must be met before a final Certificate of Occupancy is issued.
26. All building elements shall meet the fastening schedule as per Table 2305.2 of the City's Building Code. (The BOCA National Building Code/1996).
27. Ventilation of spaces within a building shall be done in accordance with the City's Mechanical Code (The BOCA National Mechanical Code/1993).
28. Please read and implement the attached Land Use-Zoning report requirements.
- *29. Please read and implement attached Swimming pool requirements
30. _____
31. _____
32. _____



P. Samuel Hoises, Code Enforcement

cc: Lt. McDougall, PFD
Marge Schmuckal

**THIS IS NOT A PERMIT/CONSTRUCTION CANNOT COMMENCE UNTIL THE
PERMIT IS ISSUED**

**Building or Use Permit Application
Additions/Alterations/Accessory Structures
To Detached Single Family Dwelling**

In the interest of processing your application in the quickest possible manner, please complete the Information below for a Building or Use Permit.

NOTEIf you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.**

Location/Address of Construction: 104 Roaring Brook Rd 04103

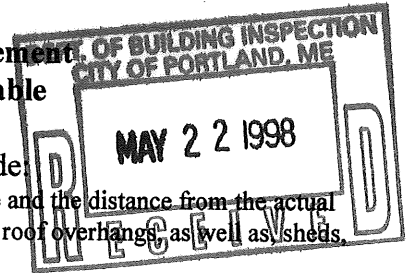
Tax Assessor's Chart, Block & Lot Number Chart# <u>395</u> Block# <u>K</u> Lot# <u>031</u>	Owner: <u>Jean M + Christine Ferrara</u>	Telephone#: <u>878-0881</u>
Owner's Address: <u>Same as above</u>	Lessee/Buyer's Name (If Applicable)	Cost Of Work: <u>\$ 1,600.00</u>
Proposed Project Description:(Please be as specific as possible) <u>Install Pool and additional Deck Area A/G 21'</u>		
Contractor's Name, Address & Telephone <u>Work done by homeowner</u>		

Separate permits are required for Internal & External Plumbing, HVAC and Electrical installation.

- All construction must be conducted in compliance with the 1996 B.O.C.A. Building Code as amended by Section 6-Art II.
- All plumbing must be conducted in compliance with the State of Maine Plumbing Code.
- All Electrical Installation must comply with the 1996 National Electrical Code as amended by Section 6-Art III.
- HVAC(Heating, Ventilation and Air Conditioning) installation must comply with the 1993 BOCA Mechanical Code.

You must Include the following with you application:

- 1) A Copy of Your Deed or Purchase and Sale Agreement
- 2) A Copy of your Construction Contract, if available
- 3) A Plot Plan (Sample Attached)



If there is expansion to the structure, a complete plot plan (Site Plan) must include:

- The shape and dimension of the lot, all existing buildings (if any), the proposed structure and the distance from the actual property lines. Structures include decks porches, a bow windows cantilever sections and roof overhangs as well as sheds, pools, garages and any other accessory structures.
- Scale and required zoning district setbacks

4) Building Plans (Sample Attached)

A complete set of construction drawings showing all of the following elements of construction:

- Cross Sections w/Framing details (including porches, decks w/ railings, and accessory structures)
- Floor Plans & Elevations
- Window and door schedules
- Foundation plans with required drainage and dampproofing
- Electrical and plumbing layout. Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment (air handling) or other types of work that may require special review must be included.

Certification

I hereby certify that I am the Owner of record of the named property, or 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. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: Jean M Ferrara Date: 5/20/98

Site Review Fee: \$150.00/Building Permit Fee: \$25.00 for the 1st \$1000.cost plus \$5.00 per \$1,000.00 construction cost thereafter.

Applicant: Jean Fernandez

Date: 5/27/98

Address: 104 Roaring Brook Rd

C-B-L: 395-K-31

CHECK-LIST AGAINST ZONING ORDINANCE

Date - Existing

Zone Location - R-2

Interior or corner lot - of Parcel -

Proposed Use/Work - New 21' pool - Above ground & small additional deck

Sevage Disposal -

Lot Street Frontage -

Front Yard - N/A

Rear Yard - 10' for pool req - 14' + shown
25' for deck - 30' + shown

Side Yard - 10' for pool req - 10' + shown
12' for deck req - 12' + shown

Projections -

Width of Lot -

Height -

Lot Area -

Lot Coverage/ Impervious Surface -

Area per Family -

Off-street Parking -

Loading Bays -

Site Plan -

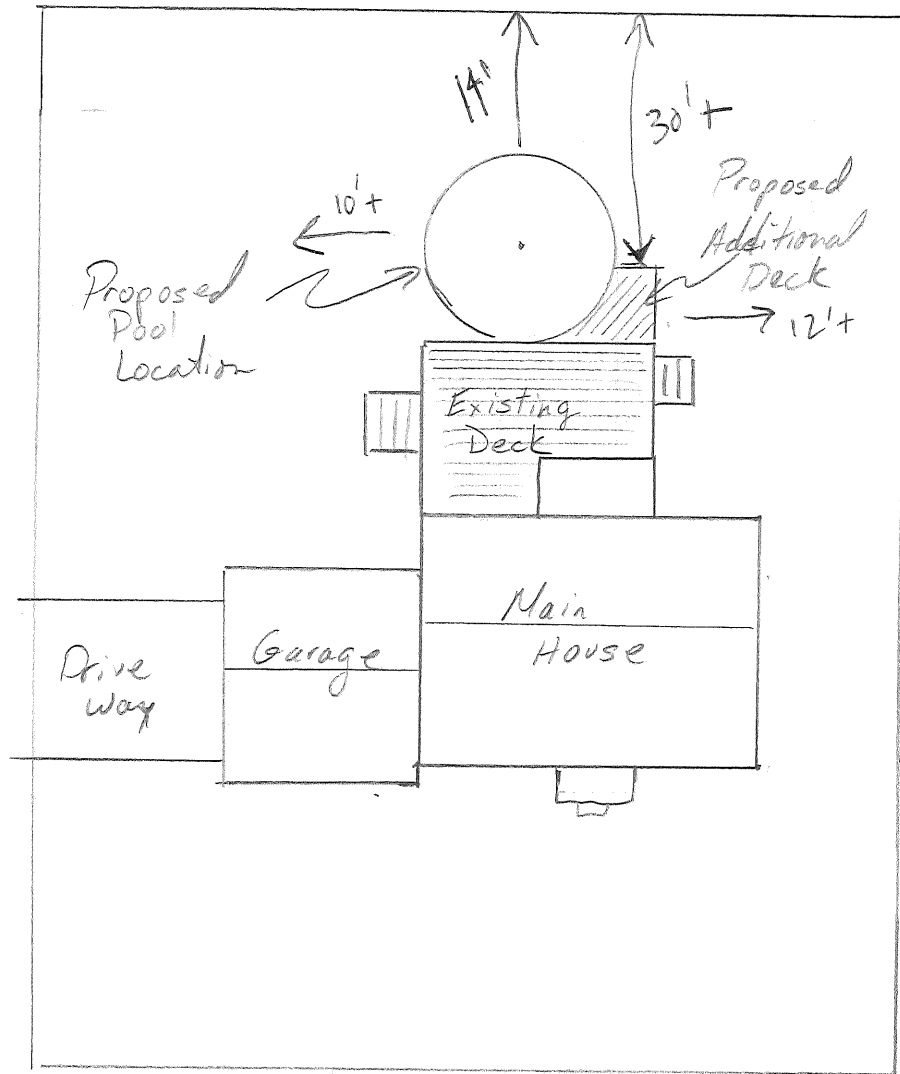
Shoreland Zoning/ Stream Protection - N/A

Flood Plains - N/A

104 Roaring Brook Rd

5/20/98

Pine Loch



per phone conversation with owner (Christine) 5/27/98

Lot size 10,044 sq ft

111'

20'

90'
Roaring Brook Rd

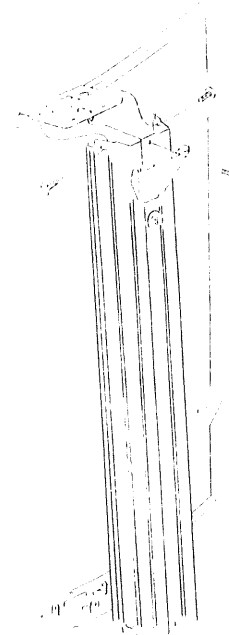
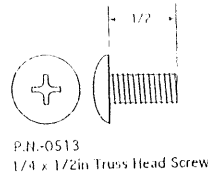
22-141 50 SHEETS
 22-142 100 SHEETS
 22-144 200 SHEETS



10) ASSEMBLING VERTICALS

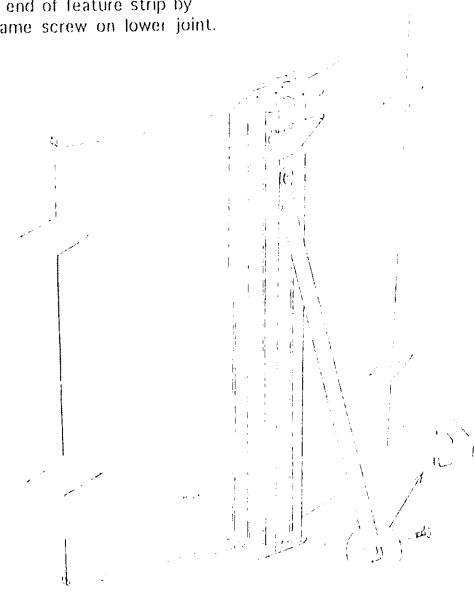
• Use Frame Bolt Package

Starting at the lower joint of the wall closure, Secure the bottom of the vertical to the prongs of the lower joint with 1/4" x 1/2" truss head screw. Do the same with upper joint. Do not tighten until all screws for top and bottom of verticals are in place. Continue installing the verticals in this manner all around the pool. Tighten all screws after all screws are attached. If your pool has feature strip, before tightening screws go to next step

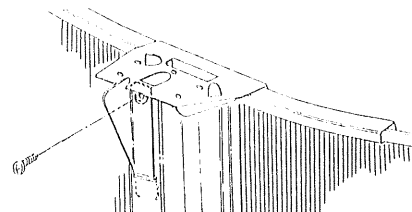


11) INSTALLING FEATURE STRIPS

Slide in feature strip to reinforcing washer. Push up feature strip to the coverbracket, then tighten the bottom end of feature strip by using same screw on lower joint.



For GTH frame ; Joint Bracket assembling. Insert the lower lip of joint bracket into the slit of verticals. And tighten it by using same bolt for upper joint in front. Then tighten two each side bolt on upper joint . DO NOT TIGHTEN until all screws are in place.



12) INSTALLING TOP SEATS

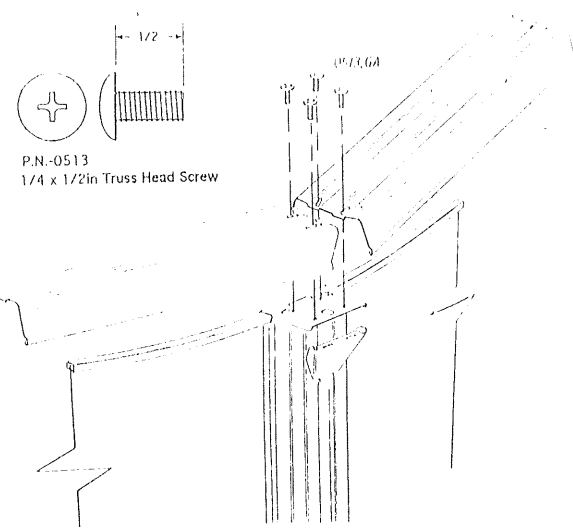
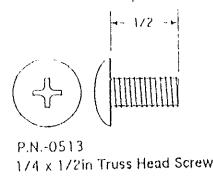
• Use Frame Bolt Package

Place each of the top seats over the upper joints and secure with 1/4" x 1/2" Truss head screws.

Note: There is a front and back side of the top seats. If the holes do not line up perfectly, reverse the top seats so that you do not have to force the holes to line up perfectly.

Install all of the seats in this way around entire pool. Seat sections are installed between the verticals. Each end of the seat section rests on an upper joint and is attach to it. It may be necessary to move the complete verticals slightly to left or right to accommodate the seat. Do this carefully so as not to disturb the earth mound. Check all screws to be sure they are tight.

Note: Do not tighten screws until all screws are attached. TIGHTEN after all screws are attached.



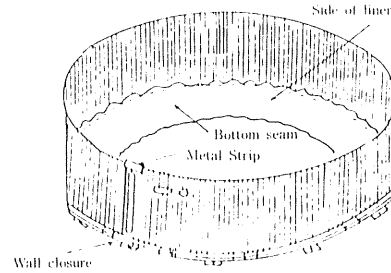
7) LINER INSTALLATION

CAUTION: Remove your shoes. The liner should never be forcefully pulled or dragged, especially when it holds water, even only 1/2". When you enter the pool during installation, use a ladder other than a pool ladder. Make sure the legs rest on a strong flat board

- Step 1: Open the liner carton carefully by removing the tape. (Do not cut open carton.)
- Step 2: Unfold the liner inside the metal wall. Carefully spread it out on the ground. The seam around the bottom of the liner should be well up the earth mound. Do this evenly all around pool.
- Step 3: Remove top rail temporarily placed, Place the metal strip over the wall closure. Lift the side of the liner over the top of the wall. Form a collar approximately 3" down the outside of the wall and temporarily tape it, to the outside of the wall using masking tape at intervals of 3'.

Step 4: Take the plastic edging and clip it over the liner and the top of the wall. The ends of each section of edging should touch each other. The edging forms a full circle all around. Cut off excess plastic edging

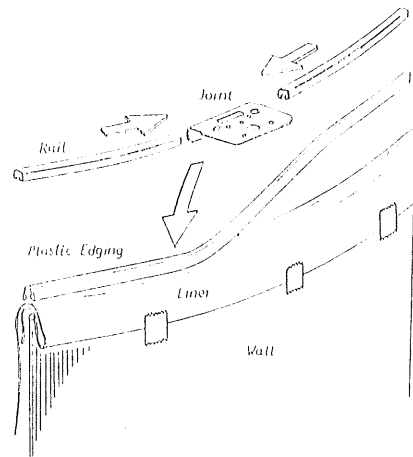
If the liner does not fit evenly around the pool. Remove the masking tape gently from the collar of the liner and wall. Smooth out all wrinkles on the bottom of the liner. There may be extra material around the side. Spread it evenly all around the side of the pool. There may be extra material in height.



8) INSTALL THE TOP RAIL, UPPER JOINT

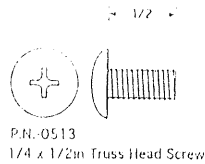
Lay out these parts on the ground alternating upper joints and rails at the same position with lower rails assembled before. Insert the top rail into upper joint, Clip a rail over the plastic edging and top of the wall as shown at right. Clip all rails and upper joints over the wall in this way until the entire top rail is formed.

NOTE: Be sure upper joint is directly above lower joint. Check the seam at the bottom and side wall of the liner. It must rest well up the earth mound evenly.



9) PRE-ASSEMBLING VERTICALS (6S, 7H, 8 FRAMES ONLY.)

Use Seat cover, bracket & Feature strip Assembly Bolt Package

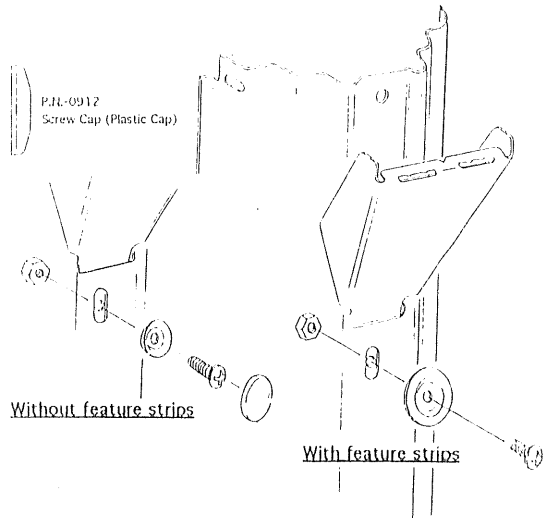
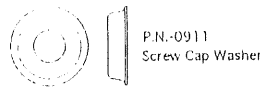


With feature strips

Insert cover bracket into the slot of vertical, and put 1/4inx1/2in Truss Head screw with reinforcing washer (0411) then fasten by 1/4in nut as shown in picture.

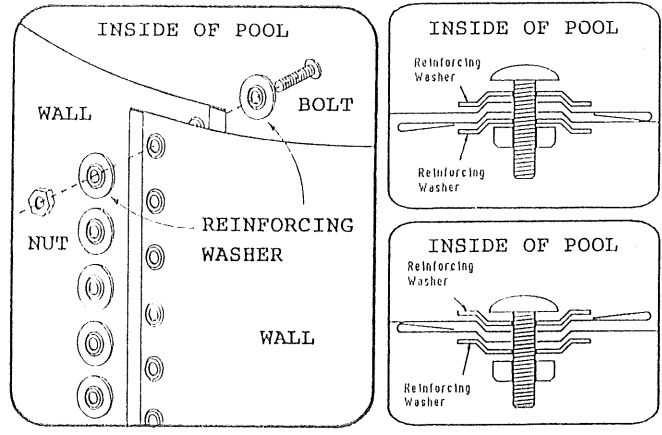
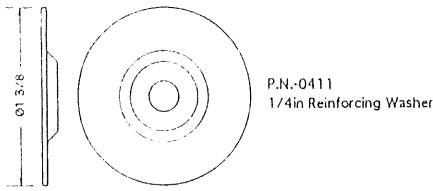
Without feature strips

Insert cover bracket into the slot of vertical, and put 1/4inx1/2in Truss Head screw with cap washer then fasten by 1/4in nut, put screw cap after tightening screw as shown in picture.



4) INSTALLING WALL

- Use Wall Joint Bolt Package packed in a Wall Carton.

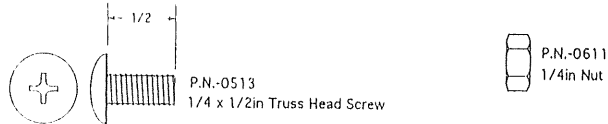


Due to the weight of wall, some bending will occur in the top and bottom corrugation, because the wall is built to flex. Simply bend those sections back before inserting wall in top or bottom rail.

- Step 1: It is practical if two people work together; one inside and one outside of the pool.
- Step 2: Place coiled wall near bottom rail one section open.

Note: There is an up and down side on steel wall. Locate the skimmer cutouts which are near the outside end of the wall. These cutouts must be at the TOP even if you will not be using these cutouts.

- STEP 3: Bring the wall close to the bottom rail. Make sure there is nothing in the bottom rail before inserting the wall. If there is earth or something is in the bottom rail, take out it accordingly. Begin to insert end of wall into bottom rail. One person unwinding wall (wall should be on a plywood base for ease of rotating) while the other person is feeding wall into slot of bottom rail around entire pool. As you unwind the wall and insert it into the assembled bottom rails, temporarily place top rail sections on top of the wall. This will help to prevent the wall from bending or falling over. Should the wall be either too short or too long, adjust bottom rails. The circumference of bottom rails can be adjusted slightly by equally tapping outward or inward at the each lower joint until the wall ends meet.
- Step 4: Bring the two open ends of the wall together as shown above. This is one of the most important steps in assembling the pool. Pay close attention to the following points.



DO NOT FASTEN THE WALL WITHOUT USING THE REINFORCING WASHERS ! FAILURE TO USE REINFORCING WASHERS AS INSTRUCTED WILL CAUSE WALL TO SPLIT WHEN POOL IS FILLED. THIS CAN CAUSE SERIOUS PROPERTY DAMAGE AND/OR BODILY INJURY.

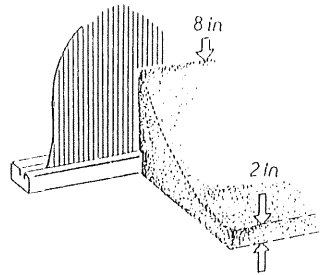
INSERT THE SCREWS FROM INSIDE OF WALL. NUT MUST BE FASTENED FROM OUTSIDE OF WALL.

- * Reinforcing Washers must be on INSIDE and OUTSIDE of wall.
- * Insert the screws from INSIDE of the wall.
- * Insert and fasten screws from hole to hole down to the bottom of the wall. Do not fasten tightly before insert all screws.
- * Fasten all screws tightly.
- * Do not leave any open holes.
- * Cover all the screw heads with strip of fabric tape.
- * Check the level of the top of the wall, if more than 2" off level, Rework the ground to achieve levelness.

5) BUILD AN EARTH MOUND (cove)

Build a mound 8" high and extending 8 to 10" on the ground around the inside of the pool wall. Pack the earth gently but firmly.

IMPORTANT: The earth mound must be built right. you must rebuild the earth mound each time you set up the pool. Water pressure can force the liner out under the bottom rail. If this is not done, this could cause damage to the liner and void warranty. The earth mound will prevent this from happening.



6) THROUGH THE WALL SKIMMER

- Step 1: For anti-rusting, All edges of cut out have to be covered by vinyl tape or rusting paint. Begin the installation of the through the wall skimmer. Follow separate skimmer installations.

At one point during the installation of the skimmer, you have to install the liner. The skimmer installation will tell you when. Complete the installation of the liner as described next. Then finish the skimmer installation.

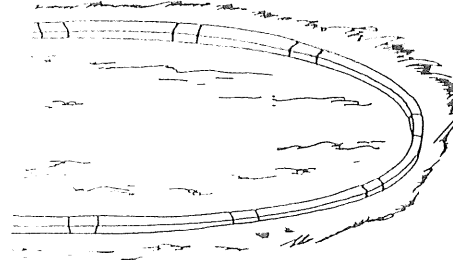
2) GROUND PREPARATION

The preparation of the ground is the most important step in the installation of the pool.

- a) Mark off your pool area by driving stakes. Have a helper hold a tape measure or a string and mark off the pool perimeter using flour or chalk. Remove sod inside the pool area to a distance of 1 foot beyond dimensions shown in the plot layout around entire perimeter of pool.
- b) Remove all grass from within the entire pool area. It is not enough to just cut the grass. The sod must be removed.
- c) Two or three inches of sand is the best for your liner. Using sand eliminates the necessity to level inside of frame area except where exceptionally high or low areas exist. These areas should either be dug or filled in. This does not mean the perimeter or frame area. That area must be firm and level by digging only.
- d) Do not fill low spots in the area where pool wall will rest, as setting may cause your pool to become out of level. Making sure pool bottom is flat. This is a must.
- e) If your site is not on firm soil, use 2" patio blocks for the base of the wall. Care should be taken to center a patio block under each bottom plate.

Wall Length as below;

12' Diameter Pool	446	11/16 inch
15' Diameter Pool	564	3/8 inch
18' Diameter Pool	673	13/16 inch
21' Diameter Pool	783	3/4 inch
24' Diameter Pool	893	15/16 inch
27' Diameter Pool	1,004	9/16 inch



6" cleared ground

3) ASSEMBLING BOTTOM RAIL

- STEP 1: Before proceeding, remove the steel wall from carton and stand on a 3'x3' board inside pool area as shown at right. Put the liner, (leaving it in the carton) inside pool area.
- STEP 2: Insert the bottom rails around the entire perimeter using lower joints on the circular portion of the pool. Leave one section open that will be nearest to where you will locate your filter.

Before proceeding to the next step, place a large amount of sifted earth in the middle of the circle. (see chart for the amount on the first page.)

Sifted earth should not contain any pebbles. Place a patio block under each lower joint around curved area.

