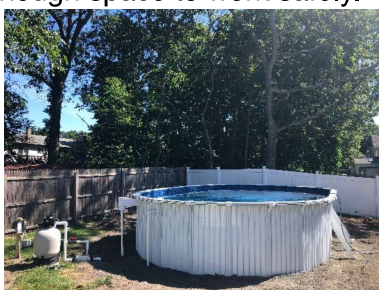
Basic Installations procedure for Aquasport 52 Pool.

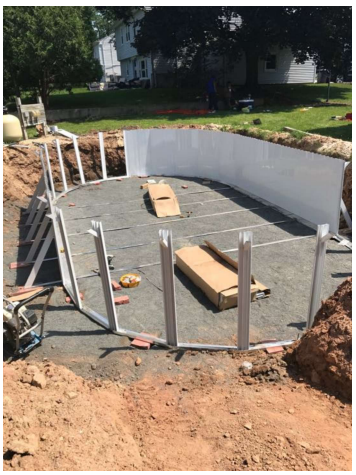
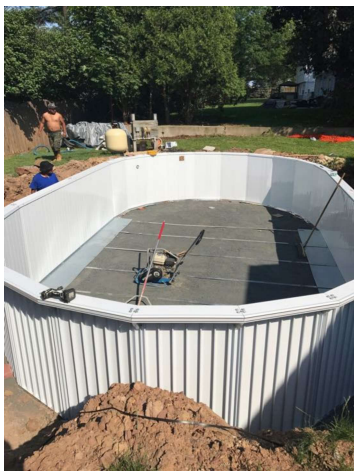
Pools & More 888 89 POOLS

Installation of the pool above ground, semi in-ground or fully in-ground does not vary, steps are exactly the same for all installations. No concrete collar is required for semi and fully in-ground installation. This is a flat bottom pool, no deep end. Interlocking aluminum panels ensures a tremendous structural strength. For semi in-ground or fully in- ground installations please make sure you excavate 3 feet more around the perimeter of the pool, this will ensure you have enough space to work safely.



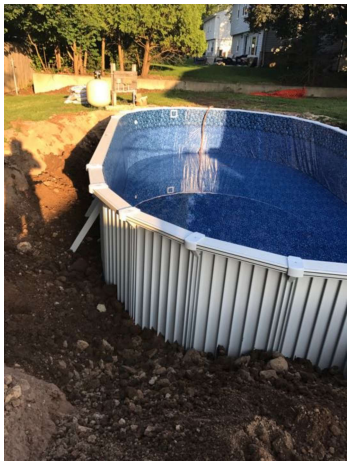
Step 1
Excavate, level and prepare the location of the pool. Lay a 2” layer of stone dust as a base for your pool and tamp it down, check levelness after tampering. If you are within 1/2” all around you are good to proceed to next step.

Step 2
Assemble the frame of the pool and check for levelness around the perimeter of the pool again.Place patio blocks under the frame work to ensure levelness.


Step 3
Bring in the mason sand that will be used for the bottom of you pool. Spread it around as evenly as possible, wet it down and tamp it. Wet it again before installing the liner.

Step 4
Install the liner and proceed with filling with water.



Step 5
Backfill around the pool. For fully in-ground pools is advised 6 weeks waiting period before any decking can be installed around the pool. This will ensure that the ground will settle on its own and will prevent sinking.

Step 6
Finish the surroundings to your liking and enjoy your new pool.

BEFORE

AFTER

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INSTALLATION INSTRUCTIONS

INTRODUCTION

These instructions have been prepared by the manufacturer to assist you in the installation of your new swimming pool. Read these instructions thoroughly before you begin the pool installation. Open the cartons and familiarize yourself with each part from its description in the parts list. Then follow the installation procedure in the order given. Do not deviate from the instructions. Do not take short cuts. The warranty is not valid if the instructions are not followed.

IMPORTANT

If you are adding any additional added value components to your pool, such as fencing, patio decks, side decks, end decks, or complete walk arounds, it is important to review those instructions before installing the pool. Pay particular attention to the prior attachment of fence/deck support brackets to specific uprights and buttressess, before assembling these specific uprights and buttresses to the bearing plates.

SELECTION OF POOL SITE

Before proceeding with the installation, consider these items in choosing the location of you pool. Look over your property for the most ideal location. A large area is best. If you have no flat area large enough for the pool, then try to pick a spot where you would have the least amount of digging to do. Do not install your pool with any of the pool wall area underground or located in a major water drainage depression or sewer drain field.

A. The area should be large enough to allow space for lounging chairs, tables and accessories as well as the pool ladder and filter.

B. The pool filter is electrically operated, so provision must be made for an electric supply.

C. It is important that the ground surface be firm and solid. The area must be free of glass, stones, roots, and sharp objects. Any stones or roots flush or below the ground surface must be removed. The earth below the pool will compress under the weight of the water and will expose these items to the liner causing damage. Any grass under the pool will rot and give off an unpleasant odor.

D. Avoid installing your pool on ground that has been recently treated with oil base weed killers, chemicals, or heavily fertilized. Avoid areas growing nut grass or Bermuda grass. (These grasses can grow up through the pool liner.)

E. Do not install the pool on asphalt, gravel, peat moss, wood, tar paper, or over any area recently treated with chemicals.

F. The pool should never be placed directly under overhead powerlines for precautionary measures. In some communities this is against the law.

G. Before you start digging into the ground to level the surfaces, it would be wise to check with your telephone, electric, and gas utilities for the location of any underground lines or pipes.

H. Trees and their occupants are not the best of friends with swimming pools. Falling leaves, branches and sap can be a constant problem in keeping the pool water clean. (along with bird droppings and insects falling into the pool). These materials will necessitate cleaning your filter unit more often. The further away from a tree the better for your pool.

IMPORTANT

Before beginning your pool installation, take a few minutes to consider the following points:

1. Check easement requirement.
2. Check wall clearances.
3. Check decking clearance.
4. Avoid overhanging eaves.
5. Avoid overhead power lines.
6. Avoid trees and leaves falling into the pool
7. Avoid roots, underground piping and cables.
8. No sudden slopes within 6 feet of pool.
9. Keep sprinklers away from pool walls.
10. Avoid sun reflection into residence.
11. Allow 6 inches of undisturbed soil around pool.
12. Be able to view children near pool.
13. Determine filter and pump location.
14. Locate convenient electrical outlets for filter and pump location.
15. Check prevailing winds.
16. Avoid windy days during installation.
17. Do not install liner on any abrasive area such as concrete, asphalt, peat moss, tar paper, gravel, wood, top of grass or recently chemically treated soil.
18. Do not install liner on nut grass or bermuda grass. See your dealer for special instructions.
19. Rid pool area of burrowing pest and insects such as gophers and termites.
20. Have 2 or 3 helpers when installing pool.

TOOLS

The following tools will be required for installation:

Regular Screw Driver	Measuring Tape
Phillips Screw Driver	Smooth File
Wrenches	Level
Peg or Stake	Hammer
Rake	Straight Plank
Shovel	Emery Cloth

Tamping Tool
Roller (if available)
Sharp knife/Razor Blade
Silting screen (to remove 1/8" pebbles or larger)

MATERIALS

The following materials will be required for installation:

12" X12" Patio Blocks, Cord
Duct or Masking Tape, Wood Stakes

ELECTRICAL REQUIREMENTS:

All Electrical Components installed in and /or adjacent to an aboveground/onground residential swimming pool shall comply with the requirements of **Article 680 of the latest revision of the National Electrical Code 2002(NEC*)** and any state or local code to apply the NEC's interpretation of the electrical requirements .We refer you to ANSI/NSPI-4 Dated 1999 Section 13.1.2

WHICH STATES AS FOLLOWS:

"The National Electrical Code 2002 defines Permanently Installed Swimming, Wading and Therapeutic pools as **Pools that are constructed in the ground or partially in the ground, and all others capable of holding water in a depth greater than forty-two inches (42"), and all pools installed inside a building, regardless of water depth, whether or not served by electrical circuits of any nature.**

If you elect to have the pool partially installed in the ground, there are several areas of concern alerting you to potential significant problem areas that must be addressed.

A. The pool installed partially in the ground, appears to be an Inground Pool, and therefore creates an invitation for an individual to dive into the pool, regardless of the safety labels affixed to the Top Rails, Wall and Liner. All pool users must be alerted that this is an above ground pool. Diving and Jumping are prohibited.

B. Placing the pool structures partially in the ground accelerates corrosion of the metal parts. Preventative measures must be taken to retard this accelerated deterioration. Installer surface preparation and treatment must be administered to all structural parts, prior to being placed partially in the ground. This reduces the accelerated deterioration. It does not eliminate the problem.

FILTERS

Filtration is a mechanical means for removing small particles of dirt and sediment from the pool water. Your pool filter and other accessories are operated by electricity. You must have all outside electrical outlets installed by a qualified electrician in accordance with National Electric Code 680. Filter, hand skimmers, and vacuum cleaners are available at your pool dealer.

WATER CHEMICALS

All pools, whether filtered or not, require purifying or sanitizing of the water. The most common pool chemical used for this purpose is chlorine. It is available in various containers as a powder (granular), tablets and liquid. Follow the directions on the container. Always dissolve the tablets or powder before putting it into the pool. Proper daily chlorination of pool water, even when the pool is not used, will insure a sparkling, algae free, healthy pool. Familiarize yourself with common vocabulary terms in Advisory X.

DISASSEMBLE AND STORAGE

Do not remove the water from your pool. It has been designed to remain installed and filled with water all year round. We recommend the use of a pool cover to protect it and keep it clean when not in use. If you decide to disassemble the pool, drain and reverse the installation procedure.

Clean and dry the pool liner before packing

Put all hardware in a container

Stack and tie the pool walls

Clean and dry all frame parts

Initial investigation of local requirements for swimming pools and a clear understanding of the construction techniques contained in this instruction manual will save your time and effort, otherwise wasted.

LOCATION

Select a location for your pool. Check the local building codes, regulations and ordinances that may pertain to your particular community. If necessary, obtain a building permit before actual installation has begun.

LAYOUT

Next, make a rough layout of the pool area. At this time, consider the location of your filter and patio deck. It is recommended that the skimmer and filter be no more than ten feet apart to maximize filtering efficiency.

1. Select the location of your pool away from trees. Use stakes and string to designate the excavation and pool area. See Fig. 1 for determination of excavation and pool area.
2. Level the ground down to undisturbed earth. Set the stakes to represent the actual pool swim area. Check the measurements across the pool to be sure that these are equal. This will assure you that the pool is laid out square. See Fig. 2A, 2B, & 2C.

3. Have sufficient sand put into the center of the pool. This will spread later after initial construction is completed. Refer to the chart below for sand requirements.

08'	1 yard
12'	1-2 yards
15'	1-2 yards
18'	3-4 yards
21'	3-4 yards
24'	4-5 yards
10X15	1-2 yards
10X18	2 yards
10X22	2-3 yards
12X18	2-3 yards
12X20	2-3 yards
12X24	3 yards
15X23	3 yards
15X27	4 yards
15X30	4 yards
17X32	4 yards

Note: Sand for the pool bottom should be a high grade, washed sand free from rocks, stones, sharp objects, and miscellaneous debris.

INSTALLATION OF SILLS

1. Pick up two Sills, **Part No. BT** and one Bottom Splice Plate, **Part No. SPB.** Connect the Sills, **Part No. BT** together with the Bottom Splice Plate, **Part No. SPB** using two (2) 1/2x1-1/4 Bolts and Nuts, **Part No. SC4.** See Fig. 3

2. Repeat this procedure with all of the sills until a circle is formed for a round pool or two half circles are formed for an

oval pool. The miter joints at the Sills **must be** centered directly over the patio blocks. See Fig. 4A, 4B, 4C & 4D.

LEVELING---PATIO BLOCKS

Place the patio blocks at each miter joint of the pool where the vertical buttresses are to be placed. For ovals, add additional blocks along the straight side where the Buttress Braces attach to the sills and place your Bottom Straps parallel to each other apart on previously placed 2x8 planks See Fig. 4E, 4F, 4G, 4H & 4I.

OVAL POOLS ONLY PRE-ASSEMBLY OF STRAPSETS, ANGLE, CLIP AND OVAL BOTTOM RAIL

1. Attach Strap Angle, **Part No. SAOV** to Buttress Brace Oval Strap, **Part No. TROV** using two (2) 1/4-20TR Screws and Nuts, **Part No. SC1.** Repeat this procedure **SIX** times for a 10X15, 10X18, 12X18, 12X20 & 1523, **EIGHT** times for a 10X22, 12X24 & 15X24, **TEN** times for a 52" 1527. **TWELVE** times for a 1530 & 1732. See Fig. 5

2. Pick up the Oval Bottom Rail, **Part No. OVBR**, Strap Angle, **Part No. SAOV**, and Buttress Brace Oval Strap, **Part No. TROV**. Attach the components together through the preriveted U-bracket, **Part No. UBR** using one (1) 3/8-16 Screws and Bolts, **Part No. SC2.** There are **three strap** sets for a 10X15, 10X18 12X18, 12X20, & 15X23, **four** strap sets for an 10X22, 12X24 & 15X24 , **FIVE strap** sets for a 15X27 and SIX strap sets for a 15X30& 1732 to be connected on each Sill. See Fig. 6

3. Pick up the pre-assembled Side Sills and place them on opposite sides of the pool. Using four (4) 1/2X1-1/4 Bolts and Nuts, **Part No. SC4**, attach the Side Sill to the two half circles with the Oval Splice Plate, **Part No. SPOV** for the right side and **Part No. SPOV** for the left side. Duplicate the procedure at all four joints. Check for the alignment of the joints so that they are on top of the patio blocks.

4. Using two (2) 1/2X1-1/4 Bolts and Nuts, **Part No. SC4** attach the Bottom Strap, **No. TROV** to the Oval Bottom Track, **No. BT.** See Fig. 7

5. Attach Buttress Upright, **Part No. OVBU** to Buttress Brace, **No. BUBR** using two (2) 1/4-20X2TR Screws and Nuts, **Part No. SC3.** See Fig. 8 Attach Buttress Brace, **Part No. BUBR** to Strap Angle, **Part No. SAOV** using two (2) 10X5/8 Screws, **Part No. SC1.** See Fig. 6. Repeat this procedure for all Buttress Sets.

INSTALLATION OF ROUND BUTTRESS UPRIGHTS

Insert and center one (1) Round Buttress Upright, **Part No. BURO** into the Track at each Round Miter Joint all around the pool. Attach the Buttress Upright to the Bottom Track with two (2) 1/4-20 SS Screws and Nuts, **Part No. WSC.** See Fig. 9. Use Buttress Uprights marked OVAL SIDE ONLY, AT THE FOUR TRANSITION POINTS FROM ROUND TO OVAL FOR THE FOLLOWING SIZES, 1015, 1018, 1022, 1218, 1220, & 1224.

INSTALLATION OF VERTICAL WALL PANELS

Prior to installation, the location of the filter must be determined. Start at one Round Buttress Upright, **Part No. BURO** and insert one (1) Wall Panel, **Part No. 1G. Make sure the slotted hole in the wall panel is at top of each panel.** Make sure buttress assembly is inside the wall panel on the straight side of oval pools. Attach the last wall section to the next Buttress. Continue this procedure until the entire Wall is completed. See Fig 8a & 10.

OVAL HOLD DOWN SHEETS

Make sure that the Hold Down Sheet, is up against the Bottom Oval Rail. Repeat overlapping the Hold Down Sheets, for the length of the straight side of the pool. Use wide duct tape, to **cover all top and side raw edges** of Sheet See Fig. 12. Use ¼-20 x 5/8TR and Nylon nut to fasten hold down sheet to Sill, after drilling a .265" hole.

WALL SKIMMER & RETURN WALL PANELS

Special skimmer, **Part No. WSKP** and return Wall Panels, **Part No. WRP** must be positioned where the Filter is to be placed. Remember all Wall Panels **must** be perpendicular **(90 degree)** to the Bottom Sill. Check with a level.

CONNECTING TOP RAILS

Lift the proper Toprail for the section of the pool and place it next to the wall sections of the pool. Move the Toprail, **Part No. TR**, into the position where the wall sections fit under the front nose of the fascia. Make sure the mitred corners line up with the Buttress Uprights and Top Bearing Plates. Attach the Toprail to the Buttress with two (2) 1/4-20Nylon and 1/4-20X5/8TR Screws, **Part No. WSC**. Connect the Toprails together with four (4) 1/2-13X1 Bolts and Nuts, **Part No. SC4** through the Top Bearing Plate, **Part No. BPT**. See Fig. 11

WALL PANEL/BOTTOM SILL ASSEMBLY

Drill a .265" hole through the Wall Panels, **Part No. 1G**, using a predrilled hole in the Straight Bottom Rails, **Part No. BT** as a guide. Secure the Panels tightly with one (1) 1/4-20X5/8 Screw and Nut, **Part No. WSC**. See Fig. 11

TOP CAP SETS

Place the Inside Cap, **Part No. 12A** and the Outside Cap, **Part No. 12B** over and covering all of the seams, where the Top Rails meet at the Top Bearing Plate, securing the Caps, **Part No. 12A** and **12B** to each Bearing Plate with one (1) 14X1" Screw, **No. HDS** Fig. 15 & 16.

PREPARATION SAND BOTTOM

Preparing the sand bottom is a very important step in the installation of the pool. The spreading and smoothing of the sand bottom is done after the pool walls are erected and the bottom is shaped but before the installation of the liner. The pool should be completed to a point where the liner can be installed immediately after the sand is troweled n place. Your pool has a **Flat Bottom;** be sure to tape all exposed Bolts and Bottom Sill sections. Be sure all Splice Plates are in place, bolted securely, and all protruding stones have been removed from the sand.. Spread two (2) inches of stone free sand over the Bottom Metal Sills of the pool. Create a six (6) inch Sand Cove around the entire inside Bottom Perimeter of the pool. Tamp sand firmly with a hand tamper. Wet the sand with a fine water spray for easier working

and better results. Smooth the sand by troweling by hand the entire bottom of the pool. The installer may kneel on planks or boards to avoid knee prints and will find it easier to trowel. When troweling has been completed, clean the pool walls to remove any sand that may cling to the vertical wall panels.

LINER INSTALLATION

Check all screws, making sure all are tightly secured. Tape all metal edges, sharp corners, and unused knockout plugs in the Skimmer, Wall Panel, and Return Outlet. Any **untaped sharp edges** will damage the Pool Liner. Utilize one inch wide vinyl electrical tape. Before you open the Liner Box, be certain there are no sharp stones or objects in the area.

Read the instructions on the Liner Carton to properly position the Liner Unroll the Liner. The Liner is fan folded and will unfold as the leading end is pulled down the length of the pool. Three people can handle this task. Position one person at each third of the liner at the width of the pool. Make sure one person is in the middle. Pick up the Liner stretching it to its full width. Keep the Liner high off the bottom of the pool and off the sides of the pool, so it neither drags or scrapes along the pool walls nor disturbs the troweled bottom.

Once the Liner is completely suspended over the pool, slowly lower the Liner into position of the pool floor. **Snap** the Liner into the Extruded Top Rail Liner Holder. Center the Liner in the pool by centering the floor of the Liner, and the seams of the Liner, in the floor at each end of the pool.

Begin to insert the Liner Bead into the Liner Holder at the front end of the pool wall. Once the Liner has been inserted into the first two Top Rails, pull and stretch to insert the Liner among the remaining Top Rails of the pool. Care must be taken to pull hard so as to remove all wrinkles. Complete all but six inches of insertion along the last top rail. Insert a heavy duty vacuum cleaner hose at this point. Place it between the Pool Wall and the Liner. Fasten the hose so that no air can get out, except through the hose. The action of the vacuum will draw out the air behind the pool walls, thereby creating a pressure which will force the Liner flat against the Pool Walls and ultimately remove all wrinkles along the sides and bottom of the pool. If there is an excessive amount of wrinkles, or if the Liner is not accurately located, turn off the vacuum and relocate it to a better position. Keep the vacuum in operation until the water in the pool has filled the Flat Bottom of the pool to a depth of 3 to 4 inches.

Note: All through the Liner placement procedure, do not disturb the smooth finish of the sand bottom by poking at wrinkles with sticks or poles—or worst of all by walking along the bottom. USE PATIENCE AND CARE!

THRU WALL SKIMMER, RETURN AND OTHER FITTINGS

As the water reaches the height of the various fittings, you are ready to install the Front Plates of your fittings. Be sure you have Gaskets for the Skimmer and Return Fittings before you start. Place the Gaskets and Face Plate in position to install the Screws. Take a sharp tool, such as an ice pick, and pierce a hole through the Face Plate and Liner into the fittings. Install the Screws through the Face Plate and tighten carefully. Take a sharp knife or razor blade and trim the Liner around the opening neatly. Check both sides of the fittings for leaks and adjust accordingly.

POOL GROUND LAYOUT

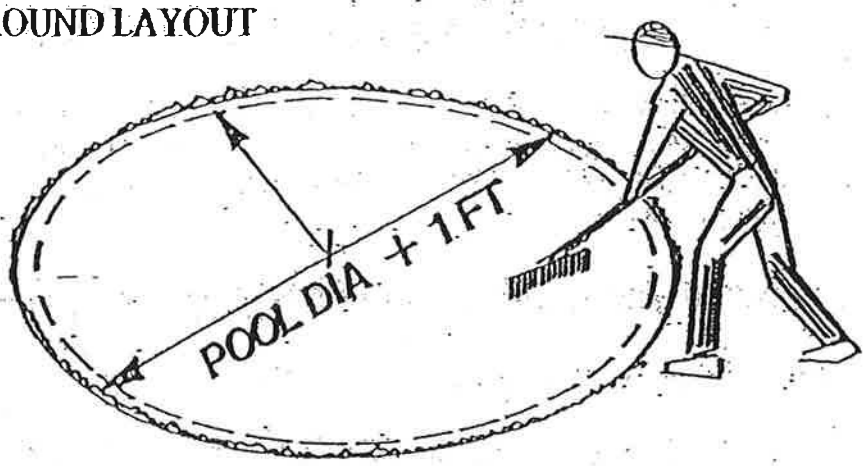


FIG. #1

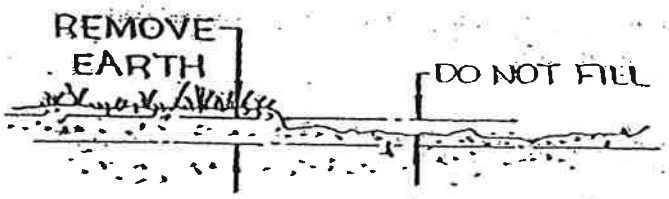


FIG. #2A

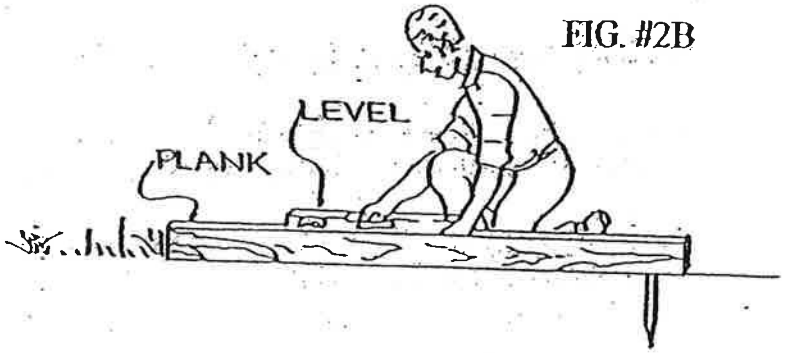


FIG. #2B

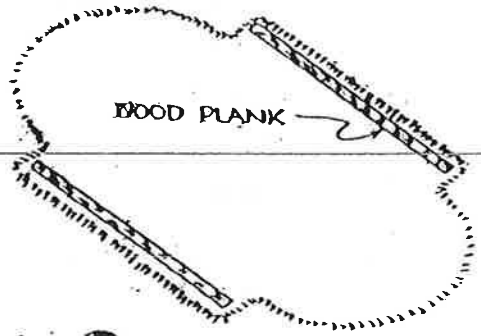
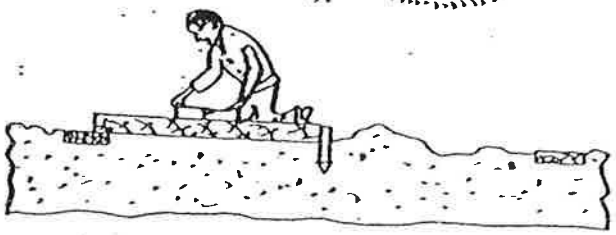


FIG. #2C



ROUND BOTTOM SILL INSTALLATION

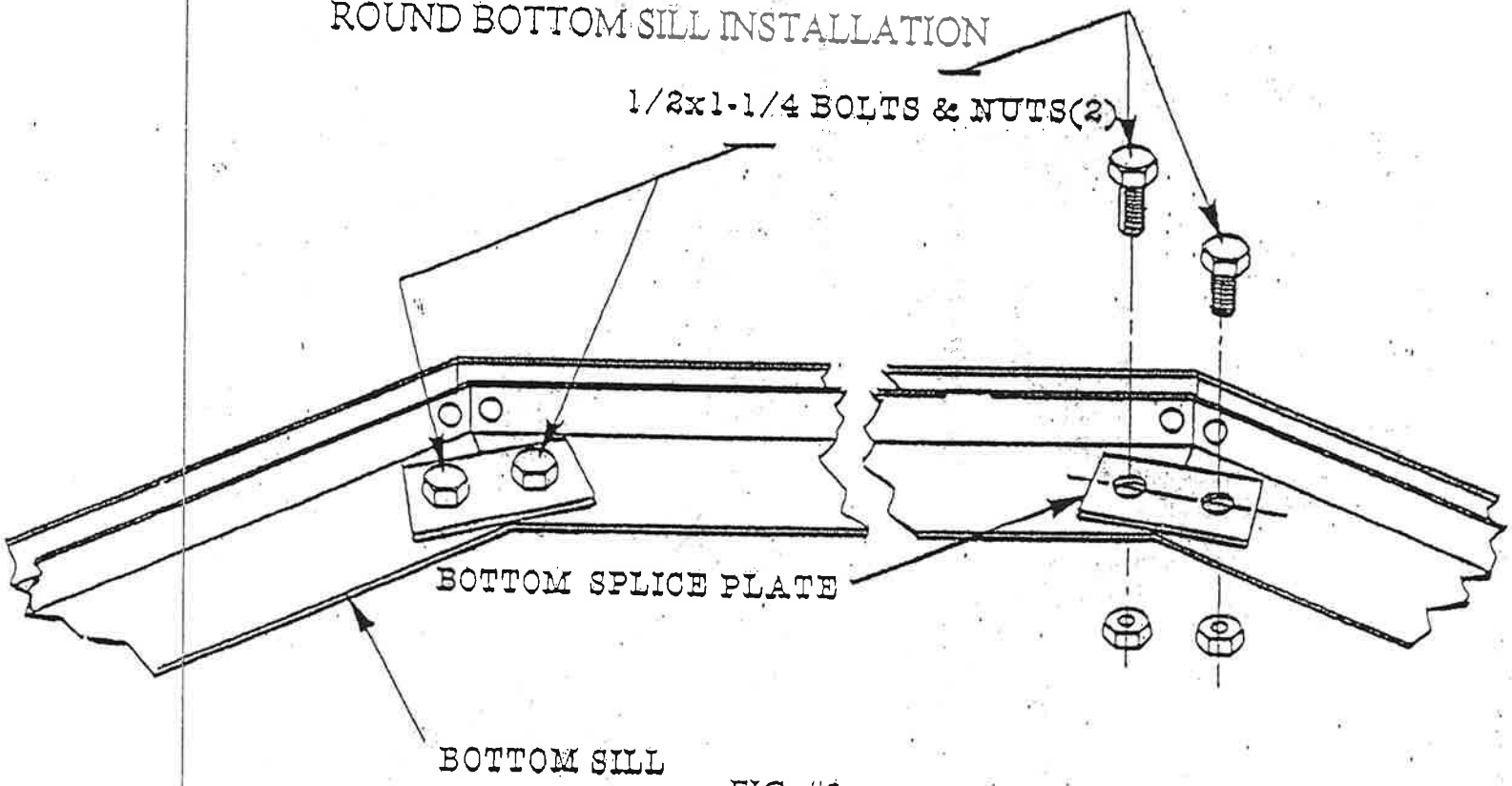
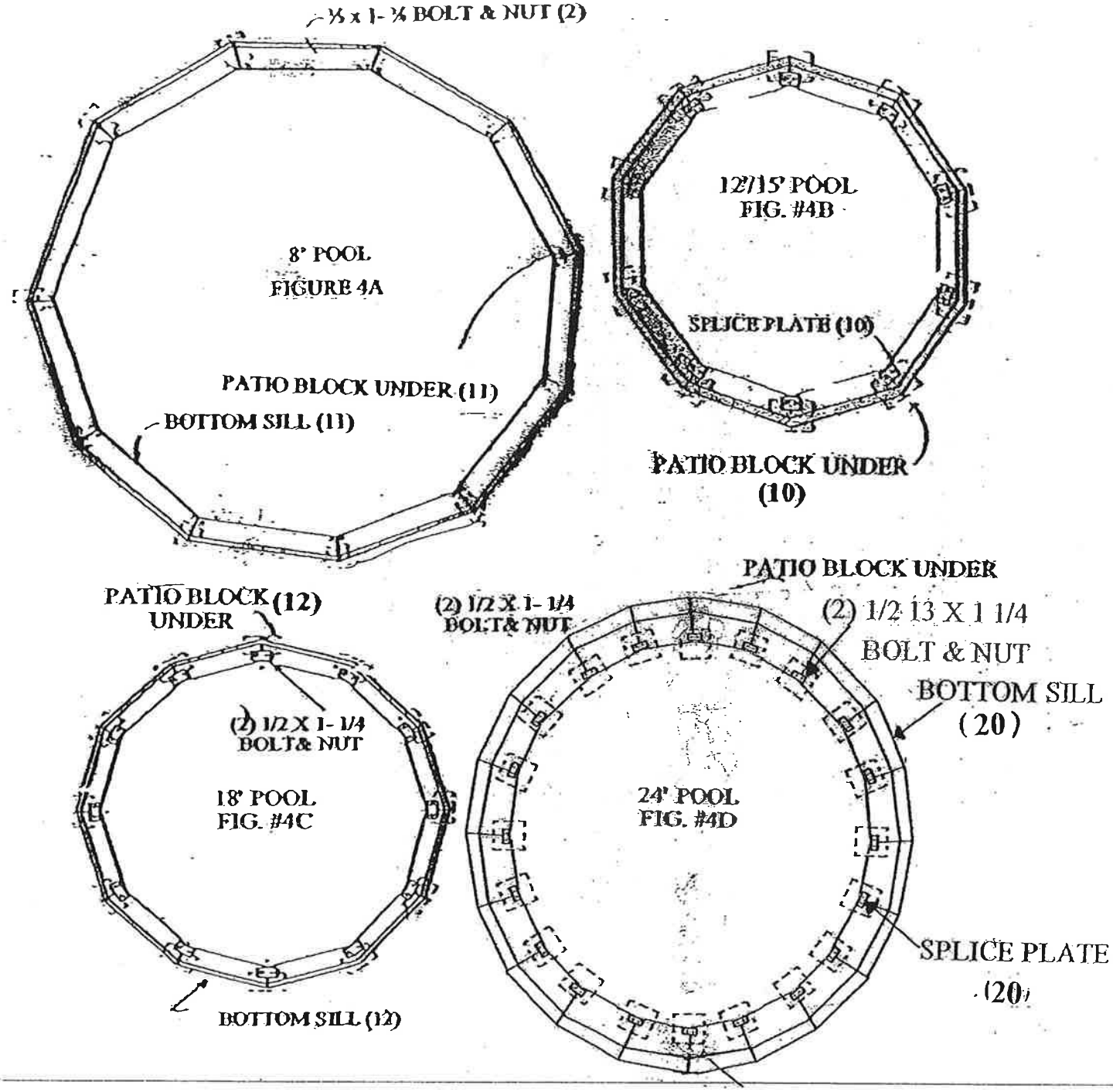
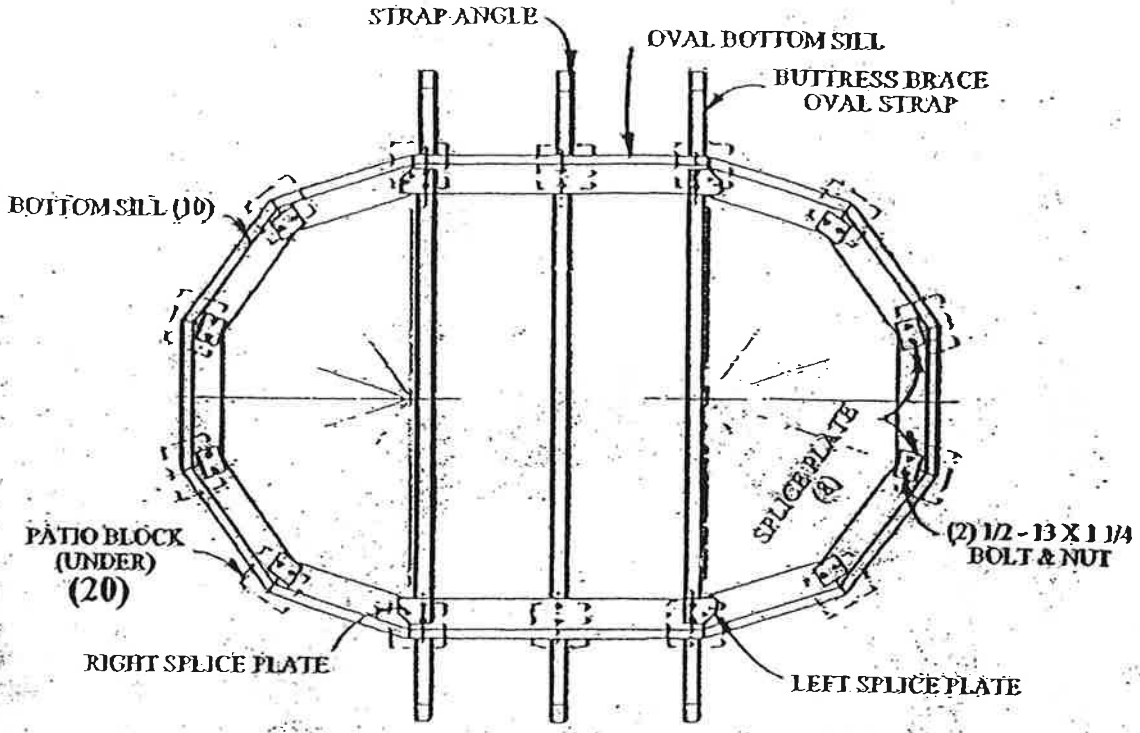


FIG. #3

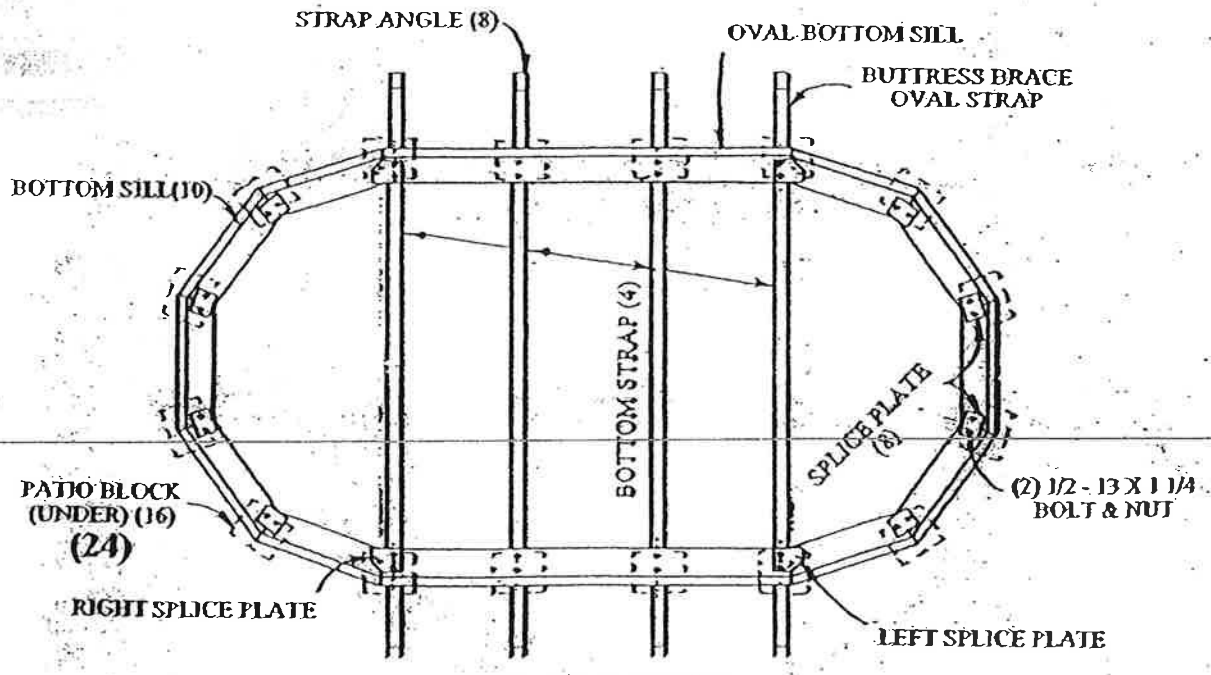
ROUND BOTTOM SILL ARRANGEMENT



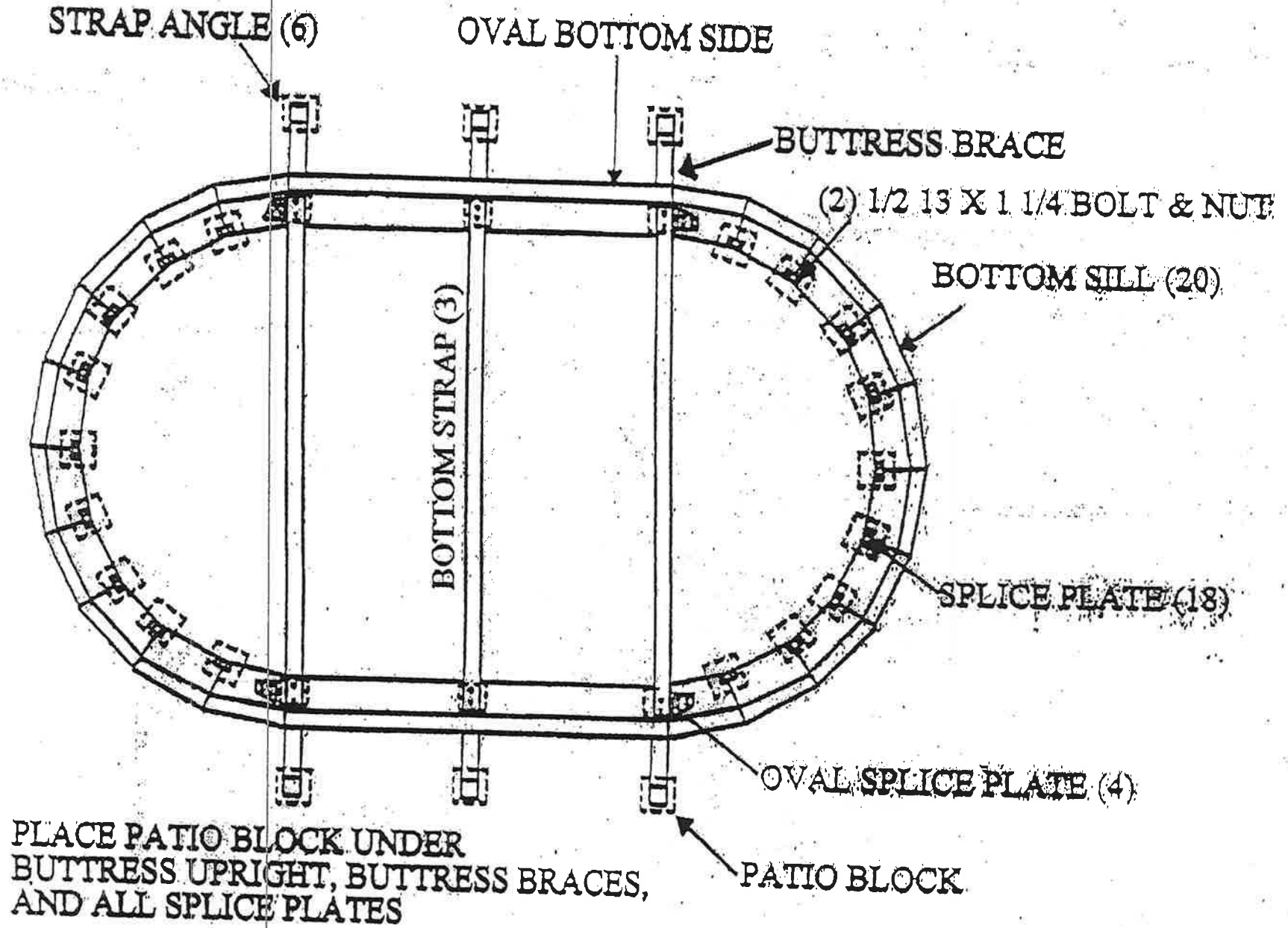
OVAL BOTTOM SILL ARRANGEMENTS



1015,1018 , 1218, & 1220 POOL
FIG. #4E



1022,1224 POOL
FIG. #4F



15X23 52 INCH POOL ONLY

FIGURE # 4G

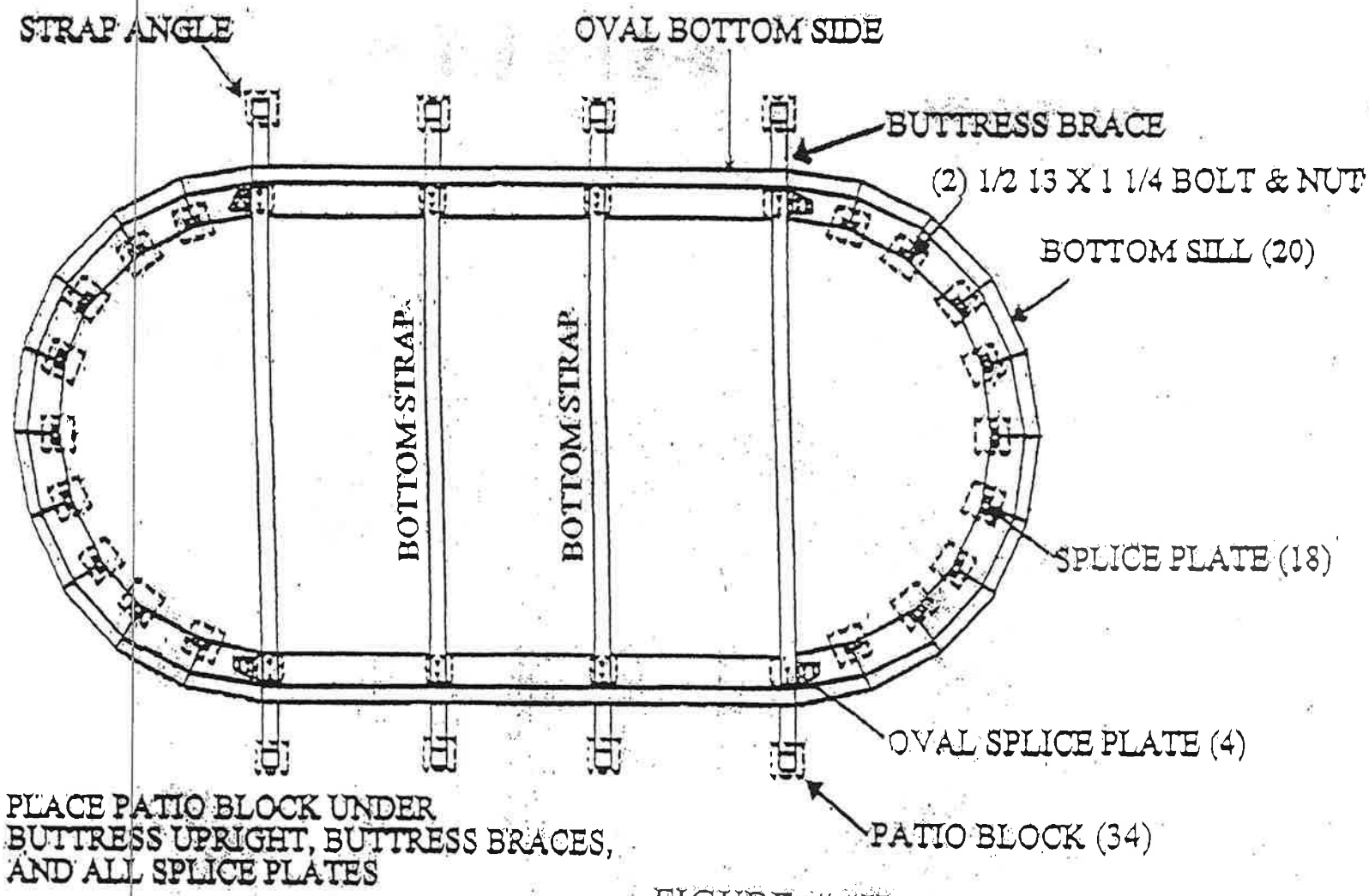
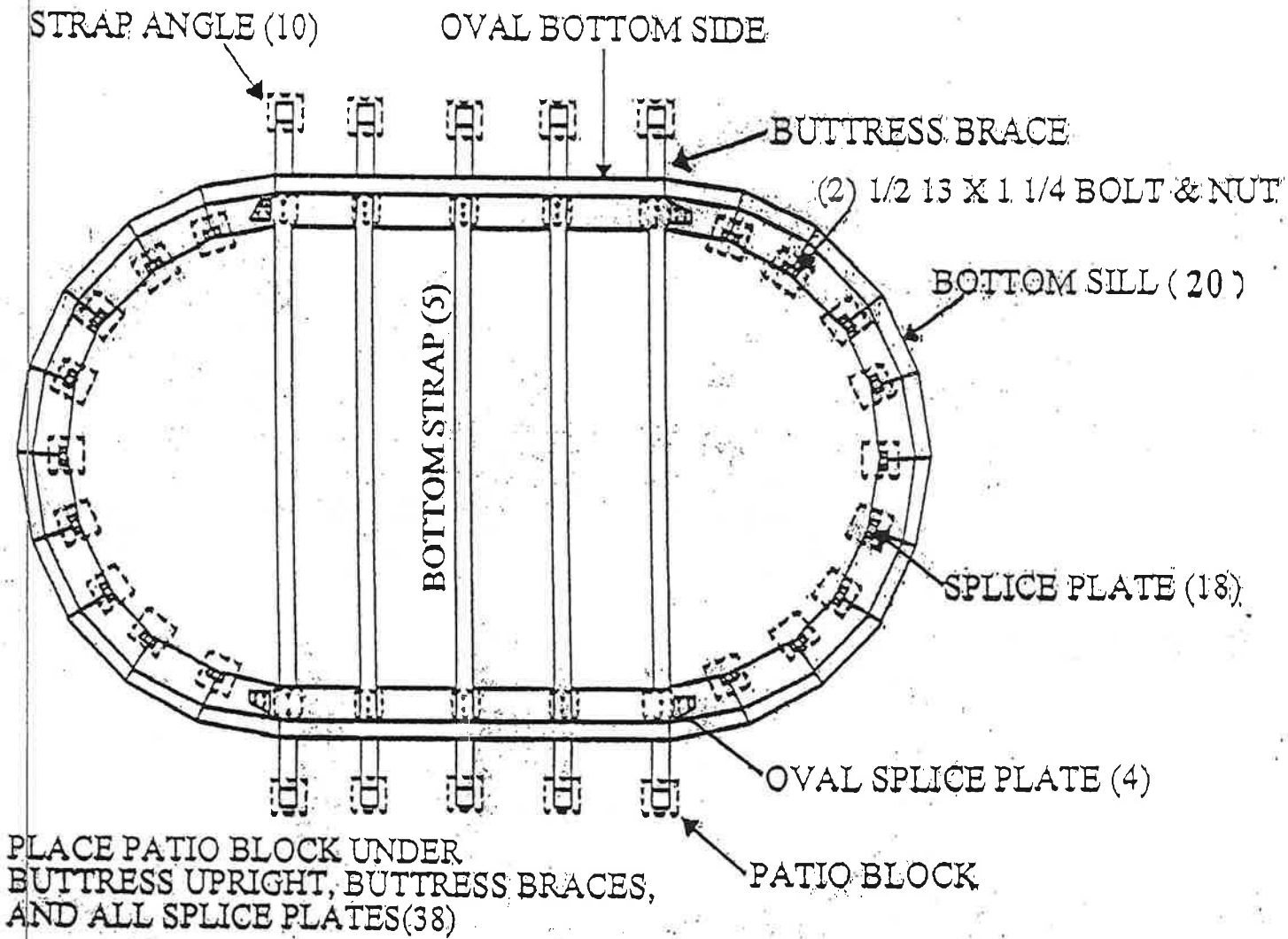


FIGURE # 4H

15X24X52 INCH POOL ONLY



1527 52 INCH POOL ONLY

FIGURE # 41

FIGURE 4K
17'X32'X52" POOL ONLY

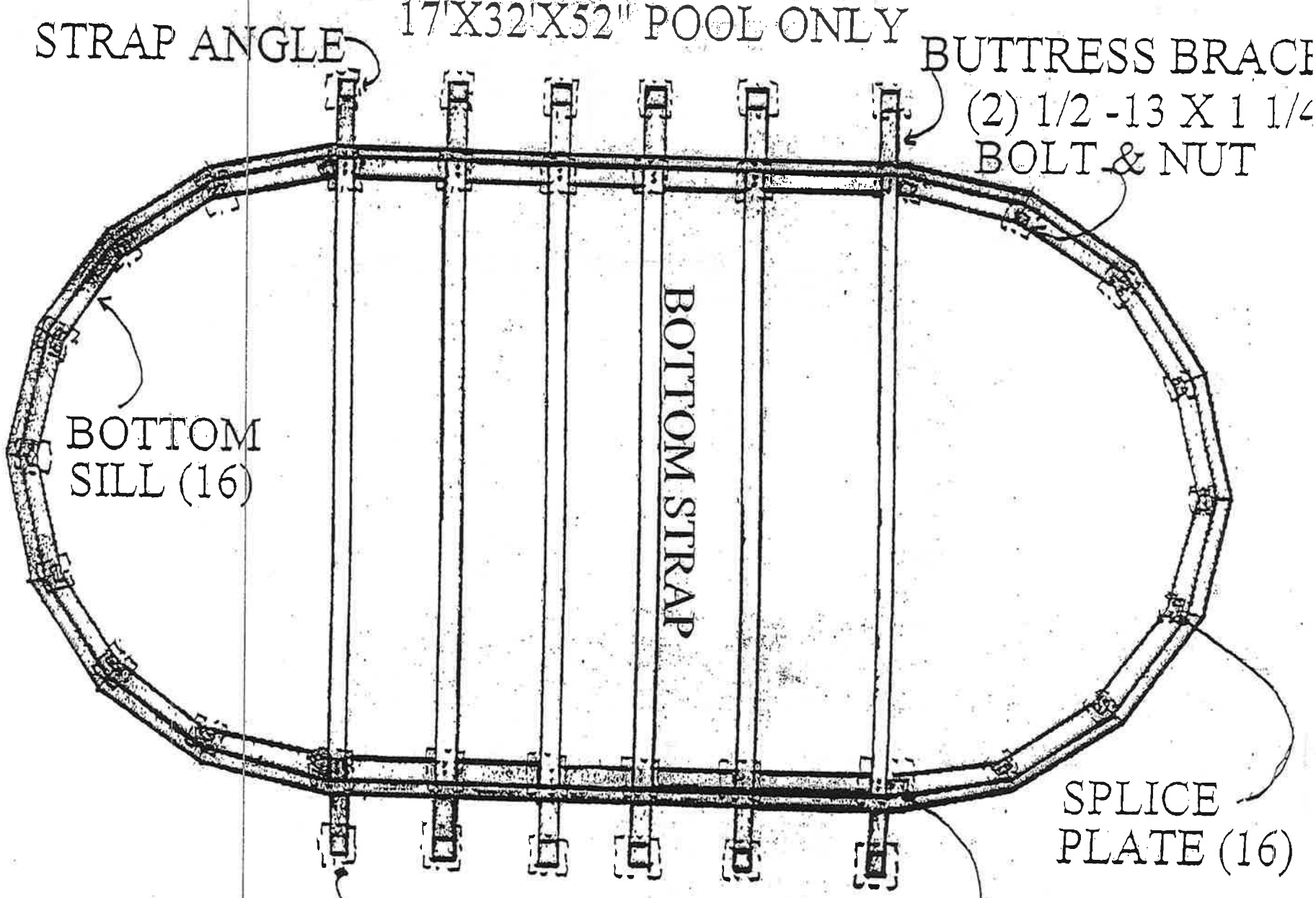
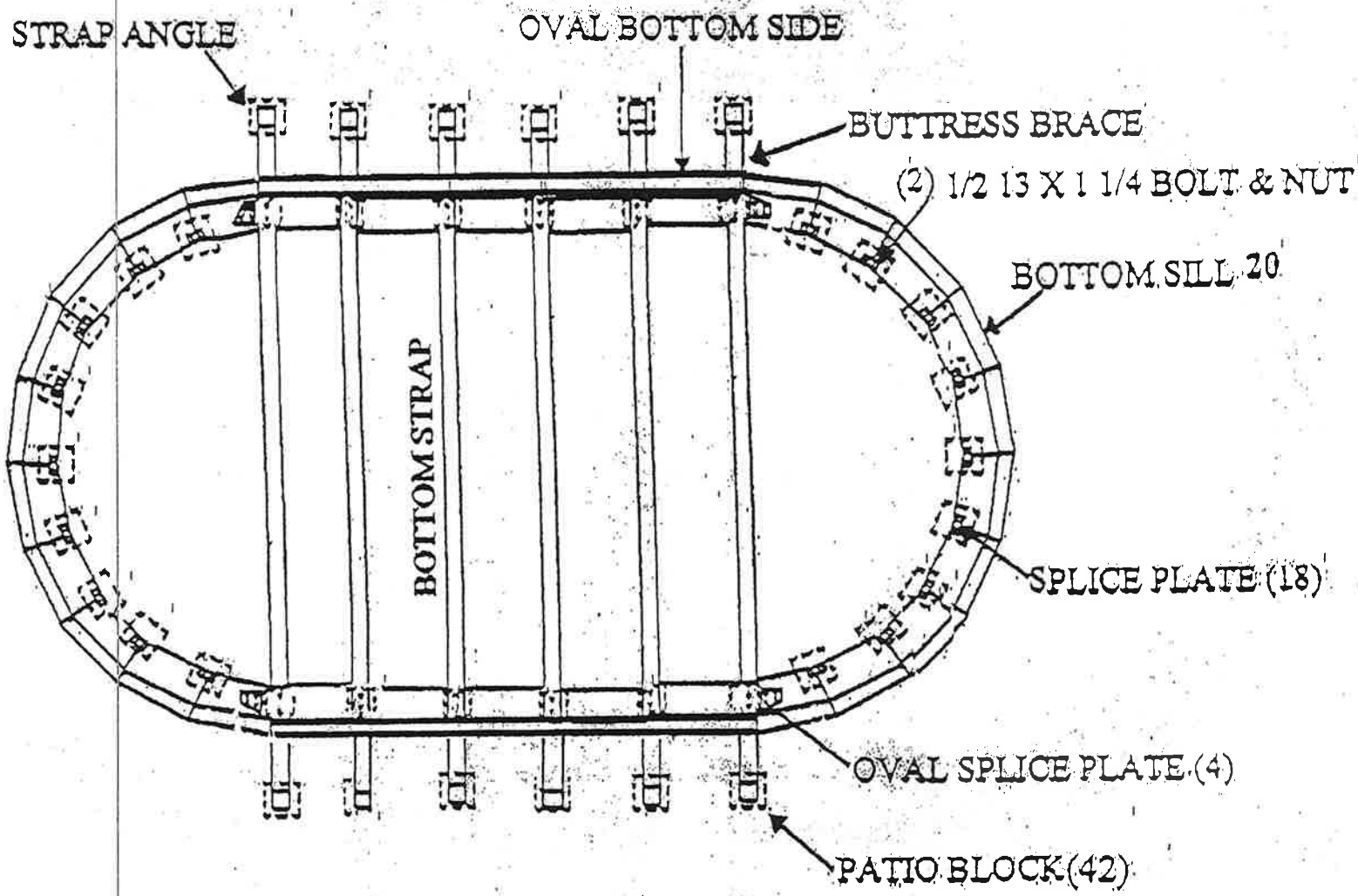


FIGURE # 4J

15X30X52 INCH POOL ONLY



PLACE PATIO BLOCK UNDER
BUTTRESS UPRIGHTS,
BUTTRESS BRACES
& ALL SPLICE PLATES

ROUND BUTTRESS, BOTTOM SILL, SPLICE, AND BUTTRESS UPRIGHT

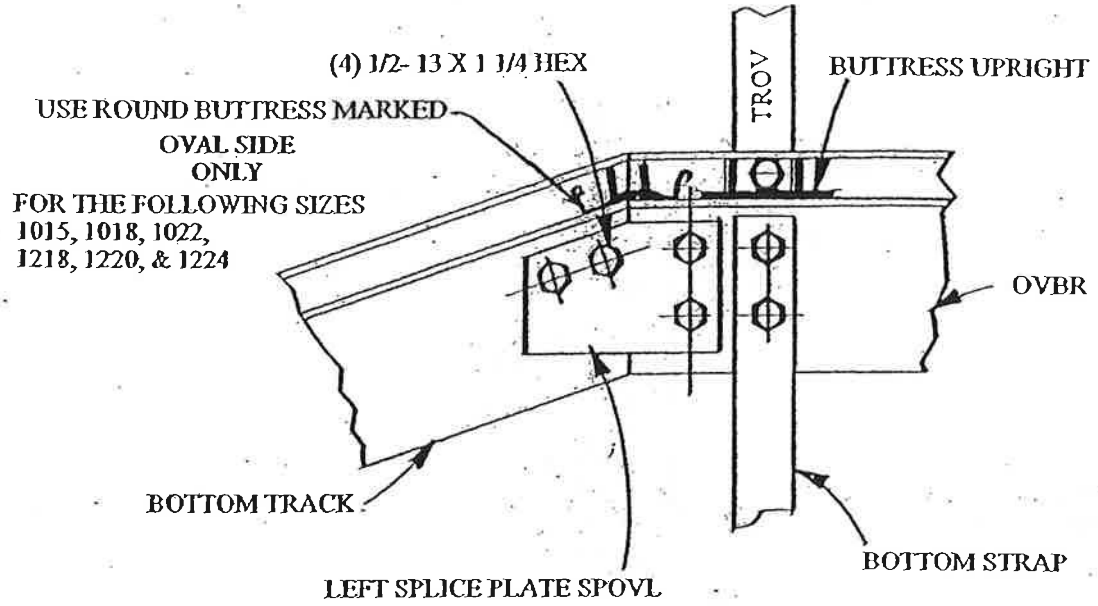


FIG. #7

BUTTRESS BRACE ASSEMBLY

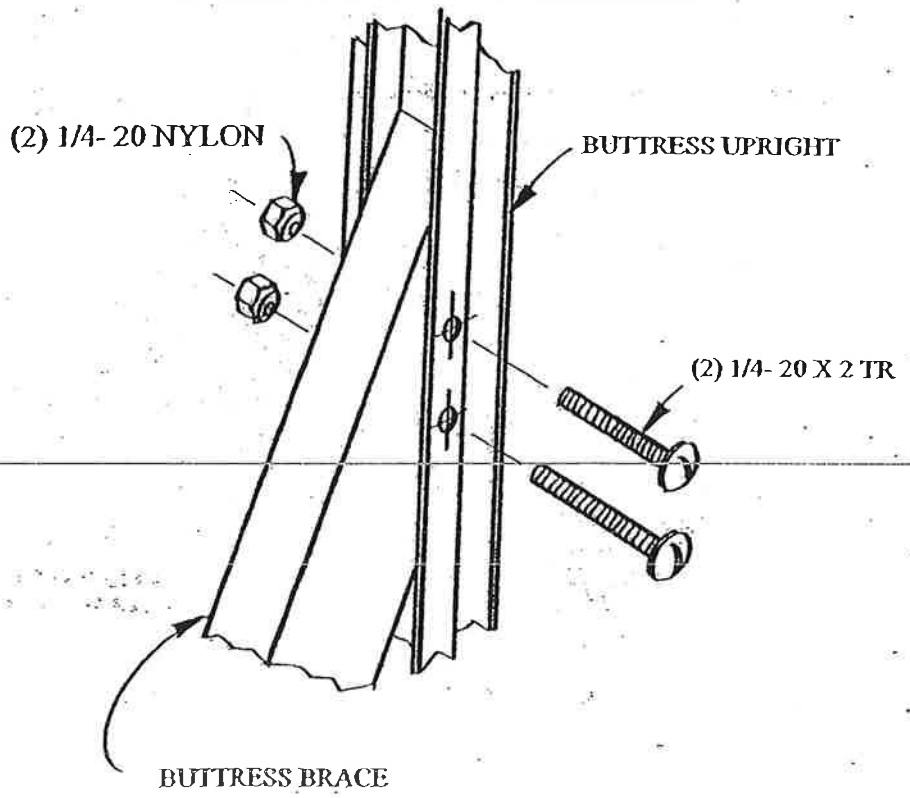


FIG. # 8

PREASSEMBLY OF STRAP ANGLE, CLIP, AND OVAL BOTTOM RAIL

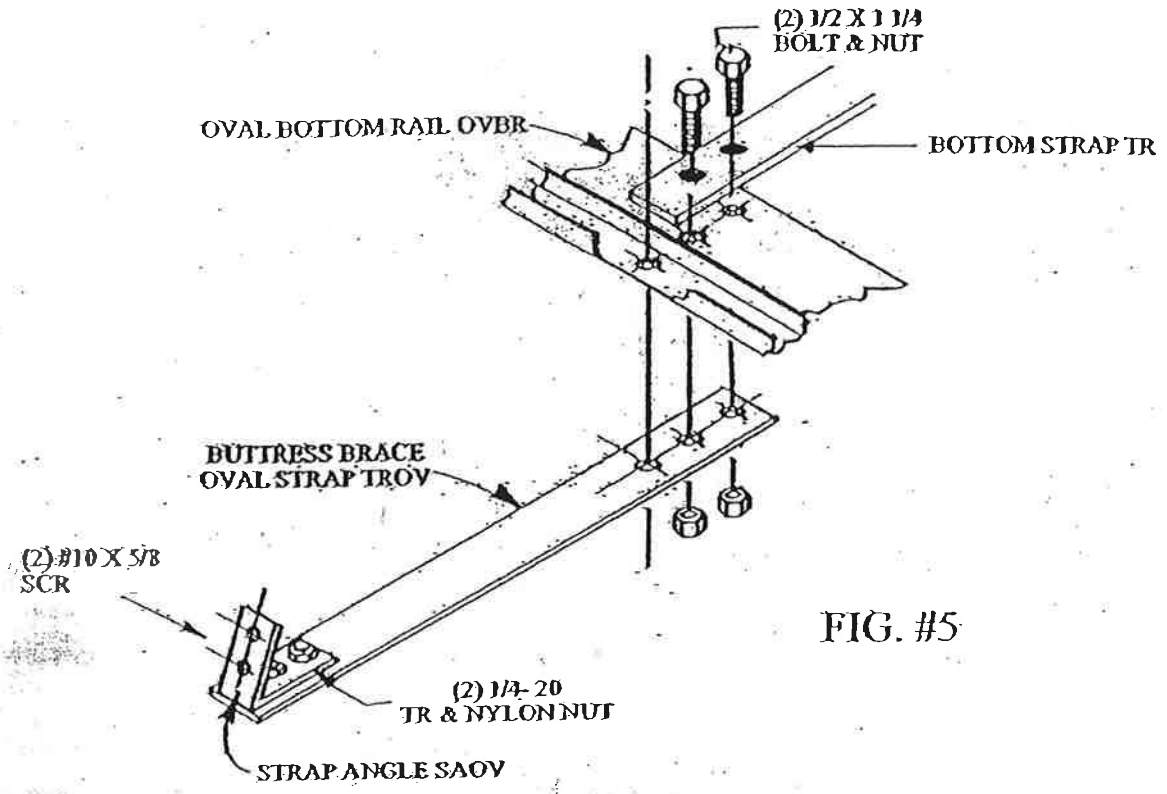


FIG. #5

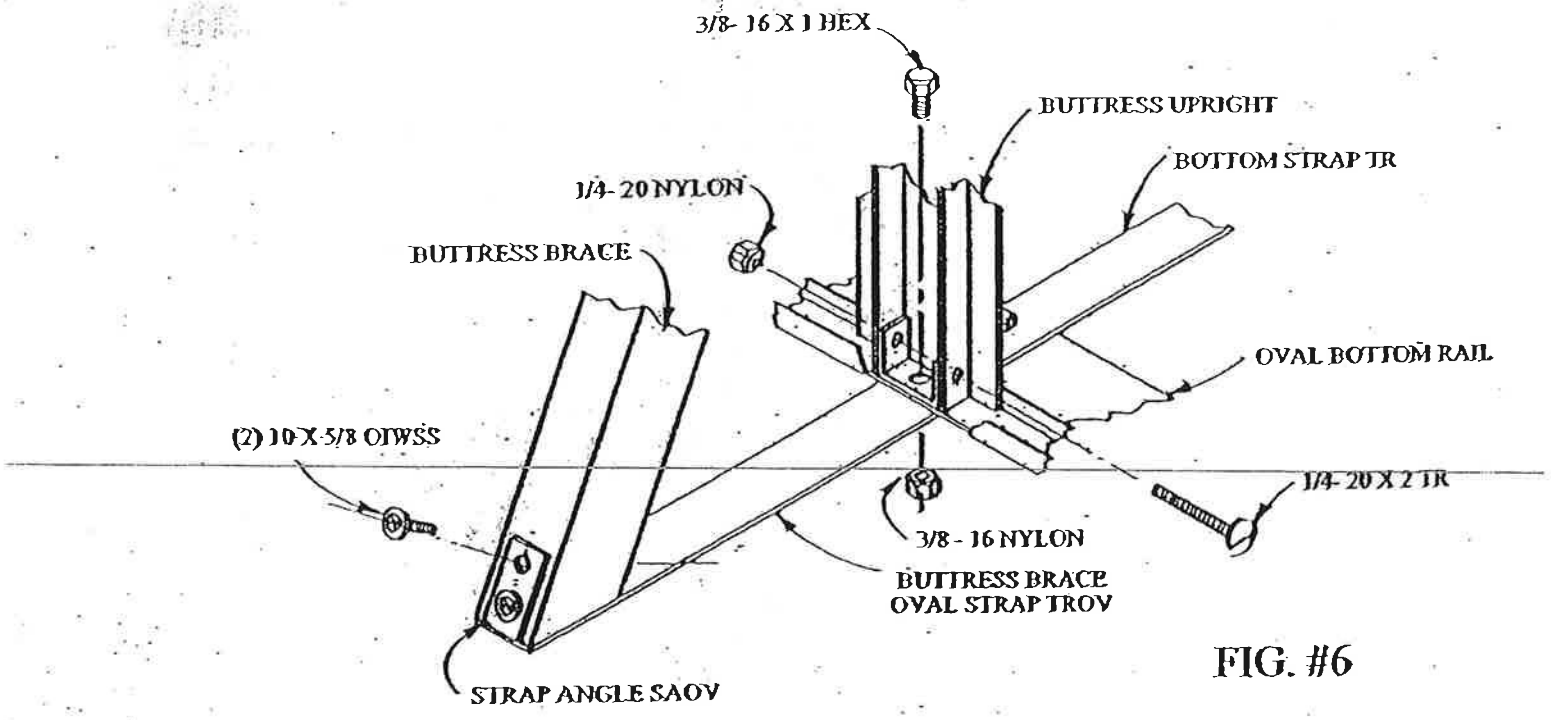
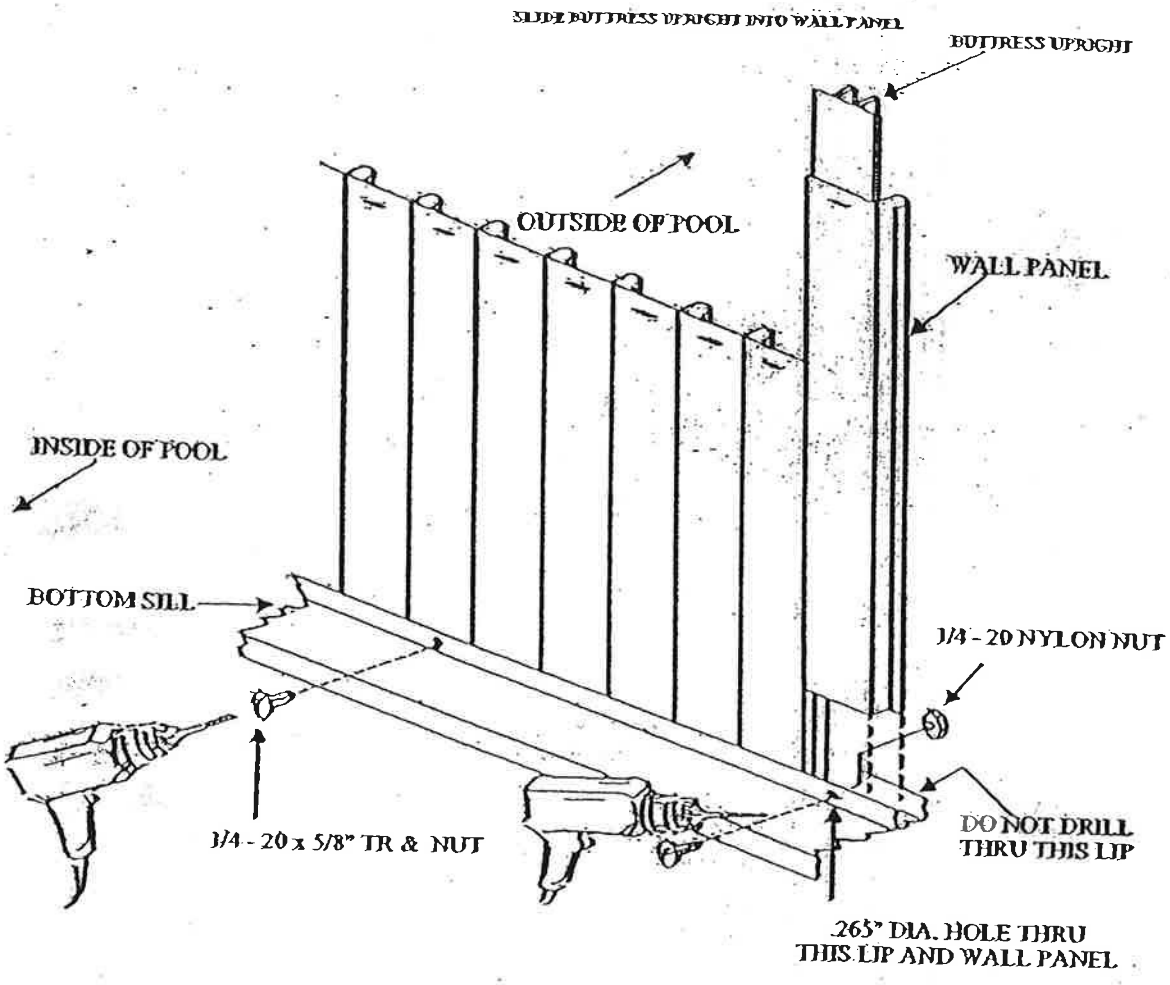


FIG. #6

WALL PANEL & BUTTRESS

UPRIGHT ASSEMBLY



ROUND BUTTRESS UPRIGHT ASSEMBLY

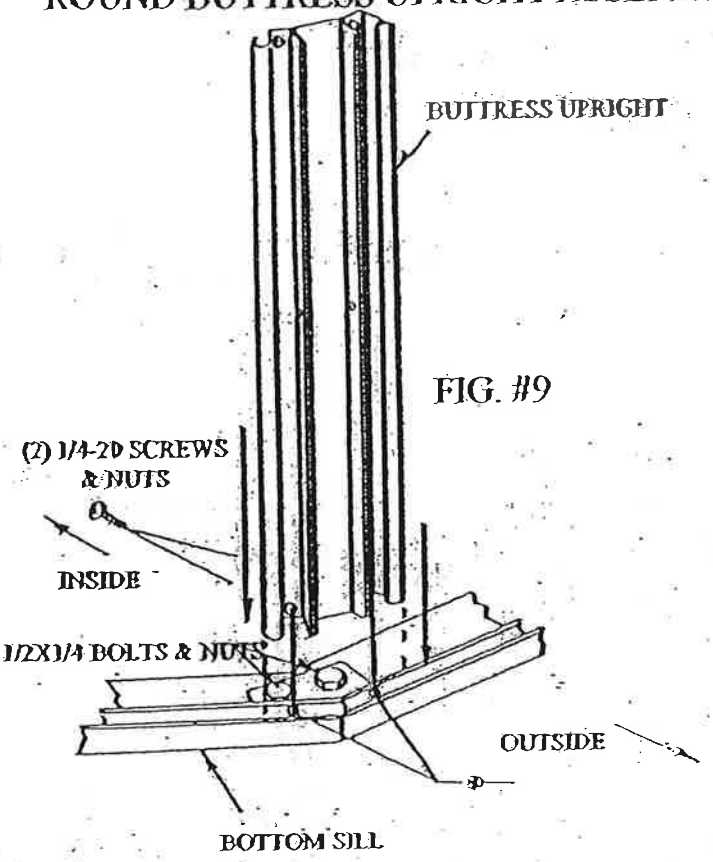


FIG. #9

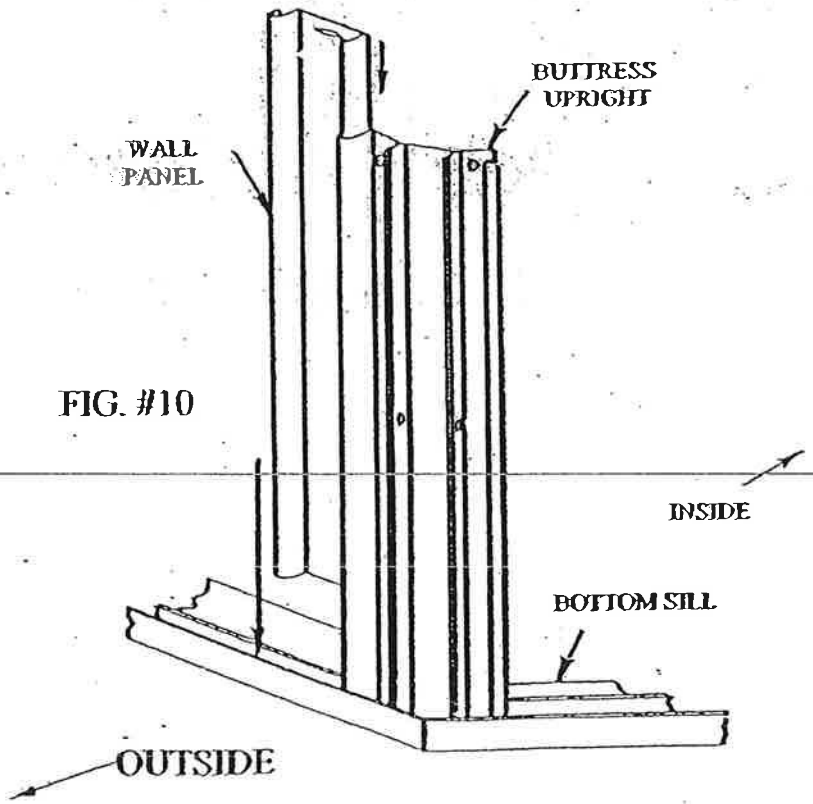


FIG. #10

CONNECTING TOP RAIL ASSEMBLY

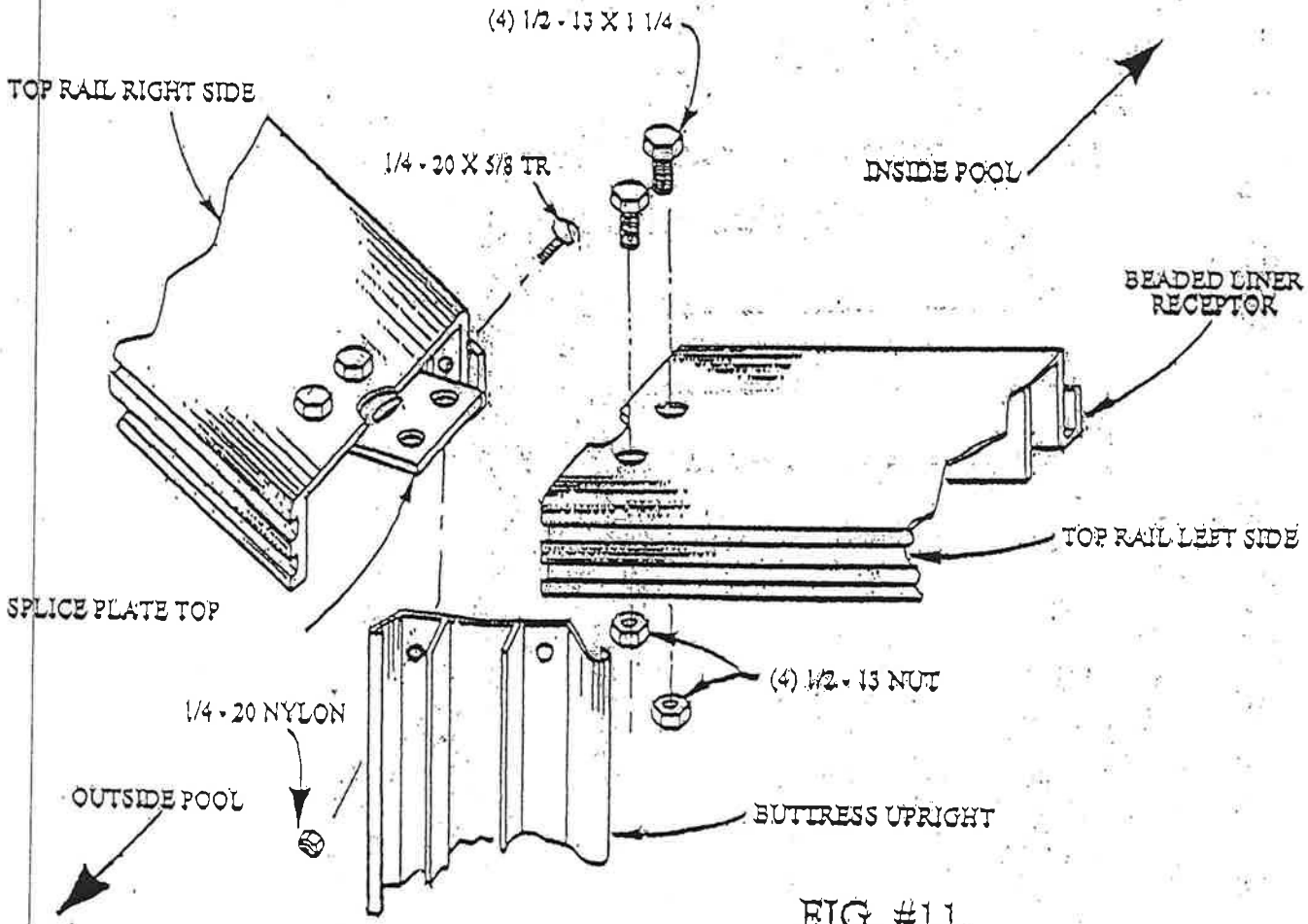
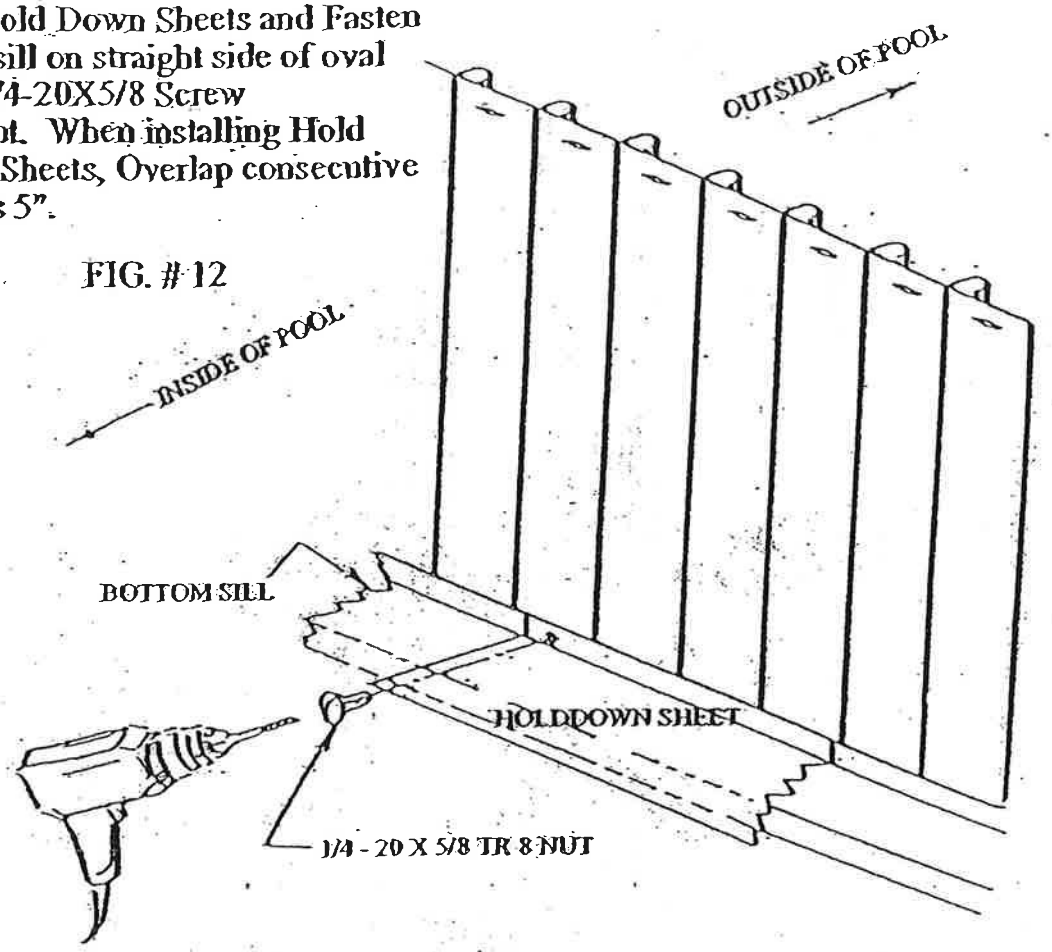


FIG. #11

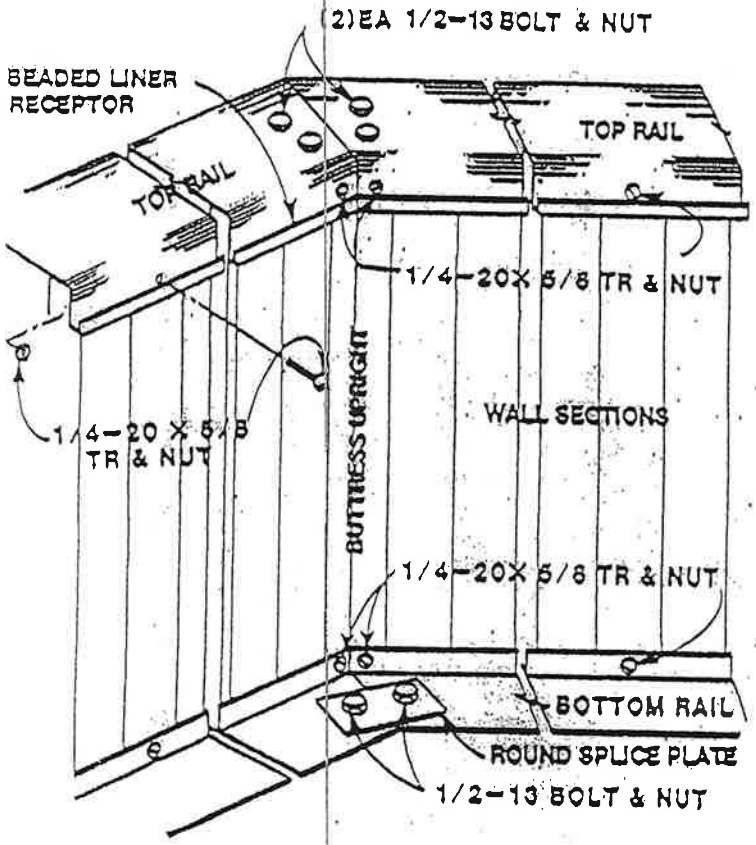
HOLD DOWN SHEETS FOR OVALS ONLY

Add Hold Down Sheets and Fasten to the sill on straight side of oval with 1/4-20X5/8 Screw and Nut. When installing Hold Down Sheets, Overlap consecutive Sheets 5".

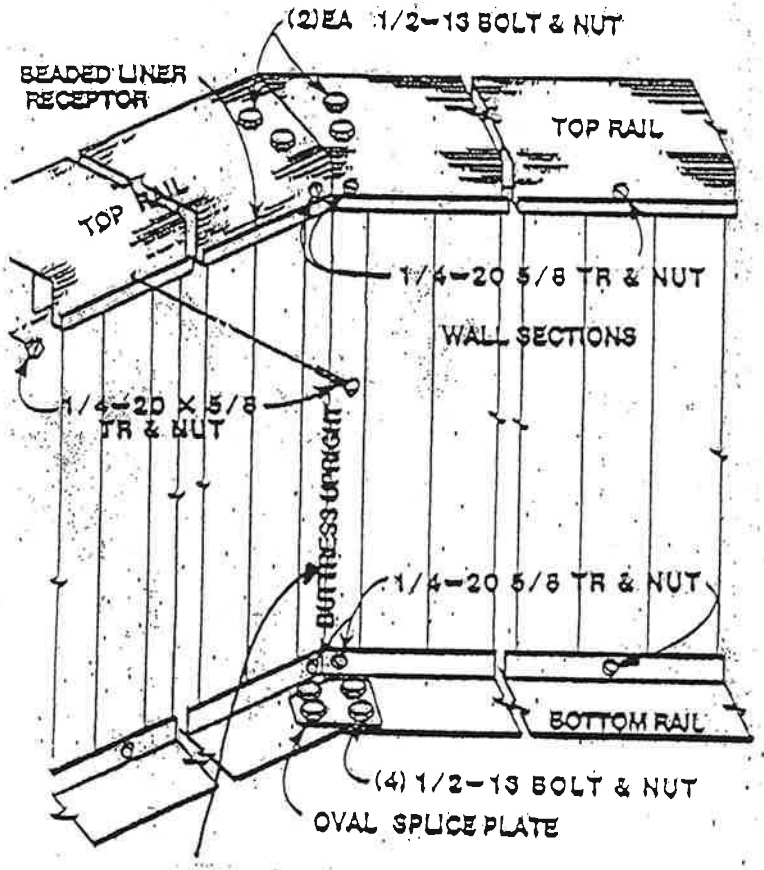
FIG. # 12



COMPLETED TOPRAIL AND WALL PANEL CONNECTION



ROUND POOL
FIG. # 13



OVAL POOL
FIG. #14

USE ROUND BUTTRESS UPRIGHT MARKED
OVAL SIDE ONLY
AT THE TRANSITION OF ROUND TO OVAL
IN 4 PLACES FOR THE FOLLOWING SIZES
1015, 1018, 1022, 1218, 1220, & 1224

COMPLETED CAP SET AND TOP RAIL ASSEMBLY

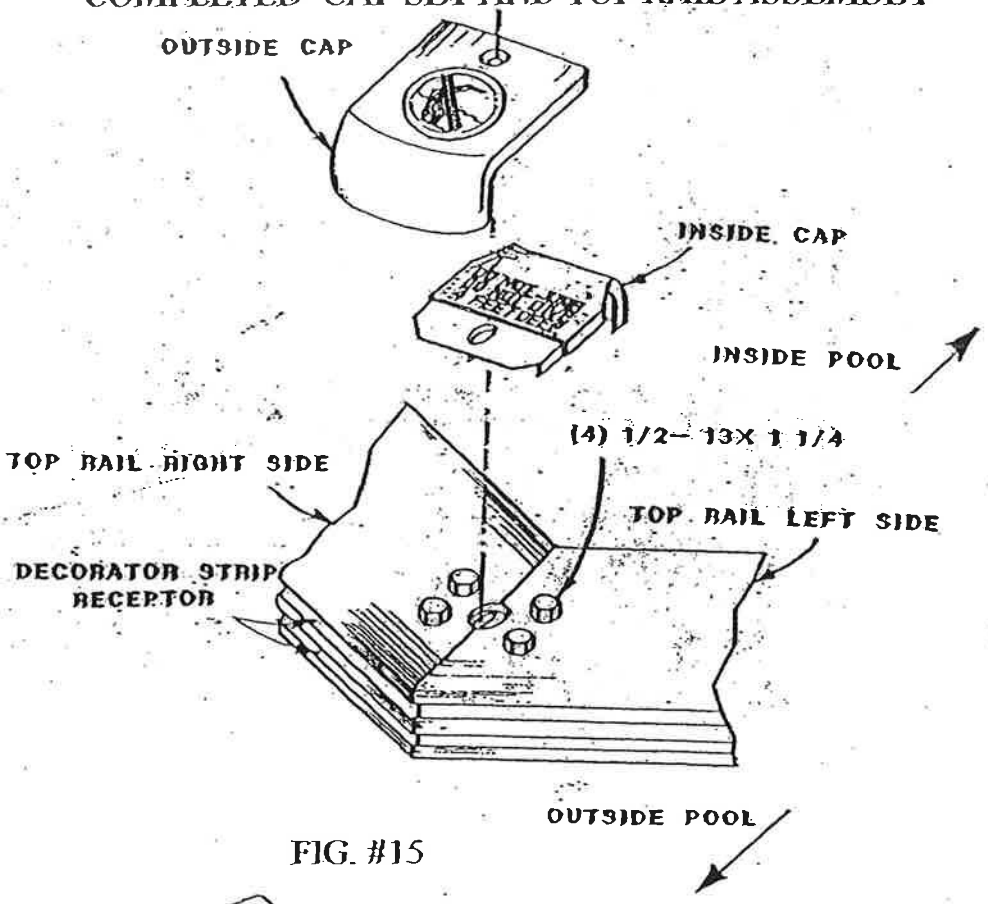
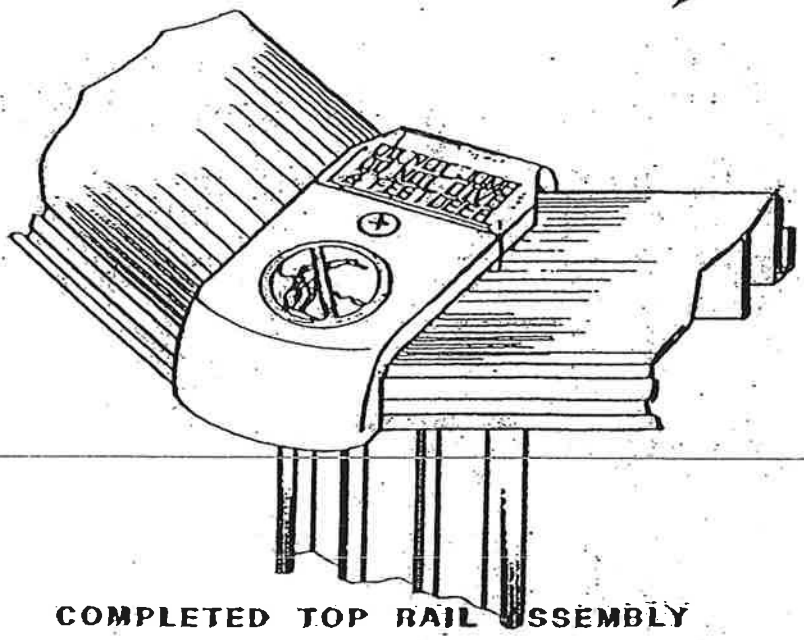


FIG. #15



COMPLETED TOP RAIL ASSEMBLY

FIG. #16

ATTACHMENT OF SUPPORT BRACKET FOR 52"

15X23, 15X24
15X27, 15X30
17X32
15', 18', 21', & 24' ONLY

FIG. #17