

**NESPA**  
TILED SPAS

# Production Booklet

for

**VIENTIANE MSPA**

2800 Richter Ave. Suite C, Oroville, CA 95965 • **voice:** (530)534-9910  
**fax:** (530)534-9915 • **email:** sales@tiledspas.com • **website:** www.tiledspas.com



## RECOMMENDED MAINTENANCE

### *Please Note:*

These are only recommended guidelines to care for a Nespa all tiled spa. Local codes may require additional procedures, therefore consult with a pool professional that is LA county Health Department certified for more information on local codes and requirements.

### **SPA SURFACE**

Your spa tile is acid resistant and frost-proof. The Tile does not absorb germs or algae. Tile does not stain and is very easy to clean. Color does not fade or lose its luster. All grouts are epoxy based and are extremely durable. To remove scum line use soft nylon brush and small amounts of biodegradable soaps. Do not use abrasive brushes or chemicals.

### MAINTENANCE

#### **A. CHEMICALS:**

- 1) It is important to maintain a chlorine residual of 2 PPM in the spa. That residual can be provided by chlorine or bromine.
- 2) It is recommended to use Bromine or dichlor (granular) forms of chlorine. If bromine Tabs are used we suggest floating or inline dispenser.
- 3) Never use acid to lower Ph in the tile spa.
- 4) Never use trichlor chlorine (1" or 3") tablets in the Nespa spas.
- 5) Never place tablets in skimmer basket.

#### **B. DRAINING THE SPA:**

- 1) It is recommended to drain the spa at least once every 2 months depending on bath load and water clarity.
- 2) The spa should be drained through valve exiting re-circulation pump in the spa equipment room or sump pump.
- 3) Note: Use caution to drain spa in the winter months or rainy season when water table is at its highest. It is possible for the spa to float due to hydraulic pressure from surrounding water table. We advise that you consult with your local spa specialist prior to draining the spa.

#### **C. SPA EQUIPMENT:**

- 1) Clean filter cartridge at least once every month, or when needed; i.e., if water clarity does not improve after several days.
- 2) Keep area free and clear from leaves and debris build-up.
- 3) Keep area free and clear from flooding.

#### **D. SPA LIGHT:**

- 1) Spa light has to be on GFCI circuit. It is controlled at spa side with ON/OFF.

#### **E. TILE SERVICING:**

- 1) Contact manufacture when servicing tile or grout. @ (530) 534-9910

**STANDARD NESPA  
IN-GROUND INSTALLATION  
INSTRUCTIONS  
SET-UP AND EXCAVATION**

**Prerequisites:** Before installing your Nespa spa. You may be required to acquire a permit from your local State, County, and City building dept and or Health department. (Commercial jobs need Health Dept. Approval). Your spa installation must comply with the most current codes. ( **Uniform Swimming Pool, Spas & Hot Tub Code 2006 ( USPC 2006)**).

**Spa drawings:** Request from Nespa a current spa specific construction detail, plan and section, spa plumbing detail.

**Delivery Access:** Clearly determine the method of getting the spa to jobsite and into the hole. This may require the use of a crane, forklift, hoist, backhoe and/or manpower etc.

- 1) The following instructions are general guidelines and may not apply to your specific jobsite conditions. When excavating for your spa remember to provide for plumbing and light connection clearances. In order to determine how to excavate for your spa or swim spa, measure spas outside dimension ( O.D.) and add minimum 3” to all sides. This 3” clearance is to accommodate jet and suction plumbing. This 3” clearance can change or be reduced upon request. Note: skimmer location, this area may have to be larger than 3”, if commercial 22”.
- 2) **Freeze Climates-** If the spa is place into a vault (typical of freeze climates) a standard 18” or more of clearance minimum from spa perimeter should be provided. This dead air space is for possible future access to spa plumbing in case of a freeze. Area drain is mandatory. **Ask your local installer** for his experienced opinion. Do not hesitate to call us because we want to be sure that your installation progresses as smoothly as possible. If you have questions call us. (888) 479-4677.
- 2) **Hole depth** is determined by spa’s outside height dimension. This height may vary depending if spa has skids or no skids. The spa lip may be finished or non- finished. How is the perimeter deck elevation transitioning to the spa? Focus on the finish surrounding deck elevations, thickness of the finish material on spa upper horizontal lip, equal to lip or under the spa lip. This material can be tile, stone, concrete or brick.
- 3) **Preplumb** the spa before it goes into the hole. If there are needs for electrical , bonding or control conduits run them as well before dropping in hole. Connect bond wire to niche would be best.
- 4) **Spa should sit on level 3 ½” thick reinforced concrete pad. Sweep debris off pad prior to dropping in hole.**
- 5) **Install spa** into the hole on top of concrete pad. Use the Eye bolts provided for crane, forklift etc. rigging. Do not hold onto pipes. Use caution with suction and jet plumbing when lowering into hole. **DO NOT STRESS FITTINGS!** Fill Spa with water and check for leaks prior to backfill.

- 6) **Check site reference** points for proper spa positioning (i.e., squaring to house, garage, etc.).
- 7) **Shim to level spa.** Shim with non-compression able material. Re square to house, or ref. point.
- 8) **Dry pack** with cement the gaps that have been created when shimming spa level.
- 9) **Connect pipes to tees** if spa is preplumb. Installers properly support your new plumbing from stressing spas preplumb fittings. After electrical conduit and bond wire is connected to light niche, water test spa before back filling with sand.  
**NOTE: All Nespa products are water tested prior to leaving factory.**

### **ELECTRICAL:**

- 1) All electrical connections to spa or equipment should comply with the most recent national electrical code (NEC), state and local codes.
- 2) Connect electrical conduit to light niche. This work should be done or reviewed by a licensed electrician.
- 3) To install spa light you will need to include inside the PVC conduit to the light niche a solid #8 coated copper wire. (If you are use brass conduit, internal bond wire is not required.) This bond wire should be pulled with the light cord at the same time. This bond wire needs to be attached to the internal bonding lug of the light niche. An approved encapsulate should be applied to bond wire connection in niche.
- 4) An external #8 copper wire shall be connected to the external bonding lug on the rear of the light niche. This copper wire can then be used for additional bonding requirements (i.e., handrails or any other metallic object within 5' of the spa.

### **PLUMBING:**

- 1) **When plumbing a Nespa it is important to properly size the plumbing. We highly recommend that you follow the pump manufacturer's pipe sizing requirements and Uniform Swimming Pool, Spas & Hot Tub Code 2006 ( USPC 2006). This code book is available at [www.JAPMO.org](http://www.JAPMO.org) or (909) 472 4100.**
- 2) The jet air venturi should be a Hartford loop design adjacent to spa shell and air entry point can be located next to spa or remotely at equipment.
- 3) Fill spa with water and test the system for leaks PRIOR to backfilling with sand.

### **SAND BACK FILL:**

- 1) **With water in spa, back-fill around spa perimeter with dry plaster sand and wet wash with hydraulic attachment to hose. Let set for one hour and hydraulic dry again. Be sure water level in spa is at the highest level. Any questions please call us. ( 888) 479-4677.**
- 2) **If spa is free standing on elevated deck or a structure, it is important to fill spa with water and load area prior to installing coping or perimeter decking. If spa is installed in a vault situation a area drain is needed.**

**NESPA ENTERPRISES INC.**

2800 Richter Ave. Suite E

Oroville, CA 95966

Office: (888) 479-4677 Fax: (530) 534-9915

E-Mail: nespa@pacbell.net www.tiledspas.com

**IN-GROUND**

**INSTALLATION**

\*ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES\*

SCALE: 1/2" = 1'-0"

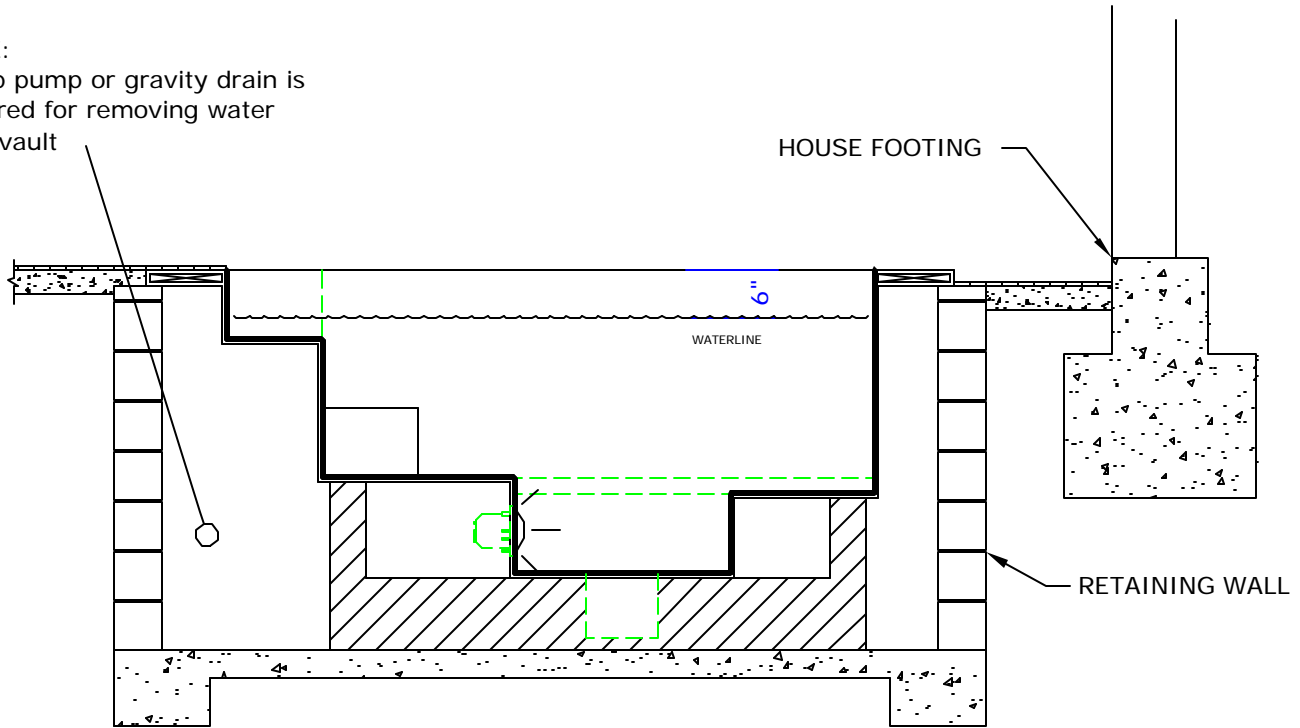
DATE: 3/27/02

JOB : STANDARD INSTALL

DW #: SI-1, SI-2

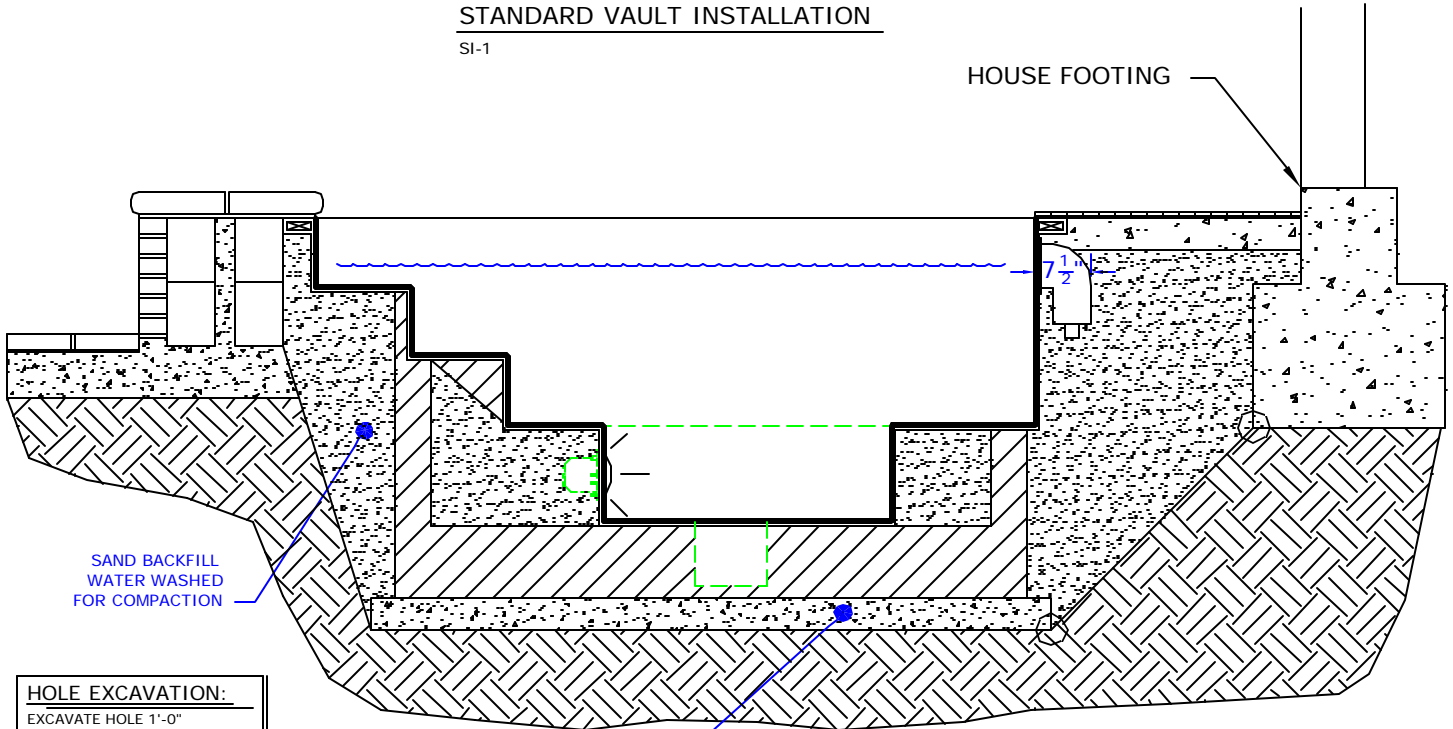
**NOTE:**

Sump pump or gravity drain is required for removing water from vault



**STANDARD VAULT INSTALLATION**

SI-1



**HOLE EXCAVATION:**

EXCAVATE HOLE 1'-0" LARGER THAN THE OUTSIDE DIAMETER (OD) OF SPA

4" CONCRETE SLAB REINFORCED WITH #10 MESH

**STANDARD INGROUND INSTALLATION**

SI-2

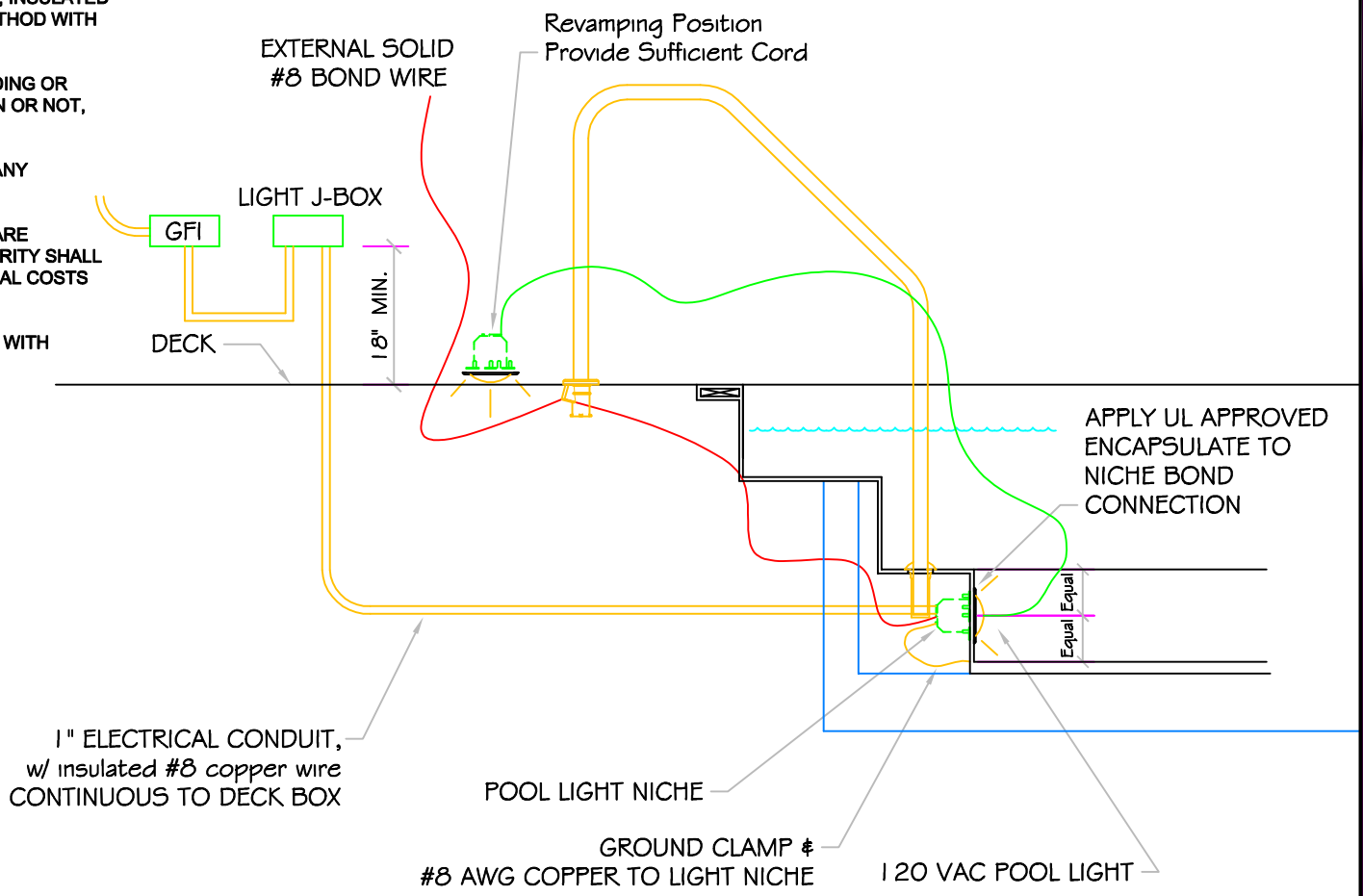
**NOTE:**

Footing can not surcharge spa. Slope from bottom of slab to nearest corner of house footing must not exceed 1" = 1".

# POOL BONDING REQUIREMENTS:

1. THE FOLLOWING PARTS SHALL BE BONDED TOGETHER AND CONNECTED TO THE COMMON BONDING GRID.
  - A. ALL THE METALLIC PARTS OF THE POOL STRUCTURE INCLUDING COPING STONES, DECK, PERMANENT PLAY STRUCTURES, PERMANENT EXERCISE STRUCTURES.
  - B. ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE
  - C. METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM, INCLUDING PUMPS, FILTERS, AND HEATERS.
  - D. METAL PARTS ASSOCIATED WITH POOL COVERS
  - E. METAL SHEATHED CABLES AND RACEWAYS, METAL PIPING AND ALL FIXED METAL PARTS WITHIN 5 FEET HORIZONTALLY OF INSIDE WALLS OF POOL AND WITHIN 12 FEET ABOVE MAXIMUM WATER LEVEL OF POOL.
  - F. METAL PARTS ASSOCIATED WITH OBSERVATION STANDS, TOWERS, PLATFORMS, AND DIVING STRUCTURES.
2. BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID COPPER, INSULATED E.C. SHALL COORDINATE APPROVED CONNECTOR TYPE AND METHOD WITH LOCAL ELECTRICAL AND/ OR POOL INSPECTOR.
3. SPECIFIC MANUFACTURER'S INSTRUCTIONS REGARDING BONDING OR GROUNDING OF POOL EQUIPMENT, WHETHER INDICATED HEREIN OR NOT, SHALL BE STRICTLY FOLLOWED.
4. THE COMMON BONDING GRID SHALL NOT BE CONNECTED TO ANY ELECTRICAL DISTRIBUTION EQUIPMENT.
5. ANY PARTS IN ADDITION TO THOSE DESCRIBED HEREIN THAT ARE INDICATED BY POOL CONTRACTOR OR LOCAL INSPECTION AUTHORITY SHALL BE BONDED TO THE COMMON BONDING GRID WITH NO ADDITIONAL COSTS INCURRED BY THE OWNER.
6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE BONDING WITH GENERAL CONTRACTOR.

# LIGHT DETAIL



\*ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES\*

These drawings, concepts, and details contained herein are the original proprietary designs of NESPA ENTERPRISES, developed over many years of experience in the pool and spa industry and as such are protected by the copyright laws of the United States Government. Reproduction of any of the above without written permission to do so by NESPA ENTERPRISES, is illegal.

**NESPA ENTERPRISES INC.**  
 2800 Richter Ave. Ste. C Oroville, CA 95966  
 Office: (530) 534-9910 Fax: (530) 534-9915  
 E-Mail: [sales@tiledspas.com](mailto:sales@tiledspas.com) Web Site: [www.tiledspas.com](http://www.tiledspas.com)



SIZE A	DWG NAME DETAILS	DWG TYPE Detail
SCALE 1/2" = 1'	DATE 7/24/2008	SHEET PAGE 1 OF 1

## **NESPA ENTERPRISES, Inc. LIMITED WARRANTY**

**This LIMITED WARRANTY covering NESPA products is extended to the ORIGINAL PURCHASER-USER BY NESPA ENTERPRISES Inc.(NESPA), 2800 Richter Ave. Unit C California 95966.**

**NESPA products are thoroughly inspected and tested prior to factory shipment. NESPA warrants to the ORIGINAL PURCHASER-USER that NESPA Spas and Swim Spas will be free of defect in workmanship, accessories and parts, provided said accessories and parts were manufactured by NESPA. NESPA, under this LIMITED WARRANTY, warrants only that its Spas and Swim Spas shall be structurally sound, shall retain their shape, and shall retain water for the warranty period. NESPA warrants the adhesion of tile to fiberglass for a period of three (3) years and structural soundness for ten (10) years. NESPA warrants epoxy grout adhesion for a period of three years. If any such defects appear and are reported within the warranty period, NESPA shall repair or replace such defective parts without charge if an inspection proves the claim.**

**The provisions of the LIMITED WARRANTY shall not apply to tile cracked, split, chipped or damaged after the product has left the factory, nor damage to tile caused by freezing nor to damage, defect, malfunction or failure to conform with the above warranty provisions where the damage, defect, malfunction or failure to conform was caused during shipment or by distributor or by unreasonable use by ORIGINAL PURCHASER-USER including improper water balance and improper sand pack or support.**

**This LIMITED WARRANTY shall not apply to any plumbing, equipment, or installation of spas and Swim Spas and shall not apply to any alterations made to or upon NESPA products except alterations made by NESPA employees or NESPA authorized representatives.**

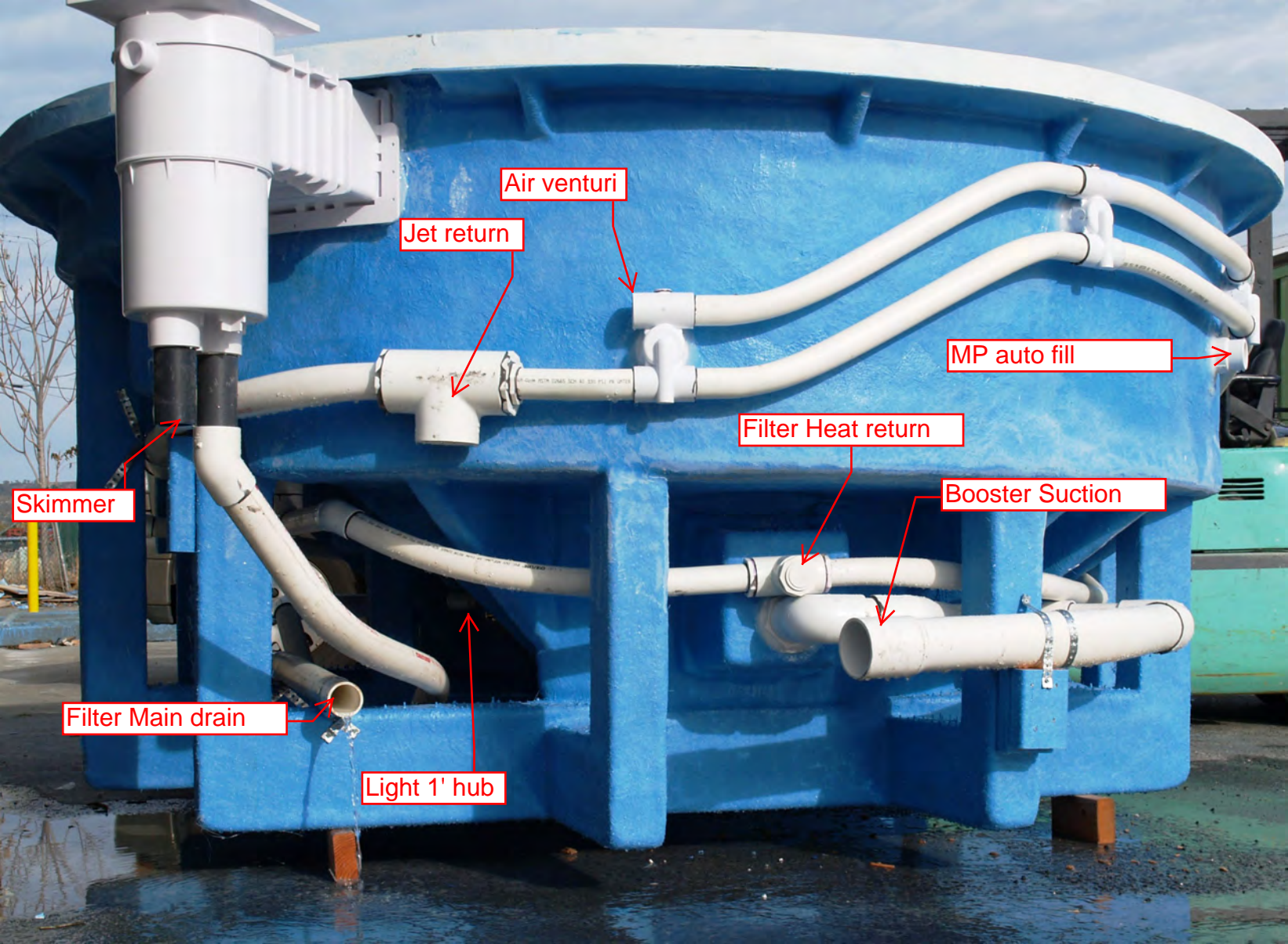
**This LIMITED WARRANTY is expressly in lieu of all other warranties expressed or implied including the warranties of merchantability and fitness for use and all other obligations or liabilities on NESPA'S part, and NESPA neither assumes nor authorizes any other person to assume for NESPA any other liability in connection with the sale of this NESPA product. This LIMITED WARRANTY shall not apply to this NESPA product or any part thereof which has been subject to accident, negligence, alteration, abuse or misuse. NESPA makes no warranty whatsoever with respect to accessories or parts not manufactured by NESPA.**

**The term "ORIGINAL PURCHASER-USER" as used in this LIMITED WARRANTY shall be deemed to mean that person for whom the NESPA product is originally installed.**

**The LIMITED WARRANTY provided herein and the obligations and liabilities of NESPA hereunder are exclusive and are in lieu of, and buyer and original PURCHASE-USER hereby waive all other remedies, warranties, guarantees or liabilities, expressed or implied, arising by law or otherwise (including without limitation and obligations of NESPA with respect to fitness, merchantability, and consequential damages) or whether or not occasioned by NESPA'S negligence.**

**This LIMITED WARRANTY shall not be extended, altered or varied except by a written instrument signed by NESPA and original PURCHASER-USER.**





Air venturi

Jet return

MP auto fill

Filter Heat return

Booster Suction

Skimmer

Filter Main drain

Light 1' hub



SPECIFICATIONS	
DRY WEIGHT:	2500 LBS.
TOTAL WEIGHT:	10046 LBS.
WATER:	905.1 GAL.
VOLUME:	121 Cu.Ft.
WEIGHT:	7546 LBS.
SURFACE AREA:	50.3 SQ. FT.
IAPMO#:	1138
FDA#:	2030305

**SKID SUPPORT STRUCTURE\* BONDED TO SPA**

\*SKIDS SUPPLIED BY NESPA

**LIGHT NICHE**  
SPA BRIGHT, 120 V, 100 WATT, 50' CORD, U.L. APPROVED

**MAIN DRAIN**  
WATERWAY # 640-4700 V  
9" X 9" FRAME, 39.9 SQ. IN. OPEN AREA  
Max Flow 289 GPM @ 2.33 fps (floor)  
Max Flow 198 GPM @ 1.59 fps (wall)  
COMPLIES W/ ANSI CODE ASME A112.19.8-07 U.L. APPROVED

**SIDEWALL SUCTION**  
WATERWAY # 640-4700 V  
9" X 9" FRAME, 39.9 SQ. IN. OPEN AREA  
Max Flow 289 GPM @ 2.33 fps (floor)  
Max Flow 198 GPM @ 1.59 fps (wall)  
COMPLIES W/ ANSI CODE ASME A112.19.8-07 U.L. APPROVED

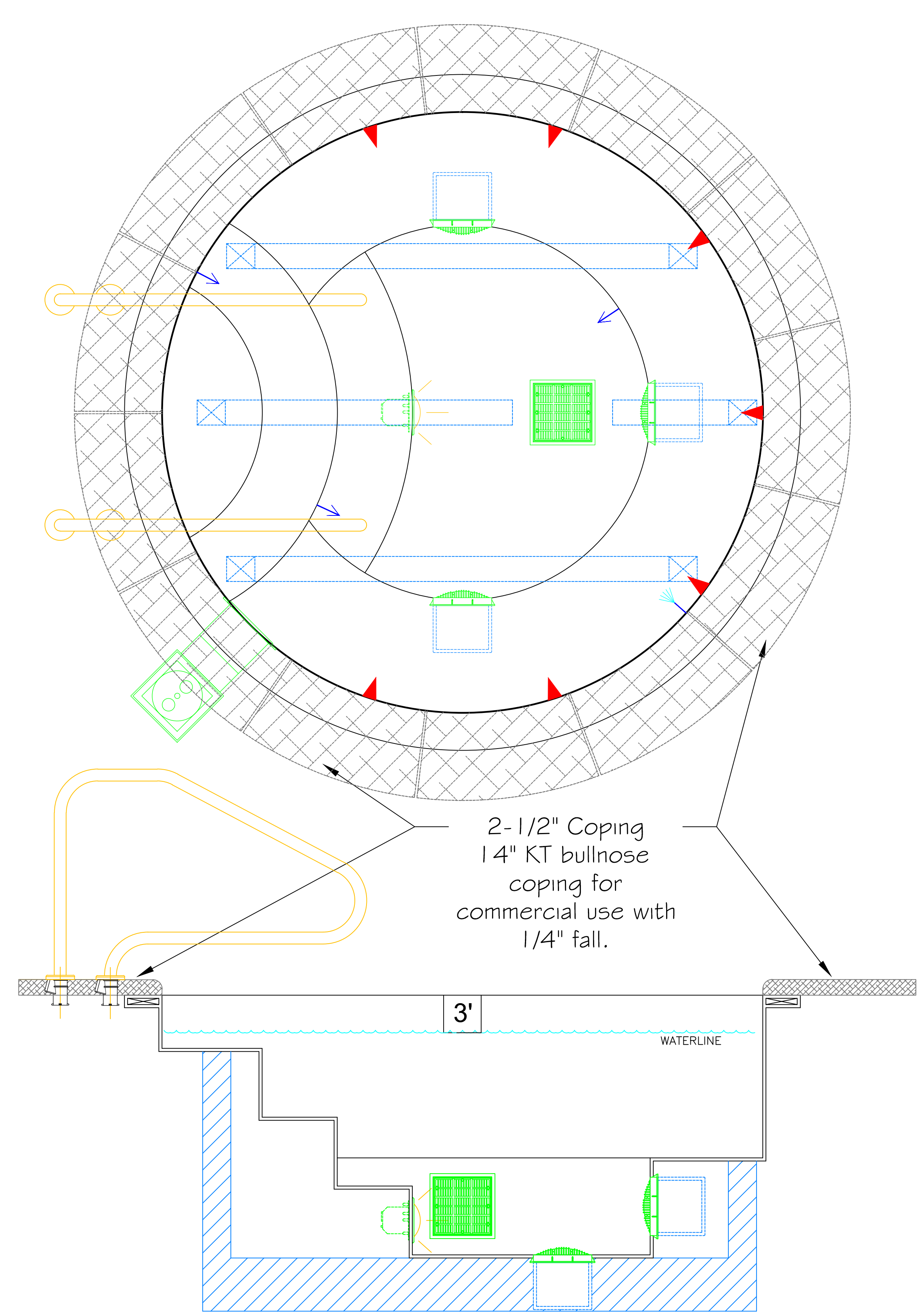
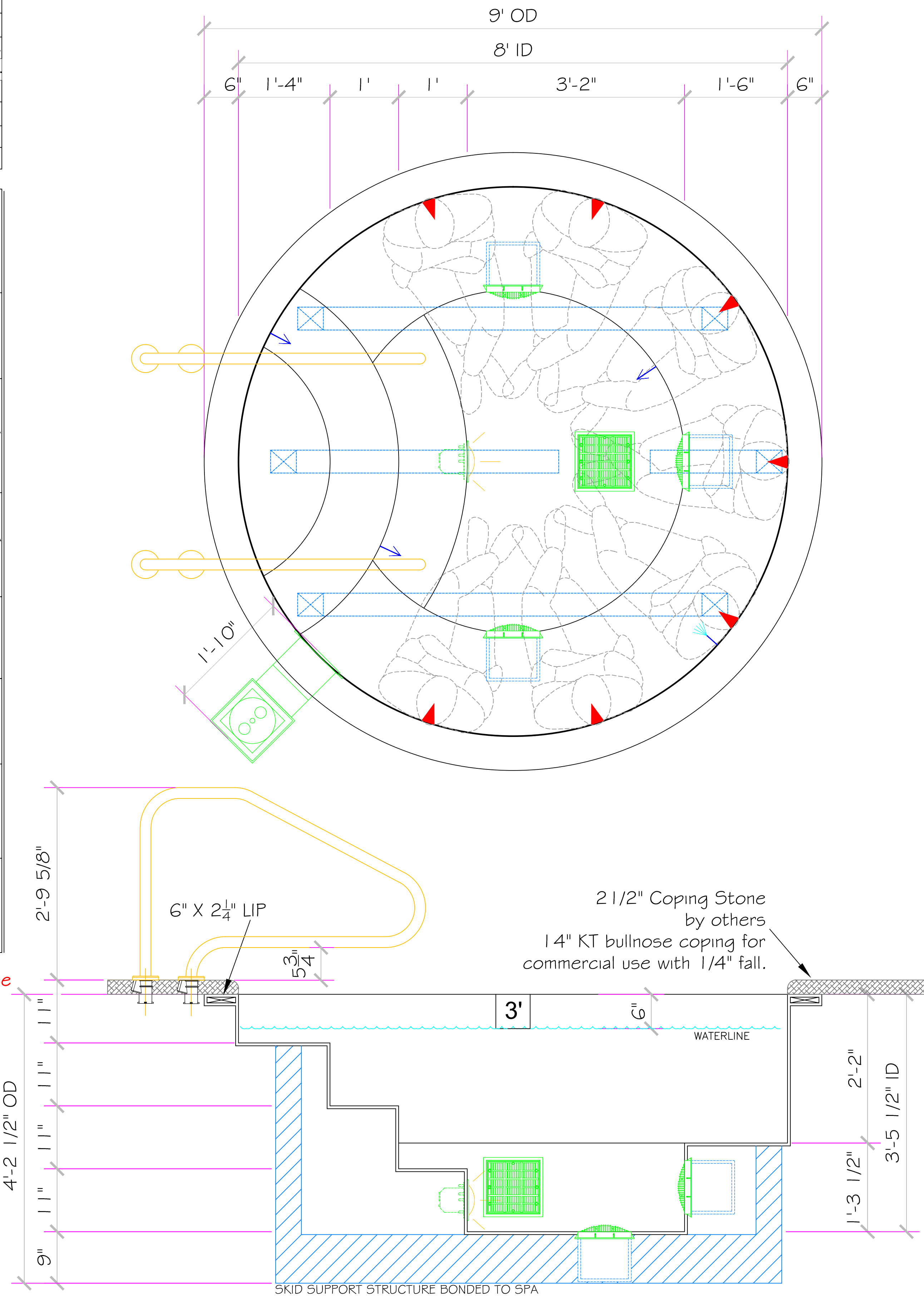
**SKIMMER**  
HAYWARD SP-1084FVE SURFACE SKIMMER W/ EQUALIZER, NSF APPROVED

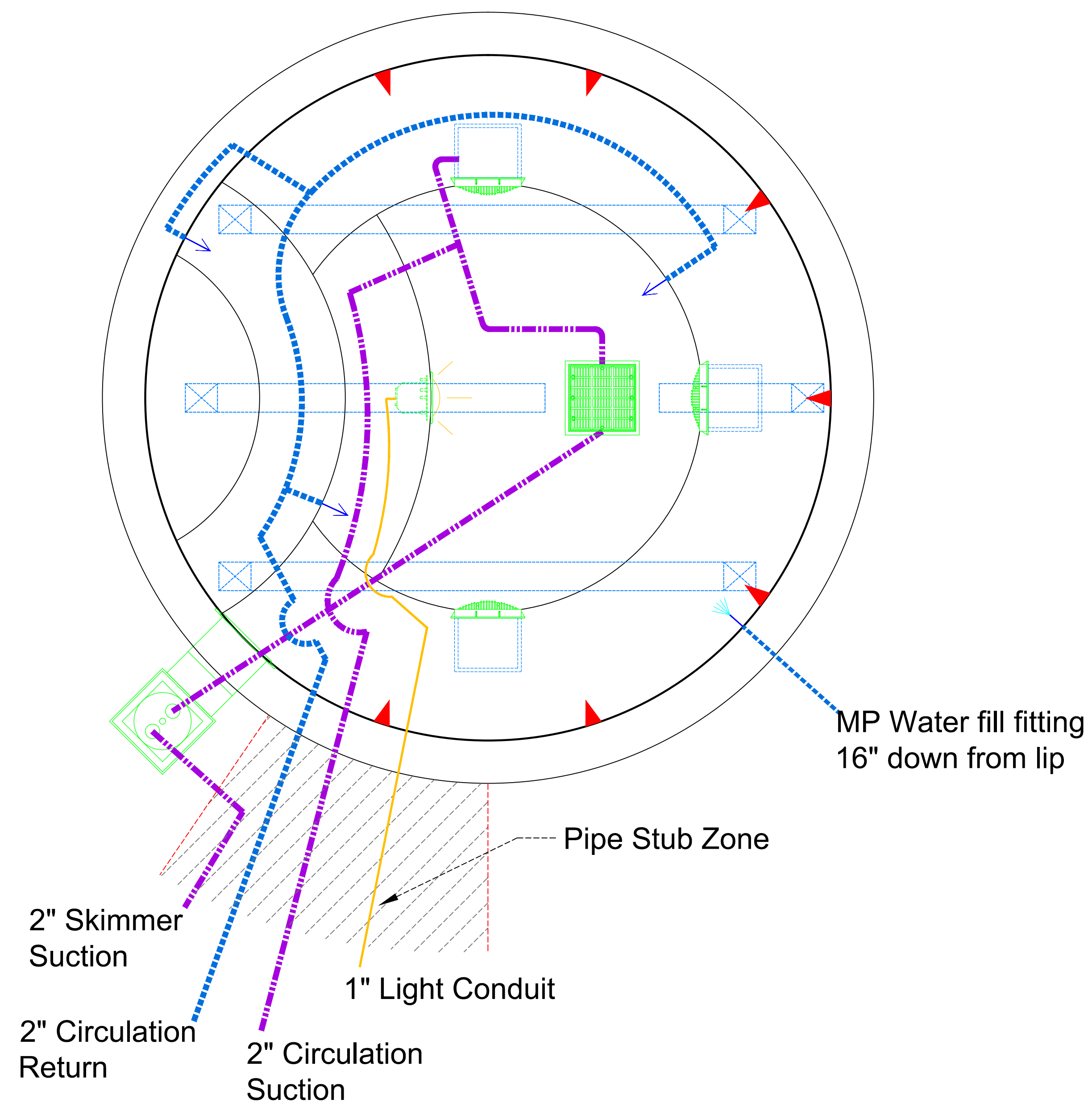
**JET**  
HYDRO INLETS  
1-1/2" WATER - 1-1/2" AIR  
HYDROAIR #10-5100  
COMPLIES W/ ANSI CODE ASME A112.19.8-07 U.L. APPROVED

**RETURN**  
INLET FITTINGS  
1-1/2" WALL TYPE W/ EYEBALL  
HYDROAIR #10-3500  
COMPLIES W/ ANSI CODE ASME A112.19.8-07 U.L. APPROVED

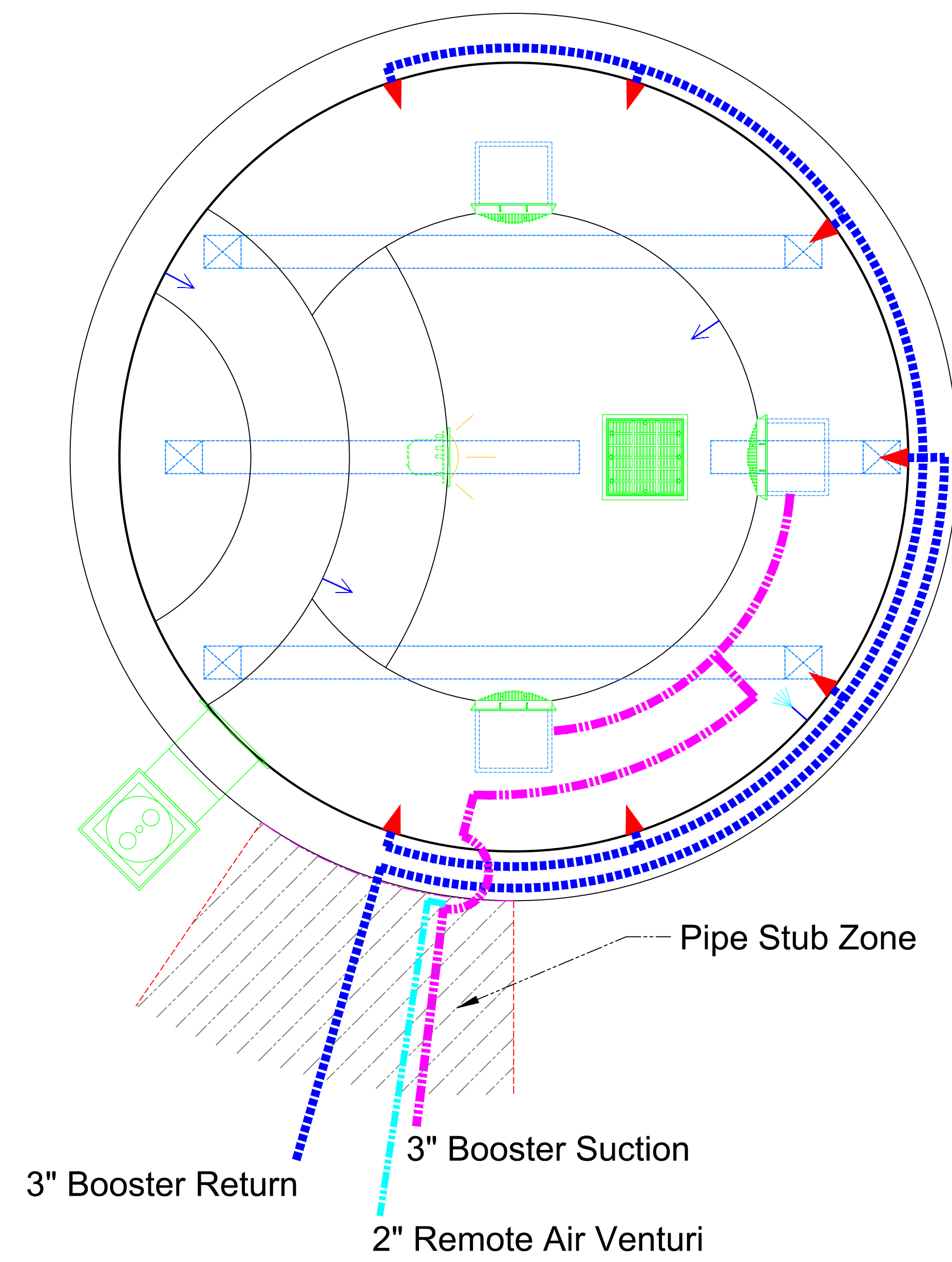
**FILL**  
INLET FITTINGS  
1-1/2" WALL TYPE W/ EYEBALL  
HYDROAIR #10-3500  
COMPLIES W/ ANSI CODE ASME A112.19.8-07 U.L. APPROVED

Approved for Commercial use  
Complies with VGB Pool & Spa Safety Act





**CIRCULATION PLUMBING**



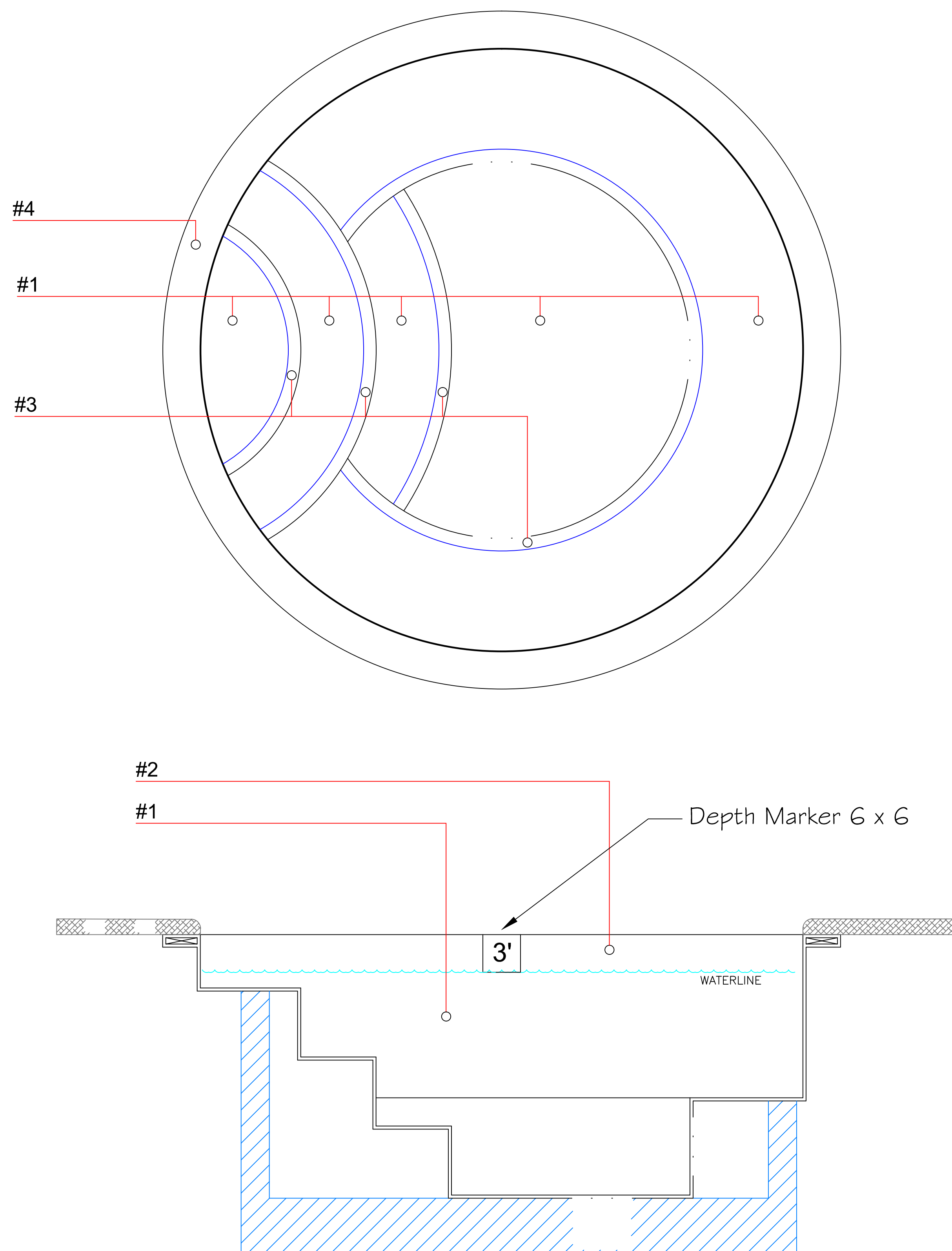
**BOOSTER PLUMBING**



- #1 - FIELD TILE: Dal Tile 2 X 2 Biscuit - D317
- #2 - WATERLINE (optional): NPT 2 X 2 AZ206 - Cobalt 6" Waterline
- #3 - BENCH & STEP EDGES (optional): NPT 2 X 2 AZ206 - Cobalt
- #4 - TILED LIP (optional): Coping Stone by others

Date: \_\_\_\_\_  
 Approval: \_\_\_\_\_

- #1 - GROUT: \_\_\_\_\_
- #2 - GROUT: \_\_\_\_\_
- #3 - GROUT: \_\_\_\_\_



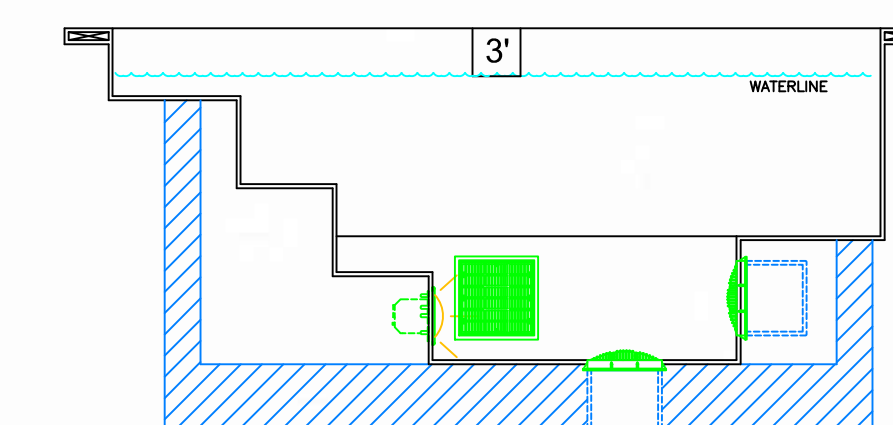
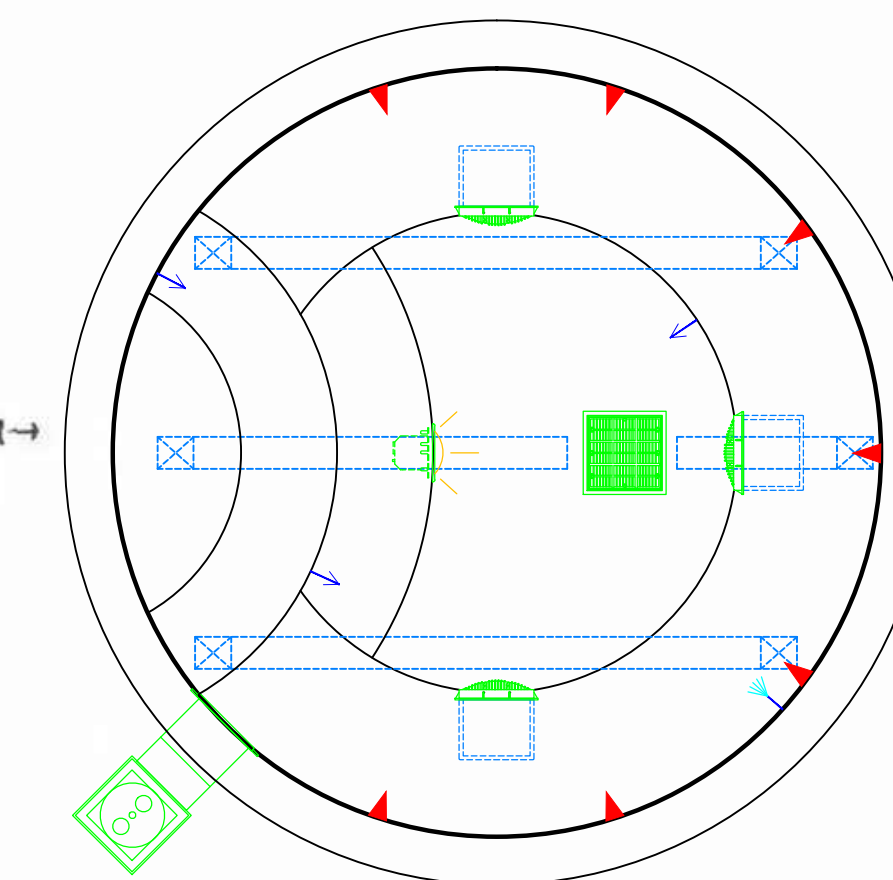
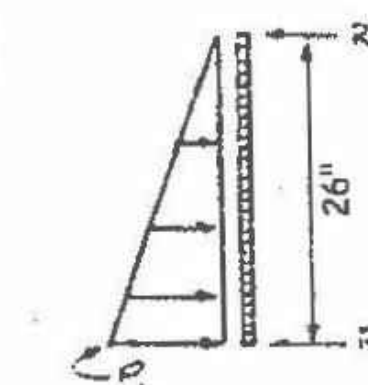
## NESPA Enterprises, Inc.

BY: L.J. Garcia  
 SUBJECT: Basin Design  
 MATERIAL: Fiberglass

Min. Properties  
 $F_b = 28,000 \text{ PSI}$   
 $F_t = 18,000 \text{ PSI}$   
 $E = 890,000 \text{ PSI}$

Wall Design:  
 (Check Imperia)  
 Use 3/8" wall

STIFFENER →  
 (TYP. ALL WALLS)



$$P = 62.4 \text{ \#/ft.}^2$$

$$P_1 = 62.4 \times 29/12 = 150.0 \text{ \#/ft.}$$

$$M \text{ max at } 0.577 l$$

$$M \text{ max} = 0.0641 p_1 l^2$$

$$= 0.0641 \times 62.4 \times \frac{(29)^3}{(12)^3} = 56.5 \text{ \#}$$

$$S = \frac{bd^2}{6} = 12 \times \frac{0.375^2}{6}$$

$$= 0.28 \text{ in}^3/\text{ft}$$

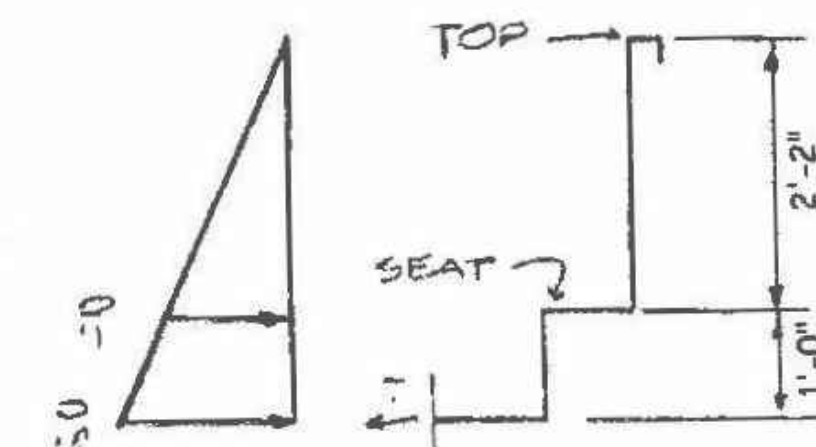
$$f_b = \frac{M}{S} = \frac{56.5 \times 12}{0.28} = 2,421 \text{ psi}$$

$$F_b = 28,000 \text{ PSI}$$

$$F.S. = \frac{F_b}{f_b} = \frac{28,000}{2,421}$$

$$= 11.6$$

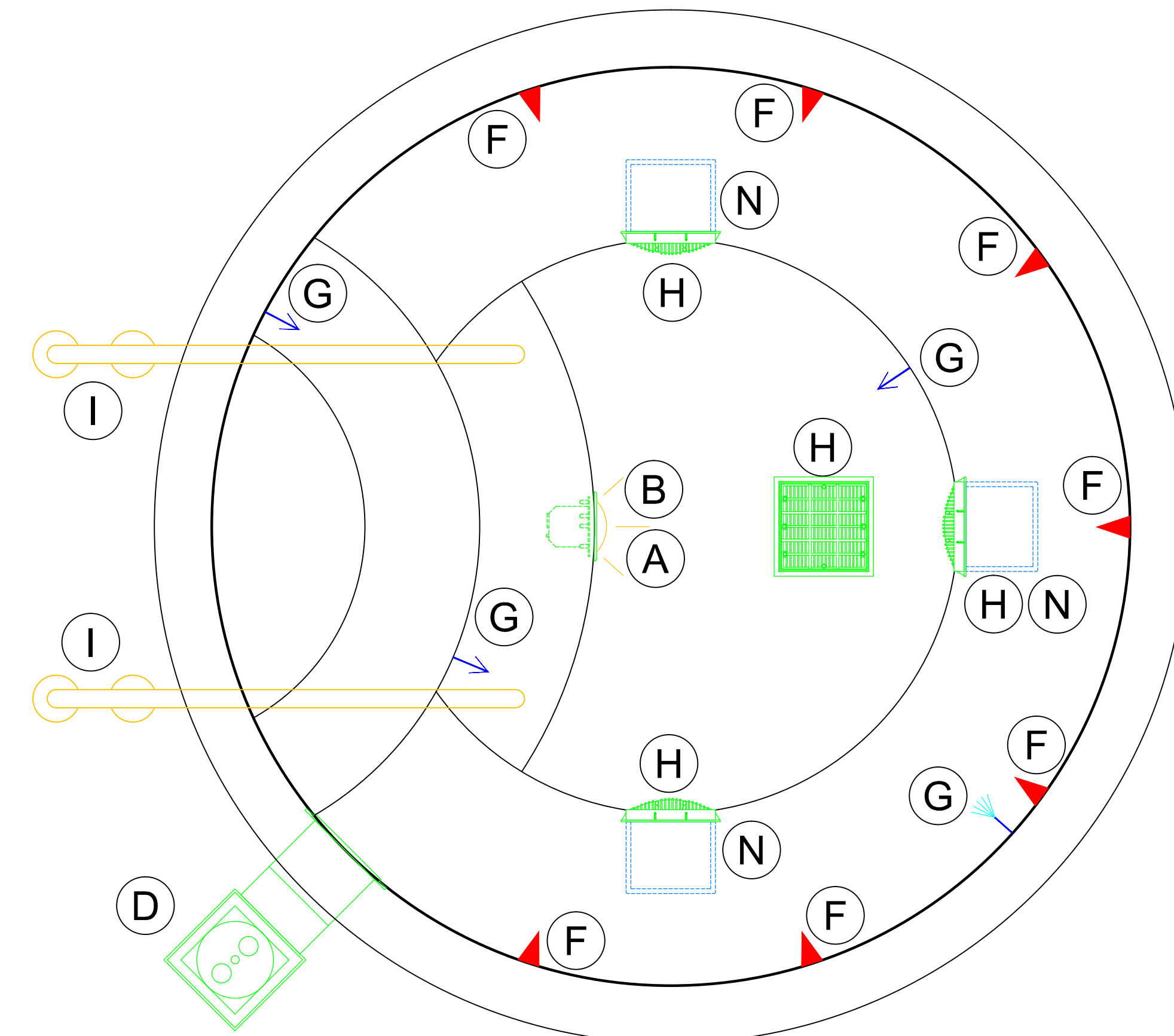
Ceramic Tile Spas & Bathtubs



part. elev  
*Lawrence J. Garcia*  
 P.E. No. License C 026991  
 Custom Handpainted Ceramic Tiles



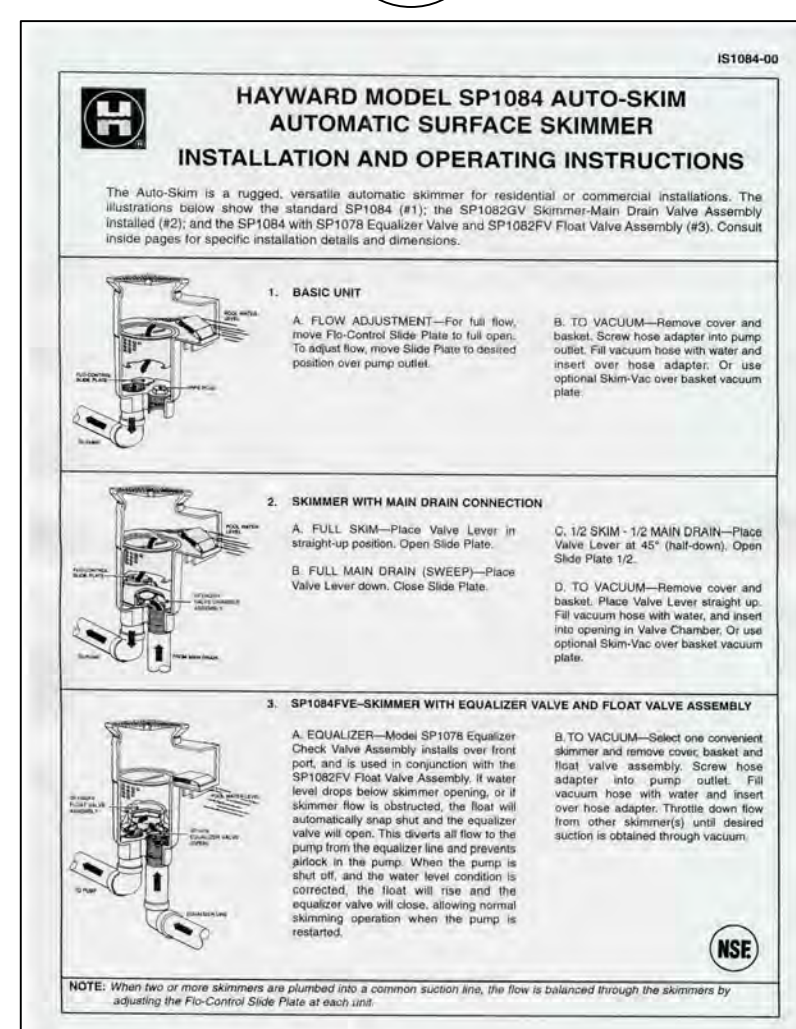
ITEM	DESCRIPTION	MANUFACTURER	CATALOG NO.	QTY.
A	LIGHT NICHE (FOR UNDERWATER LIGHT) W/ 1" HUB	PENTAIR	782423	1
B	SPA BRIGHT UNDERWATER LIGHT, 120 VOLT, 100 WATT, 50' CORD, U.L. APPROVED	PENTAIR	78108100	1
D	SURFACE SKIMMER W/ EQUALIZER, NSF APPROVED	HAYWARD	SP-1084 FVE	1
F	HYDRO INLETS, 1 1/2" WATER, 1 1/2" AIR	HYDROAIR	10-5100	7
G	INLET FITTINGS, 1 1/2", WALL TYPE, W/ EYEBALL	HYDROAIR	10-3500	3
H	WATERWAY # 640-4700 V 9" X 9" FRAME, 39.9 sq. in. open area - Max Flow 289 GPM @ 2.33 fps (floor) Max Flow 198 GPM @ 1.59 fps (wall) COMPLIES W/ ANSI CODE ASME A112.19.8-07 UL APPROVED	WATERWAY	640-4700	4
I	HAND RAIL, STAINLESS STEEL, 4' 0" LENGTH, W/ .065TUBING WALL THICKNESS	S.R. SMITH	DMS - 101	2
N	Nespa MAIN DRAIN SUMP	NESPA	NESPA.SQ.9922	4



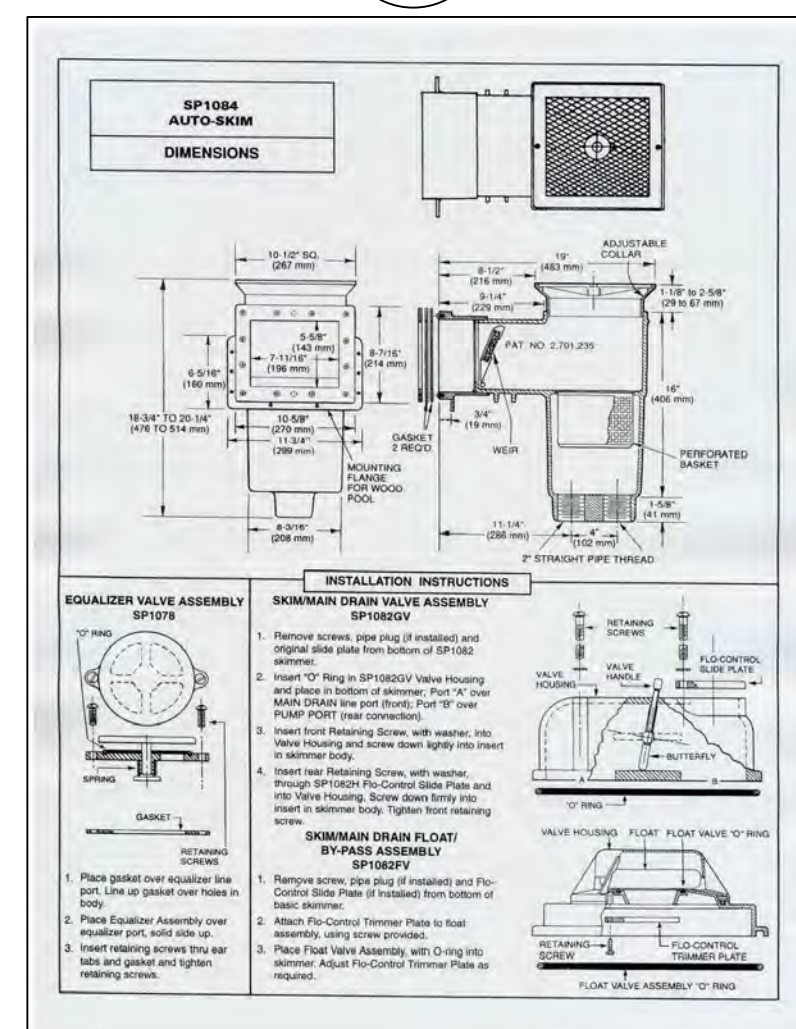
A B



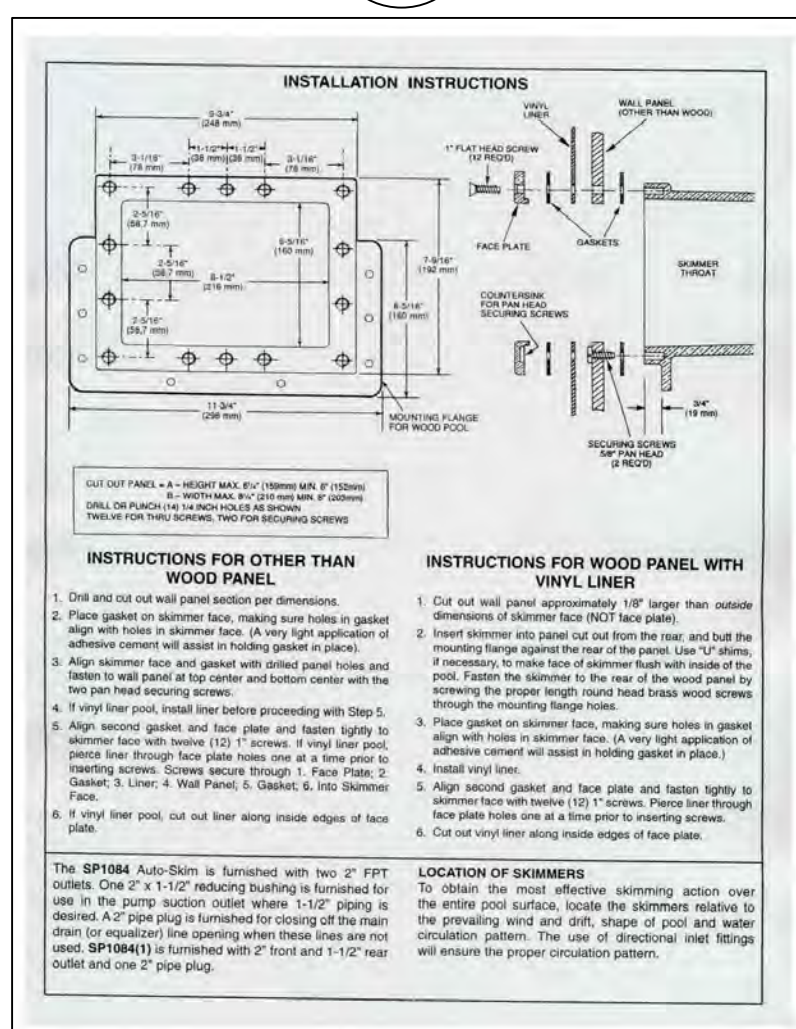
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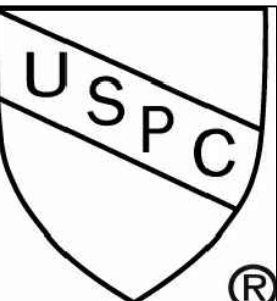
D



N

IAPMO Approved  
Nespa Drain Sump  
(Fiberglass Composite)  
Listed under  
AquaStar IAPMO #SP-4900

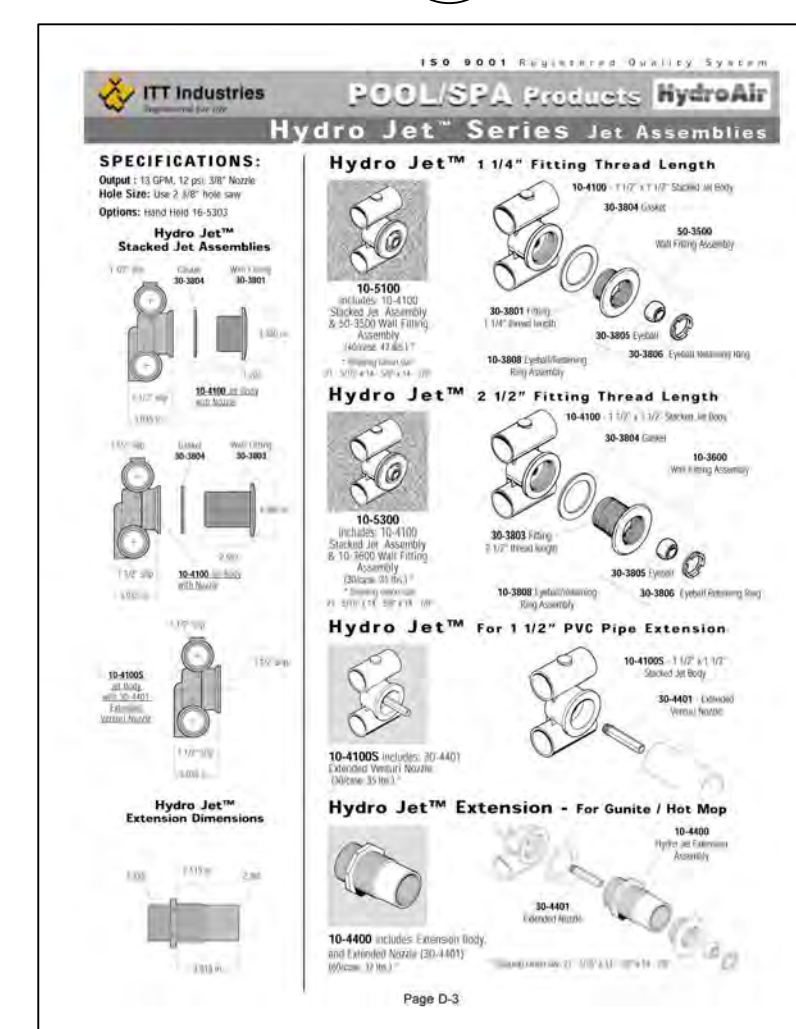
NESPA ENTERPRISES, Inc.  
Listed



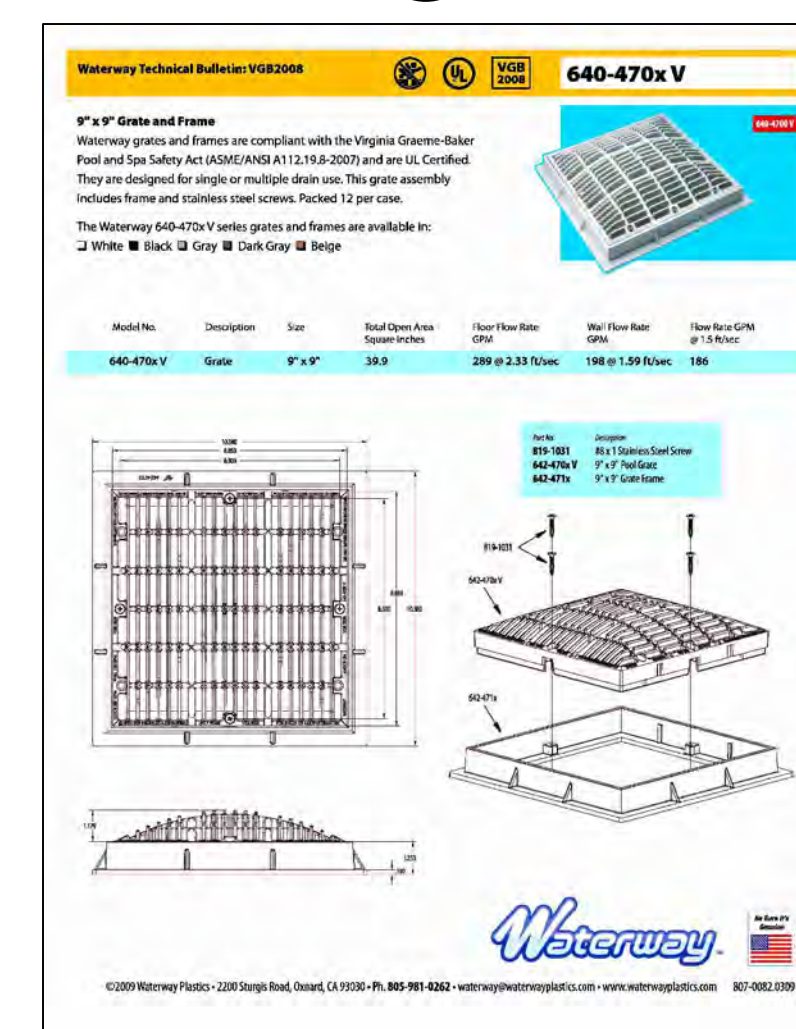
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NESPA.32CD.4.2,2,2,5,2,5

(530) 534 - 9910

F



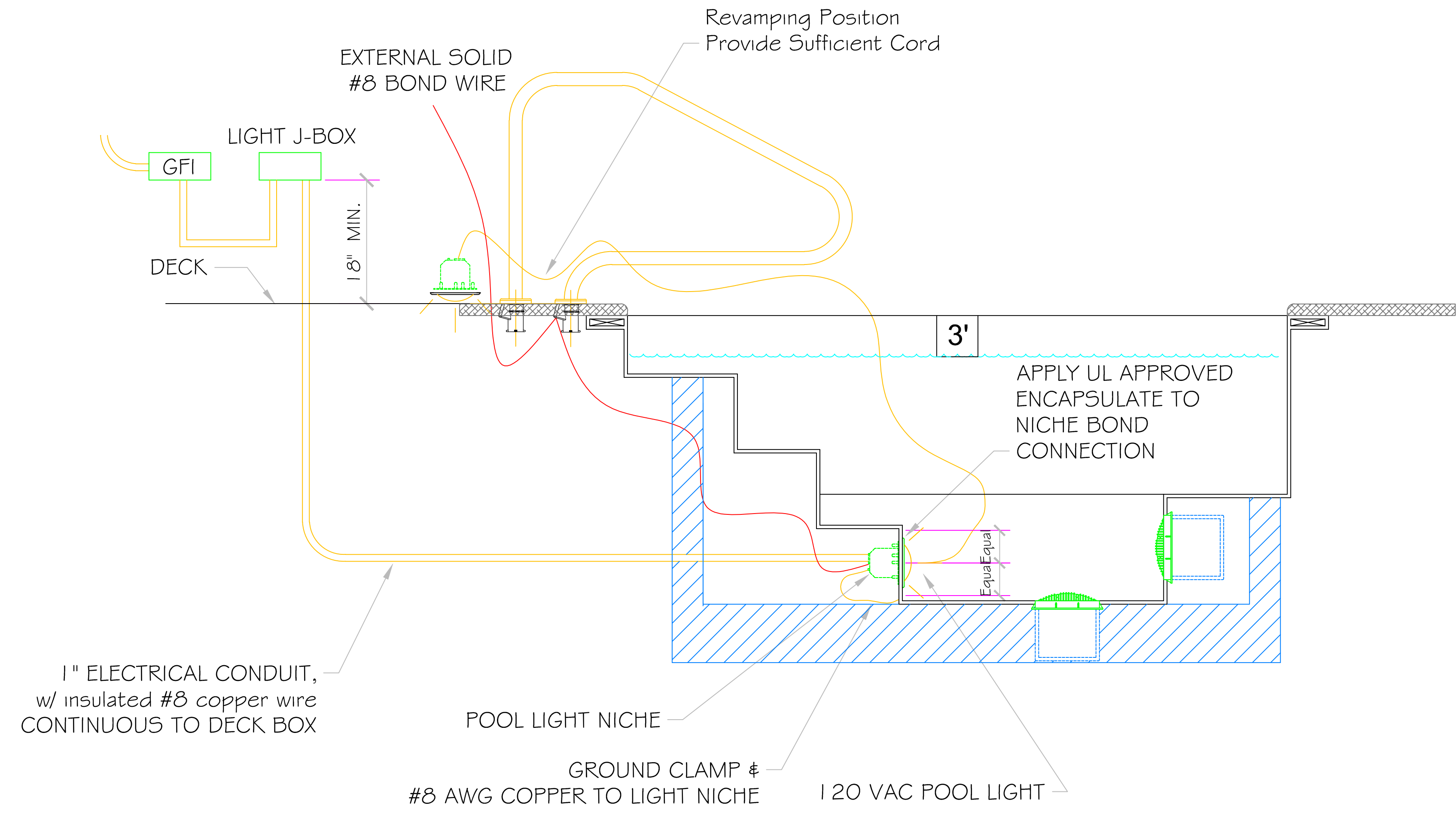
H



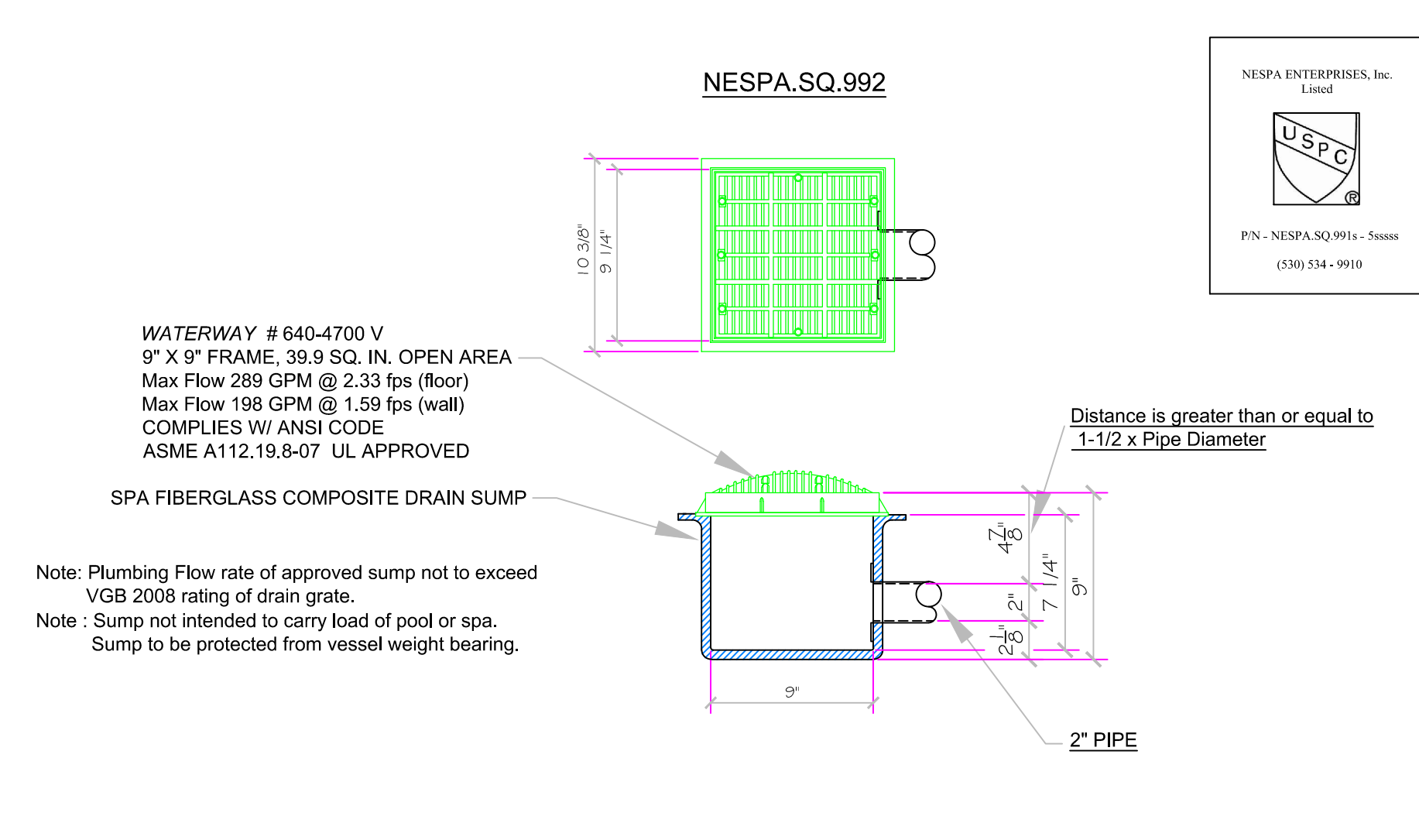
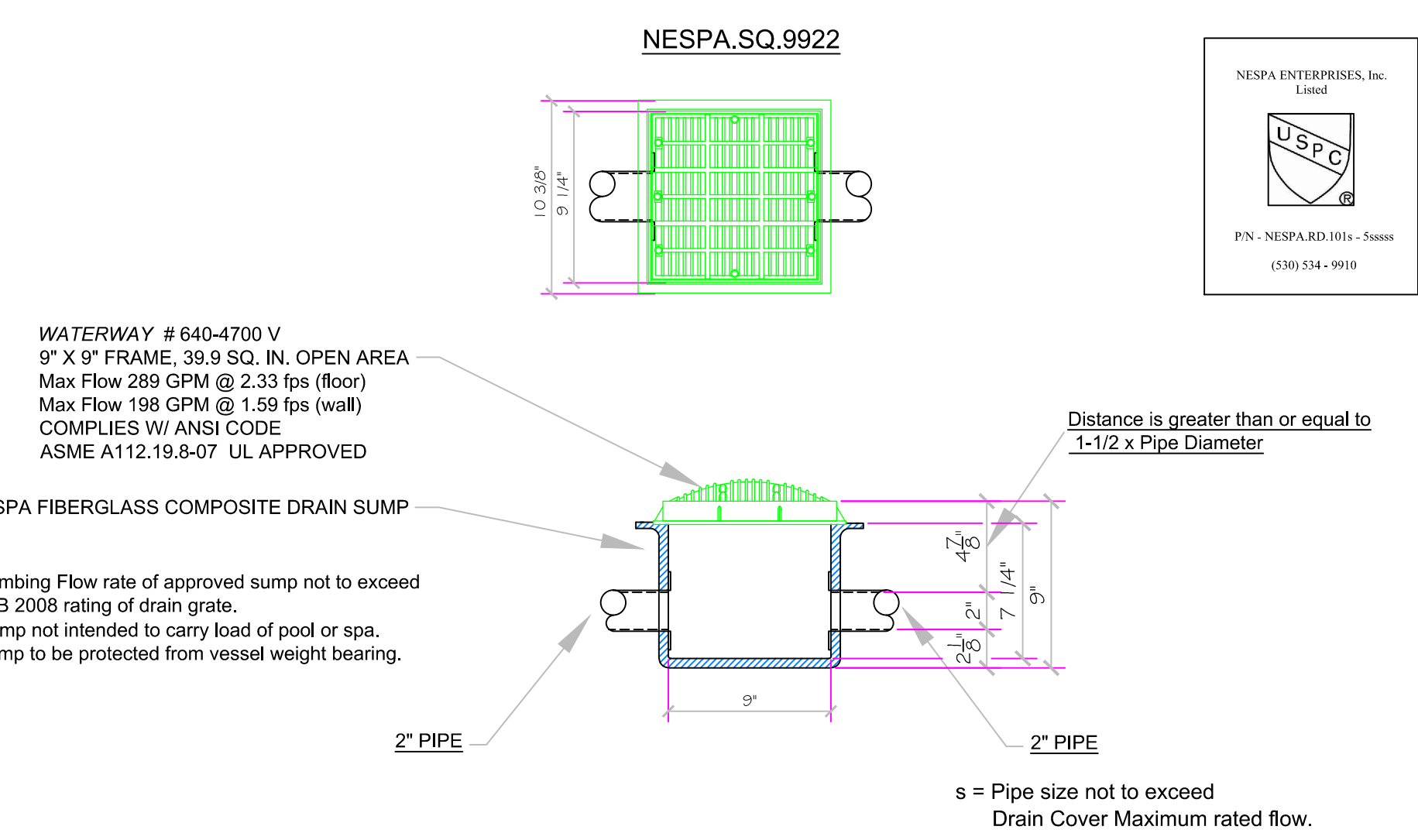


**POOL BONDING REQUIREMENTS:**

1. THE FOLLOWING PARTS SHALL BE BONDED TOGETHER AND CONNECTED TO THE COMMON BONDING GRID.
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SCALE  
1" = 1'





**MAIN DRAIN DETAILS**

SCALE  
1 1/2" = 1'



**IAPMO RESEARCH AND TESTING, INC.**  
5001 East Philadelphia Street, Ontario, California 91761-2816 • (909) 472-4100 Fax (909) 472-4244 • www.iapmo.org

## CERTIFICATE OF LISTING


IAPMO Research and Testing, Inc. is a product certification body which tests and inspects samples taken from the supplier's stock or from the market as a condition of both to verify compliance to the requirements of applicable codes and standards. This activity is coupled with periodic surveillance of the supplier's factory and warehouses as well as the assessment of the supplier's Quality Assurance System. This listing is subject to the conditions set forth in the characteristics herein and is not to be construed as any recommendation, assurance or guarantee by IAPMO Research and Testing, Inc. of the product acceptance by Authorities Having Jurisdiction.

Effective Date: September 2010      Void After: September 2011


Product: Spa Shell (Tile Lined FRP)      File No. SP-1138

Issued To: Nespa, Inc.  
2900 Richter Ave Unit#e  
Oroville, CA 95966

IDENTIFICATION: The manufacturer's name or trademark, or both, and the USPC® certification mark shall be permanently and legibly marked on the unit so as to be visible after installation. A label shall be permanently affixed to each unit in a visible location and shall include the manufacturer's name and/or trademark, and model designation. Units manufactured as "Shell Only" shall be so identified and labeled. Unit shall be permitted to be marked "ANSI 2124.7" signifying compliance with this standard.

  
 Chairman, Product Certification Committee

  
 CEO, The IAPMO Group



For the most accurate and updated information please visit <http://pfd.iapmo.org/SP-1138>

This listing is for the period indicated herein and is void after the date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of the Product Certification Committee, or any evidence of non-compliance with applicable codes and standards or of inferior workmanship, may be deemed sufficient cause for revocation of this listing. Reproduction of or reference to this form for advertising purposes may be made only by specific written permission of IAPMO Research and Testing, Inc. Any alteration of this certificate could be grounds for revocation of the listing.

DOC#081A

**IAPMO RESEARCH AND TESTING, INC.**  
**CERTIFICATE OF LISTING**

Page 3      Void After: September 2011      File No. SP-1138

Product: Spa Shell (Tile Lined FRP)

Issued To: Nespa, Inc.

MODEL#:

Acapulco	Mirage 11'
Acapulco II	Mirage 13'
Acapulco III	Mirage 15'
Acapulco IV	Mirage 17'
Blackthorne	Mirage 9'
Capri	Monaco
Caribbean	Nespa Swim Spa-12'
Coreica	Nespa Swim Spa-16'
Coreica-Modified	Nespa Swim Spa-18'
Eight Ft. Round	Nespa Swim Spa-20'
Imperia	Rimini
Imperia II	Rimini Commercial
Kidney	Round* 11'
Legacy 10'	Round* 7'
Legacy 12'	Round* 9'
Legacy 14'	Round* 12'
Legacy 16'	Six Ft. Round
Legacy 18'	Tabco*
Legacy 20'	Ten Ft. Round
Maxima	Vallarta

Note: Models with an "\*" indicate that the tile size must be 2" x 2"

DOC#081A

**IAPMO RESEARCH AND TESTING, INC.**  
**CERTIFICATE OF LISTING**

Page 2      Void After: September 2011      File No. SP-1138

Product: Spa Shell (Tile Lined FRP)

Issued To: Nespa, Inc.

CHARACTERISTICS:

Tile lined, polyester resin reinforced fiberglass spa shells in various colors, sizes, and configurations. May or may not be provided with insulation. All units, whether factory or field assembled, are required to have suction fittings installed which are listed to ANSI A112.19.8-2007 for anti-hair and body entrapment per section 308(d) and (e) of the USPC®. All units are listed for above or below ground installation and may be portable or permanent.

Products comply with the applicable sections of the latest edition of the Uniform Swimming Pool, Spa and Hot Tub Code® and the International Plumbing Code®. Manufactured in compliance with ANSI Z124.7-97.

Products listed on this certificate have been tested by an IAPMO R&T recognized laboratory. This recognition has been granted based upon the laboratory's compliance to the applicable requirements of ISO/IEC 17025.

DOC#081A

**IAPMO RESEARCH AND TESTING, INC.**  
**CERTIFICATE OF LISTING**

Page 4      Void After: September 2011      File No. SP-1138

Product: Spa Shell (Tile Lined FRP)

Issued To: Nespa, Inc.

ADDITIONAL COMPANY INFO:

DOC#081A

**IAPMO RESEARCH AND TESTING, INC.**  
**CERTIFICATE OF LISTING**

5001 E. Philadelphia Street, Ontario, CA 91761-2816 • (909) 472-4100 • Fax (909) 472-4244 • www.iapmo.org





## CERTIFICATE OF LISTING

IAPMO Research and Testing, Inc. is a product certification body which tests and inspects samples taken from the supplier's stock or from the market as a condition of both to verify compliance to the requirements of applicable codes and standards. This activity is coupled with periodic surveillance of the supplier's factory and warehouses as well as the assessment of the supplier's Quality Assurance System. This listing is subject to the conditions set forth in the characteristics herein and is not to be construed as any recommendation, assurance or guarantee by IAPMO Research and Testing, Inc. of the product acceptance by Authorities Having Jurisdiction.

Effective Date: February 2010      -Rev. 3/4/2010-      Void After: September 2011

Product: **Suction Fittings**

Issued To: AQUASTAR POOL PRODUCTS, INC.  
1668 GRADY AVE. #224  
SAN DIEGO, CA 92109

IDENTIFICATION: Fittings shall be permanently marked as follows in a manner visible after installation in the following sequence (1) "AQUASTAR" (2) "For Single or Multiple Drain Use Only", (3) "For Single Drain Use", or "For Multiple Drain Use only"; (4) Maximum flow rate; (5) Type of fitting; (6) Life of the fitting in years; (7) Installation position; (8) Manufacturer's name or registered trademark; (9) Model designation, and the USPC® certification mark.

CHARACTERISTICS: The assembly is comprised of safety cover (brass, stainless steel, or plastic) drain ring and security screws. The cover must require the use of a tool to remove it. May or may not be self-draining. For use in swimming pools, spas, whirlpool, hot tubs and hot tubs. To be installed in accordance with the manufacturer's instructions and the latest edition of the USPC®.

Products comply with the applicable sections of the latest edition of the Uniform Swimming Pool, Spa and Hot Tub Code®. Manufactured in compliance with ANSI A112.19.8-2007 and ANSI A112.19.8a-2008 and NSF 50-2008.

Products listed on this certificate have been tested by an IAPMO R&T recognized laboratory. This recognition has been granted based upon the laboratory's compliance to the applicable requirements of ISO/IEC 17025.

MODEL#:

Models preceded by a "\*" indicates the model is in compliance with Standard NSF 50.

- \*10AV-XXX (Floor: 206 GPM, Wall: 96 GPM)
- \*10AVCOBXXX (Floor: 206 GPM, Wall: 96 GPM)
- \*10AVCOBXXX (Floor: 206 GPM, Wall: 96 GPM)
- \*10AVCOBXXX (Floor: 206 GPM, Wall: 96 GPM)
- \*10AVCOBXXX (Floor: 206 GPM, Wall: 96 GPM)
- \*10AVCOBXXX (Floor: 206 GPM, Wall: 96 GPM)
- \*121E-XXX (Floor: 660 GPM, Wall: 443 GPM)
- \*121E-XXX (Floor: 660 GPM, Wall: 443 GPM)
- \*200C (Floor: 1321 GPM, Wall: 1321 GPM)
- \*200CXXX (Floor: 1326 GPM, Wall: 1326 GPM)

3/4/2010 2:59 PM

**IAPMO RESEARCH AND TESTING, INC.**  
**CERTIFICATE OF LISTING**

Page 1      Void After: September 2011      File No. SP-1138

Product: Spa Shell (Tile Lined FRP)

Issued To: Nespa, Inc.

ADDITIONAL COMPANY INFO:

NESPA ENTERPRISES, INC.  
PENTAIR WATER POOL & SPA

ADDITIONAL COMPANIES: NESPA ENTERPRISES, INC.  
PENTAIR WATER POOL & SPA

ADDITIONAL COMPANY INFO:  
**NESPA ENTERPRISES, INC.**

- NESPA.DD.8 (1-5) S-252523
- NESPA.DD.9 (1-5) S-252523
- NESPA.DD.10 (1-5) S-252523
- NESPA.DD.11 (1-5) S-252523
- NESPA.DD.12 (1-5) S-252523
- NESPA.DD.13 (1-5) S-252523
- NESPA.DD.14 (1-4) S-252523
- NESPA.DD.15 (1-5) S-252523
- NESPA.DD.16 (1-5) S-252523
- NESPA.DD.17 (1-5) S-252523
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- NESPA.DD.93 (1-5) S-252523
- NESPA.DD.94 (1-5) S-252523
- NESPA.DD.95 (1-5) S-252523
- NESPA.DD.96 (1-5) S-252523
- NESPA.DD.97 (1-5) S-252523
- NESPA.DD.98 (1-5) S-252523
- NESPA.DD.99 (1-5) S-252523
- NESPA.DD.100 (1-5) S-252523

PIPE CODES:  
(VALUE FOR S)

1" = 10  
1.5" = 15  
2" = 20  
2.5" = 25  
3" = 30  
4" = 40  
6" = 60  
8" = 80  
10" = 100

\* "10" = # of Ports  
\* xxx = Color Code

**PENTAIR WATER POOL & SPA**

Model No.

- \*S0800 = 9"x9" Grate & Frame (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0801 = 9"x9" Grate & Frame (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0802 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0803 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0804 = 9"x9" Grate & Frame w/Fiberglass 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0805 = 9"x9" Grate & Frame w/Fiberglass 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0806 = 9"x9" Grate & Frame w/Fiberglass 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0807 = 9"x9" Grate & Frame w/Fiberglass 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0808 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0809 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0810 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0811 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0812 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0813 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0814 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0815 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0816 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0817 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0818 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0819 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0820 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0821 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0822 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0823 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0824 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0825 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0826 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0827 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0828 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0829 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0830 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0831 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0832 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0833 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0834 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0835 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0836 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0837 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0838 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0839 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0840 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0841 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0842 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0843 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0844 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0845 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0846 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0847 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0848 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0849 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0850 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0851 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0852 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0853 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0854 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0855 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0856 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0857 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0858 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0859 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0860 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0861 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0862 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0863 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0864 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0865 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0866 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0867 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0868 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0869 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0870 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0871 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0872 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0873 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0874 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0875 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0876 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0877 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0878 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0879 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0880 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0881 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0882 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0883 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0884 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0885 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0886 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0887 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0888 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0889 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0890 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0891 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0892 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0893 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0894 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0895 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0896 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0897 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0898 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0899 = 9"x9" Grate & Frame w/Single 4" Port Pump (Black) (Floor: 270 GPM, Wall: 270 GPM)
- \*S0900 = 9"x9" Grate & Frame w/Single 4" Port Pump (White) (Floor: 270 GPM, Wall: 270 GPM)

3/4/2010 2:59 PM

**IAPMO RESEARCH AND TESTING, INC.**  
**CERTIFICATE OF LISTING**

Page 1      Void After: September 2011      File No. SP-1138

Product: Spa Shell (Tile Lined FRP)

Issued To: Nespa, Inc.

ADDITIONAL COMPANY INFO:

NESPA ENTERPRISES, INC.  
PENTAIR WATER POOL & SPA

ADDITIONAL COMPANIES: NESPA ENTERPRISES, INC.  
PENTAIR WATER POOL & SPA

ADDITIONAL COMPANY INFO:  
**NESPA ENTERPRISES, INC.**

- NESPA.DD.8 (1-5) S-252523
- NESPA.DD.9 (1-5) S-252523
- NESPA.DD.10 (1-5) S-252523
- NESPA.DD.11 (1-5) S-252523
- NESPA.DD.12 (1-5) S-252523
- NESPA.DD.13 (1-5) S-252523
- NESPA.DD.14 (1-4) S-252523
- NESPA.DD.15 (1-5) S-252523
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- NESPA.DD.28 (1-5) S-252523
- NESPA.DD.29 (1-5) S-252523
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