

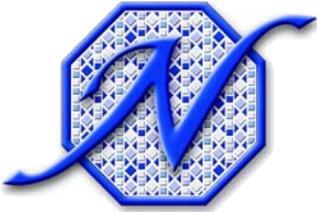
NESPA
TILED SPAS

Production Booklet

for

GATEWAY CANYONS SPAS

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

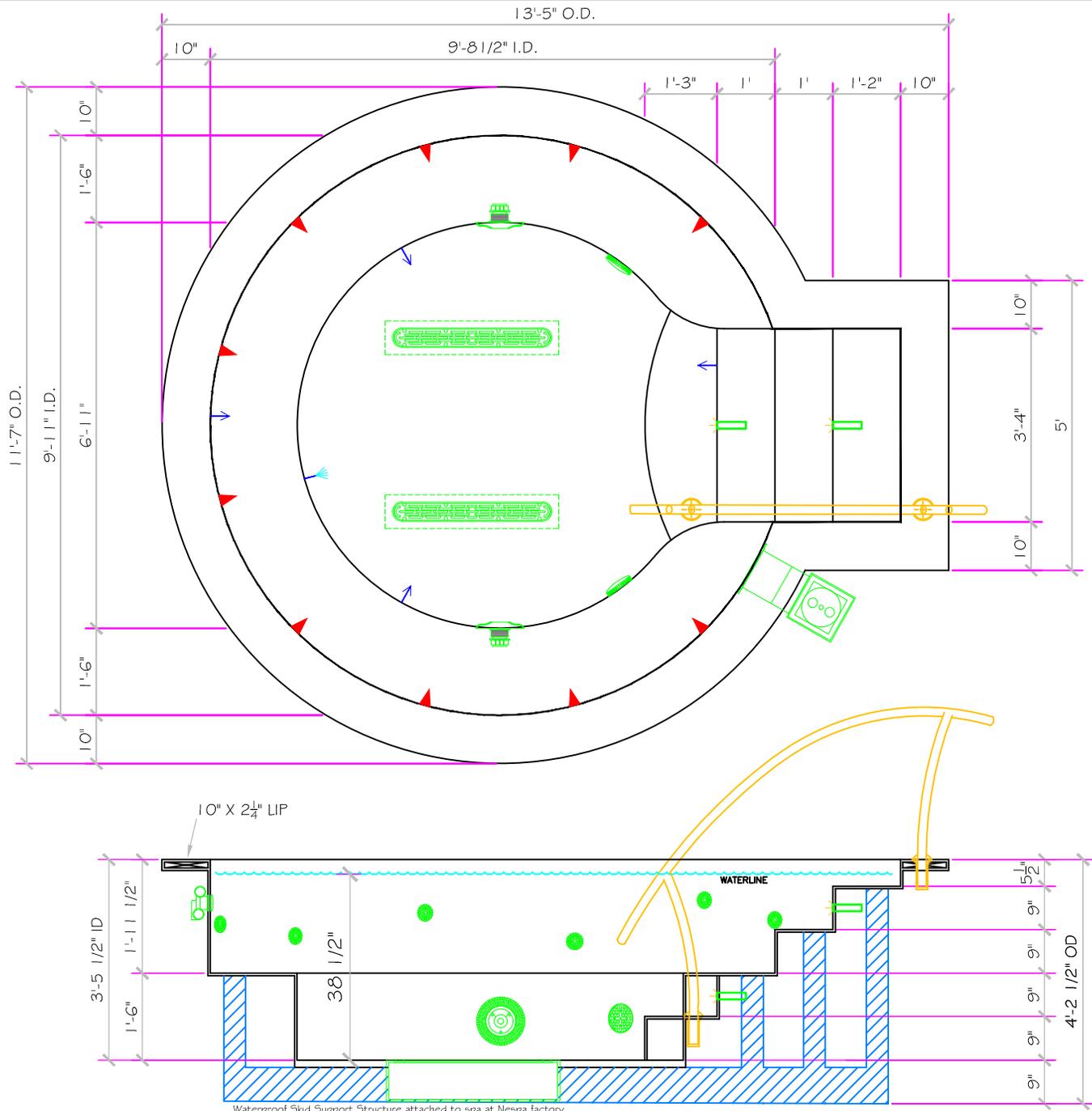
SPECIFICATIONS	
SHELL WEIGHT:	3500 LBS.
WATER WEIGHT:	13844 LBS.
TOTAL SHELL & WATER WEIGHT:	17344.1 LBS.
WATER VOLUME:	222 Cu.Ft.
WATER GALLONS:	1661 GAL.
SURFACE AREA:	84.1 SQ. FT.
ICC ES LISTED #:	PMG-1161

NESPA ENTERPRISES, Inc.



ICC ES Listed
PMG-1161

WATERPROOF SKID SUPPORT STRUCTURE ATTACHED TO SPA AT NESPA FACTORY	
<input checked="" type="checkbox"/>	*SKIDS SUPPLIED BY NESPA
LIGHT NICHE	
	NEXXUS LED 5w
MAIN DRAIN	
	
AquasStar 32CDFLFR, 32" Channel Drain, Approved Max Flow Rate: Floor = 236 GPM @ 3.4 fpm, Wall = 136 GPM @ 1.9 fpm, Complies w/ ANSI / ASME A112.19.8 & NSF / ANSI 16-2011	
MAIN DRAIN SUMP	
	
Nespa AquasStar Approved Sump, HPMCO Approval # SP4900	
SIDEWALL SUCTION	
	
Paramount SDX 10" HIGH FLOW SAFETY DRAIN, Area of Opening = 43.201 in², Floor = 200 GPM @ 1.485 fpm, Wall = 192 GPM @ 1.426 fpm, V.G.B Approved Safety Drain	
EQUALIZER	
	
6" Round Hockey Puck, AquasStar 6RPHAxXX, Sumpless Suction Outlet, Floor 177 GPM, Wall 122 GPM, Complies w/ ANSI / ASME A112.19.8 & NSF / ANSI 16-2011	
SKIMMER	
	
HAYWARD SP-1084FVE SURFACE SKIMMER W/ EQUALIZERS, NSF / ANSI 50 - 2012	
JET	
	
HYDRO INLETS, 1-1/2" WATER - 1-1/2" AIR, HYDROAIR #10-3500, COMPLIES W/ ANSI CODE ASME A112.19.8-07, UL APPROVED	
RETURN	
	
INLET FITTINGS, 1-1/2" WALL TYPE W/ EYEBALL, HYDROAIR #10-3500, COMPLIES W/ ANSI CODE ASME A112.19.8-07, UL APPROVED	
FILL	
	
INLET FITTINGS, 1-1/2" WALL TYPE W/ EYEBALL, HYDROAIR #10-3500, COMPLIES W/ ANSI CODE ASME A112.19.8-07, UL APPROVED	



AS-BUILT

ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

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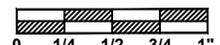
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DWG NAME

GATEWAY CANYONS

SCALE
3/8" = 1'



DATE

3/6/2015

DWG TYPE

SD Mens

SHEET

PAGE 1 OF 14

SPECIFICATIONS	
SHELL WEIGHT:	3500 LBS.
WATER WEIGHT:	13844 LBS.
TOTAL SHELL & WATER WEIGHT:	17344.1 LBS.
WATER VOLUME:	222 Cu.Ft
WATER GALLONS:	1661 GAL.
SURFACE AREA:	84.1 SQ. FT.
ICC ES LISTED #:	PMG-1161

NESPA ENTERPRISES, Inc.



ICC ES Listed
PMG-1161

WATERPROOF SKID SUPPORT
STRUCTURE ATTACHED TO
SPA AT NESPA FACTORY

*SKIDS SUPPLIED
BY NESPA

LIGHT NICHE

NEXXUS
LED 5w

MAIN DRAIN

AquaStar 32CDFLFR, 32" Channel Drain.
Approved Max Flow Rate: Floor = 236 GPM
@ 3.4 lps Wall = 136 GPM @ 1.9 lps
Complies w/ ANSI / ASME A112.19.8
& NSF / ANSI 16-2011

MAIN DRAIN SUMP

Nespa AquaStar Approved Sump
IAPMO Approval # SP4900

SIDEWALL SUCTION

Paramount SDX 10"
HIGH FLOW SAFETY DRAIN
Area of Opening = 43,201 in²sq
Floor = 200 GPM @ 1,495 lps
Wall = 192 GPM @ 1,426 lps
V.G.B Approved Safety Drain

EQUALIZER

6" Round Hookup Puck
AquaStar 6HPPAxxx
Sumpluss Suction Outlet
Floor 177 GPM
Wall 122 GPM
Complies w/
ANSI / ASME A112.19.8
& NSF / ANSI 16-2011

SKIMMER

HAYWARD SP-1084FVE
SURFACE SKIMMER
W/ EQUALIZERS,
NSF / ANSI 50-2012

JET

HYDRO INLETS
1-1/2" WATER - 1-1/2" AIR
HYDROAIR #16-510
COMPLIES W/ ANSI CODE ASME A112.19.8-07
UL APPROVED

RETURN

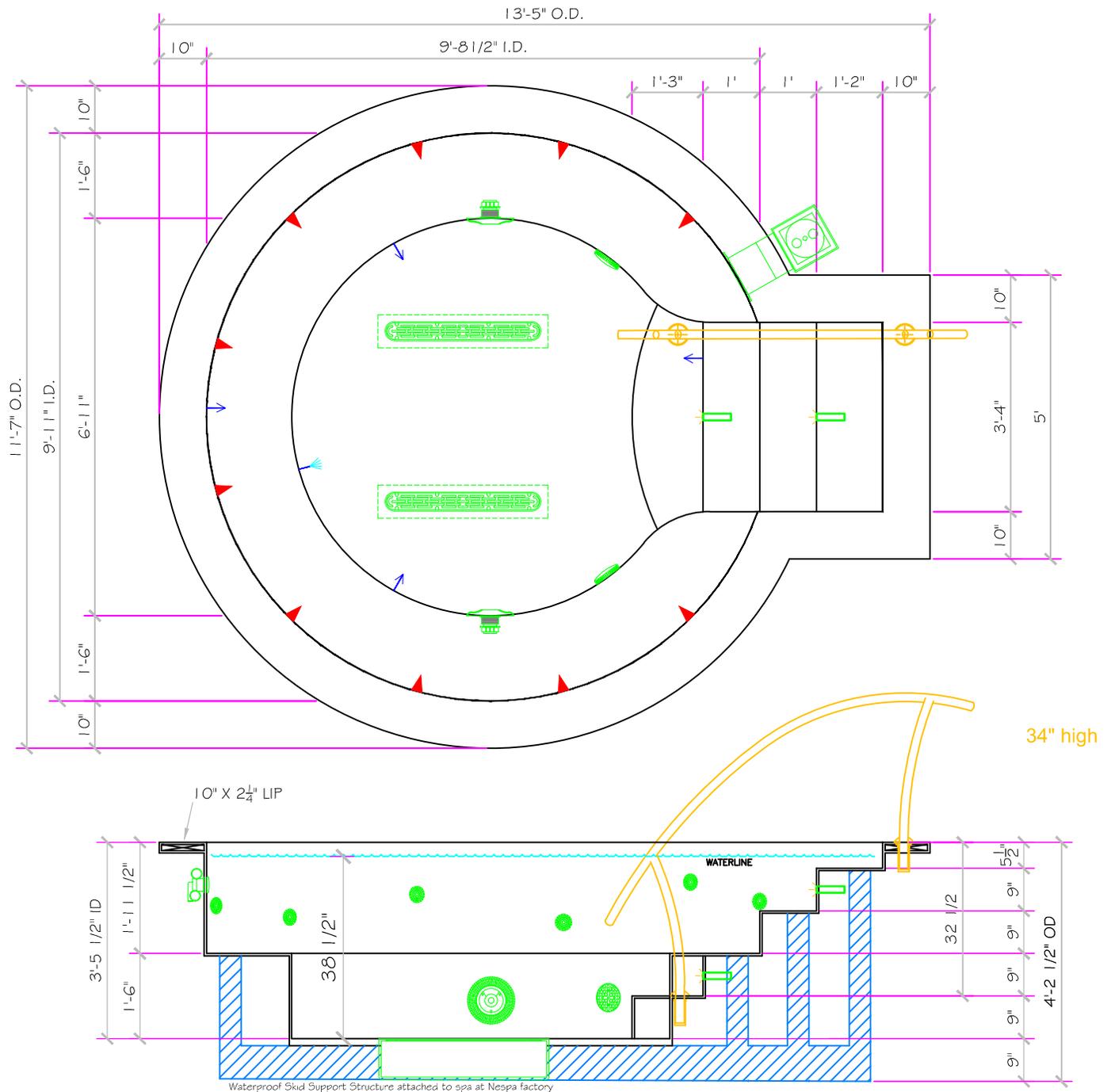
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1-1/2" WALL TYPE W/ EYEBALL
HYDROAIR #10-3500
COMPLIES W/ ANSI CODE ASME A112.19.8-07
UL APPROVED

FILL

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

AS-BUILT

ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES



Waterproof Skid Support Structure attached to spa at Nespa factory

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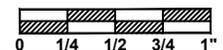
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GATEWAY CANYONS

SCALE
3/8" = 1'



DATE

3/6/2015

DWG TYPE

SD Womens

SHEET

PAGE 2 OF 14

- #1 - FIELD TILE: Scabos Travertine 2 X 2
- #2 - WATERLINE (optional): Shimmer Teal 9/16" x 9/16" (6")
- #3 - BENCH & STEP EDGES (optional): Shimmer Teal 9/16" x 9/16" (2 Tiles Wide)
- #4 - TILED LIP (optional): (By Others)

Date: _____

Approval: _____

#1 - GROUT: _____

#2 - GROUT: _____

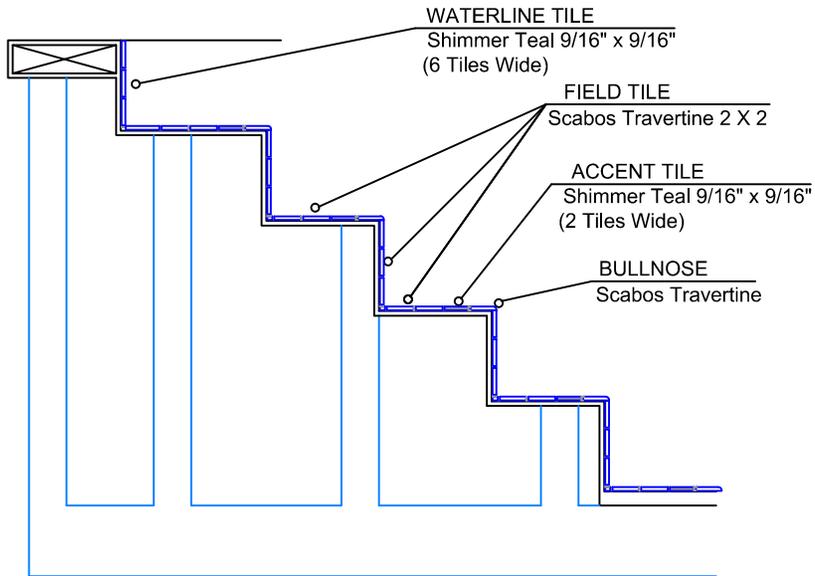
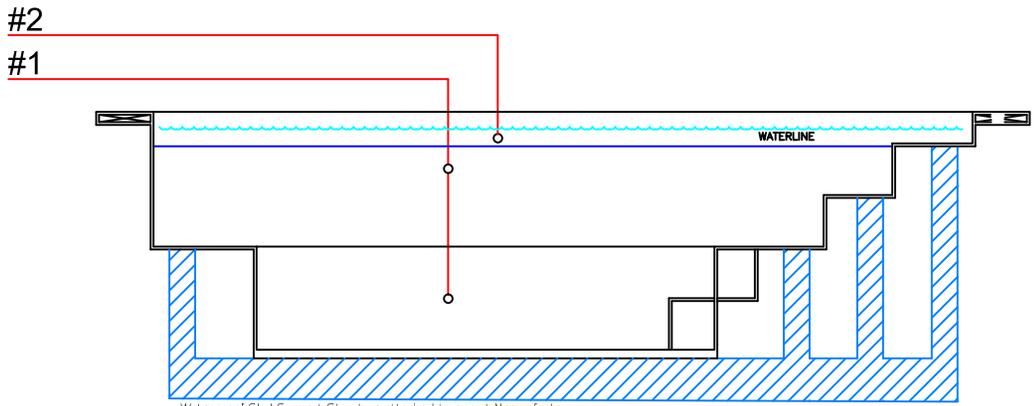
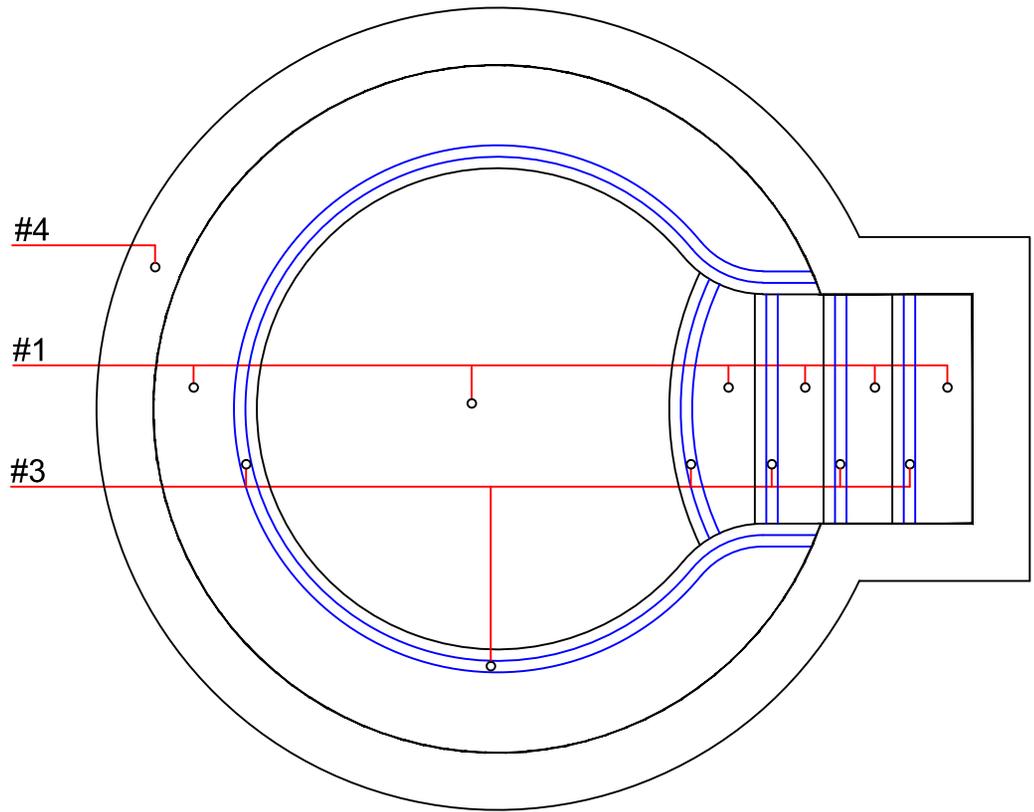
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Scabos Travertine 2 X 2



Shimmer Teal 9/16" x 9/16"



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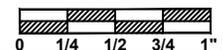


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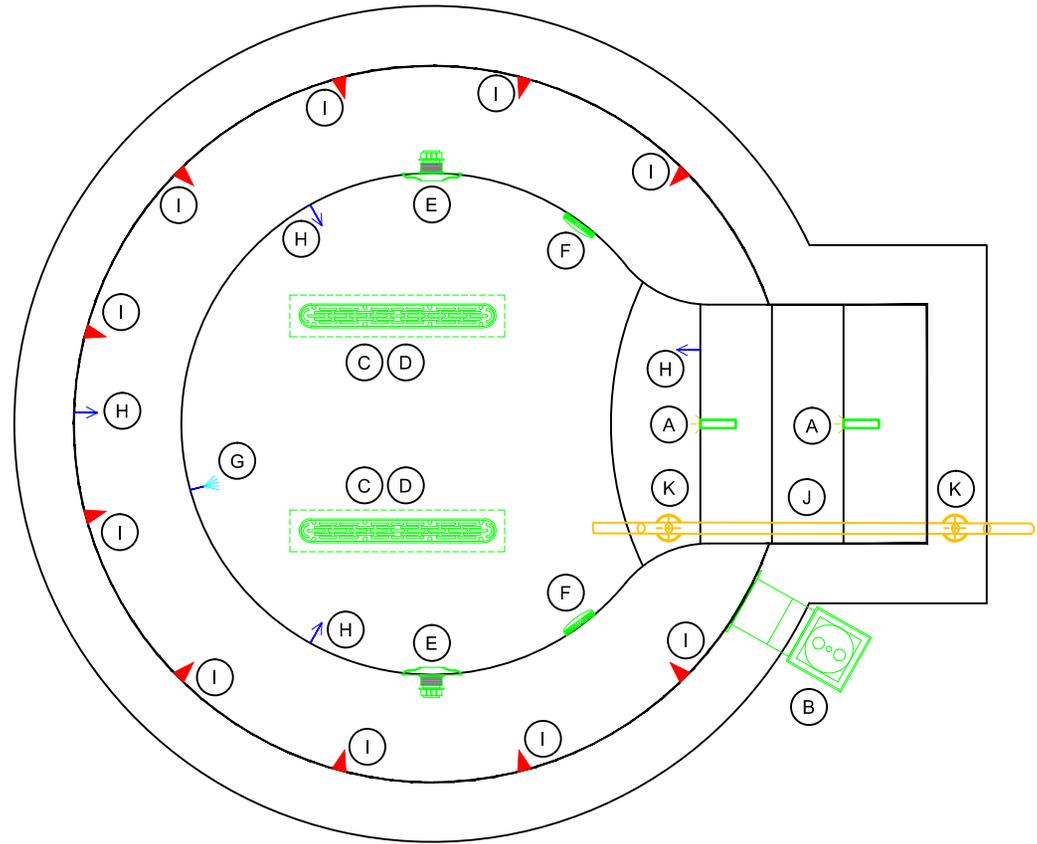


DATE: 1/8/2015

DWG TYPE: Tile
 SHEET: PAGE 3 OF 14

EQUIPMENT LIST

ITEM	DESCRIPTION	MANUFACTURER	CATALOG NO.	QTY.
A	UNDERWATER LIGHT, 12 VOLT, 5 WATT, NEXXUS	NEXXUS	-	2
C	AquaStar 32CDLFR, 32" Channel Drain, Approved Max Flow Rate: Floor = 236 GPM @ 3.4 fps Wall = 136 GPM @ 1.9 fps V.G.B Approved. Safety Drain	AQUASTAR	32CDLFR	2
D	Nespa MAIN DRAIN SUMP IAPMO Approval # SP4900	NESPA	NESPA-32CD, 4,2,2,2.5,2,5	2
E	Paramount SDX 10" Area of Opening = 43.201 in/sq Floor = 200 GPM @ 1.485 fps Wall = 192 GPM @ 1.426 fps Complies w/ ANSI / ASME A112.19.8 & NSF / ANSI 16-2011	PARAMOUNT	SDX-182-2212-01	2
F	6" Round Hockey Puck - <i>Sumplless Suction Outlet</i> Floor 177 GPM - Wall 122 GPM - Complies w/ ANSI / ASME A112.19.8 & NSF / ANSI 16-2011	AQUASTAR	6PHPAxxx	4
G	REFLECTION AND FILL PIPE FITTING W/ GRATE #SP1026	HAYWARD	SP-1023S	1
H	INLET FITTINGS, 1-1/2" CONNECTION W/ DIRECTIONAL EYEBALL FITTING, 3/4" ORIFICE #SP-1419-D.	HAYWARD	SP-1023S	4
I	HYDRO-INLET, 1-1/2" CONNECTION	HYDRO-AIR	10-5100	10
J	HAND RAIL, STAINLESS STEEL, W/ 1.90" TUBING W/ .065" WALL THICKNESS - 4' 0" LENGTH,	S. R. SMITH	CUSTOM	1
K	WEDGE ANCHOR, BRONZE.	S. R. SMITH	IAS - 100	2



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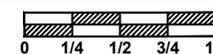
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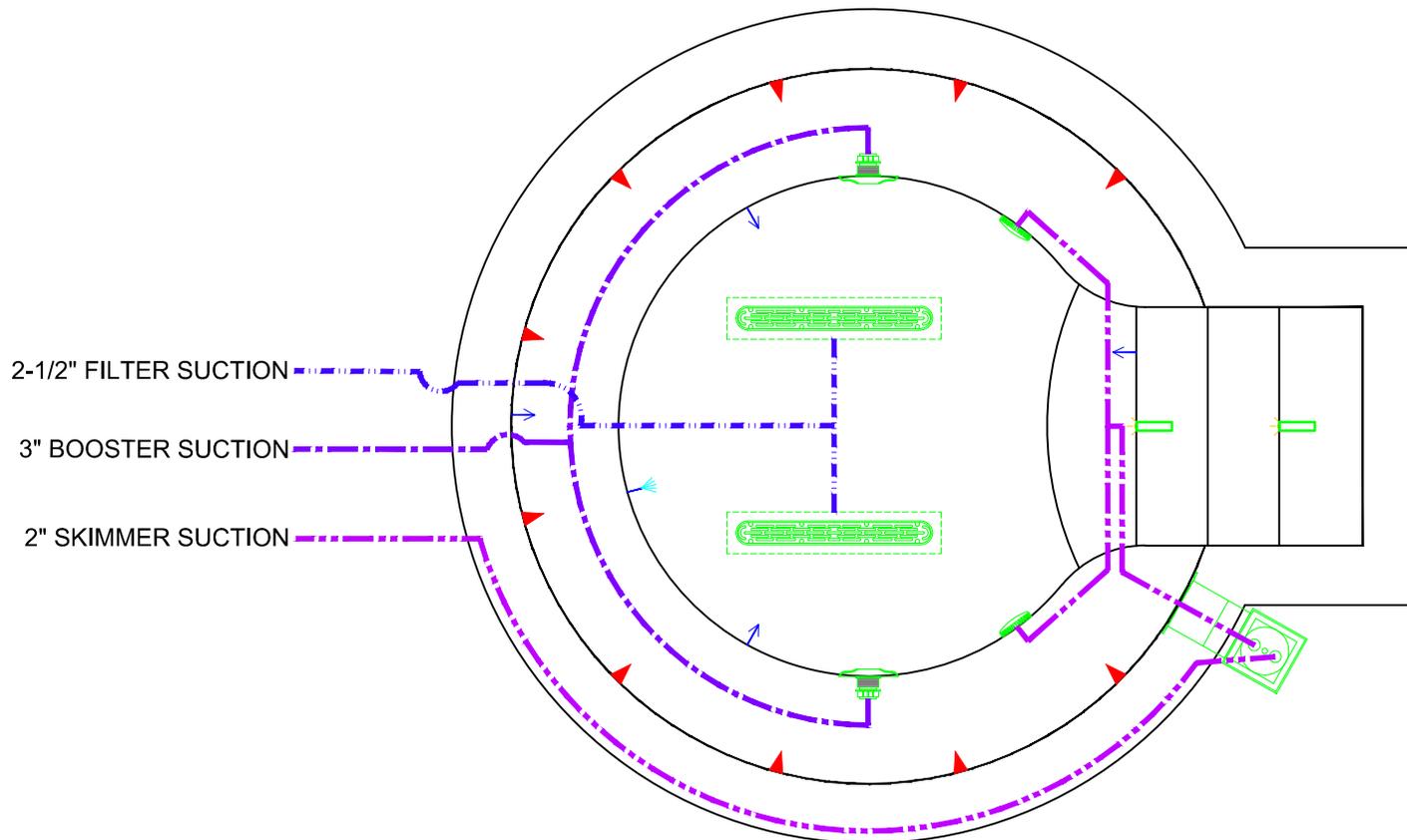


DWG TYPE
Mens Spa Equipment

DWG NAME
GATEWAY CANYONS

DATE
1/8/2015

SHEET
PAGE 4 OF 14



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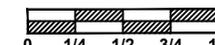
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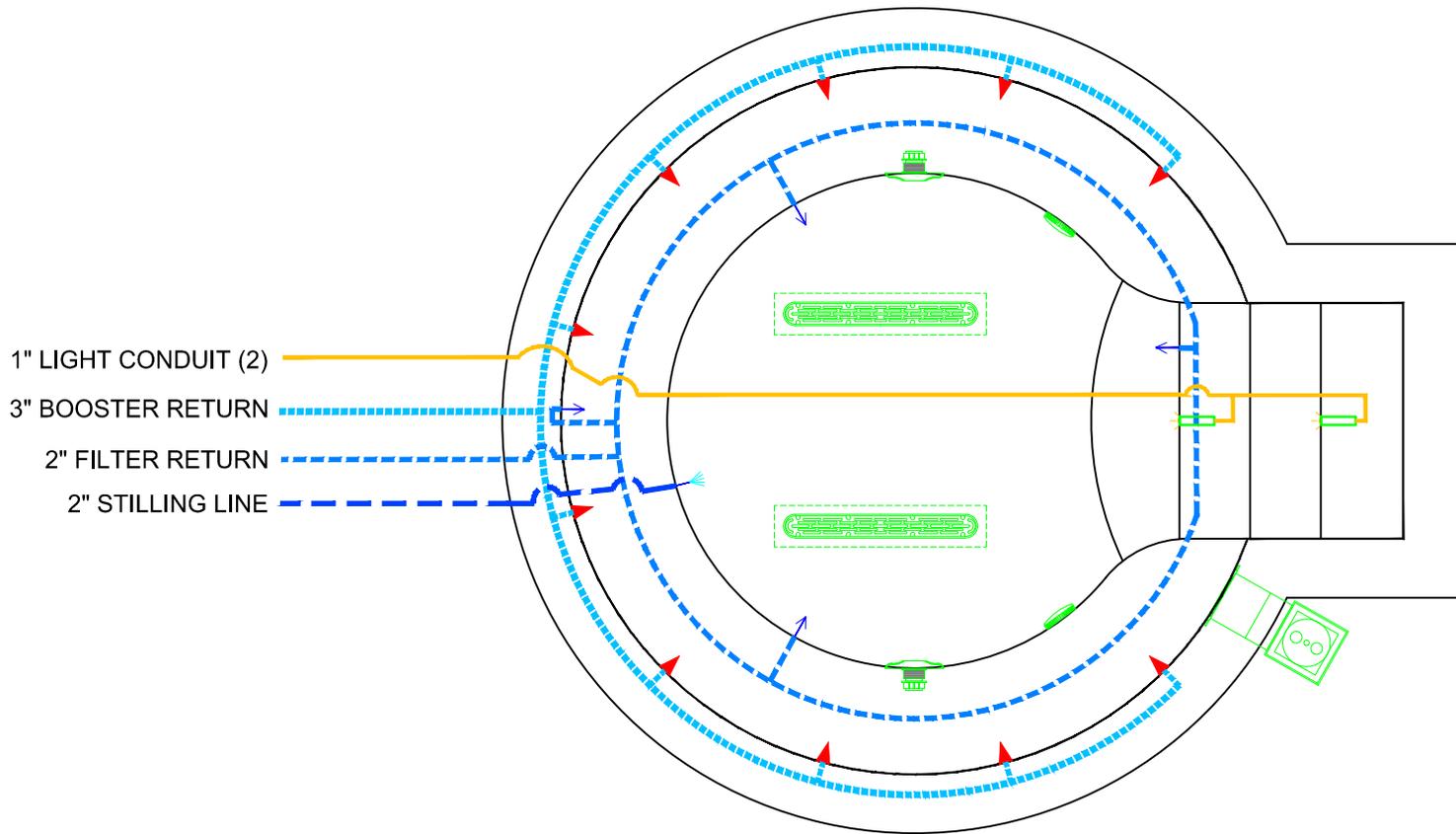


DWG TYPE
 Mens Suction Plumbing

DWG NAME
 GATEWAY CANYONS

DATE
 1/8/2015

SHEET
 PAGE 5 OF 14



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ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

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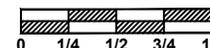
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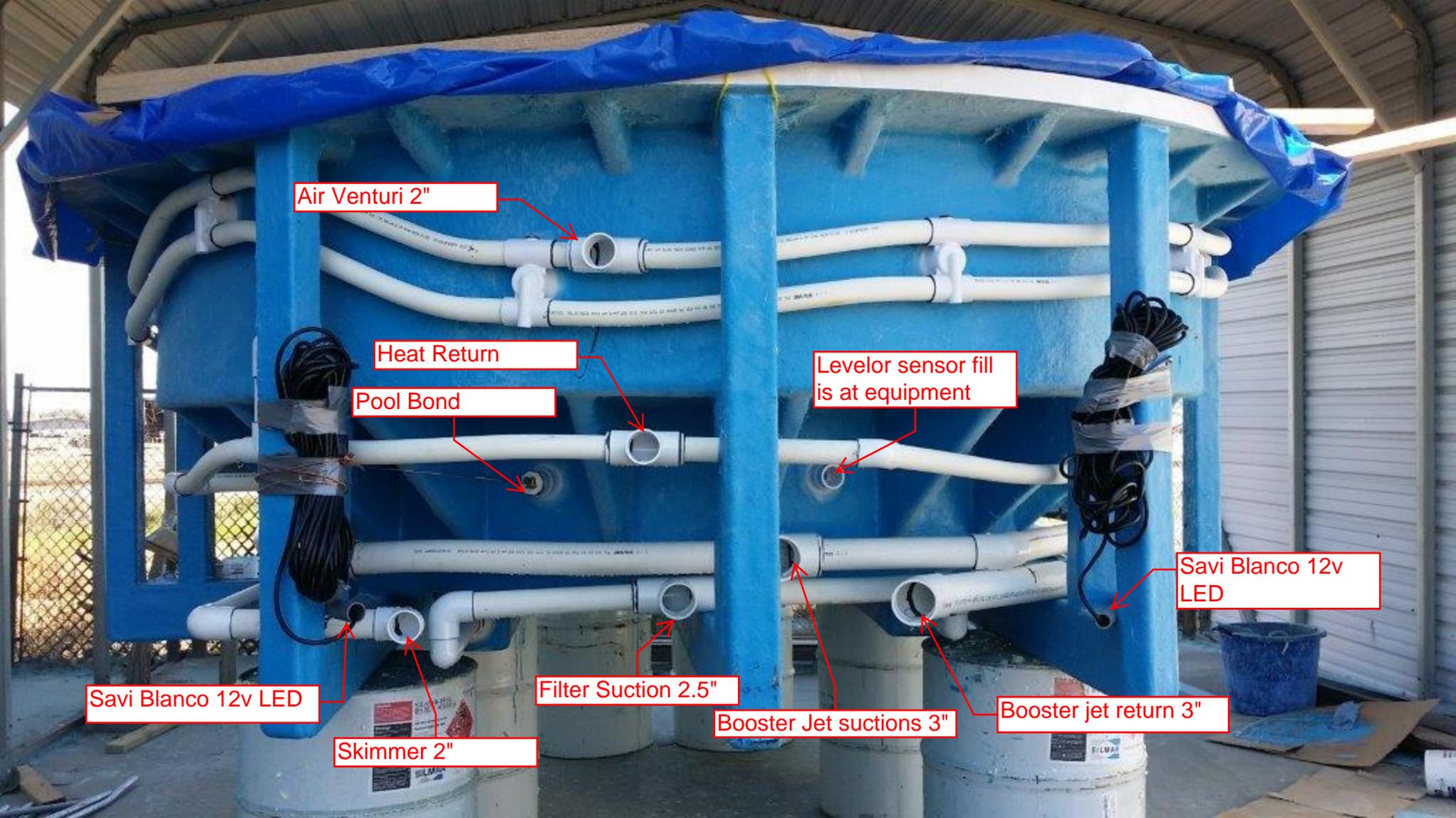


DWG TYPE
 Mens Return Plumbing

DWG NAME
 GATEWAY CANYONS

DATE
 1/8/2015

SHEET
 PAGE 6 OF 14



Air Venturi 2"

Heat Return

Pool Bond

Levelor sensor fill
is at equipment

Savi Blanco 12v
LED

Savi Blanco 12v LED

Skimmer 2"

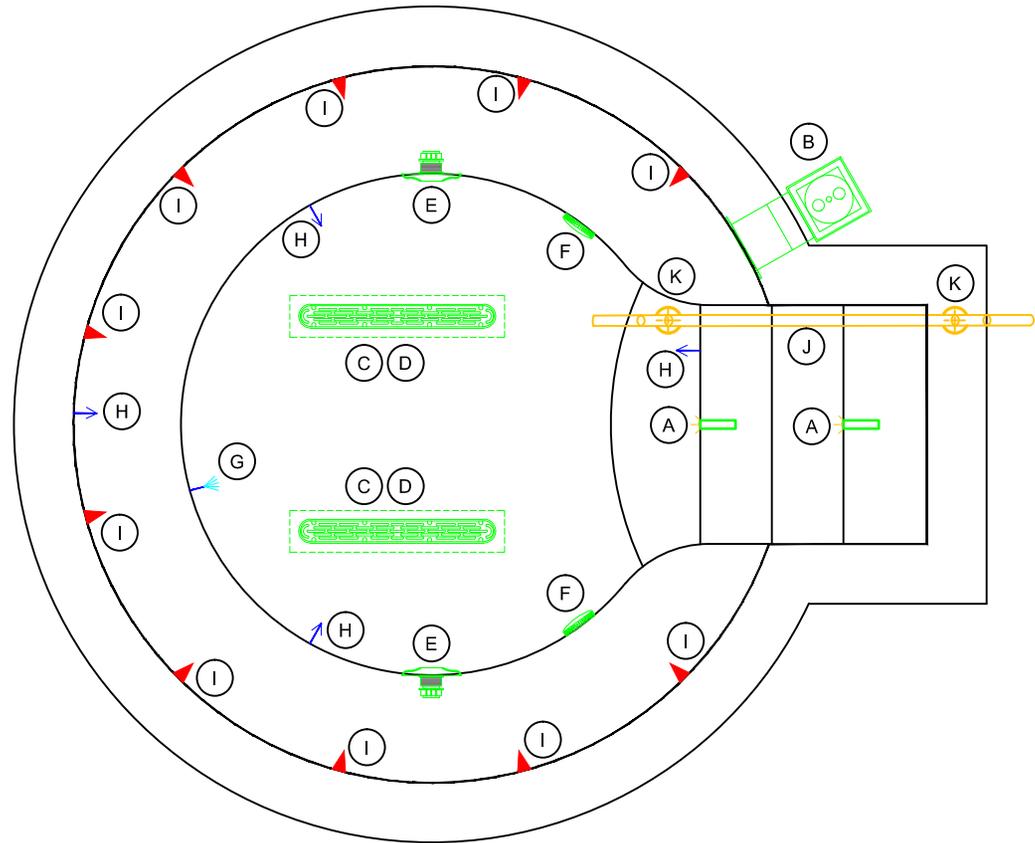
Filter Suction 2.5"

Booster Jet suction 3"

Booster jet return 3"

EQUIPMENT LIST

ITEM	DESCRIPTION	MANUFACTURER	CATALOG NO.	QTY.
A	UNDERWATER LIGHT, 12 VOLT, 5 WATT, NEXXUS	NEXXUS	-	2
C	AquaStar 32CDFLFR, 32" Channel Drain, Approved Max Flow Rate: Floor = 236 GPM @ 3.4 fps Wall = 136 GPM @ 1.9 fps V.G.B Approved Safety Drain	AQUASTAR	32CDFLFR	2
D	Nespa MAIN DRAIN SUMP IAPMO Approval # SP4900	NESPA	NESPA.32CD. 4,2,2,2,5,2,5	2
E	Paramount SDX 10" Area of Opening = 43.201 in/sq Floor = 200 GPM @ 1.485 fps Wall = 192 GPM @ 1.426 fps Complies w/ ANSI / ASME A112.19.8 & NSF / ANSI 16-2011	PARAMOUNT	SDX-182-2212-01	2
F	6" Round Hockey Puck - <i>Sumless Suction Outlet</i> Floor 177 GPM - Wall 122 GPM - Complies w/ ANSI / ASME A112.19.8 & NSF / ANSI 16-2011	AQUASTAR	6HPHAxxx	4
G	REFLECTION AND FILL PIPE FITTING W/ GRATE #SP1026	HAYWARD	SP-1023S	1
H	INLET FITTINGS, 1-1/2" CONNECTION W/ DIRECTIONAL EYEBALL FITTING, 3/4" ORIFICE #SP-1419-D.	HAYWARD	SP-1023S	4
I	HYDRO-INLET, 1-1/2" CONNECTION	HYDRO-AIR	10-5100	10
J	HAND RAIL, STAINLESS STEEL, W/ 1.90" TUBING W/ .065" WALL THICKNESS - 4' 0" LENGTH,	S. R. SMITH	CUSTOM	1
K	WEDGE ANCHOR, BRONZE.	S. R. SMITH	IAS - 100	2



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ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

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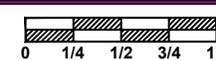


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DWG TYPE

Womens Spa Equipment

DWG NAME

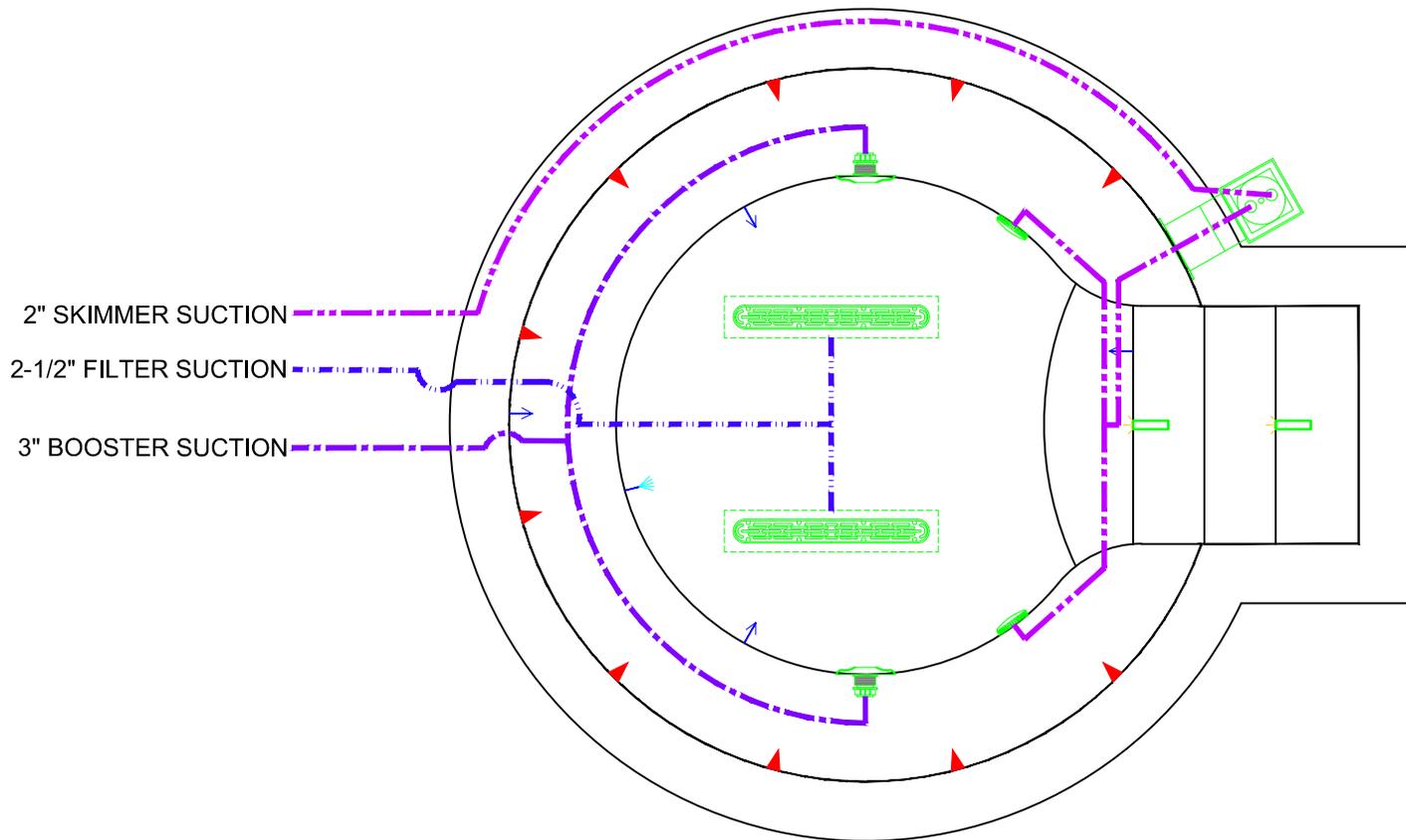
GATEWAY CANYONS

DATE

1/8/2015

SHEET

PAGE 7 OF 14



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ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

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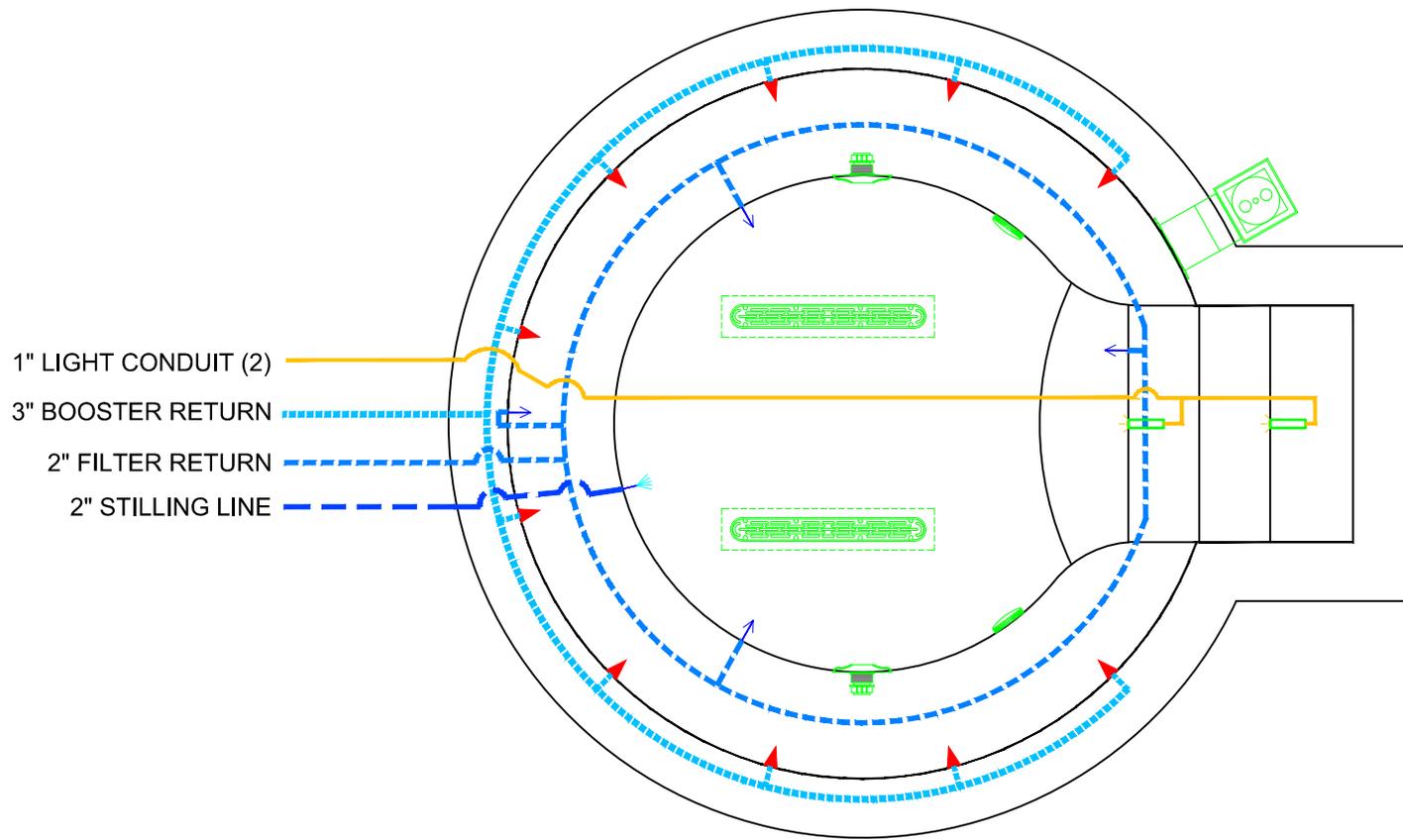
SCALE
 3/8" = 1'
 0 1/4 1/2 3/4 1"

DWG TYPE
 Womens Suction Plumbing

DWG NAME
 GATEWAY CANYONS

DATE
 1/8/2015

SHEET
 PAGE 8 OF 14



APPROVED

ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

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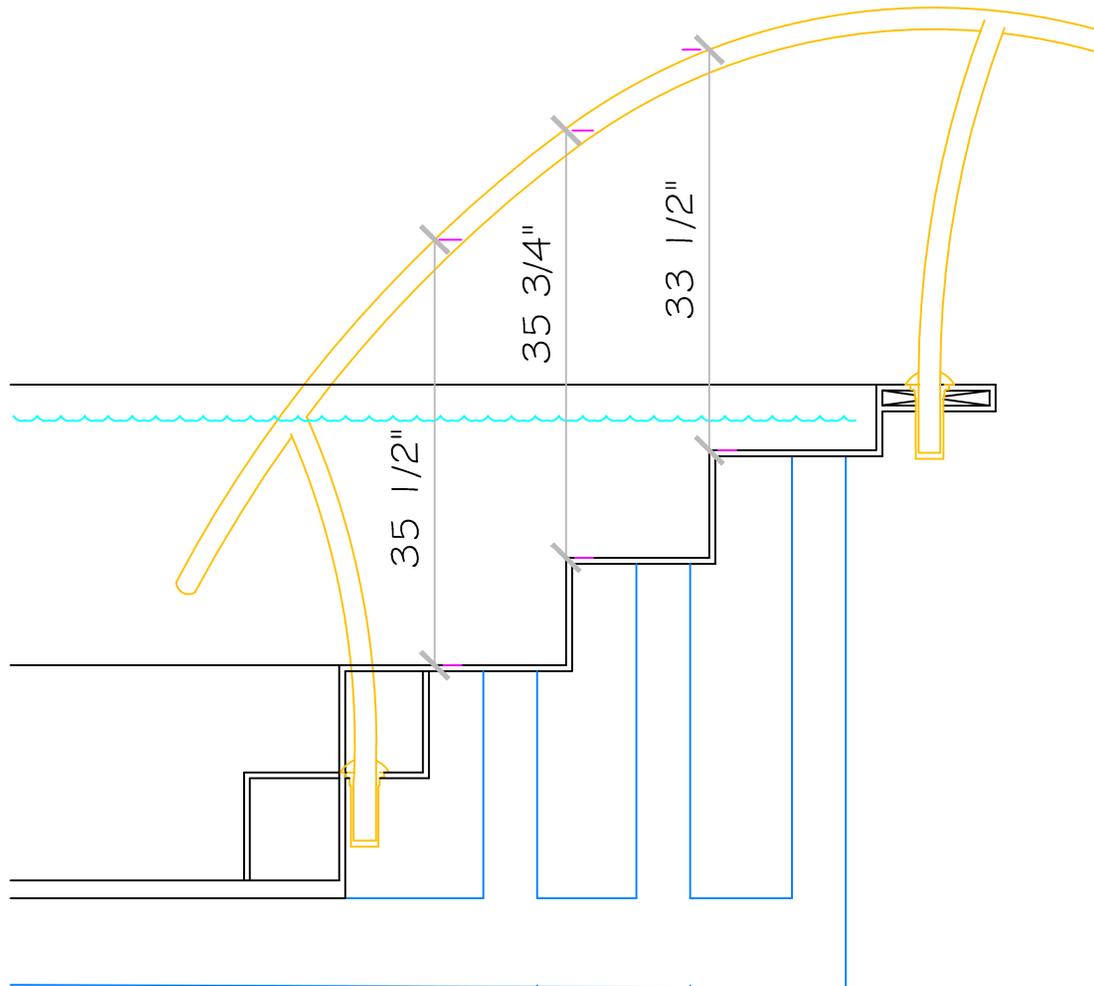


DWG TYPE
 Womens Return Plumbing

DWG NAME
 GATEWAY CANYONS

DATE
 1/8/2015

SHEET
 PAGE 9 OF 14



APPROVED

ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

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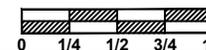
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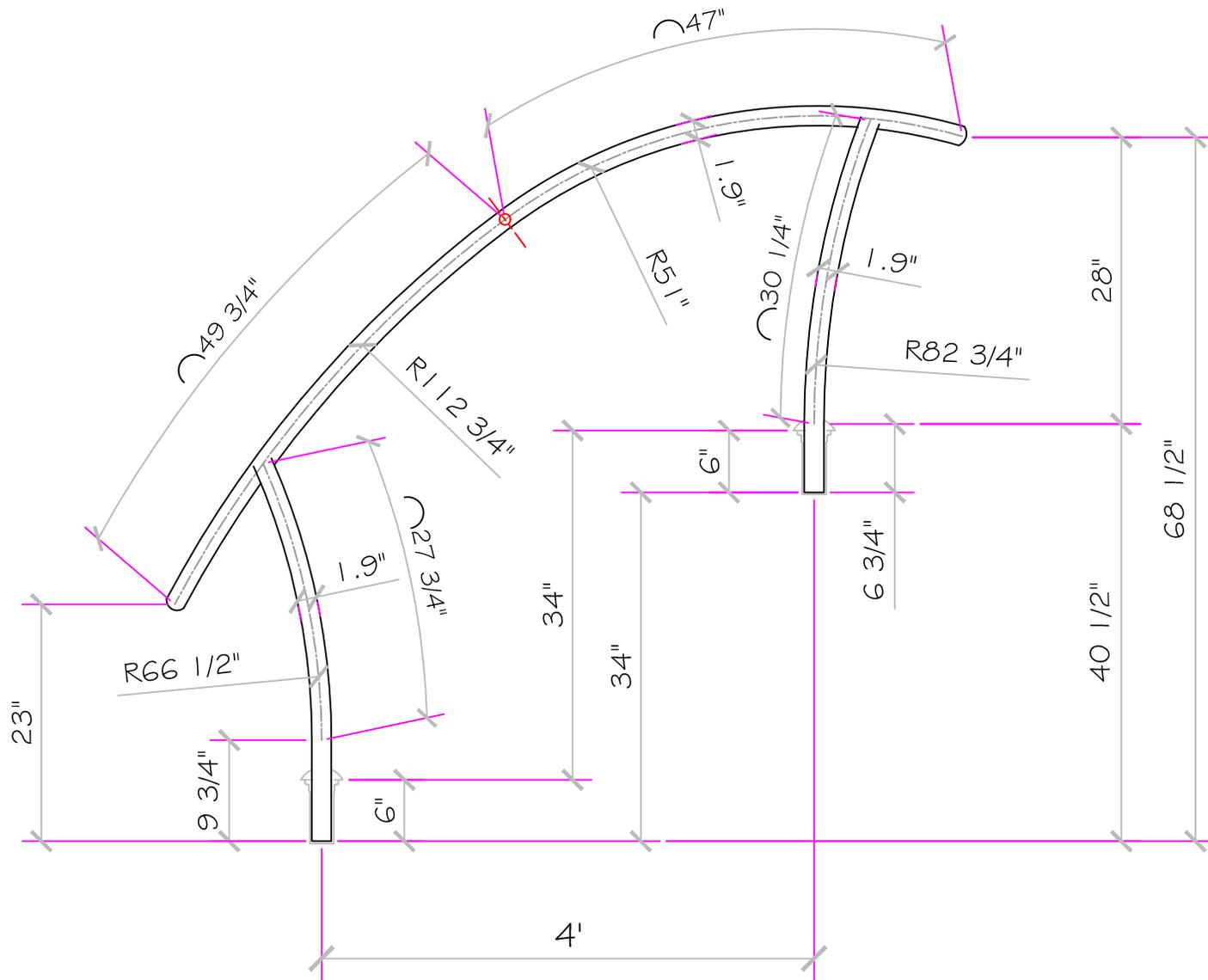
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DWG NAME
 GATEWAY CANYONS

DATE
 1/8/2015

DWG TYPE
 Hand Rail Detail
 SHEET
 PAGE 10 OF 14



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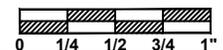
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Page Scaling:

SCALE
 3/4" = 1'



DWG NAME
 GATEWAY CANYONS

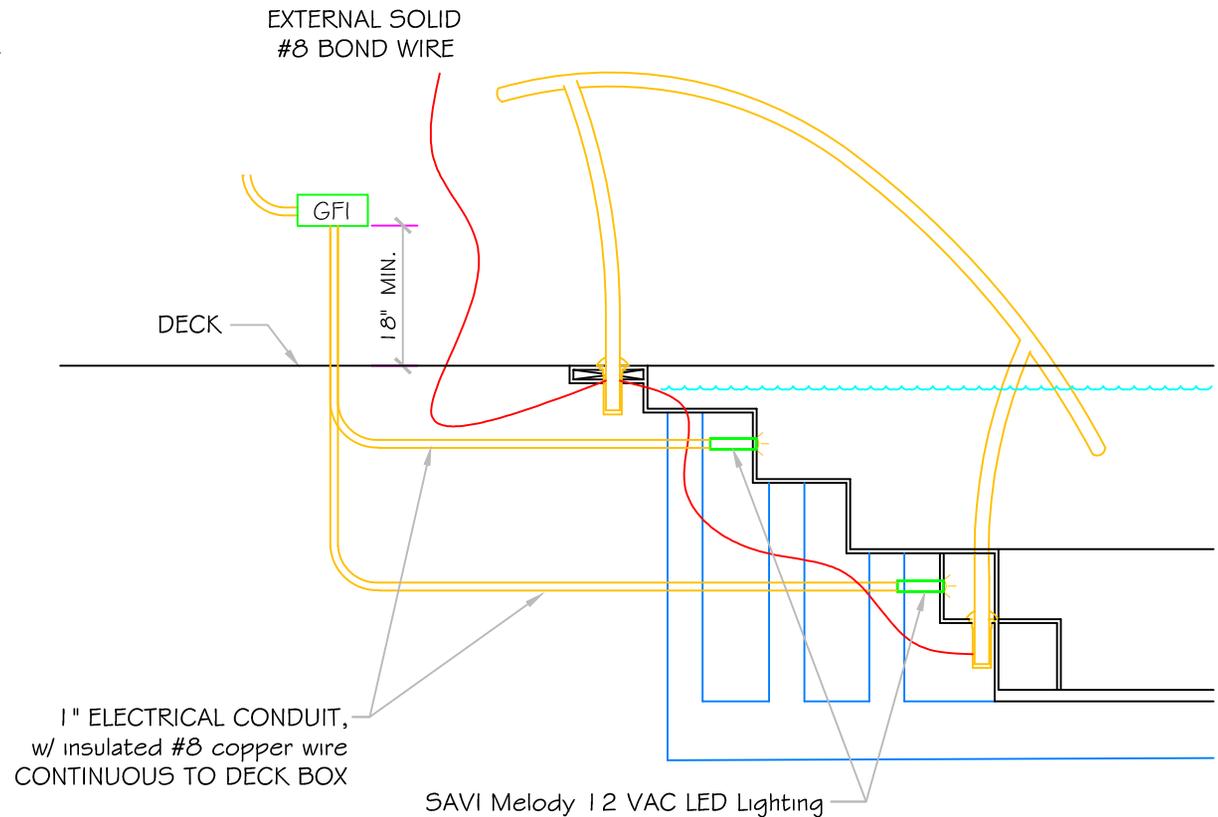
DATE
 2/13/2015

DWG TYPE
 Hand Rail Shop
 SHEET
 PAGE 1 OF 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 COPYING 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.

LED LIGHT DETAIL



APPROVED

ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

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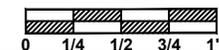
NESPA ENTERPRISES INC.
 2800 Richter Ave. Ste. C Oroville, CA 95966
 Office: (530) 534-9910 Fax: (530) 534-9915
 E-Mail: jim@tiledspas.com Web Site: www.tiledspas.com



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Page Scaling: None

SCALE
N/A



DWG TYPE
Light Detail

DWG NAME
GATEWAY CANYONS

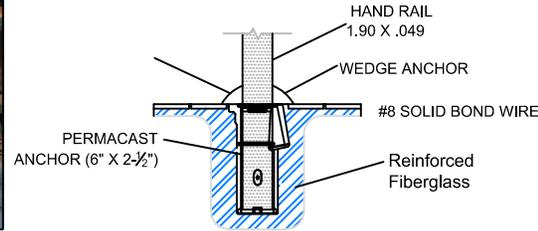
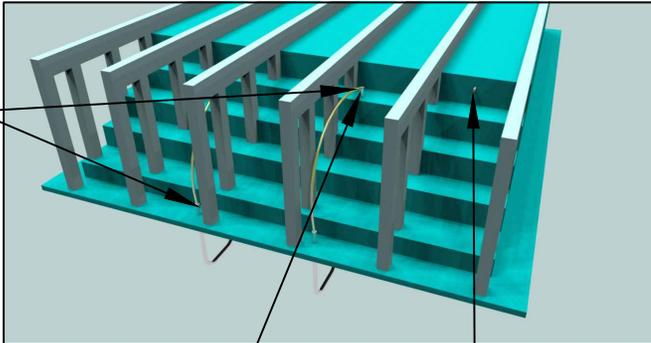
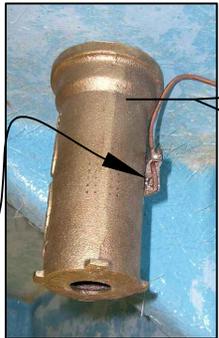
DATE
1/8/2015

SHEET
PAGE 11 OF 14

BONDING DETAIL



Typical Cup Anchor



NOTE:

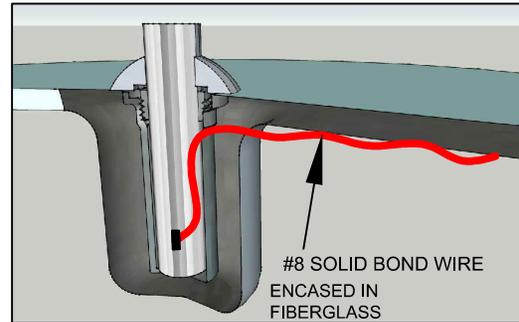
DETAIL REFLECTS ANCHOR INSTALLATION IN NESPA SHELLS ONLY.

CUP ANCHOR SHALL BE BONDED WITH A SOLID #8 COPPER BOND WIRE AND VERIFIED BY A CALIFORNIA LICENSED ELECTRICAL CONTRACTOR.

BOND WIRE WILL BE ENCASED AND COVERED IN FIBERGLASS TO PREVENT WATER LEAKAGE THRU SHELL.

BOND WIRE SHALL EXIT AT EDGE OF SPA AND ATTACH TO DECK BONDING GRID.

1 Anchor Detail



PERMACAST Swimming Pool Products
1871 Aspen Circle • Pueblo, Colorado 81008 • Phone 719-544-6544

PS-6019-BC
6 Inch Big Boy Socket

- 6" Deep Socket
- Accommodates 1.90" OD Tubing
- Uses PW-4C Wedge
- Includes Wedge, Washer, Bolt and Bonding Screw

Parts List	
QTY	Description
1	PS-6019-BC Socket Bronze
1	PW-4C Wedge
1	Stainless Steel Washer
1	5/16-18 X 1-3/4" SS Bolt
1	10-24 x 3/8" Brass Screw

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ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

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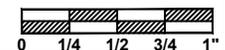
NESPA ENTERPRISES INC.
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Page Scaling:

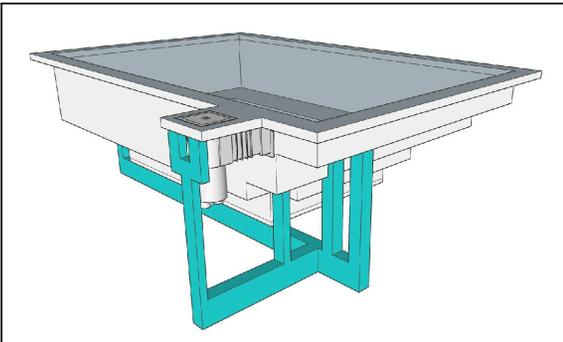
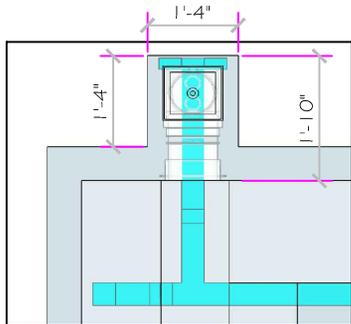
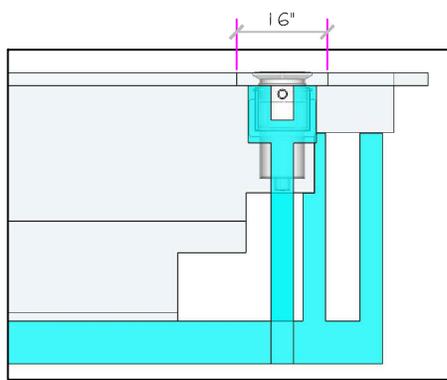
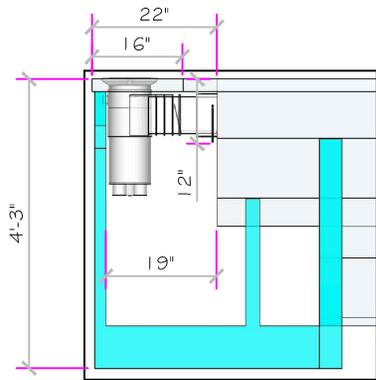
SCALE
N/A



DWG NAME
GATEWAY CANYONS

DATE
1/8/2015

DWG TYPE
Bonding Detail
SHEET
PAGE 12 OF 14



**HAYWARD MODEL SP1084 AUTO-SKIM
AUTOMATIC SURFACE SKIMMER**

INSTALLATION AND OPERATING INSTRUCTIONS

The Auto-Skim is a rugged, versatile automatic skimmer for residential or commercial installations. The illustrations below show the standard SP1084 (P1), the SP1084V Skimmer-Main Drain Valve Assembly installed (M2), and the SP1084 with SP1079 Equalizer Valve and SP1082V Float Valve Assembly (F3). Consult inside pages for specific installation details and dimensions.

1. BASIC UNIT

A. FLOW ADJUSTMENT—For full flow, move Flow Control Slide Plate to full open. To adjust flow, move Slide Plate to desired position over pump outlet.

B. TO VACUUM—Remove cover and basket. Screw hose adapter into pump outlet. Fit suction hose with water and insert over hose adapter. Or use optional Skim-Vac over basket vacuum pipe.

2. SKIMMER WITH MAIN DRAIN CONNECTION

A. FULL 90°M—Place Valve Lever in straight-up position. Open Slide Plate.

B. FULL MAIN DRAIN (90°LEVE)—Place Valve Lever down. Close Slide Plate.

C. 1/2 90°M—1/2 MAIN DRAIN—Place Valve Lever at 45° (Half-down). Open Slide Plate 50°.

D. TO VACUUM—Remove cover and basket. Place Valve Lever straight up. Fit suction hose with water and insert into opening in Valve Chamber. Or use optional Skim-Vac over basket vacuum pipe.

3. SP1084V—SKIMMER WITH EQUALIZER VALVE AND FLOAT VALVE ASSEMBLY

A. EQUALIZER—Always SP1079 Equalizer Check Valve Assembly installed over float valve and in combination with the SP1082V Float Valve Assembly. If water level drops below skimmer opening, float valve flow is restricted, the float will automatically empty the tank and the skimmer will open. This allows all flow to the pump from the skimmer tank and prevents jets in the pump. When the pump is shut off, and the water level condition is corrected, the float will rise and the skimmer will close, allowing normal skimming operation when the pump is restarted.

B. TO VACUUM—Set one connector skimmer and remove cover, basket and float valve assembly. Screw hose adapter into pump outlet. Fill vacuum hose with water and insert over hose adapter. Throttle down flow from other skimmers) until desired suction is obtained through vacuum.

NSF

NOTE: When two or more skimmers are connected to a common suction line, the flow is balanced through the skimmers by adjusting the Flow Control Slide Plate at each unit.

**SP1084
AUTO-SKIM**

DIMENSIONS

INSTALLATION INSTRUCTIONS

EQUALIZER VALVE ASSEMBLY (SP1079)

- Place gasket over equalizer float port. Use to gasket over float valve.
- Place Equalizer Assembly over equalizer port. Tighten 1/4".
- Insert retaining screws. Do not over-tighten. Tighten lightly.

SKIMMER DRAIN VALVE ASSEMBLY (SP1082V)

- Remove screws, pipe plug if installed and gasket. Tighten pipe from bottom of SP1082V and place in bottom of skimmer. Tighten to one-half turn. Do not over-tighten. Tighten to PLUMP PORT (not over-tighten).
- Insert float assembly. Screw will appear into Valve Housing and screw down (lightly into insert or skimmer body).
- Insert Retaining Screw. Will appear through SP1082V. Do not over-tighten. Tighten lightly into Valve Housing. Screw down (lightly into insert or skimmer body).

SKIMMER DRAIN FLOAT BY-PASS ASSEMBLY (SP1082V)

- Remove screws, pipe plug if installed and Flow Control Slide Plate. Tighten from bottom of float valve.
- Attach Flow Control Terminal Pipe to float assembly. Tighten screws.
- Place Flow Valve Assembly and O-ring into place. Adjust Flow Control Terminal Pipe as required.

INSTALLATION INSTRUCTIONS

INSTALLATION INSTRUCTIONS

- Cut out panel as shown. Make sure hole is gasket align with holes in skimmer face. (A very light application of adhesive cement will assist in holding gasket in place.)
- Align skimmer face and gasket with gasket panel holes and fasten to wall panel at top center and bottom center with the two pipe fastening screws.
- If vinyl liner pool, install liner before proceeding with Step 5.
- Align skimmer gasket and new plate and fasten lightly to skimmer face with twelve (12) 1/4" screws. If vinyl liner pool, check liner through hole under hole and a 1/4" hole in existing skimmer. Screws secure through 1/2" Face Plate. 2 Gaskets, 3 Liner, 1 Wall Panel, 1 Gasket, 1/2" Liner Skimmer Face.
- If vinyl liner pool, cut out liner along inside edges of face plate.
- Cut out vinyl liner along inside edges of face plate.

INSTRUCTIONS FOR OTHER THAN WOOD PANEL

1. Cut out wall panel approximately 1/8" larger than outside dimensions of skimmer face (M2) face plate.
2. Insert skimmer into panel cut out from the rear, and butt the mounting flange against the rear of the panel. Use 1/4" shims, if necessary, to make face of skimmer flush with inside of the pool. Fasten the skimmer to the rear of the wood panel by securing the proper length wood panel screws through the mounting flange holes.
3. Place gasket on skimmer face, making sure holes in gasket align with holes in skimmer face. (A very light application of adhesive cement will assist in holding gasket in place.)
4. Install vinyl liner.
5. Align skimmer gasket and face plate and fasten lightly to skimmer face with twelve (12) 1/4" screws. Fasten liner through face plate holes over a 1/4" hole in existing skimmer.
6. Cut out vinyl liner along inside edges of face plate.

LOCATION OF SKIMMERS

To obtain the most effective skimming action over the entire pool surface, locate the skimmer relative to the prevailing wind and drift, shape of pool and water circulation pattern. The use of directional inlet fittings will ensure the proper circulation pattern.

APPROVED

ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

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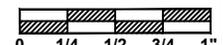
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Page Scaling: None

DWG NAME

GATEWAY CANYONS

SCALE
N/A



DATE
1/8/2015

DWG TYPE
Skimmer Detail
SHEET
PAGE 13 OF 14

NESPA Enterprises, Inc.

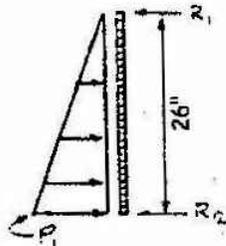
BY: L.J. Garcia

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



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

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

M max at 0.577 l

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

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

$$s = \frac{bd^2}{3} = 12 \times \frac{0.375^2}{6}$$

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

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

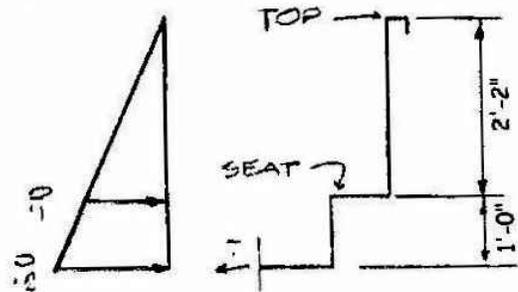
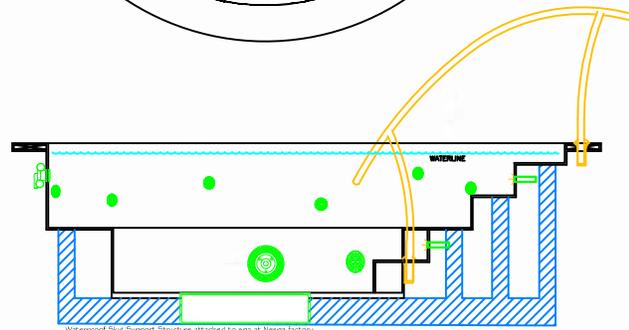
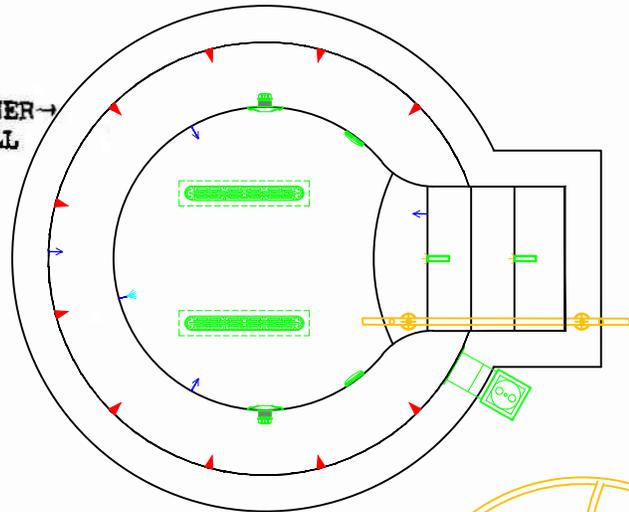
$F_b = 28,000 \text{ PSI}$

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

$$= \underline{\underline{11.6}}$$

Ceramic Tile Spas & Bathtubs

STIFFENER
 (TYP. ALL WALLS)



part. elev
Louis J. Garcia

P.E. No. License C 026991

Custom Handpainted Ceramic Tiles

ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

NESPA ENTERPRISES INC.

2800 Richter Ave. Suite C Oroville, CA 95966

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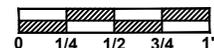
E-Mail: jim@tiledspas.com Web Site: www.tiledspas.com



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Page Scaling:

SCALE
 N/A



DWG TYPE
 Engineering

DWG NAME

GATEWAY CANYONS

DATE

1/8/2015

SHEET

PAGE 14 OF 14

**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.IAPMO.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.**

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IN-GROUND

INSTALLATION

ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

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

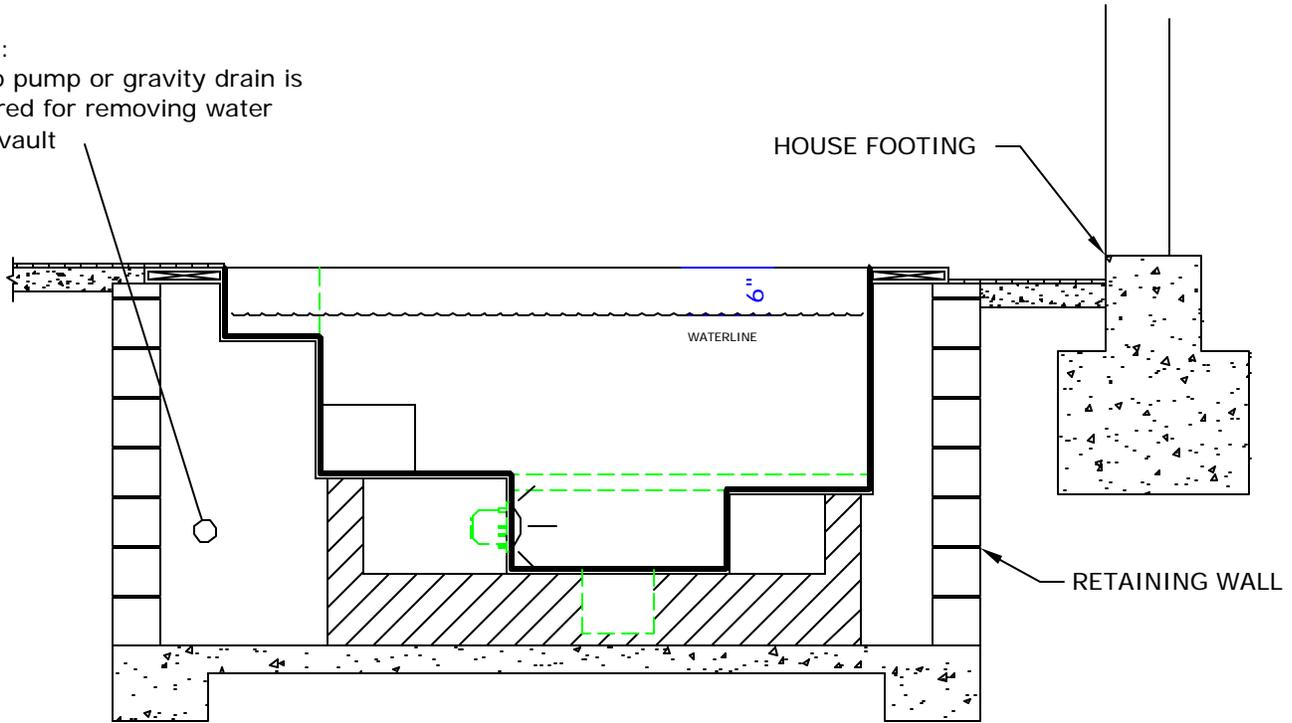
DATE: 3/27/02

JOB : STANDARD INSTALL

DW #: SI-1, SI-2

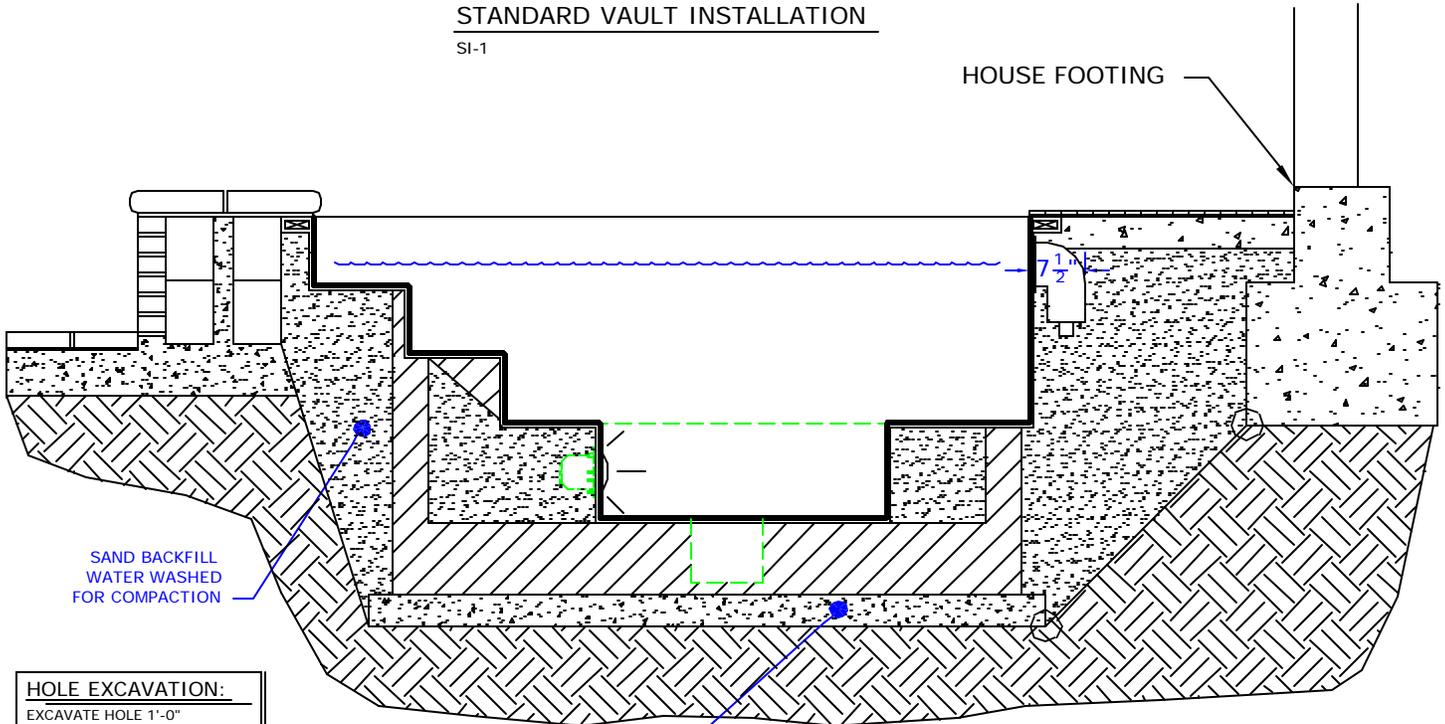
NOTE:

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



STANDARD VAULT INSTALLATION

SI-1



SAND BACKFILL
WATER WASHED
FOR COMPACTION

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

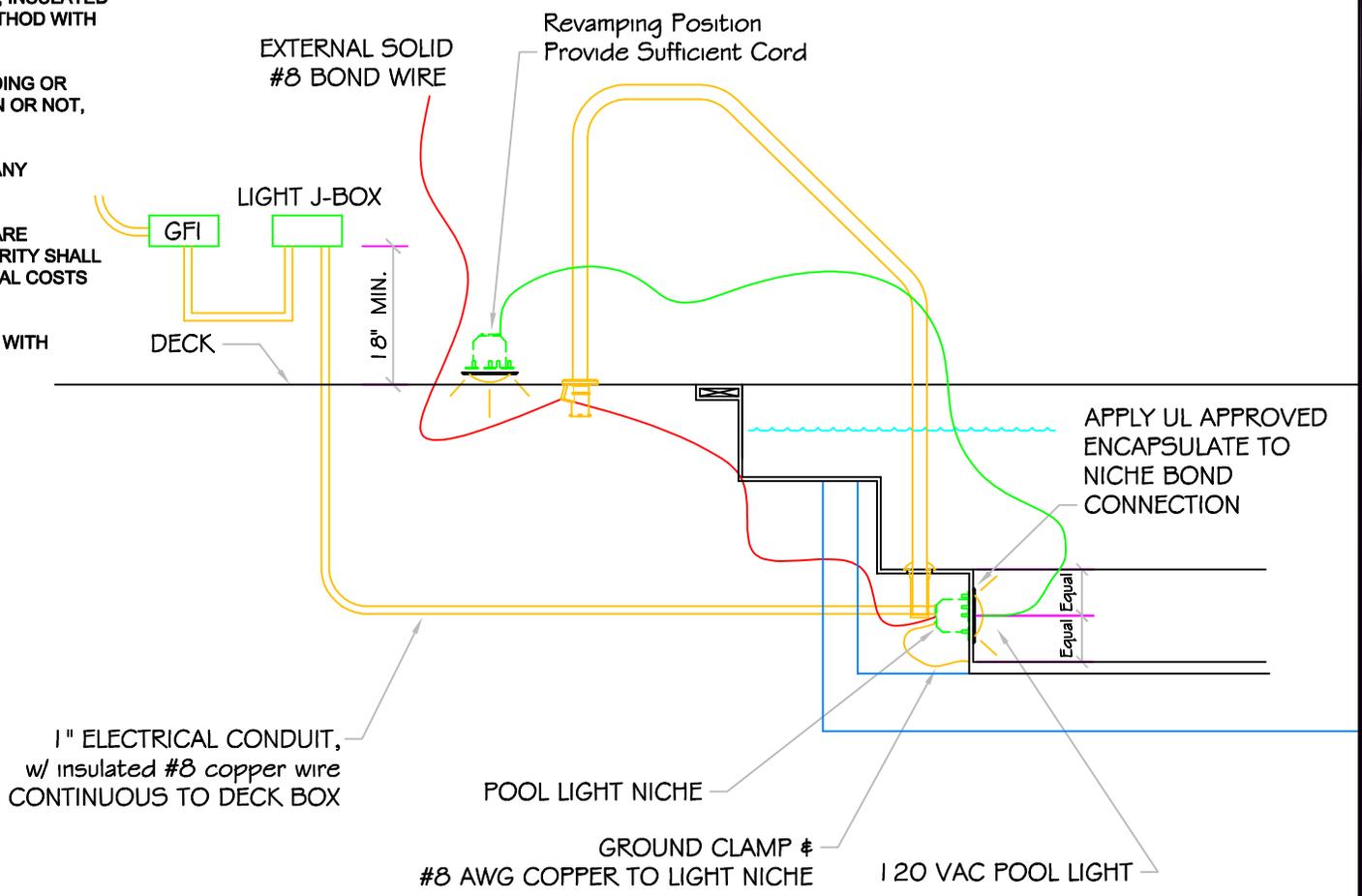
NOTE:

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.
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6. THE ELECTRICAL CONTRACTOR SHALL COORDINATE BONDING WITH GENERAL CONTRACTOR.

LIGHT DETAIL



ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

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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.