

# **Production Booklet**

for

# TELFORD SWIM SPA

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 ceritfied 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 loose 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:**

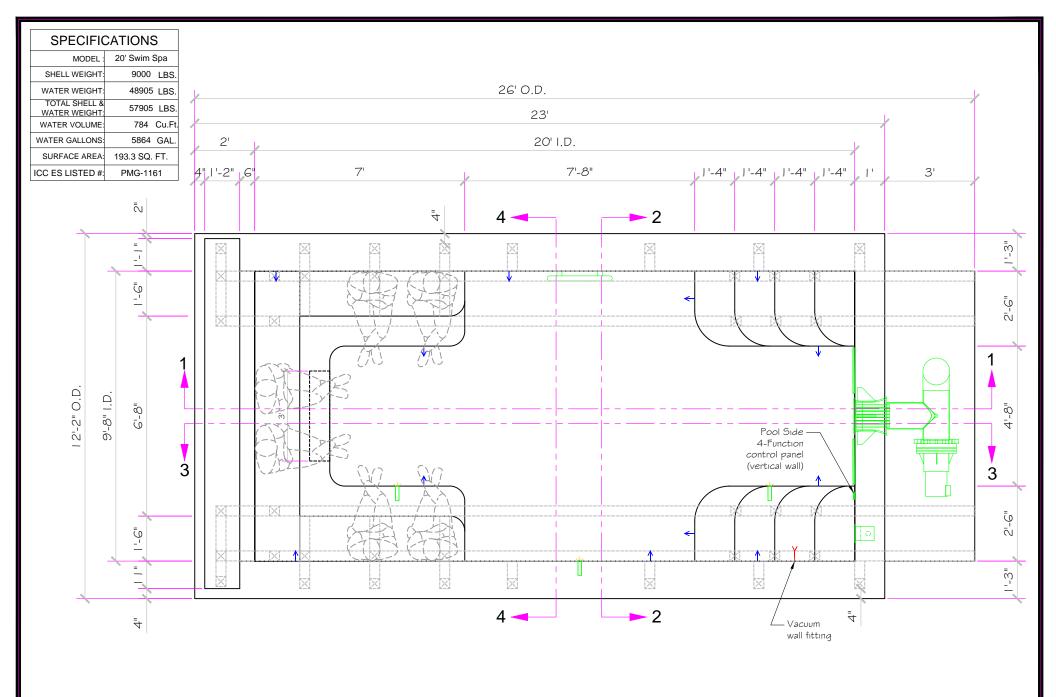
- 1) Clean filter cartridge at least once every month, or when needed; i.e., if water clarity does not improve after several days.
- 2) Keep area free and clear from leaves and debris build-up.
- 3) Keep area free and clear from flooding.

#### 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



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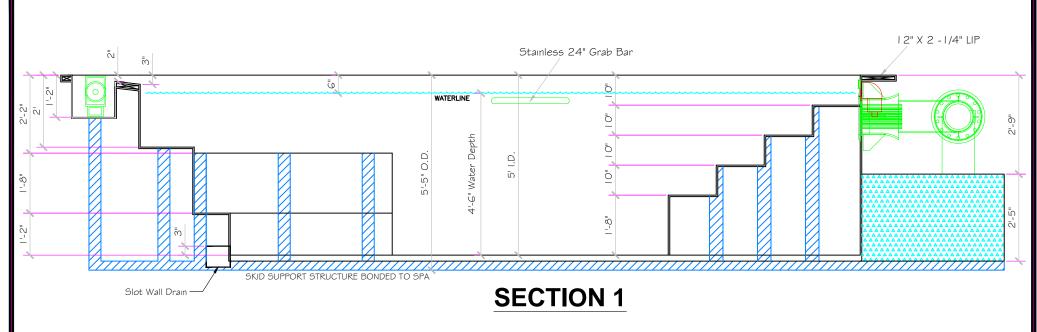
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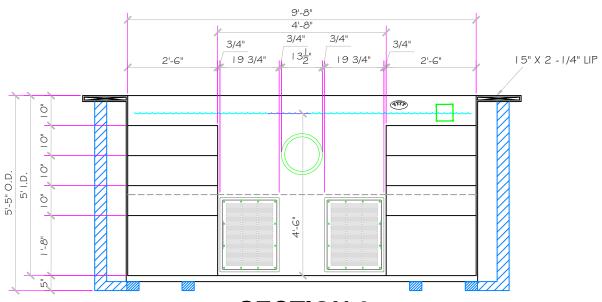
1/2 3/4 1/4 DATE

DWG TYPE Swim Spa SD

**TELFORD** 

3/10/2015 **PAGE 11 OF 16** 





# **SECTION 2**

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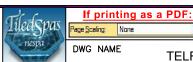
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SCALE 3/8" = 1'

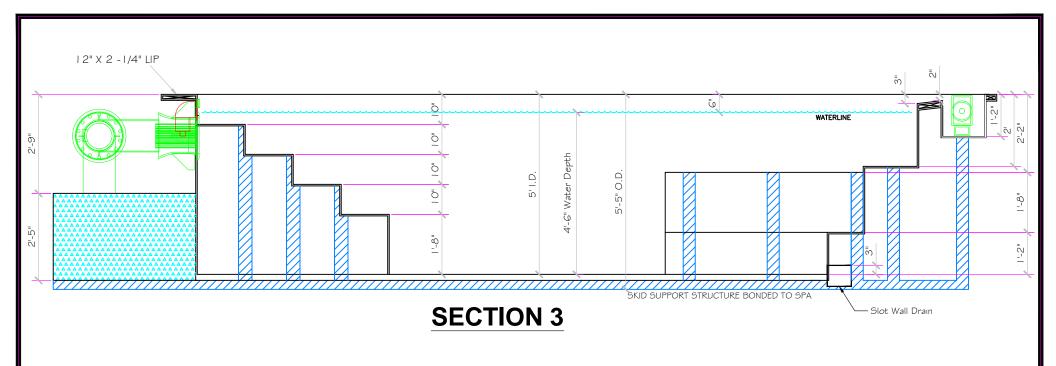
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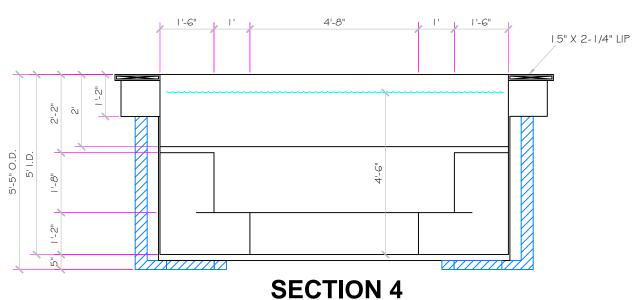
DWG TYPE Swim Spa Sections

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PAGE 12 OF 16





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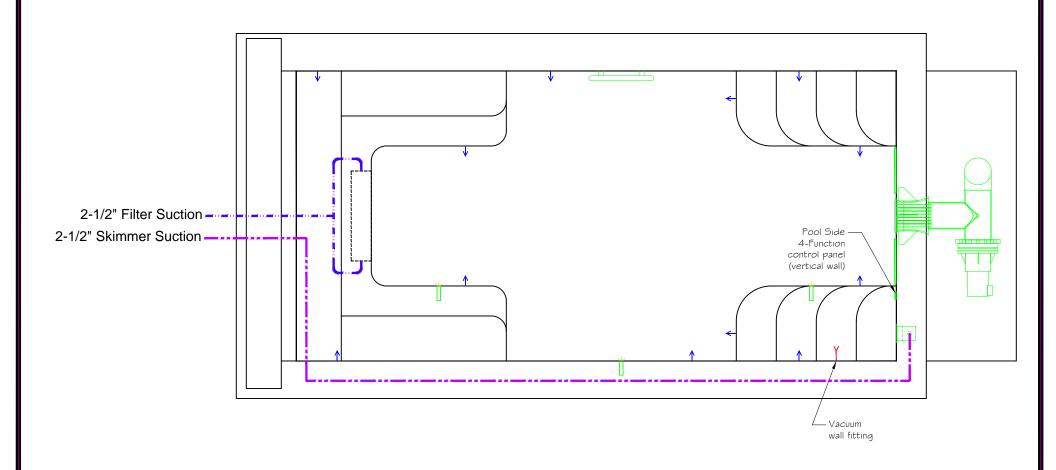
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DWG TYPE Swim Spa Sections (2)

**TELFORD** 

DATE 3/10/2015

PAGE 13 OF 16



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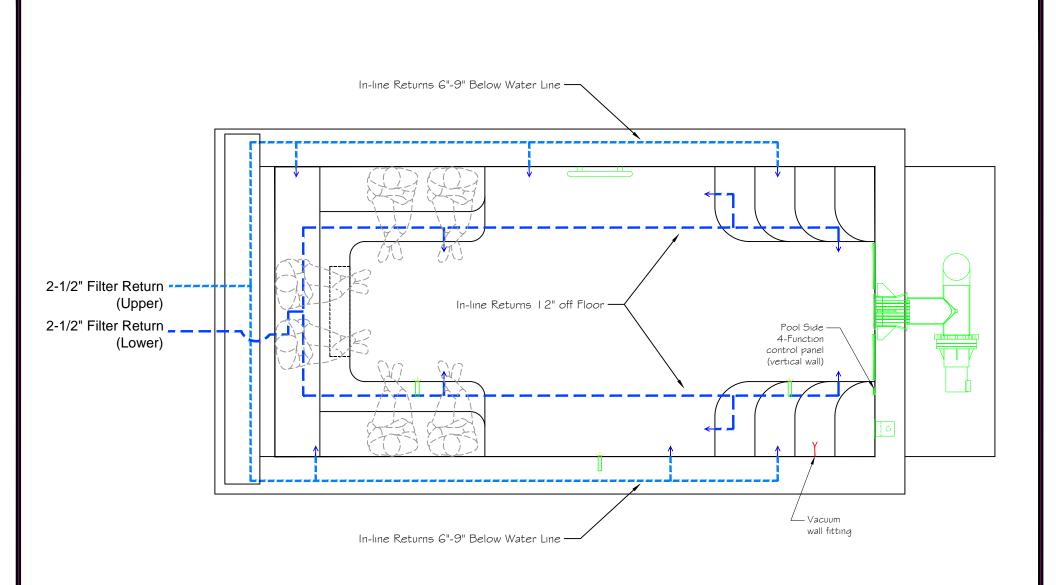
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5/16" = 1' 1/4 1/2

DWG TYPE Swim Spa Suction Plumbing

DWG NAME **TELFORD**  DATE 3/10/2015

PAGE 14 OF 16



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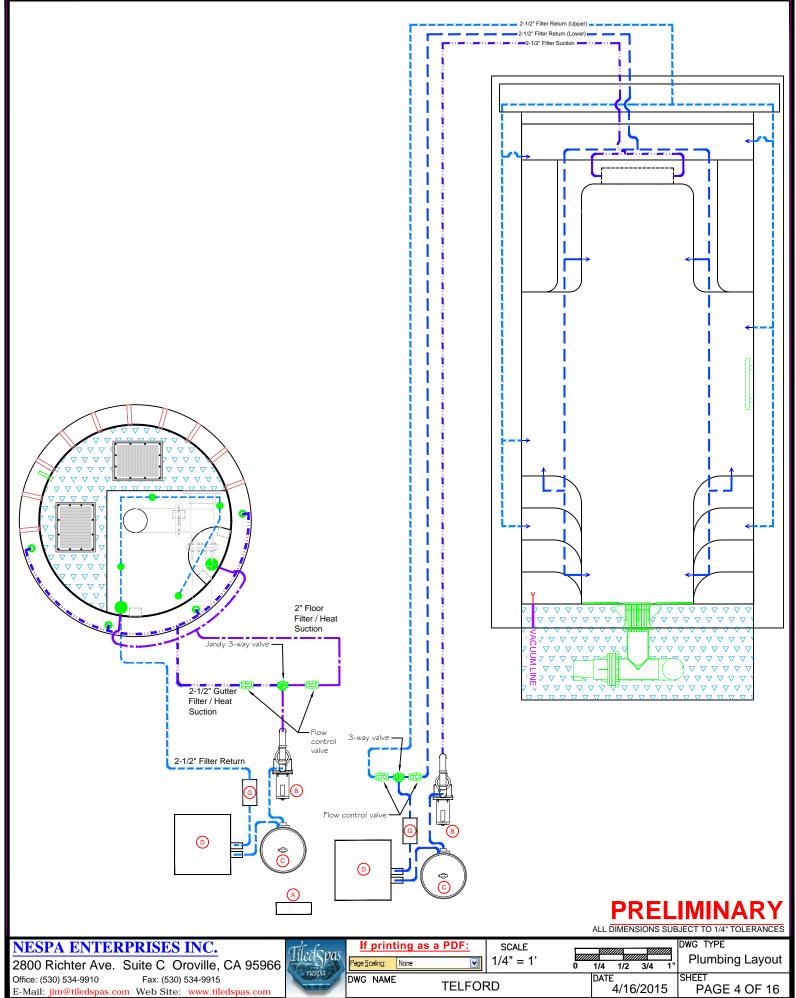
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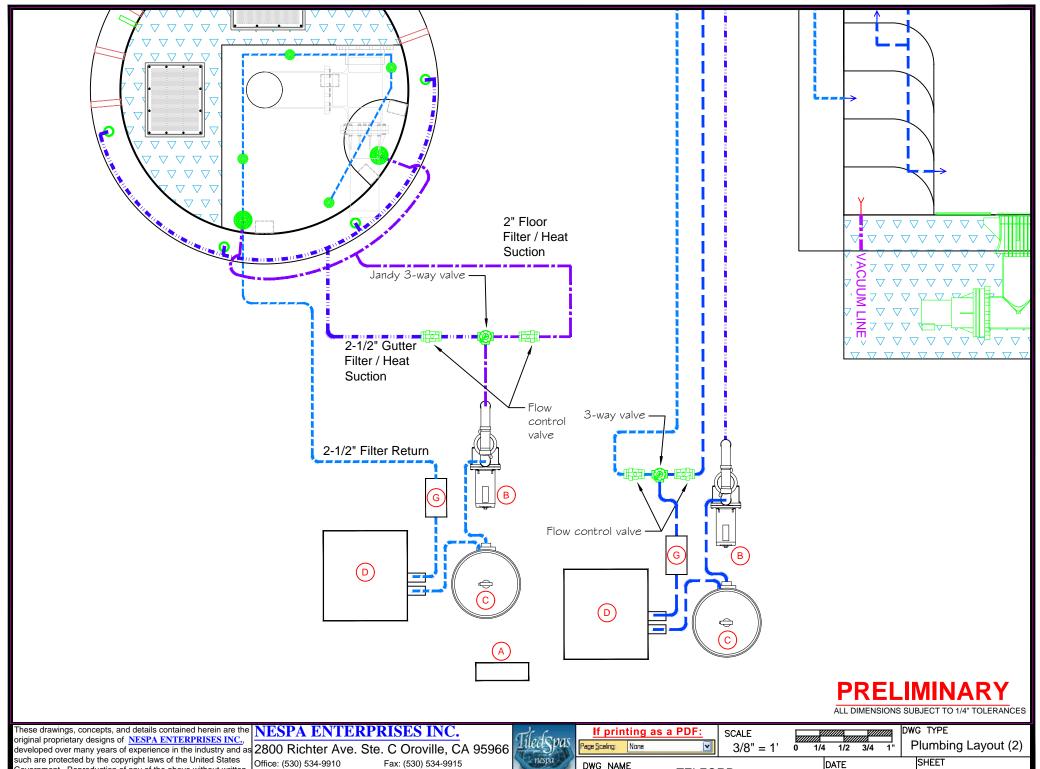
DWG TYPE Swim Spa Return Plumbing

**TELFORD** 

DATE 3/10/2015

PAGE 15 OF 16





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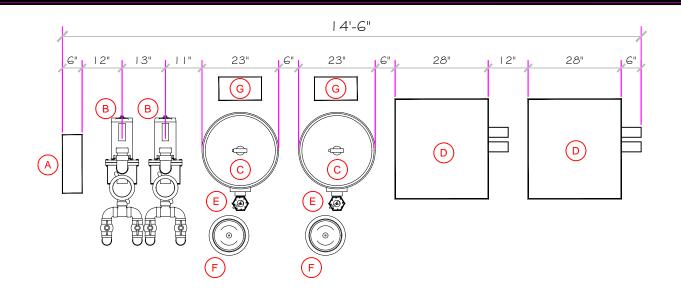


DWG NAME

**TELFORD** 

4/16/2015

PAGE 5 OF 16



## **EQUIPMENT LIST**

ITEM	DESCRIPTION	MANUFACTURER	CATALOG NO.	QTY.
А	Intellitouch I9s plus 3 Dual Body Control System.	PENTAIR	x	1
В	Pentair Whisperflo XF 3HP	PENTAIR	022030	2
С	Pentair DE Filter FNSP48	PENTAIR	180008	2
D	Raypak Digital Propane Gas Heater R406A K BTU	RAYPAK	Ray-15-0205	2
E	Pentair DE Multiport Valve	PENTAIR	261055	2
F	Pentair Separation Tank 100 ( optional)	PENTAIR	SEP 100	2
G	Delzone Eclipse UV Ozone Generator	Delzone	х	2



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SCALE N/A 0 1/4 1/2 3/4 DATE

DWG TYPE Spa & Plunge EQ

DWG NAME

4/20/2015

PAGE 6 OF 16

## **EQUIPMENT:**

- Levelor w/2 Sensors 200' CORD (GIP-56-1150)
   Zodiac Pool Systems K2300CKG for two bodies of water (Qty 1)
- 2.) Swimspa and Spa Side Control (Qty 2) 4-Button White 50 FT (COM-30-1883) Pentair Water Pool and Spa Inc (521883)
- 3.) Pentair Load Center wo / transformer Intellitouch 115/230V (521215)
- 4.) Pentair Personality Kit Pool/Spa Combo I9+3 Intellitouch (521221)
- 5.) Raypak Heater Raypak 399 BTU LP elec-cup nicc- r406a-ep-x-asme (Ray-15-0205) MFG# 010213 (Qty 2)
- Pentair Intelliflow 3hp pumps- Pump 3HP 3PH 208-230/460V
   Whisperflo XF XFJ12 part # 022030

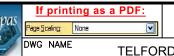


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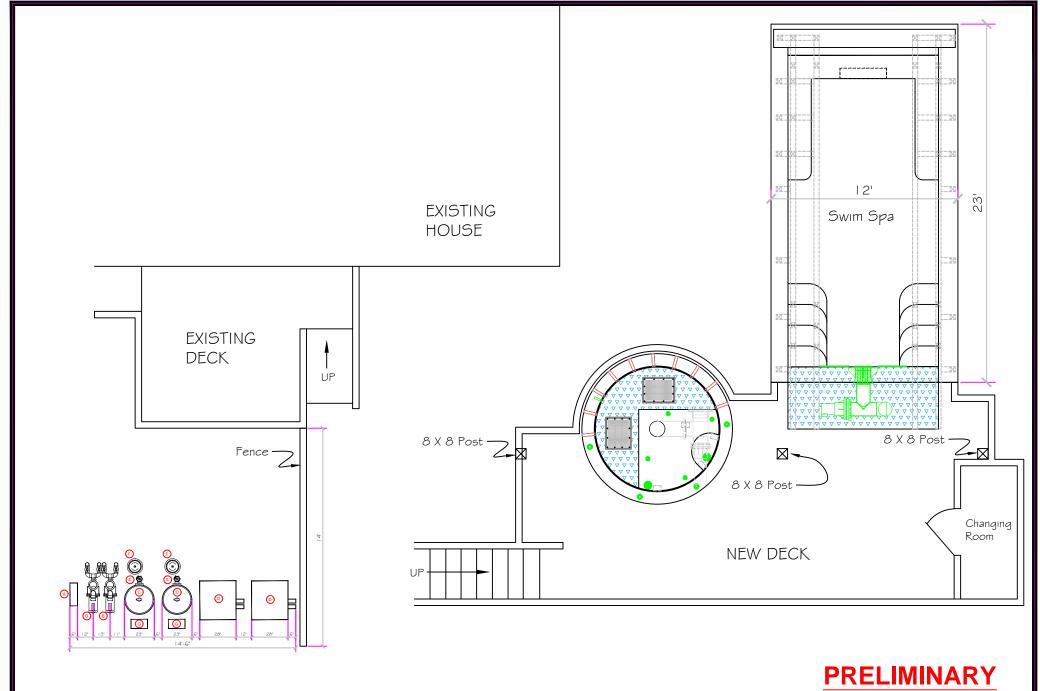
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E Mail: im@itledenes.com Web Sites: young tiledenes.com



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EQ
SHEET
PAGE 6A OF 16



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SCALE N/A



DWG TYPE Spa & Plunge Layout

DWG NAME **TELFORD**  DATE 4/16/2015

PAGE 7 OF 16



#### **Anything But Basic**

#### Cabinet -

# Outdoor top - (standard) Wind-resistant design Channels rainwalde out Textured powder-coat finish Optional indoor top

#### Digital Controls -

- Built-in diagnostics
   Back-lit LCD display
   Pool and spa settings . Lexan cover- with snap closure
- · Remote-compatible

# Flame strength meter Cycle and run time log Transformer output mon Fault history-last 10

#### Burner Tray \_\_

- Aluminized metals
- . Stainless steel heat shield

D-2 Power Vent

Through-the-Wall Capable

۰	Spa	th	to-	pi	lot	ign	tio	n
٠	Soft	-0	per	rin	g	gos	V2	ve.

**Optional D-2 Power Vent** 

www.raypak.com

Sometimes, equipment rooms or unusual venting configurations require the use of a power vent. Being the heater experts, we have this option for you when the need may arise.

The D-2 Power Veral assembly is a Category III mechanical draft venting system that operates under a positive static pressure and prevents excessive condensate production in the vent. All sizes are capable of relieving flue gases up to a maximum of 100 equivalent feet of vent length. All models have a standard 4\*-diameter enthusis connection.

Multi-Position
Using the Raypak-supplied adjustable 90° elbow, the flue gases may be discharged in any direction (see D-2 Power Vent manual for defails). The D-2 Power Vent is also dual-voltage capable (120/240 volt) and engineered for long life and smooth operation.

	copper (polymer headers) ASME copper and cupro	cupro-nickel (polymer headers)
Model	BTUH Input	BTUH Input
206	199,500	180,000
266	266,000	240,000
336	332,500	
406	399.000	

For dimensions and technical specifications, see catalog number 6000.35.

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Utho in U.S.A. \$2008-2013 Rayouk, Inc. Catalog No. 6000.12G. Effective 07-01-13 Replaces 02-15-13

Raypak, Inc., 2151 James Aware, Schrid CA 80000, 2005/278-6000 Fac 6000 575-6725

#### INTELLIFLO® VARIABLE SPEED PUMP Heat Exchanger

Unitherm governor
 Polymer headers
 Stainless steel tube sheet

. Reversible for left-side

ASME - (optional)
 Cupro-nickel - (optional)

2" CPVC Connections

Ceramic Fiber Combustion Chamber

Non-Combustible Base

Base - Interior Floor

Incoming power can be connected to the right or left side.

ISO 9001

120/240V

**High Limits and Controls** 

#### Proven dependability that's in a class by itself.

IntelliFle pumps have amassed a record of field-proven reliability that's

- unmatched by any other variable speed pump. Here's how: . Permanent magnet motor runs coaler produces lass vibration than
- \* Totally enclosed fan-cooled ITEFC! design protects against the elements.
- . Ruit in diagnostics amtect the numb for langer service life.

So when you invest in the superior engineering of an IntelliFlo pump, you'll reap the dividends for years to come. Visit your Pentair professional now... and let the enloyment begin.

#### How does your pump measure up to the IntelliFlo pump?



Intelligion	numne	we other	or americable.	speed pump

Benefit	IntelliFlo Variable Speed Pump	Other Virtuality Spenis Purpos
World's first-ever variable speed pump	YES	NO NO
More total energy savings than any other pump family in history	YES	ND
Nearly a decade of proven in-field reliability	YES	NO
Outsells all other variable speed pumps combined	YES	NO

#### AVAILABLE FROM:

## PENTAIR

1529 HAWKING AVE: SANFORD, NC 27200 800 601 7103 WWW.PENTA/RPROC.CCM

pumps + filters + heaters + heat pumps + automation + lighting + cleaners + sanitizers + water features + maintenance products

1/14 Fart & FT -127 COC14 Pentar Waler Pro- and Equ. Inc. A.E. chts reserved.



## QUAD D.E. CARTRIDGE STYLE FILTER

2" plumbing connections for maximum flow -



#### THE HIGHEST WATER CLARITY WITH THE LOWEST AMOUNT OF FUSS

The Quad C.E. filter combination of distornaceous earth (D.E.I. and cartridge element convenience means better performance and superior water clarity. Because D.E. removes the tiniest of contaminants-particles as small as five micrors-vso can court on clean, crystal-clear water for years to come.

- Manual air relief valve and continuous internal air relief work together to maintain afficient filtration.
- Durable 8-oz, woven polypropylene cartridge media have super-slick surfaces, making them easier to clean than conventional cartridge filters.
- Attractive almond-colored tank blends into any backyard environment.



Cartridges are designed with slick surfaces so dirt easily rinses off. Ramove and rinse, or rinse in place. Or, backwash and recharge tike a traditional D.E. filter.

Note: Must use a Hi-Flow\* Backwash Valve |Part # 261050] or Slide Valve |Part # 263034 or Part # 263064) when plumbing filter with a backwach valve IPart # 261055).

Model Number	Filter Area	Vertical Clearance	Filter Diameter	Flow Rate GPM		Turnover Capacity (Gallons)		
Model Number				Res.	Comm.	li hrs.	10 hrs.	12 hrs.
Quad 60	60	62"	21.57	120	120	57,600	72,000	86,400
Quad 88	80	68"	21.5"	140	150	78,800	96,000	115,200
Quad 100	100	74"	21.5	199	150	76,800	96,000	115,200

\* leguest clearance to remove "the elements" \*\* Vax mum blow rate

AVAILABLE FROM-



1620 HAWKINS AVE. SANFORD, NC 27330 B00-831,7133 WWW.PENTAIRPOOL.COM.

pumps + filters + heaters + heat pumps + automation + lighting + cleaners + sanitizers + water features + maintenance products

S/ILPart FPI 635 60012 Postair Water Pool and Spo, so. All rights received.



## **PRELIMINARY**

ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES

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DWG NAME

SCALE N/A

**TELFORD** 

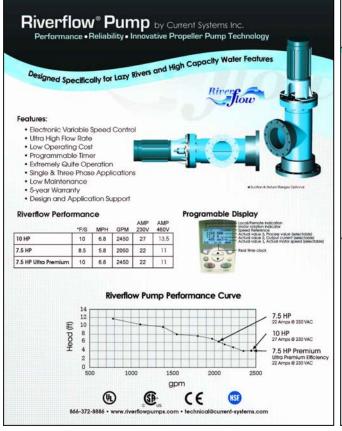
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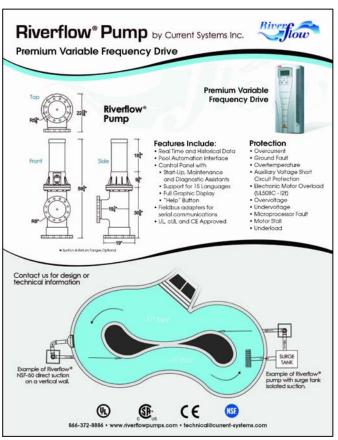
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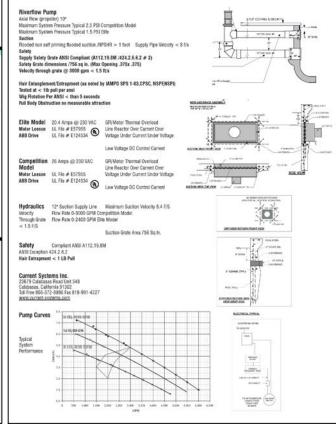
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3/10/2015

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DWG NAME

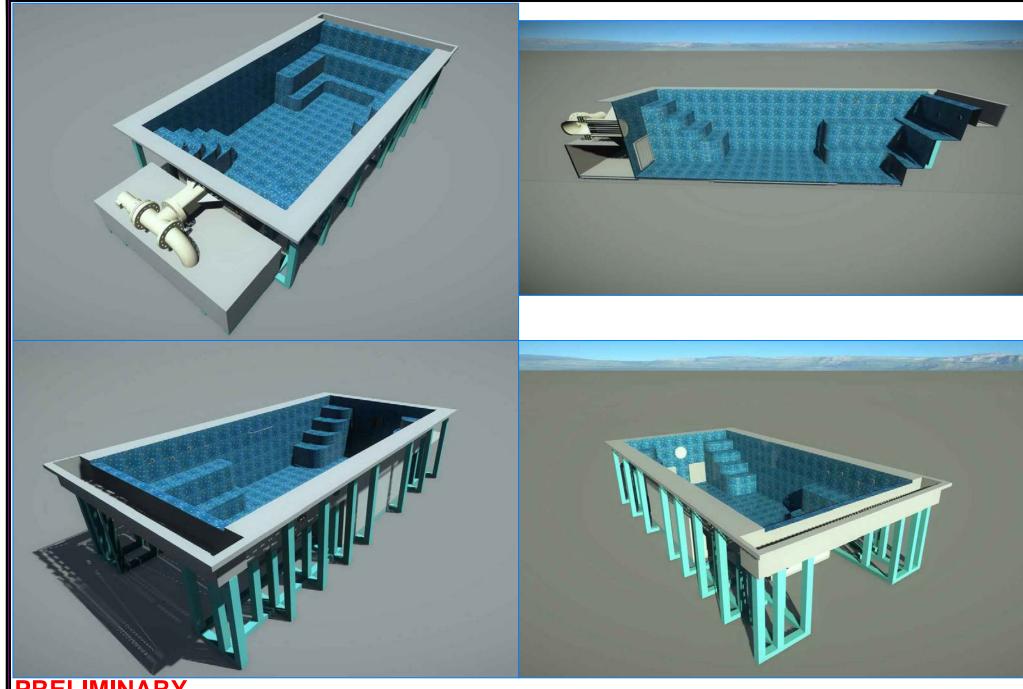
**SCALE** N/A 1/4 1/2 3/4

DWG TYPE

Riverflo

DATE **TELFORD** 

3/10/2015 PAGE 10 OF 16



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SCALE N/A

DATE

DWG TYPE Swim Spa Render

DWG NAME

**TELFORD** 

3/2/2015

SHEET PAGE 16 OF 16

# 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 <a href="https://www.IAPMO.org">www.IAPMO.org</a> 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.

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# **IN-GROUND**

## **INSTALLATION**

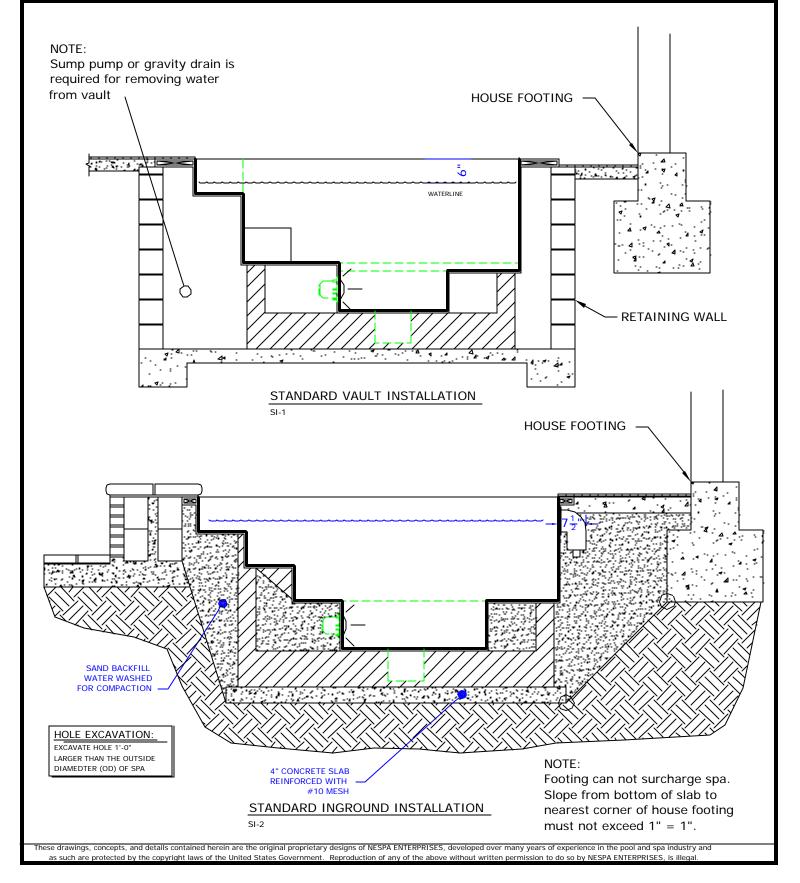
\*ALL DIMENSIONS SUBJECT TO 1/4" TOLERANCES\*

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

DATE: 3/27/02

JOB: STANDARD INSTALL

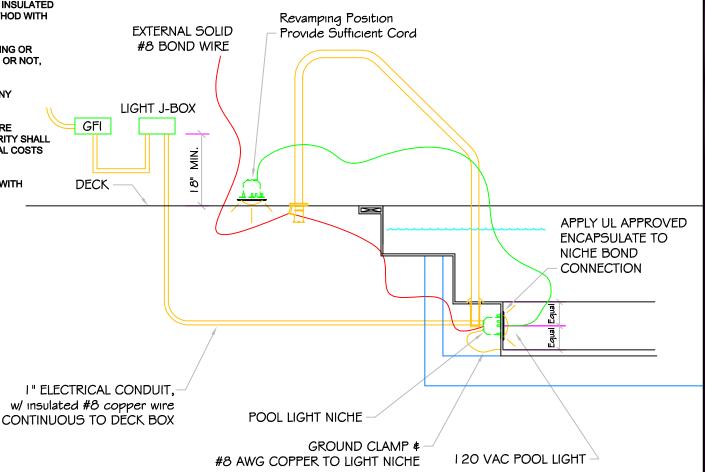
DW #: SI-1, SI-2



## 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 AUTORITY 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\*

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SIZE Α

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.