

City of Belle Isle

Orlando, FL 32811

SITE JOB PLEASE POST PERMIT CARD

FBC 105.3. An enforcing authority may not issue a building permit for any building construction, erection, alteration, modification, repair or addition unless the permit are includes on its face or there is attached to the permit the following statement: "NOTICE: In addition to the requirements of this permit, there may be additional retions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other enrinemental entities such as water management districts, state agencies, or federal agencies. The issuance of this permit does not grant permission to violate any icable City, Orange County, State of Florida and/or Federal codes and/or ordinances. Separate permits are required for Signs, Roofing, Electrical, Gas, Plumbing and hanical services. This permit becomes VOID if the work authorized is not commenced within 6 months, or is suspended or abandoned for a period of 6 months after mencement. WORK SHALL BE CONSIDERED SUSPENDED IF AN APPROVED INSPECTION HAS NOT BEEN MADE WITHIN A 6 MONTH PERIOD. PERMISSION RANTED TO DO THE FOLLOWING WORK ACCORDING TO THE CONDITIONS HEREON AND THE APPROVED PLANS AND SPECIFICATIONS, SUBJECT TO APLIANCE WITH THE ORDINANCES OF THE CITY OF BELLE ISLE. FLORIDA.	Permit Number: 2015-11-014
FBC 105.3.3. An enforcing authority may not issue a building permit for any building construction, erection, alteration, modification, repair or addition unless the permit are includes on its face or there is attached to the permit the following statement: "NOTICE: In addition to the requirements of this permit, there may be additional rictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other armmental entities such as water management districts, state agencies, or federal agencies. The issuance of this permit does not grant permission to violate an icable City, Orange County, State of Florida and/or Federal codes and/or ordinances. Separate permits are required for Signs, Roofing, Electrical, Gas, Plumbing and hanical services. This permit becomes VOID if the work authorized is not commenced within 6 months, or is suspended or abandoned for a period of 6 months after mencement. WORK SHALL BE CONSIDERED SUSFENDED IF AN APPROVED INSPECTION HAS NOT BEEN MADE WITHIN A 6 MONTH PERIOD. PERMISSION RANTED TO D THE FOLLOWING WORK ACCORDING TO THE CONDITIONS HEREON AND THE APPROVED PLANS AND SPECIFICATIONS, SUBJECT TO APLIANCE WITH THE OPDINANCES OF THE CITY OF BELLE ISLE. FLORIDA.	pe of Work: BUILDING: swimming pool

WARNING TO OWNER: "YOUR FAILURE TO RECORD A
NOTICE OF COMMENCEMENT MAY RESULT IN YOU
PAYING TWICE FOR IMPROVEMENTS TO YOUR
PROPERTY. IF YOU INTEND TO OBTAIN FINANCING,
CONSULT WITH YOUR LENDER OR AN ATTORNEY
BEFORE RECORDING YOUR NOTICE OF
COMMENCEMENT." ON THE JOB INSPECTION(S) MUST
BE MADE BEFORE PROCEEDING WITH SUBSEQUENT
WORK. THIS CARD MUST BE DISPLAYED OUTSIDE AND
BE PROTECTED FROM THE WEATHER WHILE BEING
VISIBLE FROM THE STREET UNTIL THE FINAL Date of Application: 11/12/2014

Date Permit Issued: 11/19/2014 BUILDING FEATURES Bob's Pools & Screens Wendorf, Elyse CPC1457513 850 E Semoran Blvd, Casselberry, FL 32707 407-834-3197 4106 Isle Vista Avenue, Belle Isle, FL 32812 20-23-30-0668-00-320 Construction Project Information Company Name: E Contractor Name: V License Number: 6 Address: 8 owner: Property Owner: Phone Number: Comments:

IMPACT FEES	BUILDING INSPECTOR USE ONLY
School \$	
Traffic \$	IF APPLICABLE: Have Zoning Approval Conditions Been Met? YES NO Have Stormwater Approval Conditions
ZONING FEES Zoning Fee \$165.00	9
UNIVERSAL ENG - BUILDING FEES	BUILDING
Cert of Occ \$	Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site?
	2 nd (Slab)
ay	3 rd (Lintel)(Wall Reinforcing on Masonry Building)
v(s)	4th(Exterior Framing)(Roof/Wall Sheathing)
Door(s) \$ PrePower \$	5 th (Framing) (To be made after Plumbing/ Mechanical/
Electrical \$ Temp Pole	Electrical Rough-Ins & Windows/Doors Installed)
	6 th (Insulation to be Made After Roof Installed)
Mechanical \$ Gas \$	7 th (Drywall)
ing Dock	8 th (Sidewalk/Driveway)
Screen End \$ Swimming Pool \$151,50	9 th (Other)
Sign \$	10 th (Final – After MEP and Other Applicable Finals)
SURCHARGE FEES	
Surcharge Fee \$2.00	□ ROOFING 1 ST ROOFING Deck Nailing/Dry-in/Flashing
→	2 nd ROOFING Covering In-Progress
TOTAL FEES \$320.50	3 ^ი ROOFING Covering Final
Date Paid (2-41 (☐ PLUMBING (Pool-Piping, Solar, Irrigation, Water Treatment Equip, Etc)
CC or check# 3768	1 ST (Underground) 2 nd (Sewer)
Amount Paid 330.50	3 rd (Rough-In/Tub Set) 4 th (Final)
The person accepting this permit shall conform to the terms of the	CHECK APPROPRIATE BOX CHECK APPROPRIATE BOX CHECK APPROPRIATE BOX CHECK APPROPRIATE CHECK APPROP
application on file and construction shall conform to the requirements of	1 st (Rough-In) 2 nd (Final)
the Florida Building Code (FS 553)	

Inspection requests are to be emailed to BIDscheduling@UniversalEngineering.com; a confirmation email will be sent back to you upon scheduling. Next-Day Inspection requests must be made by 1pm. Please include the following in your request: Permit #, project address, type of inspection, date of the requested inspection, a contact name & a contact phone number. AM or PM may be requested but cannot be guaranteed.

com/f/fo94edc4-832d-44bd-9809-ecf32f9e2e63 For a copy of your permit, or to check inspection results, please visit https://universalengineering.sha login ID = cobi@universalengineering.com passwor

PROJECT NUMBER OUS, 1400	431.	0000
TASK NUMBER	11	

CITY OF BELLE ISLE

Permit Application Review Sheet

Permit Number	2015-11-014
Property Owner	JPC Construction
Address	4106 Isle Vista Ave
Nature of Improvement	Building: pool
Received Application	11-12-14
Sent for Stormwater Review	
Stormwater Approved	
Sent for Zoning Review	11-13-14 wo # 44676
Zoning Approved	approved 118-14
Applied for Variance	
Variance Approved	
Sent to BO for Review	11-18-14
Building Official Approved	11-19-2014
	Comments
Susan (1-18-19	review wo # 44313
2 usan WENG	emeuled His ready
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City of Belle Isle
Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

Building Permit (Land Use) Application

DATE: 10/21/2014 P	ERMIT# 20(5-	11-0	14
PROJECT ADDRESS 4106 Isle Vista Ave	, Belle Isle, FL32	2809 🗸 3	2812
PROPERTY OWNER	LUE OF WORK (labor &mai	terial) \$	0,000
PLEASE LIST THE NATURE OF YOUR PROPOSED IMPROVEMENTS			
INSTALL POOL			
THO TALL TO GE			
Please provide information, if applicable. Survey specific foundation plan required to show compliance with zoning setbacks <u>BOAT DOCK</u> : DEP Clearance Required with Application (Call 407-897-4100); please provide a SEPTIC SYSTEM (RESIDENTIAL): – Provide verification of OC Health Dept approval for on-si Homeowners will be required to have a contractor on record for homes that are rented and/o	te septic tank system, per F	AC Chap.	64E-6
Please Complete for the City of Belle Isle Zoning Review: Parcel Id Number: 20-23-30-0	668-00-320	ches/Parce	Search asny
SPECIAL CONDITIONS: STRUCTURES MAY NOT ENCROACHINTO ANY EASEMENT OR		в С	D_
REQUIRED SETBACK. Note, this Zoning Approval MAY of MAY NOT be in conflict with your Deed Restrictions. For New Single Family Residence, a Traffic Impact Fee and School Impact will be assessed. Attached Survey 2 SETS Attached Survey 2 SETS City of Belle Isle	SPRINKLERS REQ'D If Required – SUBMIT COPY O REVIEW Date: Sent		RCD
PLANNING & ZONING APPROVAL:	ZONING Y	N	5165.
DATE	CERT OF OCC Y TRAFFIC Y	N N	\$
PLEASE COMPLETE for Building Review	SCHOOL Y	N	\$
CONSTRUCTION TYPE	FIRE Y	N	\$
OCCUPANCY GROUP Comm Res: Single Fam Multi Fam	SWIMMING POOL 🕜	N	\$151,50
#BLDG #UNITS _#STORIESTOTAL SQ.FT	SCREEN ENCLOSURE Y	N	\$
MAX. FLOOR LOAD MAX. OCCUPANCY	ROOFING Y	N	\$
MIN. FLOOD ELEVLOW FLOOR ELEV WATER SERVICEWELLSEPTIC	BOAT DOCK Y	N	\$
WATER SERVICEWELLSEPTIC	BUILDING Y	N	\$
4 5	WINDOW(S) Y	N	\$
BUILDING REVIEWER Angel Alere 11-19-2014	DOOR(S) Y	N	\$
Solization New York	FENCE y	N	\$
VERIFIED CONTRACTOR'S LICENSE & INSURANCE ARE ON FILE DATE	SHED Y	N	\$
	DRIVEWAY Y	N	\$
Per FSS 105.3.3:	OTHERY	N	\$
An enforcing authority may not issue a building permit for any building construction, erection, alteration, modification, repair or addition unless the permit either includes on its face or there is attached to the permit the following statement: "NOTICE: In addition to the requirements of this permit, there may be	3% FL SURCHARGE	3	400
additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies, or federal agencies."	TOTAL		
	By Owner Form	Υ	NA
Republic Services is by legal contract the sole authorized provider of garbage, recycling, yard waste, and comparately applicable and comparately applicable and displaced provider and	Notice of Commencement	Υ	NA
and commercial garbage and construction debris collection and disposal services with the city limits of the City. Contractors, homeowners and commercial businesses may contact Republic Services at 407-	Power of Attorney	Υ	NA
293-8000 to setup accounts for Commercial, Construction Roll Off, or other services needed. Rates are fixed by contract and are available at City Hall or from Republic Services. The City enforces the contract through its code enforcement office. Failure to comply will result in a stop work order.	Contractor Packet Incuded? OTHER PERMITS REQUIRED:	Υ	N
oonwast anough its code emorement onice. I allule to comply will tesult in a stop work order.	ELECTRICAL	(1)	NA
SEPARATE PERMITS ARE REQUIRED FOR ROOFING, ELECTRICAL, PLUMBING, GAS,	PREPOWER	Ÿ	NA NA
MECHANICAL, SIGNS, POOLS, ENCLOSURES, ETC.	MECHANICAL	V	NA
	PLUMBING	Ó	NA NA
Page 1 of 2	ROOFING	Y	NA NA
	GAS	Y	NA

building permut \$ 2014-08-086

City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811 Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

Building Permit (Land Use) Application

To be completed as required by State Statute Section 713 and other applicable sections.

		PERMIT # 2015-11-014
Name	Jpc Construction Inc	3013 11 3 11

Owner's Address 4210 Kezar Ct Belle Isle, FL 32812-3628

Contractor Name ELYSE WENDORF	Company Name BOBS POOLS AND SCREENS
License # CPC1457513	Company Address 850 E SEMORAN BLVD
Contact Phone/Cell 407-834-7100	City, State, ZIP CASSELBERRY, FL 32707
Contact Email ERICA_WENDORF@YAHOO.COM	Contact Fax 407-834-3197

WARNING TO OWNER: Your failure to record a Notice notice of commencement must be recorded if job is \$2 If you intend to obtain financing, consult with your len

I hereby make Application for Permit as outlined abov (www.floridabuilding.org) and City Ordinances (www.this permit does not grant permission to violate any apobtain a permit to do the work and installations as indicate work will be performed to meet the standards of all laws a all other construction including ROOFING, ELECTRICAL,

OWNER'S AFFIDAVIT: I certify that all the foregoing info

construction and zoning.	
Owner Signature	Impervious Surface Ratio Worksheet Development Zoned A-1. A-2, R-1-AAA, R-1-AA, R-1-A, R-1 per City Code, Section 50-74: Impervious Surface Ratio
The foregoing instrument was acknowledged before me this 10/21/14	1. Total Lot Area (sqft) X 0.35 = Allowable Impervious Area (BASE).
by JOHN CARR who is personally known to me	Total Lot Area X 0.35=
and who produced as identification and who did not take an path.	Allowable Impervious Area (BASE)
Notary as to Owner State of Florida	 Calculate the "proposed" impervious area on the lot. This includes sum of all areas that do not allow direct percolation of rainwater. Examples include house, pool, deck, driveway, accessory building,
County of Orange MELISSA REEL	House
MY COMMISSION #FF035079	Driveway
Contractor Signature PlongaNotaryService.com	Walkway
COMPANY NAME BOBS POOLS AND SCREENS	Accessory Buildings
The foregoing instrument was acknowledged before me this 10/2/14	Pool & Spa
by ELNSE WENDORF who is personally known to me	Deck & Patio
	• Other
and who produced as identification and who did not take an oath	Actual Impervious Area (AIA)
Notary as to Owner A Jello County of Orange	If AIA <u>is less than</u> BASE, subtract AIA from BASE to determine the amount of impervious area that may be added without providing on retention.
MELISSA REEL	4. If AIA is greater than BASE, then onsite retention must be provide
EXFIRES ally 10, 2017	Assuming 7.5 inches of rainfall based on a 24hr 10 year Rain Event (TP-the formula is: (7.5 inches rainfall/12 inches p/foot) X (result from line cubic feet of storage volume needed
(407) 398-0153 FloridaNolaryService.com	The state of the s

Page 2 of 2

	Company Name Bobb 1 3 223 7 11 2 3 3 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Company Address 850 E SEMORAN BLVD	
	City, State, ZIP CASSELBERRY, FL 32707	
1	Contact Fax 407-834-3197	
2500(+) or if A/C Re	ont may result in your paying twice for improvements to your property. A placement \$7500(+) and posted on the job site before the first inspection. before recording your Notice of Commencement.	
.municode.com) regapplicable City and/ ed. I certify that no was regulating construction	granted I agree to conform to all Division of Building Safety Regulations gulating same and in accordance with plans submitted. The issuance of or State of Florida codes and /or ordinances. Application is hereby made to work or installation has commenced prior to the issuance of a permit and that all on in this jurisdiction. I understand that a separate permit must be secured for MBING, GAS, SIGNS, POOLS, SCREEN ENCLOSURES, ETC.	
formation is accurate	and that all work will be done in compliance with all applicable laws regulating	
	Impervious Surface Ratio Worksheet Development Zoned A-1. A-2, R-1-AAA, R-1-AA, R-1-A, R-1 per City Code, Section 50-74: Impervious Surface Ratio	
nis <u>10/2 /1</u> 4	1. Total Lot Area (sqft) X 0.35 = Allowable Impervious Area (BASE).	
y known to me	Total Lot Area X 0,35=	
	Allowable Impervious Area (BASE)	
	Calculate the "proposed" impervious area on the lot. This includes the sum of all areas that do not allow direct percolation of rainwater. Examples include house, pool, deck, driveway, accessory building, etc.	
EL	House	
F035079 2017	Driveway	
o.com	Walkway	^
	Accessory Buildings	
nis 10/24/14	Pool & Spa	
y knows to me	Deck & Patio	
7	• Other	
	Actual Impervious Area (AIA)	
ell	3. If AIA <u>is less than</u> BASE, subtract AIA from BASE to determine the amount of impervious area that may be added without providing onsite retention.	
7	4. If AIA is greater than BASE, then onsite retention must be provided.	
	Assuming 7.5 inches of rainfall based on a 24hr 10 year Rain Event (TP40), the formula is: (7.5 inches rainfall/12 inches p/foot) X (result from line 4) = cubic feet of storage volume needed	



COBI Permit Fee Calculation Form



Reviewer Signature:	AP.	Date:	11/19/2014
Permit Type:	P00/	Job Cost:	\$ <u>20,000</u>
Permit Fee:	\$ <u>101</u>		
Plans Review Fee:	\$(50% of perm	it fee – excluding I	ReRoofs)
1.5% State Fee:	\$		
1.5% State Fee:	\$		
TOTAL BUILDING FEE:	\$(does not income: Total gets doubled for SWO/AFT per		or Deposits)

$$$35+(4\times19)=76+25=$101-$101\times 50=$50.50
101.00
$155.50
($5.50
($5.50)$$



CITY OF BELLE ISLE, FLORIDA

1600 Nela Avenue Belle Isle, Florida 32809 (407) 851-7730 • FAX (407) 240-2222 www.cityofbelleislefl.org

RESIDENTIAL SWIMMING POOL SAFETY AFFIRMATION

Date:_	10/29/14	Permit #:
hereby by a ba	(print contractor's name) affirm that the pool will be isolated from access from with arrier that meets the pool barrier requirements of Florida Residential Section R4101.17.	e #_CPC1457513 hin the dwelling AND from adjacent properties Statute 515.29 and the 2010 Florida Building
Check	the applicable barrier requirements from the follow	ving options and show on the site plan:
	The pool will be equipped with an approved safety pool of (Standard Performance Specifications for Safety Covers FBC R4101.17, Exception.	
X	The pool will be isolated from access by a mesh safety be FBC R4101.17.1.15.	arrier that meets the requirements of
	The pool will be isolated from access by a screen enclosuFBC R4101.1.1 through R4101.1.8.	ire that meets the requirements of
	The pool will be isolated from access by a fence and ped- FBC R4101.1.1 through R4101.1.8.	estrian gates that meet the requirements of
Does a	any part of the barrier consist of dwelling walls whi	ch contain doors or windows?
	Yes No If yes, then check which of the	e two options below are applicable:
	All doors and windows providing direct access from the desit alarm that meets the requirements of FBC R4101.17	lwelling to the pool will be equipped with an
	All doors providing direct access from the dwelling to the self-latching devices installed 54" above the threshold the FBC R4101.17.1.9, exception 2.	
I unders	stand that the above indicated shall be installed before the time	of pool safety inspection per FBC R4101.19.
	(contractor's signature)	(property owner's signature)

Revised 07-2012

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	162		
(A):			
	* *		



Geotechnical & Construction Materials Engineering, Testing, & Inspection Environmental Services

Offices throughout the state of Florida

www.nuttingengineers.com info@nuttingengineers.com

October 10, 2012

Baby Guard, Inc. 5299 Hiatus Road Sunrise, Fl. 33351

Attn: Michael Schatzberg

Re: Verification Testing & Inspection

Dear Mr. Schatzberg:

Baby Guard, Inc. retained Nutting Engineers of Florida Inc. to test The Baby Guard Product line to verify their conformity with ASTM Standard F-2286-05 and 2010 Florida Building Code Section 424.2.17.1.1 through 424.2.17.1.14

The test specimens consisted of fifteen (15) foot sections of representative safety fencing. The section tested measured forty-eight (48) inches high. They were installed with horizontal spacing of thirty-six (36) inches. The representative samples were installed as per the ASTM Standard F-2286-05 Section 4.

We have completed the performance tests for vertical load and impact testing in our facility based on the noted ASTM Standard as well as reviewing test results from Q-Lab and Diversified Testing Lab.

Conclusion:

Based on our testing and the information provided to us for review the products were found to meet all minimum requirements put forth by ASTM F-2286-05 and Section 424.2.17.1.1 through 424.2.17.1.14 of the 2010 Florida Building Code.

Sincerely

NUTTING ENGINEERS OF FLORIDA, INC.

Dan Hartke

Director of Operations

Richard C. Wohlfarth P.E. # 50858

Principal Engineer

1310 Neptune Drive - Boynton Beach, Florida 33426 · (561) 736-4900 · Fax (561) 737-9975 Broward (954) 941-8700 · Port St. Lucie (772) 408-1050 · Miami Dade (305) 624-0060

Received Time Oct. 16. 2012 10:09AM No. 5216



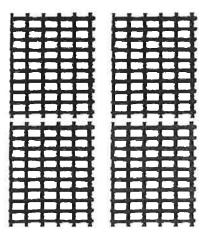
- Home D»
- About Us ↓»
- <u>Products ↓»</u>
- Locations
- Fence Parts
- GalleryContact

Baby Guard's Pool Fence Products

Baby Guard swimming pool fences have been proven to meet or exceed the requirements of <u>ASTM F 2286-05</u>, the design and performance specification for removable mesh fencing for swimming pools. Our fencing also exceeds <u>National Safety Council</u> guidelines, and is available in heights of 4 or 5 feet. It can be installed on virtually every deck surface, including wood, tile, acrylic, brick pavers and seawalls. Only Baby Guard pool fences offer you *all* of the following:

While most other pool fence companies offer only one style of mesh, with a limited number of color options. Baby Guard offers 3 different styles of mesh, coming in a multitude of different color combinations. At Baby Guard, we believe that you, our customer, should have the opportunity to select the most aesthetically pleasing pool fence possible.

Baby Guard's Premium Pool Fence



The Baby Guard premium pool fence is by far the strongest and safest pool fence that we offer. Poles are spaced every 30 inches for added support. Baby Guard's premium mesh is an updated, stronger and improved version of what has been available. This mesh is only available through Baby Guard. With 3 layers of coating, ultra violate inhibitors, and mildew retardants built in, this mesh by far the strongest. Guaranteed not to shrink, stretch, fade or dry rot.

Premium Pool Fence is available in black, green, blue, and brown.

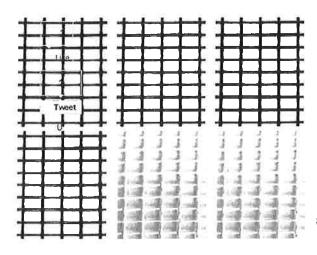
Baby Guard's Clear View Pool Fence

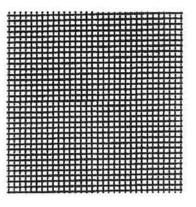
This pool fence is considered one of the most see through fences available and one of the most requested style of pool fencing. Unlike standard free woven designs, this mesh is

twisted and knotted together. With poles Spaced every 36 inches this mesh fence is virtually invisible.

Clearview Pool Fence is available in black, brown, blue, green, white, and beige.

Baby Guard's Standard Pool Fence

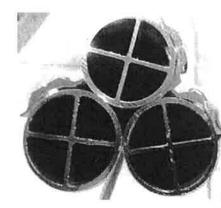




This fence is made with a durable free woven mesh with poles spaced every 36 inches. Many older pool fences use this material and some customers still prefer it because they had it before. This fence comes with a complete lifetime warranty.

Standard Pool Fence is available in black only.

Reinforced Poles



Baby Guard pool fence poles are constructed using non-corrosive, rust-proof **XT-6000**TM fully reinforced aluminum, which are the strongest poles in their class. This pole is available in colors to match or coordinate with our exclusive Baby Guard Premium Interlock mesh. The color is powder-coated to the pole to prevent scratching, peeling and chipping.

We also offer fully reinforced composite poles which are strong and durable. Both poles can withstand nature's elements.

Order Replacement Poles.

Child-Proof Locks



Baby Guard pool fence offers the ultimate child-proof locks. Our patent pending safety solution is effective even for children of swimming age. The keylockable system offers you peace of mind knowing that your pool is secure from any unwanted intrusions, even for an extended period of time. Children will not be able to open any section of the pool fence as long as it is locked. Insist on key-lockable latches to be sure a child cannot open your fence.

Order Replacement Gate Latches/Eye Hooks.

Baby Guard's Self-Closing Gates

Baby Guard Pool Fence Company's patented self-closing gate (patent #US6789786B1) has revolutionized pool fencing. Baby Guard's self-closing gates can be retrofitted to any existing pool fence without the need of drilling additional holes. This means that you will be able to add one to your existing pool fence later on if you choose to do so. It has a special support system that does not require adjustments when removing and replacing the gate.

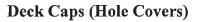
To order a self closing gate for you fence, please call us at 1-888-919-2229.

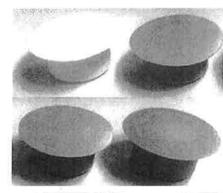


Top PullMagna Latch



The Top Pull Model is designed especially for swimming pool gates but can be installed on any gate where child safety is important. It is designed to extend above the height of the fence to keep the release knob out of reach of children, and is also key-lockable for added safety. Tested to over 400,000 cycles, the Top Pull Model has been independently verified to meet stringent international safety codes, and has also received several prestigious design awards. Click here for more information about the Magna Latch.





When you decide to take your fence down you may want to put 'deck caps' in the holes until you are ready to put the fence back up. We have deck caps in four different colors to help

Order Deck Caps here. or Deck Sleeves.

Highest Quality Components



All of the parts used to construct the Baby Guard pool safety fence are of the highest quality. Baby Guard pool fence uses stainless steel latches and screws and heavy molded sleeve inserts. Matching deck caps are provided to cover holes when the fence is removed. Baby Guard fences are designed to stand up to any environmental element.

Professional Installation



All Installers are independently owned and operated Baby Guard dealers. They are exclusively licensed to use all Baby Guard products, trademarks, names, and patents. The Baby Guard name can assure you of a quality installation every time.

<u>Click here</u> to find a professional Baby Guard pool fence installer near you!













INSTALLATION MANUAL

LAYOUT-

The most important part of the installation is the layout of where the holes will be drilled. The measurements between the poles needs to be very precise for the fence to fit properly. This cannot be stressed strongly enough. All references to measurements are made from the perspective that you are facing the pool. As a result the fence is manufactured, it is recommended that you face the pool when measuring and marking your holes.

- 1). The first consideration during layout is the location of the gate. In most cases the steps leading down into the pool is the best place for the gate. The only difference between a gate section and where two sections meet are the additional fall back holes which should be drilled at the gate to create a set opening for exit and entrance of pool.
- 2). Begin your layout where you want the gate to be, by placing your buliseye down in front of the steps, measuring the side of the circle closest to the pool, the distance you desire. 18-24" (inches) is recommended to provide ample walking space between the fence and the water. Draw a circle and draw a centerline down the middle of the circle. All measurements between circles is from centerline to centerline. This is very important. Measure from the centerline 2 1/2" over and draw another circle also measuring desired distance from the edge of the pool. Then select a direction to continue layout and measure 30" for the next hole. Measurements between poles needs to be precise as well as keeping an even distance from the edge of the pool. If you measure more than 30" the fence will be very tight. If you measure less than 30" the fence will be very tight. If you measure less than 30" the fence will be very tight. If you measure less than 30" the fence will be very tight. If you measure less than 30" the fence will be very tight. If you measure less than 30" the fence will be very tight. If you measure less than 30" the fence will be very tight. If you measure less than 30" the fence will be very tight. If you measure less than 30" the fence will be very tight. On the lengths. As you continue to layout, remember to stop when you finish laying out a five pole section. From the fifth pole, measure 2 1/2" for the first hole of the next section. Continue this process around half of the pool, then stop and pick back up where you started at the steps and continue around the other side of the pool.

The final hole you mark will most likely measure less than 30" from the last hole you marked before you continued back at the steps. After this part of the layout is complete, mark the extra fall back holes that your gate section poles will fit into when the gate is opened.

3). The last section you laid out most likely needs to be cut back from a standard section. Note whether you will be cutting from the right or left side of section. Measure centerline distance between odd panel, add 1/4" to this measurement and write it down. Count the number of holes on this section and mark on this section the measurement of the odd panel (with a china marker) and cut the material on that mark. Staple the border material onto the panel you just cut. Attach a pole onto the border you just stapled.



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DRILLING-

Do not attempt to install the baby guard pool fence with a hammer drill or a hand drill. In order to produce a correctly installed pool fence with the proper amount of tension, you need a full size core drill with leveling adjustments and a bubble level.

- 1). Set up the drill on the pool deck. Attach water hoses and electrical cords.
- 2). Since your layout measurements are very precise, you must be equally precise setting the drill bit down on the drawn circles. Any indifference with the drilling in relation to the layout will result in the fence not fitting properly.
- 3). Taping the drill bit 4" from the bottom provides a good method of measuring for drill depth.
- 4). Set the water spigot at a medium flow. If the flow is too heavy, water will spray up from the hole and you will get "soaked". If the water flow is too weak, the core that you drill will get stuck inside the bit on every hole.
- 5). When drilling a straight run, simply center the drill bit on the hole drawn, center the leveling bubble on the drill "dead center" using the drill's adjustment screws. Set the drill bit down slowly on the circle while putting pressure down on the motor, in order to get the hole started.
- 6). When drilling turns, adjust the drill with the adjustment screws to lean the drill to the opposite of the angle of the pool. What this means is: If the pool curves to the right, the drill needs to lean to the left with the leveling bubble pointing toward the pool. If the pool curves to the left, the drill needs to lean to the right with the bubble pointing away from the pool
- 7). As far as drilling the proper angle, it is recommended that you drill the double holes (where two sections meet) slightly towards each other, this makes it easier to squeeze the poles together. As far as how hard you drill the turns, this simple rule applies: The harder the turn, the harder the angle the easier the turn, the easier the angle.
- 8). After you have finished drilling all of the holes, with the needle nose pliers, go around and pull out all the cores. Then insert the plastic sleeves. If the drill bit you used was new, you will need to wrap the neck (under the lip) of the sleeve with a few wraps of electrical tape.
- 9). Once the sleeves are in place, put all of the sections up. You may need to give the poles a slight twist to achieve the proper tension.
- 10). Once the sections are up, put the 5/32 metal drill bit on the hand drill. On the last pole of each section, there is a hole without a screw, ream out that hole a little with the bit. If you don't, the brass hook and eyes will break.
- 11). Twist on all the locks and eyes, then lock the entire fence.
- 12). If the pool fence seems unusually loose or tight, you can easily adjust any panel by simply taking the screws out a few at a time and either slide the border out to tighten or slide the border in to loosen.



Baby Guard of Central Florida, Inc. Supplement to Baby Guard, Inc. Installation Manual Re: Ground Installation & Paver Installation Ground Installation: When installing the Baby Guard pool safety fencing system in the ground (ie. Dirt, grass, etc.) installers shall use schedule 40 PVC pipe, minimum length of 18". The pipe shall be hammered into the ground for the fence poles to be installed. Two inches of cement poured around the top of the PVC is necessary in cases where more than two consecutive poles are being installed in the ground. Pavers: In most cases installation in paver decks where the individual pavers are over two inches thick the standard Baby Guard deck installation should be sufficient. The installer should check the fence to ensure it is safely installed and cement down any pavers where the fence is loose.

In most cases where individual pavers are under two inches thick, all pavers should have cement installed underneath the paver prior to drilling.

VACUUM (EXISTING PUMP)

Lot 32 Ballvista

Data assumes 2" suction line (2 ½" for 3hp) 40' long, minimal fitting, 1-2" valve and full rated pump. (Excludes Northstar)

Max Flow rates at 8 Feet Per Sec

•	¾ hp pump	4.5 to 5.	5 feet	of water
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• 1 hp pump 4.5 to 9 feet of water

• 1 1/2hp pump 10 to 12.5 feet of water

• 2hp pump <u>13.5 to 16 feet of water</u>

• 3hp pump 14.5 to 17 feet of water.

1.5" Pipe 51 gpm 2" Pipe 84 gpm

2.5" Pipe 120 gpm

3" Pipe 184 gpm

4" Pipe 317 gpm

FILTERS

All NSF approved filters may be calculated at 7 feet of head or refer to owners guides.

Heaters ED1, ED2, IDL, IDL2

	Heuler's ED1, ED2, IDE, IDE2						
40 GPM	5.12	60 GPM	7.23	80 GPM	7.80	100 GPM	9.86
50 GPM	6.16	70 GPM	7.50	90 GPM	8.84	110 GPM	13.00
Universal Forced Draft							
40 GPM	2,72	60 GPM	3.70	80 GPM	5.06	100 GPM	6.42
50 GPM	3 12	70 GPM	4.30	90 GPM	5.54	110 GPM	6.98

BACKWASH VALVES

Multiport	1%	2"
40 to 60 GPM	9.0	4.0
70 to 80 GPM	NR	10.0

Push Pull	11%	2"
40 to 60 GPM	6.0	5.0
70 to 80 GPM	NR	6.0

AQUA RITE CHLORINE GENERATOR

40.GPM	60GPM	80GPM	100GPM
.40	1	1.45	2.31

SKIMMERS AND MAIN DRAINS (all 2")

F	Approximately years years and years and years are all years are all years and years are all years					
GPM	Main Drain	Skimmer				
40	1	2				
50	1 1/2	3				
(0)	2	4				
70	3	. 5				

RETURN FITTINGS OR EXIT LOSS (head Loss)

GPM	<u>%</u>	<u>%</u>	110111111111111111111111111111111111111
10	4.15	.82	
15	9.34	1.85	.58
20	16.61	3.28	1.04
25		5.13	1.62

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DIFIGURE LUCKING KNOW securely rastens titter nead to ritter rank, — eliminating clamps or bolts.

Filter Head provides easy access to cartridge element. May be rotated to conveniently position gauge and manual air relief valve.

Heavy-Duty Filter Tank is injection molded of high-strength PermaGlass XL[®] for dependable, corrosion-free performance.

Automatic Air Relief purges any trapped air during filter operation.

Single-Element Cartridge is engineered of high-quality reinforced polyester, with gasketed molded end caps, for maximum efficiency, — easier cleaning and longer life.

Precision-Engineered Extruded Core provides extra strength and superior flow.

Elevated Filtered Water Collector with Debris Sump prevents accidental bypass of heavy debris to pool or spa when cartridge is removed for cleaning.

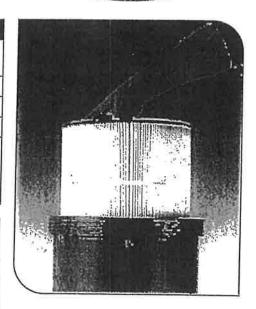
 $1^{1/2}$ " or $2^{\text{"}}$ FIP, or $2^{\text{"}}$ SKT Connections (adapters provided) for plumbing versatility.

 $^{1/2}{}^{\rm n}$ 14 NPSM Filter Drain for fast draining. Also accepts standard spigot valve.

SPECIFICATIONS - STAR-CLEAR PLUS CARTRIDGE FILTERS			
FILTER TYPE	Cartridge Element: 75 ft.², 90 ft.², 120 ft.² 175 ft.² (6.97 m², 8.37 m², 11.15 m² and 16.26 m²)		
FILTER TANK High-Strength, Injection-Molded PermaGlass™			
FILTER ELEMENT	Reinforced Polyester		
PERFORMANCE RANGE	1/2 to 3 HP (75 to 120 GPM) 0.37 to 2.20 KW (284 to 455 LPM)		
DIMENSIONS	C751-30" H x 133/8 W (762 mm x 340 mm) C900-30" H x 133/8 W (762 mm x 340 mm) C1200-36" H x 133/8 W (914 mm x 340 mm) C17502-43" H x 133/8 W (1,080 mm x 340 mm)		

PERFORMANC	E DATA			i fate /	11 11 15 1		3		
MODEL	EFFE	CTIVE	DE:	DESIGN		TUR	NOVER		
NUMBER	FILTRAT	ION AREA	FLOW	/ RATE*	GAL	GALLONS		LITERS	
	捉名	m ^{/z}	GPW	LPW	8 hrs.	10 hrs.	8 hrs.	10 hrs.	
RESIDENTIAL									
C751	<i>7</i> 5	6.97	75	284	36,000	45,000	136	171	
C900	90	8.36	90	341	43,200	54,000	164	205	
C1200	120	11.15	120	455	57,600	72,000	218	273	
C17502	175	16.26	120	455	57,600	72,000	218	273	
			PI	UBLIC					
C751	<i>7</i> 5	6.97	28	107	13,500	16,875	51	64	
C900	90	8.36	34	128	16,200	20,250	61	77	
C1200	120	11.15	45	171	21,600	27,000	82	102	
C17502	175	16.26	66	249	31,680	39,600	119	1.49	

Determined by pump size and piping system hydraulics; 2" piping is recommended for flow rates of 90 GPM (341 LPM). Public Design Flow rates based on .375 GPM/ft.(15.26 LPM/m²).



Easy-to-clean cartridge elements Hayward cartridges have extra dirtholding capacity and are engineered of durable, high-quality materials to last for years with only minimal care. Simply remove the cartridge element and hose off with Hayward's EC2024 Jet-Action Cleaning Wand to restore the filter to clean operating condition.



www.haywardnet.com 1-888-HAYWARD



HAYWARD Pool Products
One source. Every pool.

Page 3 of 8

DUAL SUCTION OUTLET SET

ISDUALSWG REV D

• RECOMMENDED SYSTEM SPECIFICATIONS:

SYST (6 FT	EM FLOW I	MENDED RATE PEF E BRANC	0 15 25 35 45 55 65 75 85 95 105 115 125 -0.5 COVER ONLY	
Pipe Size [mm]	Flow rate GPM	Pipe Size [mm]	Flow rate GPM [Liter/Min]	-1.5 COVER IN 2" SUMP
1 ½" ["] [50]	[Liter/Min] 40 [150]	2 ½" [75]	90 [340]	H -2 UI -2.5 -3
2" [63]	63 [240]	3" [90]	138 [522]	-3.5 -4 -4.5
ĵ.	Chai	·t 1		Flow vs Pressure Drop

WGX1048E Suction Outlet Covers are rated for Floor Only at 125 GPM

FIG:

Note: 1" Hg = 1.13 Ft of Head

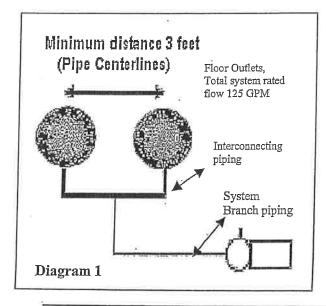
WG1048EW Suction Outlet Covers are rated for Wall or Floor at 72 GPM

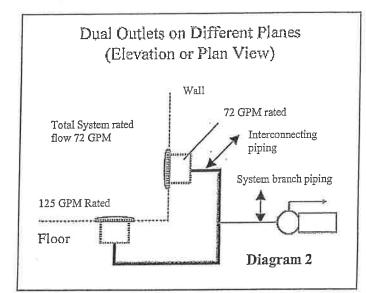
In the event of one suction outlet being blocked, the remaining suction outlets serving that system shall have a flow rating capable of the full flow of the pump(s) for the specific suction system.

Example: In the System shown in Diagram 1, two (2) "Floor Only" suction outlet covers are selected and mounted.

These covers are individually rated for 125 GPM. For a desired flow rate through the pump of 100 GPM, a minimum pipe size from the Chart 1 is selected at 3". At the desired flow of 100 GPM one cover could be partially blocked and the other suction outlet flow would be below the rated 125 GPM of the "Floor" mounted suction outlet cover. Since there are two outlets flowing in normal operation, and the allowable velocity in the interconnecting piping is only 3ft/sec, the same pipe size is required in the interconnecting piping.

Example: In the System shown in Diagram 2, one (1) "Floor Only" suction outlet cover, rated at 125 GPM, and one (1) "Wall or Floor" suction outlet cover, rated at 72 GPM are selected and mounted. For a desired flow rate through the pump of 50 GPM, a minimum pipe size from the Chart 1 is selected at 2". At the desired flow of 50 GPM either cover could be totally blocked and the other suction outlet flow would be below the rated 72 GPM of the wall mounted suction outlet cover. Note: Flow may be limited by entrapping force in dual suction systems.

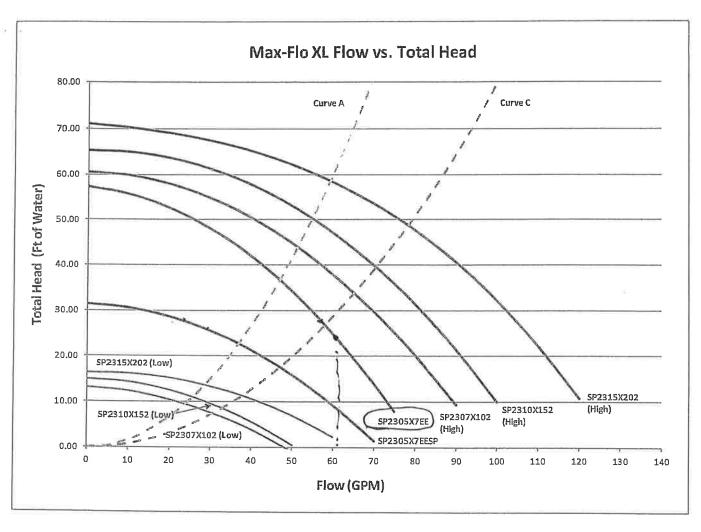






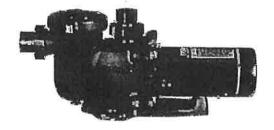
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To take a closer look at Max-Flo XL or other Hayward products, go to www.hayward.com or call 1-888-HAYWARD





Max-Flo XL Series Pumps are listed by:







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ISWG1048COC Rev D



CERTIFICATION OF COMPLIANCE

Contains: WG1048E, WG1048EBLK, WG1048EGR, or WG1048EDGR Description: 8" Round Suction Outlet Cover

Ratings: Floor: <u>125 GPM</u> Wall: <u>72 GPM</u> Open Area: <u>8.1 sq-in</u>
Certified to Comply with Section 1404 of the Virginia Graeme Baker Act (VGB) Pool & Spa Safety Act codified at 16 CFR part 1450. Initial Certification May 2011.

Manufactured: After September 10, 2009, by a Division of Hayward Industries, Inc. at K4-A, 214028 Block K4- A, Export Processing Zone Wuxi New District Jiangsu Province PRC 214028, China; or at One Hayward Industrial Drive, Clemmons, NC 27012. Certified by Hayward Pool Products, 620 Division Street, Elizabeth, NJ 07207, Phone 908-355-7995 Contact at www.haywardnet.com

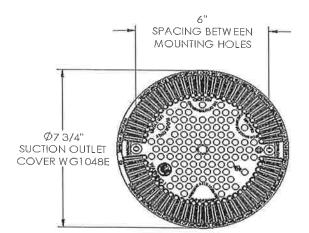
Record Custodian is Customer Service at www.hayward-pool.com/pdf/literature/8inroundCOC.pdf

Date of Mfr: The Lot Number shown on the product label contains the Year & Month of manufacture. The first number represents the year (ex 1 = 2011) and the second character the month (A=Jan, B=Feb, H=Aug, I is skipped, J=Sep, etc)

Tested to: ANSI/APSP 16 (ANSI/ASME 112.19.8-2007 (addendum 9b-2009)) per Section 1404 of the Virginia Graeme Baker Act (VGB) Pool & Spa Safety Act. Tested by NSF International, 789 Dixboro Road, Ann Arbor, MI 48113, Phone 734-769-8010 in April 2011. Certificate at: http://info.nsf.org/Certified/Pools/Listings.asp?Company=21600&Standard=ASME1908

Suction outlet components have a finite life, the cover/grate should be inspected frequently and replaced at least every <u>7 years</u> or if found to be damaged, broken, cracked, missing, or not securely

Hayward Pool Products acknowledges that it is a federal crime to knowingly and willingly make materially false, fictitious, or fraudulent statements, representations, or omissions on this certification.



USED ON FOLLOWING SERIES:

WG1048AVPAK2 SP1048AVPAK WG1049AVPAK2 SP1049AVPAK WG1051AVPAK2 SP1052AVPAK WG1052AVPAK2 SP1052AVPAK WG1053AVPAK2 SP1053AVPAK	WG1048AVPAK2 SP1048AVPAK WG1049AVPAK2 SP1049AVPAK WG1051AVPAK2 SP1051AVPAK WG1052AVPAK2 SP1052AVPAK WG1053AVPAK2 SP1053AVPAK WG1054AVPAK2 SP1054AVPAK		
WG1153AVPAK2 SP1153AVPA	WG1194AVFAKZ 3F1194AVFAK	WG1048AVPAK2 WG1049AVPAK2 WG1051AVPAK2 WG1052AVPAK2 WG1053AVPAK2 WG1054AVPAK2 WG1153AVPAK2	SP1030AVPAK SP1048AVPAK SP1049AVPAK SP1051AVPAK SP1052AVPAK SP1053AVPAK SP1054AVPAK

▲ Warning – Suction Entrapment Hazard.

Suction in suction outlets and/or suction outlet covers which are installed in a small area and/or below the surrounding surface can cause severe injury or death due to body entrapment hazard. To reduce the risk of body entrapment, installation of the field fabricated sumps must be such that the top of the mounted cover is a minimum of 1 1/2" above the finished pool surface over an area larger than 40" on a diagonal.

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Concrete - Standard Body

Product Description
For use on residential and commercial pool, spa or water feature applications with various plumbing and color considerations. These suction outlets are VBG compliant, tested to ANSI/APSP-16 standards and meet all CPSC requirements.



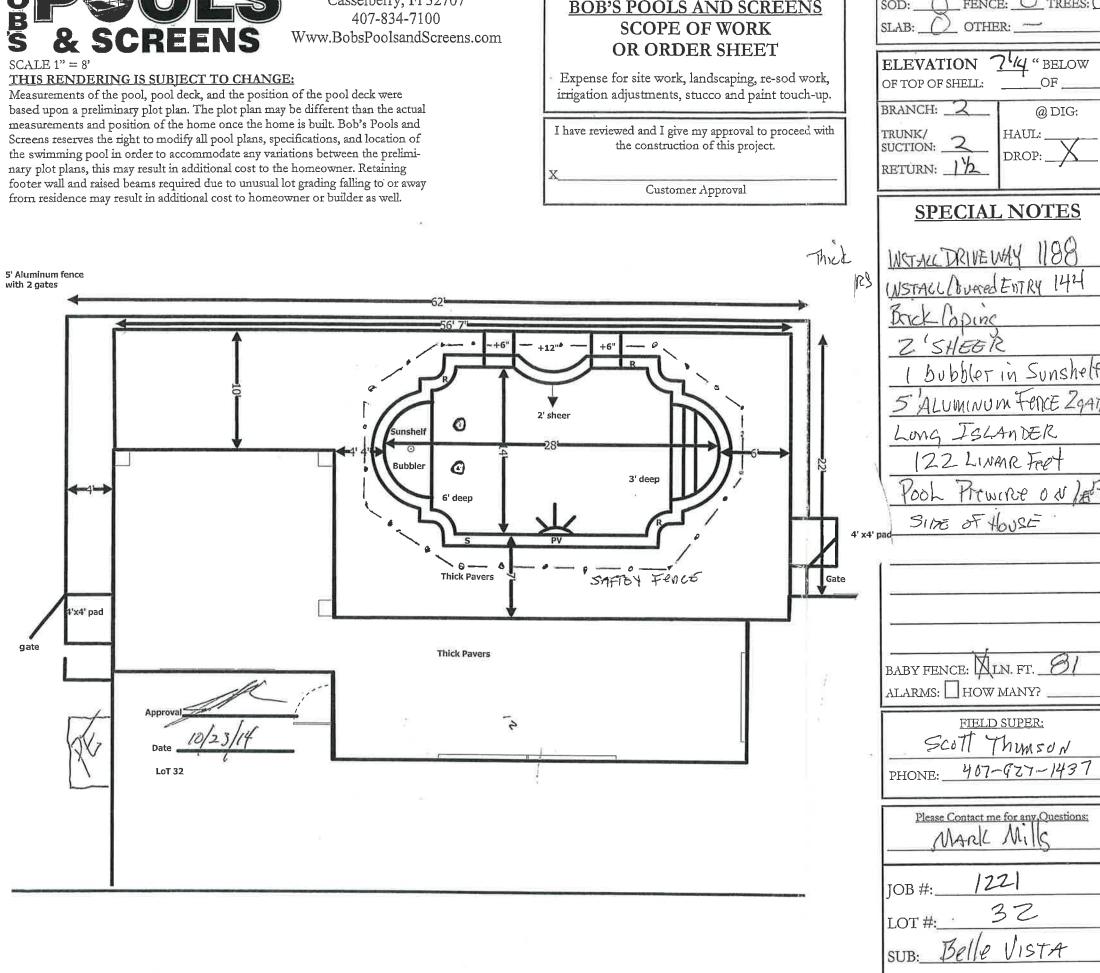
Models Specs Brochures Manuals Accessories

Select 2-4 items to Compar Compare	e				
Choose a Model Filter Models	/pe[Any] Applica	ation[Any]			
Model	Description	Ctn. Qty.	Ctn. Weight	Select	
WG1030AVBLKPAK2 Compare	8in Round S Frame & Co	uction Outlet ver-Black			
WG1030AVGRPAK2 Compare	8in Round S Frame & Co	uction Outlet ver-Gray	· ·		
WG1030AVPAK2 Compare	8in Round S Frame & Co	uction Outlet ver-White			
WG1051AVPAK2 Compare	1.5in x 1.5in Assembly-W	Suction Outlet Inite			
WG1052AVPAK2 Compare	2in x 1.5in S Assembly-W	uction Outlet Inite			
WG1053AVPAK2 Compare	1.5in x 2in S Assembly-W	uction Outlet hite			
WG1054AVPAK2 Compare	2in x 2in Sud Assembly-W		****		
WG1030AVDGRPAK2	Sin Round S	uction Outlet			

850 E. Semoran Blvd. Casselberry, Fl 32707 407-834-7100

Screens reserves the right to modify all pool plans, specifications, and location of the swimming pool in order to accommodate any variations between the preliminary plot plans, this may result in additional cost to the homeowner. Retaining

NOT INCLUDED IN **BOB'S POOLS AND SCREENS** SCOPE OF WORK



TO BE REMOVED:	GENERAL SPECIFICATIONS
SOD: FENCE: TREES: ()	POOL SIZE: 14 x 28 AREA: 312 PERIMETER: 75 FT.
SLAB: OTHER:	CAPACITY: 9335 GALLONS: POOL DEPTH: 3 to 6
ELEVATION 714" BELOW	SPA SIZE: O AREA: O PERIMETER: OFFT
OF TOP OF SHELL: OFOF	THERAPY JETS IN SPA: SPA LIGHT: YES NO
BRANCH: _2 @ DIG:	STEPS: 21 LN. FT. BENCH: 8 LN. FT. SPA BENCH: 0 LN. FT.
TRUNK/ SUCTION: 2 PROP.	PUMP: Max Flo XL 5 P 2305 X TEE SIZE: Single speed 3/HP
RETURN: 1/2 DROP:	AUX PUMP: //ONE SIZE: 1200
	HEATER: NONE CHLORINATOR: (N ZINZ
SPECIAL NOTES	TOTAL 6" OF TILE: 105 LN. FT. TILE SUPPLIER:
INSTALL DRIVEWAY 1188	TILE COLOR: GROUT COLOR: STEP TILE: DIAMOND INLAYS: \(\sum_{1/3} \) INLAYS: BULLNOSE:
(NSTACL OF WARED ENTRY 1424	AREA: 753 RE-TOP: 756sQ. FT. DECK RISER: 10' LN. FT.
2 1 0 N	DECKING: PAVERS COLOR: HARVEST BIEND
Brickloping	COLOD.
Z'SHEER	PAVER STYLE: PAVER PATTERN: ADDAM DECK-O-DRAIN: 55 LN. FT.
1 bubbler in Sunshelf	
5 ALUMINUM FERCE ZgATES	POOL FINISH: QUARTZ COLOR:
Long ISLANDER	POOL LT: White Led 12 VT 120 VT SCREEN COLOR: NONE SPALT: NOME 12 VT 120 VT STYLE: ELITE:
122 LINAR FACT	WTR FT LT: NONE 12 VT 120 VT APPROX SQ. FT.
Pool Province on let	SWITCH OR REMOTE SOFFIT: O DOORS:
SING OF HOUSE	TIME CLOCK: 1 NC 1 STORY: 2 STORY: 2
pad HOUSE	POOL CLEANER: NONE
1	EAST-WEST T
	EXPRESSWAY
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	Reviewed for Code Compliance Universal Engineering
BABY FENCE: ALN. FT. 81	Sciences S
ALARMS: HOW MANY?	HOFFNER AVE
FIELD SUPER:	1.2 MILES
Scott Thumson	WILES 2 MILES
PHONE: 407-927-1437	
Please Contact me for any Questions:	BEELINE
Mark Mills	NAME: JOHN (ARR
	ADDRESS: 4106 Belle VISTA ISLE
JOB #:	CITY: Belle ISLE FZ ZIP: 32812
LOT#: 37	PHONE: CELL: 407-947-5400
SUB: Belle VISTA	EMAIL ADDRESS: JPC CONSTRUSTION & AOL, COM
DUD. 4-0110 0.21	

Filter Size: $\frac{40}{\text{(Flow Rate)}} / \frac{0.375}{\text{(Filter Fact)}} = \frac{106}{\text{(Filter Size)}}$	(Filter Make and Model)
Pump Controls:	
Filtration pump has no auxiliary load- standard time clock	
Filtration pump with auxiliary load-Control model for low speed default within 24 hrs	N/A
Heater Model:	/

Filter Factors (GPM/SF):

Gas Heater Efficiency Rating

Heater Pump Efficiency C.O.P

ANSI 5 & ANSI 7 Compliance Work Sheet

Determine Simplified TDH: 1. Distance from pool to pump in feet:	10 210
2. Friction loss (in suction pipe) in inch pipe per 1 ft. @	gpm = (from pipe flow/friction loss chart)
3. Friction loss (in return pipe) ininch pipe per 1 ft. @	gpm =(from pipe flow/friction loss chart)
Determine Simplified TDH (CONTINUED):	TDH in Piping: 11.16
4. (Length of Suct. Pipe) X (Prot/head/4-th of Pipe) = (TSLESuct. Pipe) /	Filter / Heater loss in TDH
5. (Length of Return Pipe) X (FI of head/1 ft of Pipe) = (TDH Return Pipe)	All other losses 6,00
	Total Dynamic Head (TDH): 24.16

Determine Pipe Sizes:	
Branch Piping to be inch to keep velocity @ 6 fps max. at gpm System Flow Rate.	
Trunk, Skimmer & Suction Piping to be inch to keep velocity @ fps max. at fps	
Return Piping to be	
Pump Selection: as Listed on Curve A or C (circle one)	
Filtration Pump SP2305X7EE Maximum Flow Rate 40 gpm Single SP2ed 3/4 HP	
Main Drain Cover WGX1048E	
Determine the Number and Type of Required In-Floor Suction Outlets: Check all that apply. (Make and Model)*	
© 3'-0" © 2 F/oor suction outlets @ /25 gpm max. flow	
suction outlets @ gpm max. flow	
channel drain @ gpm w/	ports
Tatalilla dia Frat Communica Chart	

	=			Inche	s Merc	et Co ury (Va	cuum C				
		0	2	4	6	1 8	10	12	14	16	18
	0	0.0	2.3	4.5	6.8	9.0	11.3	13.6	15.8	18.1	20.3
	1	2.3	4.6	6.8	9.1	11.4	13.6	15.9	18.1	20.4	22.7
	2	4.6	6.9	9.1	11.4	13.7	15,9	18.2	20.4	22.7	25.0
	3	6.9	9,2	11.5	13.7	16.0	18.2	20.5	22.8	25.0	27.3
	4	9.2	11.5	13.8	16.0	18.3	20.5	22.8	25.1	27.3	29.6
	5	11.5	13.8	16.1	18.3	20.6	22.8	25.1	27.4	29.6	31.9
	6	13.9	16.1	18.4	20.6	22.9	25.2	27.4	29.7	31,9	34.2
	7	16.2	18,4	20.7	23.0	25.2	27.5	29.7	32,0	34,3	36.5
	8	18.5	20.7	23.0	25.3	27.5	29.8	32.0	34.3	36.6	38.8
	9	20.8	23.1	25.3	27.6	29.8	32.1	34.3	36.6	38.9	41.1
- 1	10	23.1	25.4	27.6	29.9	32.1	34.4	36.7	38.9	41.2	43.4
0.3	11	25.4	27.7	29.9	32.2	34.5	36.7	39.0	41.2	43.5	45.8
109	12	27.7	30.0	32.2	34.5	36.8	39.0	41.3	43.5	45.8	48,1
- C	13	30,0	32.3	34.6	36.8	39,1	41.3	43,6	45.9	48.1	50.4
g,	14	32.3	34.6	36.9	39.1	41.4	43.6	45.9	48.2	50.4	52,7
cauge)	15	34.6	36.9	39.2	41.4	43.7	45.9	48.2	50,5	52.7	55.0
ب د د	16	37.0	39,2	41.5	43.7	46.0	48.3	50.5	52.8	55.0	57.3
Ĭ,	17	39.3	41.5	43.8	46.1	48.3	50.6	52.8	55.1	57.4	59,8
(Fressure	18	41.6	43.8	46.1	48.4	50.6	52.9	55,1	57.4	59,7	61.9
Ξ.	19	43.9	46.2	48.4	50.7	52.9	55.2	57.4	59.7	62.0	64.2
	20	46.2	48.5	50,7	53.0	55.2	57.5	59.8	62.0	64.3	66.5
2.	21	48.5	50.8	53.0	55,3	57.6	59.8	62.1	64.3	66.6	68.9
100	22	50.8	53.1	55.3	57.6	59.9	62.1	64.4	66.6	68.9	71.2
-	23	53.1	55.4	57.7	59.9	62.2	64.4	66.7	69.0	71.2	73.5
	24	55.4	57.7	60.0	62,2	64.5	66.7	69.0	71.3	73.5	75.8
	25	57.8	60.0	62.3	64.5	66.8	69.1	71.3	73.6	75.8	78.1
- 5	26	60.1	62.3	64.6	66.8	69.1	71.4	73.6	75.9	78.1	80.4
- 100	27	62.4	64.6	66.9	69.2	71,4	73.7	75.9	78.2	80.5	82.7
-	28	64.7	66.9	69.2	71.5	73.7	76,0	78.2	80,5	82.8	85.0
- i	29	67.0	69.3	71.5	73.8	76.0	78.3	80,5	82.8	85,1	87.3
3.5	30	69.3	71.6	73.8	76.1	78.3	80.6	82.9	85.1	87.4	89.6
1.5 1/2	31	71.6	73.9	76.1	78.4	80.7	82,9	85.2	87.4	89.7	92,0
	32	73.9	76,2	78.4	80.7	83.0	85.2	87.5	89.7	92.0	94.3
100	33	76.2	78.5	80.7	83.0	85.3	87.5	89.8	92.0	94.3	96.6
- 1	34	78.5	80.8	83.1	85.3	87.6	89.8	92.1	94.4	96.6	98.9
	35	80.9	83,1	85.4	87.6	89.9	92,2	94.4	96,7	98.9	101.2

'NOTE: FIELD TDH MUST BE EQUAL TO OR HIGHER THAN THE CALCULATED TDH.

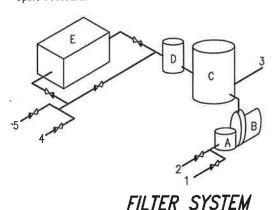
	d Friction L le 40 PVC		<u>-oot</u>						
1	10 10 1 10	Velocity - Feet Per Second							
Pipe Size	6 f	os	8 fg)\$	10 !				
1"	16 gpm	0.14'	21 gpm	0.23'	26 gpm	0.35			
1.5"	37 gpm	0.08'	50 gpm	0.14'	62 gpm	0.21			
2*	62 gpm	0,06	82 gpm	0.10	103 gpm	0.16			
2.5"	88 gpm	0,05'	117 opm	0,09'	146 gpm	0.13			
3*	136 gpm	0.04'	181 gpm	0.07'	227 gpm	0.10			
4"	234 gpm	0.03'	313 gpm	0.05	392 gpm	0.07			
6" 1	534 gpm	0.02'	712 opm	0.03					

TDH Calculation Options For each pump		
-	Check one.	
\Box	Simplified Total Dynamic Head (STDH) Complete STDH Worksheet - Fill in all blanks.	
	Total Dynamic Head (TDH) Complete Program or other calcs. Fill in required blanks on worksheet & attach calculations.	
	Maximum Flow Capacity of the new or replacement pump. Reviewed for Cod Compliance Universal Engineer	
7-0	Sciences	
(r		

Date Contractors Signature	owner Lot 32 Bell Vista
<u>CPC1457513</u> Contractors Cert. No.	
407-834-7100 Contractors Telephone No.	Scale: None

GENERAL NOTES

- For pool plan, size, deck, and special details, see Contractor's Pool Plan.
- Pool Walls shall be 5" thick and Floors shall be 6" thick and shall be pneumatically applied Concrete with a Compressive Strength of 3,000 psi in 28 days. Concrete Decks shall be 2,500 psi. Concrete construction will conform to ACI Standard 318.
- All Pool construction shall comply with Florida Building Code Building 2010 and Florida Building Code Residential 2010, ANSI/NSP National Standard-5 for Residential Inground Swimming Pools, ANSI/NSP National Standard-3 for Permanently Installed Residential Spas, ANSI/APSP-7 American National Standard for Suction Entrapment Avoidance In Swimming Pools, Wading Pools, Spas, Hot Tubs and Catch Basins ANSI/APSP/ICC-15 American National Standard for Residential Swimming Pool and Spa Energy Efficiency and the National Adapted National Electric Code 2008 (NEC).
- All Pool Piping to be Schedule 40 PVC, bearing the mark of NSF Approval unless
- All Reinforcing Steel to conform to ASTM 615, Grade 40. Reinforcing shall be #3 bars at 12" on center in each direction, w/ 15" lap joints in walls and floors up to 6'. Over 6' use #3 bars at 6" on center in each direction in the areas over
 - If Concrete is cast against Bare Earth without a Separation Barrier, the minimum cover shall be 3". With a Barrier (Steeltex) between Concrete and Earth. the minimum cover shall be 11/3".
- All Metallic Pool Fittings within 5' of the inside wall and deck reinforcing steel to be bonded to the Pool Reinforcing Steel with #8 AWG Copper Wire. The #8 Copper Wire to be run internally and externally with the NEC approved PVC Light Conduit form the Light Niche to the Junction Box. Completion of the pool grounding to the Flectrical Panel Ground to be by Electrician.
- 7. Bond all Sheathed Cables, Raceways, Metal Piping and all Fixed Metal Parts not separated by a permanent barrier, if within 5'-0" Horizontally from Water and 12'-0" Vertically of Maximum Water Level.
- Equipotential Bonding to be accomplished in accordance with Article 680 of the National Adapted Electrical Code 2008 (NEC)
- Pool or Patio shall bear only on Rock or Clean Sand, which shall be compacted to provide a Structurally Safe Bearing Capacity. Any Unsuitable Material encountered in excavation shall be removed in its entirety and the area shall be backfilled with acceptable material and properly compacted. Where unsuitable Material cannot be removed, the pool must be redesigned.
- The Contractor must protect Existing Structures from failure by acceptable methods if required. The Engineer accepts no responsibility for the safety of Existing
- 11. The Design Engineer assumes no responsibility for pool construction in Easements or Required Setback areas. Pool Contractor and/or Owner shall verify the layout and all dimesions shown prior to construction.
- Contractor shall determine the location of all Utilities in relation to the Pool and its Equipment and ensure minimum clearances in accordance with Local Regulations and Ordinances.
- Contractor shall provide adequate Temporary Fencing around the construction area to prevent unauthorized entry into the Pool Area.
- If a water supply is provided, a minimum 3" Atmospheric Break will be provided. All Structural, Filtration and Electrical details outlined in these drawings also relate
- to Spa Construction. All Pool and Spa Heaters shall be equipped with an On/Off Switch mounted for 12" O.C.E.W. easy access to allow the Heater to be Shut Off without adjusting the Thermostat settings and to allow restarting without relighting the Pilot Light.
- 17. WARNING! To empty the Pool for any reason, the Hydrostatic Uplift Pressure must be eliminated. The Owner must consult a Contractor experienced in eliminatina Uplift Pressure.



- MAIN DRAIN LINE SKIMMER LINE WASTE LINE RETURN LINE PRESSURE CLEANING LINE (OPTIONAL)
- HAIR & LINT STRAINER RECIRCULATION PUMP FILTER
- IN-LINE CHLORINATOR (OPTIONAL)
- HEATER (OPTIONAL)

STEPS POOL STEPS: RISERS: 12" MAX. -DUAL SUCTION OUTLET AND APPROVED GRATE TREAD: 10" MIN. (240 SQ. IN. MIN.) WITH 3'-0" OF SEPARATION CENTER LINE TO CENTER LINE OR APPROVED CHANNEL DRAIN SET INTO CENTER OF STEEL GRID AT THE POOL SECTION POOLS DEEPEST POINT CONCRETE DECK (OPTIONAL) W/ SLIP RESISTANT TOPPING ON COMPACTED GROUND W/ ALL ORGANIC MATERIAL REMOVED. 4" NOM. THK. W/ FIBER MESH OR 5" NOM. THK. W/ #3 REBARS. 4'-0" 1-#3 BAR CONT. IN 5" THK WALL.-(USE 2-#3 BARS CONT. IN 8"x8" BOND BEAMS) MIN. TO TO U.L. APPROVED 120 VAC/300W POOL MARBLE LIGHT W/ GFI OR 12V/400W MAX. POOL PLASTER LIGHT W/ LOW WATER CUT-OFF IN U.L. FINISH APPROVED GREY PLASTIC FORMING SHELL OR APPROVED EQUAL W/ #8 AWG BOND WIRE PER N.E.C. STEELTEX (OPTIONAL #3 BARS @ 12" O.C. EACH WAY POOL STRUCTURAL DETAILS VARIES 18" -COPING SEE SEAT PLAN **▼** WATER **▼** WATER

LENGTH

▼ WATER

-COPING

DRAIN COVER/GRATE

MUST CONFORM TO

THE LATEST EDITION

2-#3 BARS-

8"X8" BOND

CONT. IN

BEAM

OF ANSI/ASME

112,19.8

-6" WATER

LINE TILES

LIGHT

JUNCTION BOX

TO TRANSFORMER

DISTANCE LESS

THAN 1 ON 1 + 1

(BY OTHERS)

(BY OTHERS)

#3 BARS @ 6"

O.C. EACH WAY

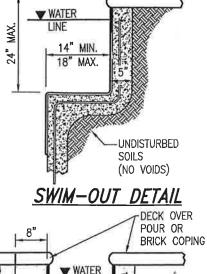
6" WALL-

THICKNESS

MARBLE

PLASTER

FINISH



LINE

6" OF

WATER

LINE

TILES

MIN. 1½" COVER

OVER ALL BARS

(SEE NOTE #5)

ALTERNATE BEAM

FINISH DETAIL

NEW OR

EXISTING

STRUCTURE

CONTRACTOR MUST PLACE ALL STEEL IN THE POOL

DIRECTIONS IN THIS CRITICAL AREA. ALSO THE POOL

☑ SHELL WALL SHALL BE CONSTRUCTED TO 6" THICKNES

EXTEND ALONG THE CRITICAL AREA AND TO A POINT

WHICH IS GREATER THAN THE MINIMUM REQUIRED AS

THE STEEL MAT AND THICKER SHELL WALL SHALL

DETERMINED BY THE 1 ON 1 + 1 METHOD.

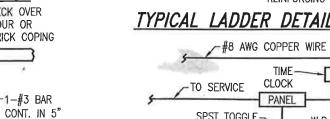
WALL AT NO MORE THAN 6" ON CENTER IN BOTH

-1-#3 BAR

BEAM

5"

THICK BOND



BUMPER

LADDERS ARE TO BE-

CROSS BRACED PER

ω,

MANUFACTURERS SPECS

▼ WATER

LEVEL

SLIP RESISTANT

TREAD SURFACE

3" MIN. TO 6" MAX-

BETWEEN TREAD

AND POOL WALL

ESCUTCHEON

DECK

WEDGE REQUIRED

ADDITIONAL CONCRETE

AS REQUIRED FOR

#8 BARE, SOLID, COPPER

CONDUCTOR TO SHELL

STURDY INSTALLATION

EXPANSION

JOINTS AS

PLATE.

ANCHOR

SPST TOGGLE SWITCH DISC. 4'-0" -JUNCTION -12V POOL BOX TRANS. DECK ALL ELECTRICAL WORK SHALL CONFORM WITH ART, 680 OF THE 3 #12 IN 1/2" LATEST ADAPTED NEC. CONDUIT 12V/400W MAX. POOL LIGHT W/ LOW WATER CUT-OFF OR 120 V.A.C. W/ GFI PER NEC.

ELECTRICAL DIAGRAM



Bob's POOL SERVICE.

INC.

850 E. SEMORAN BLVD. CASSELBERRY FL 32707 (407) 834-7100 CPC1457513

PLAN EXPIRES 1 YEAR FROM THE SIGNATURE DATE OR THE EFFECTIVE DATE OF A MAJOR FLORIDA BUILDING CODE CHANGE WHICHEVER IS SOONER

OCT 29 2014

GORDON H. SHEPARDSON, P.E. P.A FL PE # 19335 2431 Aloma Ave. Ste 124 Winter Park, FL 32792 Office: (407) 275÷1099

Fax: (407) 275-1015

RESIDENTIAL SWIMMING POOL **MASTER SPECIFICATION DRAWING FOR BELLE ISLE**

Rev 9 - 03/14/12 T Scale: None

SPA STRUCTURAL DETAILS TYPICAL WALL AND FLOOR WITHIN

(2) 8"ø ANTI-VORTEX

DRAINS SEPARATED BY 3'

-THERAPY

LINES

REBOUND

SPILLWAY PER--6x6 GLASS-BLOCK ANGLE OF REPOSE CONTRACTORS POOL MOUNTED IN 2,500 psi PLAN CEMENT (IF SPECIFIED) WATERLINE TILES WATER LINE MAY INTERIOR POOL FINISH #3 REBAR @ 12"

COPING -

#3 BARS @-

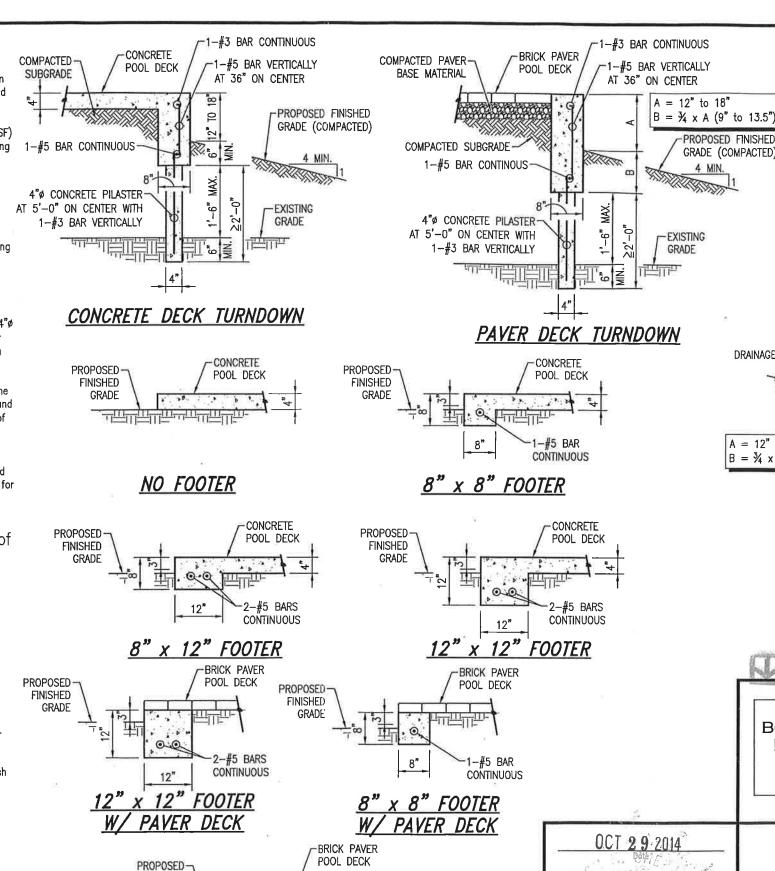
RAISED SPA DETAIL

TURNDOWN NOTES

- Detail is based on NO surcharge behind the Turndown and the Ground away from the Turndown is Level (>4 to 1). Turndown may abut Ribbon Footer and be tied into Footer if Appropriate, with #3 Rebar.
- Turndown shall bear on Rock, Clean Sand or Structurally Sound Soils (>1,500 PSF) that shall be compacted to provide Optimum Bearing Capacity and prevent Settling
- All Reinforcing Steel is to Conform to ASTM 615, Grade 40.
- Concrete shall contain Fiber Mesh and have a 28 Day Compressive Strength of
- All Construction to Conform to Florida Building Code Building 2010, Florida Building Code Residential 2010.
- Refer to Contractor's Plan on file with the Building Department for Details on Turndown Location.
- If the Base of the Turndown does not extend into the Old (Existing) Ground, a 4"ø Pilaster will be required every 5'-0" that will be either 2'-0" into the Ground or to 6" into the Indigenous Material, Whichever is Deeper. The Pilaster will have a #3 Rebar tied into the #5 Rebar in the base of the Vertical Pour.
- A Deck Turndown is NOT intended to be a substatute for a Retaining Wall. If the Vertical Dimension from the Top of the Concrete Deck to the Old (Existing) Ground reaches 42" for a 12" Turndown, 48" for a 18" Turndown, for more than 20% of the Turndown Length or the Finished Grade Slope exceeds (steeper than) 4' Horizontally and 1' Vertically, a Turndown should not be used.
- For a Paver Deck, if the Vertical Dimension from the Top of the Deck to the Old (Existing) Ground reaches 30.0" for a 12" Turndown, 36.0" for a 18" Turndown, for more than 20% of the Turndown Length or the Finished Grade Slope exceeds (steeper than) 4' Horizontally and 1' Vertically, a Turndown shall not be used.
- 10. A Screen Enclosure is not to be installed on top of any of the depicted Turndowns.

FOOTER NOTES

- If a Screen Enclosure is to be installed, the Swimming Pool Contractor must Coordinate Design and Construction of any required Footer with the Screen Contractor. Specific Details for Footer to be Provided by the screen Enclosure Engineer.
- Footer shall bear on Rock, Sand or Structurally Sound Soils (>1,500 PSF) that shall be compacted to provide Optimum Bearing Capacity and prevent Settling or
- Concrete shall have a 28 Day Compressive Strength of 2,500 PSI with Fiber Mesh or 6x6-10x10 W.W. Mesh.
- (3) #3 Rebars is Equivalent to (1) #5 Rebar.
- A Footer may be installed with a Brick Paver Pool Deck if required by the Jurisdiction or at the Option of the Contractor and may be placed over the Top of the Footer or Abutting the Side of the Footer.



2-#5 BARS

8" x 12" FOOTER

W/ PAVER DECK

FINISHED

GRADE

OCT 2 9 2014 GORDON H. SHEPARDSON P.E. P.A FL PE # 19333 2431 Aloma Ave. Ste 124 Winter Park, FL 32792

RESIDENTIAL **SWIMMING POOL** MASTER SPECIFICATION **DRAWING FOR BELLE ISLE**

BRICK PAVER

ALTERNATE PAVER ON TURNDOWN

8"

ALTERNATE PAVER LOCATION

850 E. SEMORAN BLVD.

(407) 834-7100

CPC1457513

CASSELBERRY FL 32707

PAVER SECURED TO TOP

OF TURNDOWN BY PAVER

INDUSTRY STANDARDS

-1-#3 BAR CONTINUOUS

-1-#5 BAR VERTICALLY

-1-#5 BAR CONTINUOUS

BRICK PAVER

COMPACTED PAVER

BASE MATERIAL

-COMPACTED SUBGRADE

POOL DECK

AT 36" ON CENTER

POOL DECK

SEE PAVER DECK

TURNDOWN DETAIL

FOR INFORMATION

NOT SHOWN

PROPOSED FINISHED

GRADE (COMPACTED)

DRAINAGE SWALE-

A = 12" to 18"

 $B = \frac{3}{4} \times A (9" \text{ to } 13.5")$

Reviewed for Code

Compliance

Sciences

SERVICE.

INC.

BoB's

Poor.

4 MIN.

Rev 9 - 03/14/12 T

Office: (407) 275-1099 Fax: (407) 275-1015

Scale: None

