



City of Belle Isle

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

PERMIT CARD – PLEASE POST AT JOB SITE

THIS DOCUMENT BECOMES YOUR PERMIT WHEN PROPERLY VALIDATED

Per 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 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 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." The issuance of this permit does not grant permission to violate any applicable City, Orange County, State of Florida and/or Federal codes and/or ordinances. Separate permits are required for Signs, Roofing, Electrical, Gas, Plumbing and Mechanical 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 commencement. **WORK SHALL BE CONSIDERED SUSPENDED IF AN APPROVED INSPECTION HAS NOT BEEN MADE WITHIN A 6 MONTH PERIOD.** PERMISSION IS GRANTED TO DO THE FOLLOWING WORK ACCORDING TO THE CONDITIONS HEREON AND THE APPROVED PLANS AND SPECIFICATIONS, SUBJECT TO COMPLIANCE WITH THE ORDINANCES OF THE CITY OF BELLE ISLE, FLORIDA.

Scope of Work: BUILDING: Pool 14.6' x 27.3' + spa Comments: None Project Information Address: 4017 Isle Vista Ave, Belle Isle, FL 32809 Parcel ID: 20-23-30-0668-01-010 Property Owner: Sharpe, Daniel Phone Number: None ***** Company Name: Premier Pools of Central FL Contractor Name: Theune, Daniel License Number: CPC056822 Address: 4572 N. Palmetto Ave, Winter Park FL 32789 Phone Number: 407 883 2152	Permit Number: 2015-03-025 Date of Application: 03/10/2015 Date Permit Issued: 04/10/2015 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 INSPECTIONS HAVE BEEN APPROVED.
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BUILDING FEATURES

IMPACT FEES School \$ Traffic \$ ZONING FEES Zoning Fee \$165.00 UNIVERSAL ENG - BUILDING FEES Cert of Occ \$ Demo \$ Building \$ Fence \$ Driveway \$ Shed \$ Window(s) \$ Door(s) \$ PrePower \$ Electrical \$ Temp Pole \$ Plumbing \$ Mechanical \$ Gas \$ Roofing \$ Boat Dock \$ Screen Encl \$ Swimming Pool \$285.82 Sign \$ SURCHARGE FEES Surcharge Fee \$4.16 Surcharge Fee \$4.16 TOTAL FEES \$450.82 Date Paid <u>4-15-15</u> CC or Check # <u>2712</u> Amount Paid <u>450.82</u> The person accepting this permit shall conform to the terms of the application on file and construction shall conform to the requirements of the Florida Building Code (FS 553).	BUILDING INSPECTOR USE ONLY IF APPLICABLE: Have Zoning Approval Conditions Been Met? YES NO Have Stormwater Approval Conditions Been Met? YES NO Silt fencing in place? YES NO Turbidity Barrier in place? YES NO BUILDING 1 st _____ (Footing/Foundation) Survey specific foundation plan must be onsite before slab pour. Approved Plan on Site? ____ 2 nd _____ (Slab) 3 rd _____ (Lintel)(Wall Reinforcing on Masonry Building) 4 th _____ (Exterior Framing)(Roof/Wall Sheathing) 5 th _____ (Framing) (To be made after Plumbing/ Mechanical/ Electrical Rough-Ins & Windows/Doors Installed) 6 th _____ (Insulation to be Made After Roof Installed) 7 th _____ (Drywall) 8 th _____ (Sidewalk/Driveway) 9 th _____ (Other) 10 th _____ (Final – After MEP and Other Applicable Finals) ROOFING 1 ST ROOFING Deck Nailing/Dry-in/Flashing _____ 2 nd ROOFING Covering In-Progress _____ 3 rd ROOFING Covering Final _____ PLUMBING (Pool-Piping, Solar, Irrigation, Water Treatment Equip, Etc...) 1 ST _____ (Underground) 2 nd _____ (Sewer) 3 rd _____ (Rough-In/Tub Set) 4 th _____ (Final) CHECK APPROPRIATE BOX GAS <input type="checkbox"/> Natural <input type="checkbox"/> LP <input type="checkbox"/> MECHANICAL <input type="checkbox"/> ELECTRICAL <input type="checkbox"/> LOW VOLTAGE 1 st _____ (Rough-In) 2 nd _____ (Final)
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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.

For a copy of your permit, or to check inspection results, please visit <https://universalengineering.sharefile.com/f/fo94edc4-832d-44bd-9809-ecf32f9e2e63>
login ID = cobi@universalengineering.com password = universal13



City of Belle Isle

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

Building Permit (Land Use) Application

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

Please call Michelle when ready 407-883-2152

RECEIVED
3-10-15

PERMIT # 2015-03-025

Owner's Name Daniel and Nancy Sharp

Owner's Address 4017 Isle Vista Ave

Contractor Name <u>Daniel Theune</u>	Company Name <u>Premier Pools of Central FL</u>
License # <u>CPC050822</u>	Company Address <u>4572 N. Palmetto Ave</u>
Contact Phone/Cell <u>407-883-2152</u>	City, State, ZIP <u>Winter Park FL 32789</u>
Contact Email <u>m.permitsplus@live.com</u>	Contact Fax

WARNING TO OWNER: Your failure to record a Notice of Commencement may result in your paying twice for improvements to your property. A notice of commencement must be recorded if job is \$2500(+) or if A/C Replacement \$7500(+) and posted on the job site before the first inspection. If you intend to obtain financing, consult with your lender or an attorney before recording your Notice of Commencement.

I hereby make Application for Permit as outlined above, and if same is granted I agree to conform to all Division of Building Safety Regulations (www.floridabuilding.org) and City Ordinances (www.municode.com) regulating same and in accordance with plans submitted. The issuance of this permit does not grant permission to violate any applicable City and/or State of Florida codes and/or ordinances. Application is hereby made to obtain a permit to do the work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work will be performed to meet the standards of all laws regulating construction in this jurisdiction. I understand that a separate permit must be secured for all other construction including ROOFING, ELECTRICAL, MECHANICAL, PLUMBING, GAS, SIGNS, POOLS, SCREEN ENCLOSURES, ETC.

OWNER'S AFFIDAVIT: I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and zoning.

Owner Signature Daniel Sharp

The foregoing instrument was acknowledged before me this 2/18/15
by Daniel Sharp who is personally known to me
and who produced Driver's License
as identification and who did not take an oath.

Notary as to Owner Tracie Theune
State of Florida
County of Orange

NOTARY PUBLIC
TRACIE THEUNE
MY COMMISSION # EE 831221
EXPIRES: December 30, 2016
Bonded thru Budget Notary Services

Contractor Signature _____

COMPANY NAME Premier Pools CFL

The foregoing instrument was acknowledged before me this 2/18/15
by Daniel J. Theune who is personally known to me
and who produced _____
as identification and who did not take an oath.

Notary as to Owner Michele C Corrigan
State of Florida
County of Orange

NOTARY PUBLIC
MICHELE C CORRIGAN
MY COMMISSION # EE855266
EXPIRES September 19, 2015
FloridaNotaryService.com

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

- Total Lot Area (sqft) X 0.35 = Allowable Impervious Area (BASE).
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.
 - House _____
 - Driveway _____
 - Walkway _____
 - Accessory Buildings _____
 - Pool & Spa _____
 - Deck & Patio _____
 - Other _____
- Actual Impervious Area (AIA) _____
- If AIA is less than BASE, subtract AIA from BASE to determine the amount of impervious area that may be added without providing onsite retention.
- 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

Permit Number: _____
Folio/Parcel Identification Number: 20-23-30-0668-01-010
Prepared by: N. Carrion
4572 N Palmetto Ave
Winter Park, FL 32792
Return to: _____



NOTICE OF COMMENCEMENT

State of Florida, County of Orange

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

- Description of property** (legal description of the property, and street address if available)
Belle Vista on Lake Conway 69/12 Lot 101 4017 Isle Vista Ave.
- General description of improvement**
Swimming Pool
- Owner information or Lessee information if the Lessee contracted for the improvement**
Name Daniel and Nancy Sharp
Address 4017 Isle Vista Ave
Interest in Property OWNERS
Name and address of fee simple titleholder (if different from Owner listed above)
Name _____
Address N/A
- Contractor**
Name Premier Pools of Central Florida Telephone Number 407-696-4744
Address 4572 N. Palmetto Ave Winter Park, FL 32792
- Surety** (if applicable, a copy of the payment bond is attached)
Name _____ Telephone Number _____
Address N/A Amount of Bond \$ _____
- Lender**
Name _____ Telephone Number _____
Address N/A
- Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by §713.13(1)(a)7, Florida Statutes.**
Name _____ Telephone Number _____
Address N/A
- In addition to himself or herself, Owner designates the following to receive a copy of the Lienor's Notice as provided in §713.13(1)(b), Florida Statutes.**
Name _____ Telephone Number _____
Address N/A
- Expiration date of notice of commencement** (the expiration date may not be before the completion of construction and final payment to the contractor, but will be 1 year from the date of recording unless a different date is specified) _____



By: M. Haynie Deputy Comptroller
Date: 3/10/15
I hereby certify that this is a true copy of the document as recorded in the Official Records.
MARTHA O. HAYNIE, COUNTY COMPTROLLER
STATE OF FLORIDA, COUNTY OF ORANGE

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

Under penalty of perjury, I declare that I have read the foregoing notice of commencement and that the facts stated in it are true to the best of my knowledge and belief.

Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager: Daniel Sharp 2/20/15
Signatory's Title/Office: _____

The foregoing instrument was acknowledged before me this 20 day of Feb 15 by Daniel Sharp
month/year name of person

as Owner for _____
Type of authority, e.g., officer, trustee, attorney in fact Name of party on behalf of whom instrument was executed
Tracie Theune
Signature of Notary Public - State of Florida Print, type, or stamp commissioned name of Notary Public

Personally Known _____ OR Produced ID OLS
Type of ID Produced _____



TRACIE THEUNE
MY COMMISSION # EE 831221
EXPIRES: December 30, 2016
Bonded Thru _____ September 26, 2011



**CITY OF BELLE ISLE,
FLORIDA**

Planning & Zoning

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


March 18, 2015

Rejection of Zoning Application 2015-03-025 for Parcel 20-23-30-0668-01-010

FINDINGS: The above referenced application was reviewed for conformance with the City of Belle Isle ordinances. Items subject to review are Impervious Surface Ratio (ISR), Setbacks, and related general zoning standards.

- ~~Need site plan.~~ Site plan to show all setbacks. ✓
- ~~Need ISR calculations.~~ ✓

Please make the required revisions and resubmit site plan for reconsideration.


Keith Severns
City Manager

**ZONING
APPROVED**


City of Belle Isle
3/18/15

*Revisions
Attached*



COBI Permit Fee Calculation Form



Reviewer Signature: [Signature] Date: 4-10-15

Permit Type:	<u>Pool</u>	AREA Job Cost:	<u>396.28 sq'</u> <u>\$40,500</u>
Permit Fee:	\$1585.12 <u>185.00</u>		<u>185.00</u> <u>92.50</u>
Plans Review Fee:	\$792.56 <u>92.50</u>	(50% of permit fee - excluding ReRoofs)	<u>277.50</u>
1.5% State Fee:	\$35.67 <u>4.16</u>		<u>285.82</u>
1.5% State Fee:	\$35.67 <u>4.16</u>		<u>165.00</u>
TOTAL BUILDING FEE:	\$2449.02 <u>285.82</u>	(does not include Zoning fees or Deposits)	<u>450.82</u>

Note: Total gets doubled for SWD/AFT permits

~~Pool = 400 sq' 396.28 x 4.00 = 1585.12 PERMIT~~

~~1585.12 / 2 = 792.56 REVIEW~~

~~(1585.12 + 792.56) x 0.015 = 35.67~~

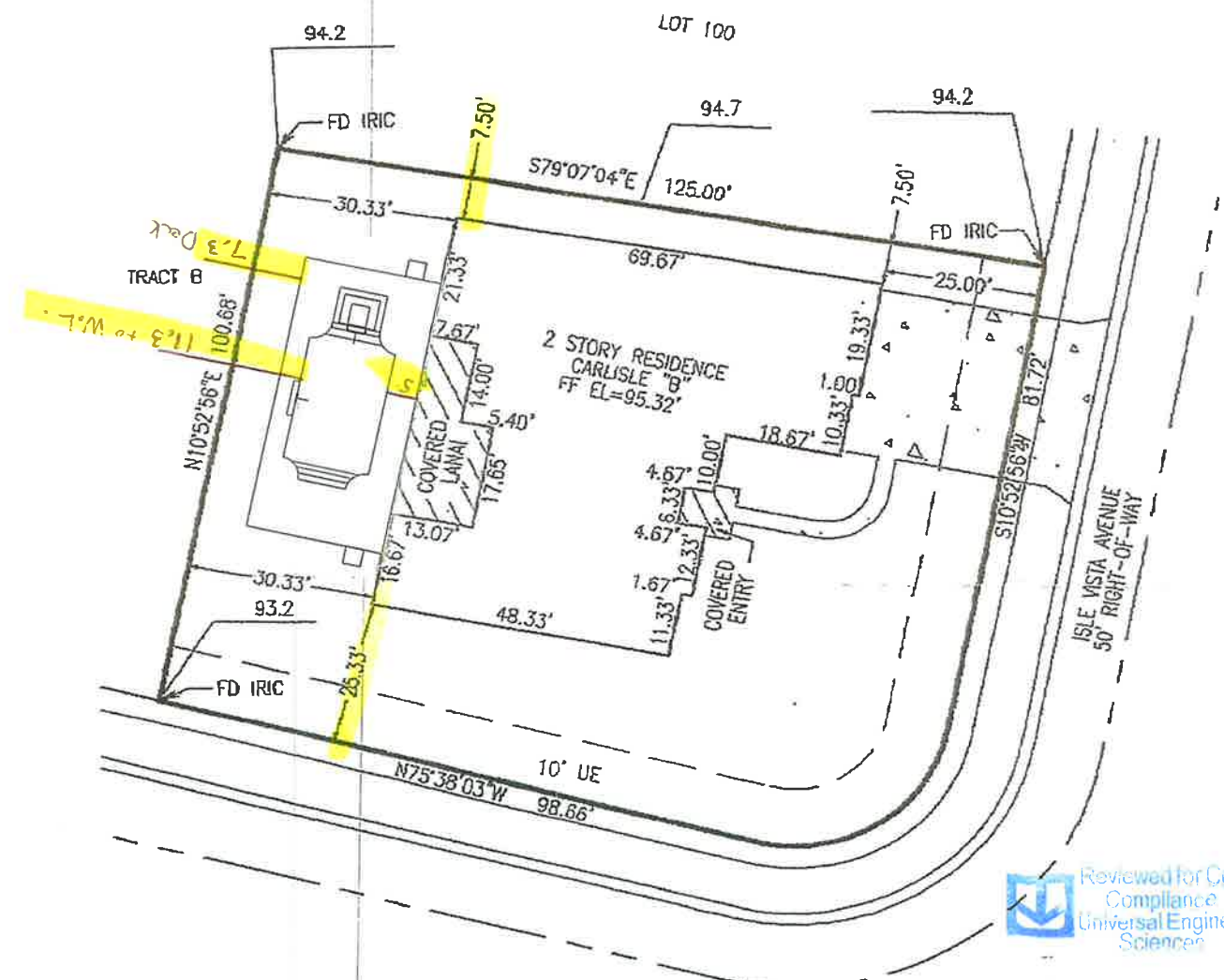
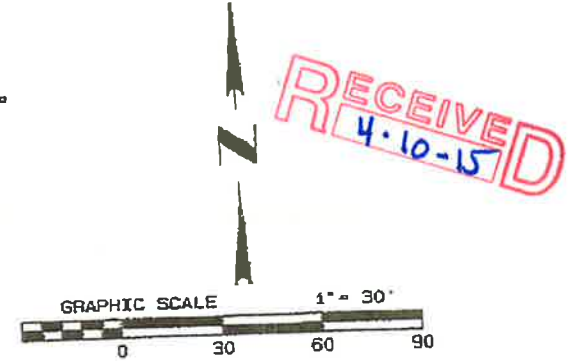
~~1585.12 + 792.56 + 35.67 + 35.67 = 2449.02~~

4077 Isle Vista Ave



* LOT GRADING PLAN "A/B"

REVISED
ON 4/8/15



Reviewed for Code Compliance
Universal Engineering Sciences

NOTES:
- THIS SKETCH IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL SEAL OF A LICENSED SURVEYOR AND MAPPER.
- LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR EASEMENTS, RIGHTS-OF-WAY, OR ADJOINERS.
- THIS SURVEY DOES NOT IDENTIFY THE LIMITS OR EXTENT OF POTENTIAL JURISDICTIONAL WETLAND BOUNDARIES.
- SETBACKS:
FRONT 25'
REAR 30'
SIDE 7.5'

CERTIFIED TO:
WESTCOR LAND TITLE INSURANCE COMPANY
SURREY HOMES, LLC
SWANN & HADLEY, P.A.
MEGAN M. ANDERSON AND BRIAN ANDERSON
FIDELITY BANK D/B/A FIDELITY BANK MORTGAGE,
ITS SUCCESSORS AND/OR ASSIGNS AS THEIR INTEREST MAY APPEAR

CERTIFICATE:
I HEREBY CERTIFY THAT THE ATTACHED FINAL SURVEY OF THE HEREON DESCRIBED PROPERTY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF AS SURVEYED IN THE FIELD UNDER MY DIRECTION IN MAY, 2010. I FURTHER CERTIFY THAT THIS SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH IN CHAPTER 61G17 OF FLORIDA ADMINISTRATIVE CODE, AS ADOPTED BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS, PURSUANT FLORIDA STATUTES 472.027.

FOR THE FIRM BY *Edward J. Mizo* 6/2/10
EDWARD J. MIZO, JR. P.L.S.
PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA REGISTRATION NO. 3376

FCM - FOUND CONCRETE MONUMENT	C.M. - CONCRETE MONUMENT	Δ - DELTA OR CENTRAL ANGLE	FEN - FENCE	A - ARC LENGTH
F.I.R.C. - FOUND IRON ROD AND CAP	P.T. - POINT OF TANGENCY	P.I. - POINT OF INTERSECTION	CLR - CLEAR	S/W - SIDEWALK
F.I.R. - FOUND IRON ROD	P.C. - POINT OF CURVATURE	A/C - AIR CONDITIONING UNIT	FND - FOUND	PR - PROPOSED
FF - FINISHED FLOOR ELEVATION	U.E. - UTILITY EASEMENT	P.T. - POINT OF TANGENT	PLAT - PLAT	EX - EXISTING
S.F.R.C. - SET IRON ROD AND CAP	D.E. - DRAINAGE EASEMENT	SFR - SINGLE FAMILY RESIDENCE	EL - ELEVATION	FL - FLOW LINE
F.N&D - FOUND NAIL AND DISK	C & G - CURB & GUTTER	N.T.S. - NOT TO SCALE	CONC. - CONCRETE	UE - UTILITY EASEMENT
(M) - FIELD MEASUREMENT	R/W - RIGHT OF WAY	PR - PROPOSED	EASE. - EASEMENT	DE - DRAINAGE EASEMENT
(C) - CALCULATED MEASUREMENT	CENTERLINE	EX - EXISTING	COR - CORNER	BLDG - BUILDING



**POOL AND SPA/HOT TUB HEATERS
H150FD, H200FD, H250FD, H300FD,
H350FD & H400FD MODELS**

OWNER'S MANUAL

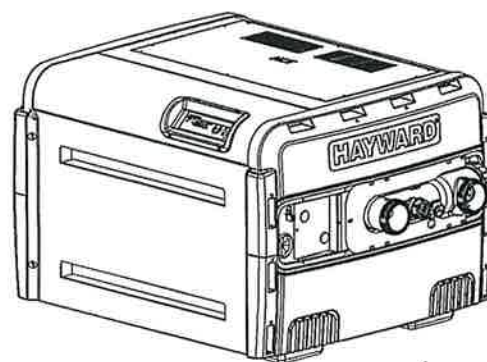
FOR YOUR SAFETY

⚠ WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, injury, or death.

- Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS:


- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.





FOR YOUR SAFETY


This product must be installed and serviced by authorized personnel, qualified in pool/spa heater installation. Improper installation and/or operation can create carbon monoxide gas and flue gases that can cause serious injury, property damage, or death.

Basic safety precautions should always be followed, including the following: Failure to follow instructions can cause severe injury and/or death.

 This is the safety-alert symbol. When you see this symbol on your equipment or in this manual, look for one of the following signal words and be alert to the potential for personal injury.


 **WARNING** warns about hazards that could cause serious personal injury, death or major property damage and if ignored presents a potential hazard.


 **CAUTION** warns about hazards that will or can cause minor or moderate personal injury and/or property damage and if ignored presents a potential hazard. It can also make consumers aware of actions that are unpredictable and unsafe.

 **ATTENTION** indicates special instructions that are important but not related to hazards.

**READ AND FOLLOW ALL INSTRUCTIONS IN THIS OWNER'S
MANUAL AND ON EQUIPMENT.
IMPORTANT SAFETY INSTRUCTIONS**


**Before installing or servicing this electrical equipment, turn power supply OFF.
KEEP SAFETY LABELS IN GOOD CONDITION AND REPLACE IF MISSING OR DAMAGED.**


 **WARNING** – To reduce risk of injury, do not permit children to use or climb on the heater, pumps or filters. Closely supervise children at all times. Components such as the filtration system, pumps, and heaters must be positioned to prevent children from using them as a means of access to the pool.


 **CAUTION** – This heater is intended for use on permanently installed swimming pools and may also be used with spas. Do NOT use with storable pools. A permanently installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. A storable pool is constructed so that it is capable of being readily disassembled for storage and reassembled to its original integrity.

Though this product is designed for outdoor use, it is strongly recommended to protect the electrical components from the weather. Select a well drained area, one that will not flood when it rains. It requires free circulation of air for cooling. Do not install in a damp or non-ventilated location.



 **WARNING** – It is required that licensed electricians do all electrical wiring. Risk of Electric Shock. Hazardous voltage can shock, burn, cause death or serious property damage. To reduce the risk of electric shock, do NOT use an extension cord to connect unit to electric supply. Provide a properly located outlet. All electrical wiring MUST be in conformance with applicable local and national codes and regulations. Before working on this unit, turn off power supply to the heater.

 **WARNING** – To reduce the risk of electric shock replace damaged wiring immediately. Locate conduit to prevent abuse from lawn mowers, hedge trimmers and other equipment.

 **WARNING** – Failure to bond to pool structure will increase risk for electrocution and could result in injury or death. To reduce the risk of electric shock, the electrician must comply with installation instructions and must bond the heater accordingly. In addition, the licensed electrician must also conform to local electrical codes for bonding requirements.

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

- ⚠ WARNING** – Failure to remove pressure test plugs and/or plugs used in winterization of the pool/spa from the suction outlets can result in an increase potential for suction entrapment as described above.
- ⚠ WARNING** – Failure to keep suction outlet components clear of debris, such as leaves, dirt, hair, paper and other material can result in an increase potential for suction entrapment as described above.
- ⚠ WARNING** – Suction outlet components have a finite life, the cover/grate should be inspected frequently and replaced at least every ten years or if found to be damaged, broken, cracked, missing, or not securely attached.
- ⚠ WARNING** – All suction and discharge valves MUST be OPEN when starting the circulation system. Failure to do so could result in severe personal injury and/or property damage. All drains and suction outlets MUST have properly installed covers, securely attached using the screws supplied with the covers. If screws are lost, order replacement parts from your supplier.



- ⚠ WARNING – Hazardous Pressure.** Pool and spa water circulation systems operate under hazardous pressure during start up, normal operation, and after pump shut off. Stand clear of circulation system equipment during start up. Failure to follow safety and operation instructions could result in violent separation of the pump housing and cover due to pressure in the system, which could cause property damage, severe personal injury, or death. Before servicing pool and spa water circulation system, all system and pump controls must be in off position and filter manual air relief valve must be in open position. Before starting system pump, all system valves must be set in a position to allow system water to return back to the pool. Do not change filter control valve position while system pump is running. Before starting system pump, fully open filter manual air relief valve. Do not close filter manual air relief valve until a steady stream of water (not air or air and water) is discharged.



- ⚠ WARNING – Separation Hazard.** Failure to follow safety and operation instructions could result in violent separation of pump components. Strainer cover must be properly secured to pump housing with strainer cover lock ring. Before servicing pool and spa circulation system, manual air relief valve must be in open position. Do not operate pool and spa circulation system if a system component is not assembled properly, damaged, or missing. Do not operate pool and spa circulation system unless filter air relief valve body is in locked position in filter upper body.

- ⚠ WARNING** – Never operate or test the circulation system at more than 40 PSI.
- ⚠ WARNING** – Fire and burn hazard. Motors operate at high temperatures and if they are not properly isolated from any flammable structures or foreign debris they can cause fires, which may cause severe personal injury or death. It is also necessary to allow the motor to cool for at least 20 minutes prior to maintenance to minimize the risk of burns.
- ⚠ WARNING** – Failure to install according to defined instructions may result in severe personal injury or death.

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

INTRODUCTION:

This manual contains instructions for operation and the safe use of the swimming pool/spa/hot tub heaters. Hayward strongly recommends that the owner read the manual before using the swimming pool/spa/hot tub heater. If after reviewing the manual any questions remain unanswered, contact the factory or local representative.

LIMITED WARRANTY SUMMARY:

We warrant the pool/spa/hot tub heater to be free from defects in materials and workmanship, and we will within one year from date of installation for all users, for the original purchaser, repair or, at our option, replace without charge any defective part. We further warrant that if the heat exchanger or exchanger headers (water-containing section) leak within one year from date of such installation for all users, due to defects in materials and workmanship, we will provide a replacement part. Cost of freight, installation, fuel, and service labor (after one year) is at user's expense. For full details of warranty agreement, see warranty certificate included in this manual.

⚠ ATTENTION: If the pool/spa/hot tub heater is damaged or destroyed by improper maintenance, excessive water hardness, incorrect water chemistry, or freezing it is not covered under the manufacturer's warranty.

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

4. CHLORINATOR INSTALLATION

Chlorinators must be installed downstream of the heater, and a check valve must be installed between the heater and chlorinator to prevent high chemical concentrations from back flowing into the heater. Make sure your piping arrangement meets the chlorinator installation requirements shown in the installation manual on page 26.

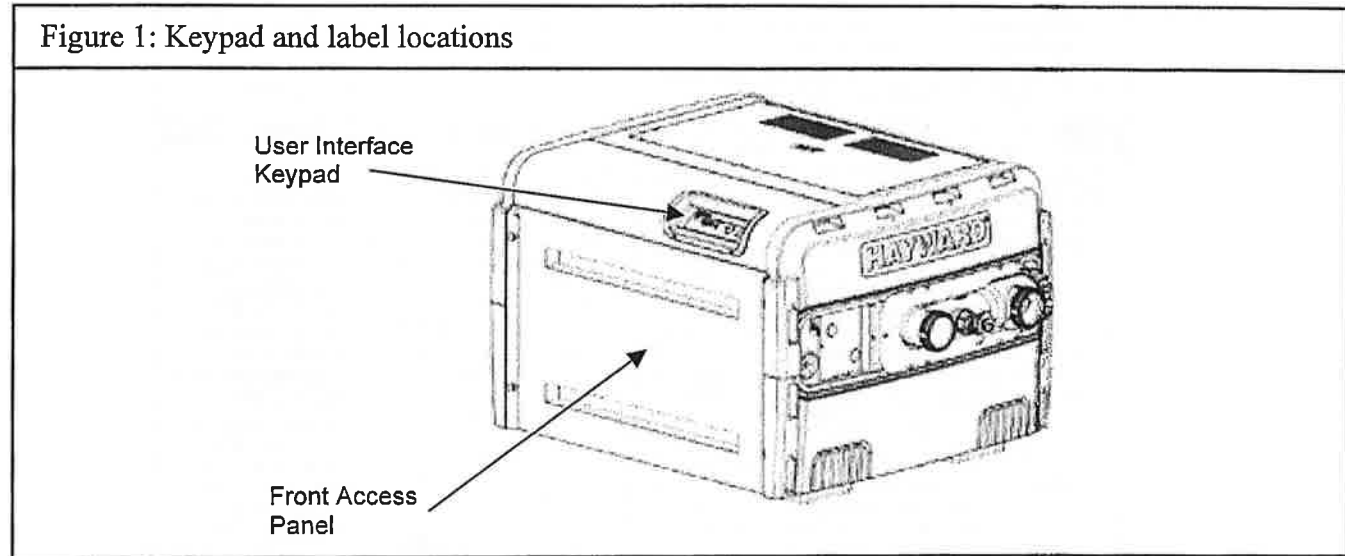
5. BYPASS

Until water chemistry is properly balanced, and if your piping has a bypass valve installed for the heater, open the bypass so that corrosive and potentially damaging water will not flow through the heater and therefore the heat exchanger. Close the bypass valve once the water is properly balanced. Failure to close the bypass valve when attempting to operate the heater will result in extensive damage to the heat exchanger. Ensure water flow through the heater is restored before operating the heater. A bypass feature is also advantageous for service needs and for the ability to remove the heater from the water path when not heating. Refer to page 25 in the installation manual for further information.

HEATER OPERATION:

Full lighting and shutdown instructions are included on the lighting & operating instructions label affixed to the inside of the front access panel. See Figure 1 for the location of this label and keypad. See Figure 2 for the label.

Figure 1: Keypad and label locations



WARNING: If you smell gas in the appliance area or near the heater (PROPANE IS HEAVIER THAN AIR AND HENCE SETTLES ON THE FLOOR), stop and follow the instructions on the front cover of this manual. Since propane can accumulate in confined areas, extra care should be taken when lighting propane heaters.

ATTENTION: Do not use the heater below 40°F (4°C) temperature without adequate temperature protection.

WARNING: Do not ingest alcohol or drugs during use or prior to using pool, spa, or hot tub. Ingestion of such intoxicants can cause drowsiness, which can lead to unconsciousness, and subsequently result in drowning.

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

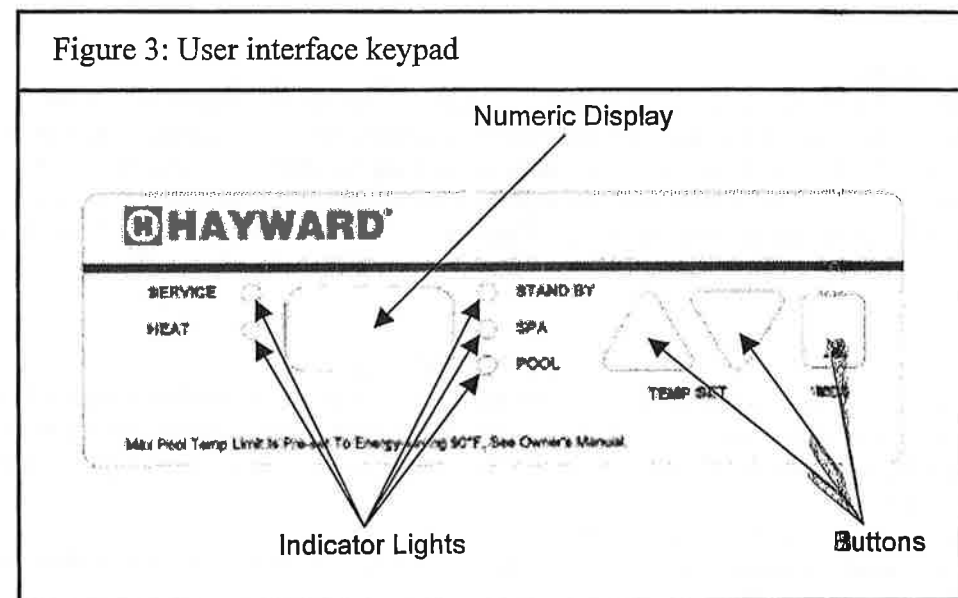
TEMPERATURE ADJUSTMENT

This pool heater is equipped with a digital thermostat which allows the user to select the desired water temperature. The heater will then function automatically to maintain the desired temperature. The heater has 3 modes of operation:

1. **STANDBY:** in this mode, the heater will not function to heat the water.
2. **SPA:** in this mode, the heater will automatically function to maintain the water temperature setting for SPA mode.
3. **POOL:** in this mode, the heater will automatically function to maintain the water temperature setting for POOL mode.

Use the MODE button to change modes. The indicator lights will illuminate to show which mode the heater is currently in. Each mode has its own temperature setting, allowing the user to have 2 individual pre-set temperature settings. To adjust the temperature while in SPA or POOL mode, use the UP and DOWN buttons. The numeric display will flash to indicate the temperature setting is being displayed / adjusted. When the numeric display is not flashing, the actual water temperature is being displayed. The temperature settings for both SPA and POOL modes are initially set at the factory to 65°F. The minimum allowed settings for SPA and POOL modes are both 65°F. The maximum allowed settings for SPA and POOL modes are adjustable up to 104°F using the temperature lockout feature (see next section).

After selecting SPA or POOL mode or adjusting the temperature setting, it is normal for the heater to delay up to 10 seconds before the heater starts operating. This delay is an internal self-test of the heater. On occasion, the numeric display may show a diagnostic error code; refer to list of diagnostic error codes in Figure 4. Pressing the MODE button to cycle to STANDBY and back to SPA or POOL will clear a diagnostic error code. When clearing a diagnostic error code this way, it is normal for the heater to delay up to 5 seconds before resuming normal operation, assuming the diagnostic error code does not re-appear.



USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

ERROR CODES:

Figure 4 lists the error codes that may be displayed on the heater display board.
Contact a qualified service company for assistance.

Figure 4: **ERROR CODES**

Code	Description	Information
bD	Internal fault/power-up error	On initial trial for ignition. Automatic reset is immediate once the gas valve relay check results are acceptable.
bD	Gas valve sensed as "ON" error	If valve is open when it should be closed the heater will shut down and go into lockout. Blower will operate until error condition is corrected. Automatic restart 2 minutes after error is corrected.
bD	Gas valve sensed as "OFF" error	If valve is closed but flame is sensed the blower will run for 5 s then start a new ignition sequence. If error occurs 10 times during a call for heat the control will go into lockout. Automatic reset is 60 minutes.
bD	Data retrieval error	If control input data is corrupted the heater will shut down and go into lockout.
HF	Flame present with gas valve "OFF" error	If flame is sensed with the gas valve off the control will go into lockout. The blower will run until error condition is corrected. When corrected, control will run blower for 5 s then automatically restart after 2 minutes.
PF	Electrical supply wiring error	This code will display if 120V polarity is reversed, low voltage is detected, or if the ground path is not sufficient. Reset is immediate after error is corrected.
AO	Blower vacuum switch open error	If the blower prover switch does not close after the blower starts the control will stop the ignition trial go into lockout. The blower will continue to run. Automatic reset is immediate after the switch closes.
AO	Blower vacuum switch open when expected closed error	If the blower prover switch opens unexpectedly during operation the control will shut down and attempt to re-light. If the switch does not close after the blower starts the control will go into lockout with the blower running. Automatic reset is immediate after error is corrected.
AO	Blower vacuum switch open during post-purge error	If the blower prover switch opens during the postpurge cycle (heater is not firing) the control will display the error code. The post-purge cycle will be completed once the blower prover switch closes.
AC	Blower vacuum switch closed when expected open error	If the blower prover switch is closed before blower start-up the control will not start the blower. Automatic reset is immediate when the switch opens.

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

HAYWARD POOL HEATER CERTIFICATE OF LIMITED WARRANTY

15

Limited heater warranty:

TERMS AND COVERAGE: We warrant our pool heater to be free from defects in workmanship and materials under normal use and service. Pursuant to this warranty and subject to the Conditions and

Exceptions indicated below:

1. We will replace (cost of freight, installation, cost of fuel, and service labor at user's expense) with the prevailing comparable model, or, at our option, repair any pool/spa heater that leaks under normal use and service within one year from the date of original installation for all users.
2. In addition, we will replace (cost of freight, installation, cost of fuel, and service labor at user's expense) or, at our option, repair any part or parts of the pool/spa heater which malfunctions under normal use and service within one year from the date of original installation for all users.

LIMITATION ON IMPLIED WARRANTIES: WE ARE NOT LIABLE FOR ANY CONSEQUENTIAL DAMAGES FOR BREACH OF ANY WRITTEN OR IMPLIED WARRANTY OF THIS PRODUCT. Implied warranties, including the WARRANTY of MERCHANTABILITY and all other implied warranties that may arise from course of dealing or usage of trade imposed on the sale of this heater under laws of the state are limited in duration to the term of one (1) year for all users. There are no warranties which extend beyond the description on the face hereof. We shall not in any event be held liable for any special, indirect, or consequential damages.

EXPENSE OF DELIVERY AND INSTALLATION:

Each pool heater or replacement part to be furnished under this warranty shall be furnished at our nearest distribution center. We shall not pay, nor be responsible for shipping or delivery charges to the place of installation, nor for labor charges or other costs of removal or installation. Every defective heater or part replaced under this warranty shall become our property, and as such, must be returned to our distribution center with transportation charges paid by the user. Any replacement pool heater furnished under this warranty shall remain in warranty only for the unexpired portion of this warranty.

CONDITIONS AND EXCEPTIONS:

This warranty applies only to the pool/spa at its original place of installation and only for the original owner. It does not apply if the pool heater is installed in violation of any applicable code or ordinance, or is not installed, operated and maintained in accordance with our instructions, or is misused, damaged by accident, weather, act of God, freezing, water void and/or excess pressure, altered or disconnected. It does not apply with respect to:

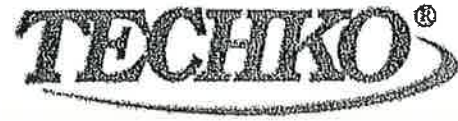
1. A heater not equipped with Certified C.S.A. limit controls or equivalent pressure relief valve.
2. A heater operated with settings in excess of, and/or with fuel not conforming to those shown on rating plate;
3. A heater on which the serial numbers have been altered, defaced, or removed.
4. Leaks arising from defective installation;
5. Production of noise, odors, or discolored (rusty, etc.) water;
6. Leakage substantially contributed to by sediment, lime precipitate and/or higher than normal dissolved solids (pH above 7.8) in the tank, copper tubes, or water ways;
7. Leakage caused substantially contributed to by corrosive elements in the atmosphere (such as the storage of chlorine or other chemicals);
8. Leakage caused substantially or contributed to by corrosive pool water in an acid condition (pH below 7.2);
9. Damage caused substantially or contributed to by an external source of energy;
10. A pool/spa heater is a water containing device. Leakage of water from this device can be expected at some time due to malfunction or the limitations of the service life of various components.

(CONTINUED ON PAGE 16)

USE ONLY HAYWARD GENUINE REPLACEMENT PARTS

 **HAYWARD** Pool Products
A Hayward Industries, Inc. Company

Pomona, CA Greensboro, NC Nashville, TN
Tel: 908-351-5400 www.haywardpool.com

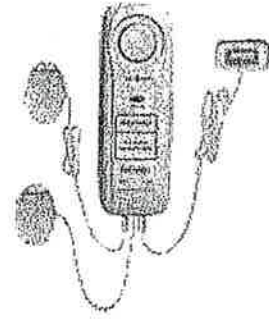


Quality, Service, Integrity, Commitment to Excellence

Print

Close Window

Model: S187D - SAFE POOL



CONTAINER:
20 FT: 9,600 pcs.
40 FT: 19,680 pcs.
40 HQ: 22,896 pcs.

- ▶ Magnetic sensor entry alarm
- ▶ "Always on" alarm protection
- ▶ Adult pass-through auto reset button
- ▶ High output 110-115 dB alarm
- ▶ Water/weather resistant housing
- ▶ Magnetic sensor for additional door/screen door
- ▶ Low battery LED display
- ▶ Additional pass-through button for delayed entry from either side door or fence
- ▶ Additional magnetic sensor for screen door exit/entry
- ▶ Intended for interior or exterior use
- ▶ 9V battery operation (not included)
- ▶ UPC Barcode: 014575 18701 1

▶ Pool Guard Alarm USA Patent No. 5,473,310 and No. 6,727,819

www.TechkoUSA.com | Office Products (888) 883-2456 | Security Products (949) 783-1900



YARDGUARD™

GATE ALARM SYSTEMS

Gate/Door/Window Alarm System

#YG03

What Makes YardGuard™ Gate Alarms Better?

- YardGuard™ Complies with U.S. State and Local Barrier Alarm Codes
- Easy to Install and Operate - for All Wooden and Metal Gates and Sliding Glass Doors

- Convenient Single Button Pass/Reset Operation
- 7-Second Delay Allows for Adult Pass-Through
- 120 dB Alarm Siren - Minimum 95 dB at 10 Feet
- Auto Low Battery Chirp
- All Hardware Included for Gate, Door or Window Mount
- Listed by ETL to UL 1017
- Water-Resistant

- Always On Device as Required by Barrier Codes
- Can be Manually Reset or will Automatically Reset in 3 Minutes to Continue Siren
- Alarm Goes Off Immediately When Triggered as Required by Barrier Codes
- Operates on One - 9 Volt Battery (not incl.)
- Bilingual Installation/Operation Manual (English/French)
- Bilingual 4-Color Box (English/French)

Programmable Gate/Door/Window Alarm System #YG18

- Same as YG03 Plus:
- Program Your Own Entry/Exit Code
- 7 or 15 Second Delay Allows for Adult Pass-Through

MASTER CARTON WEIGHT: 6 lbs (6/Master)
 UNIT BOX SIZE: 9.5" x 7" x 3"
 UNITS/PALLET: 630
 MINIMUM ORDER: 1 Case (6 Units)



MASTER CARTON WEIGHT: 6 lbs (6/Master)
 UNIT BOX SIZE: 9.5" x 7" x 3"
 UNITS/PALLET: 1104
 MINIMUM ORDER: 1 Case (6 Units)



Adult Pass Button Included



Contact Set Included



PROJECT NUMBER 0115.1560 327.0000

TASK NUMBER _____

CITY OF BELLE ISLE
Permit Application Review Sheet

Permit Number	2015-03-025
Property Owner	Sharp, Daniel
Address	4017 Isle Vista Avenue
Nature of Improvement	POOL
Received Application	3-10-15
Sent for Stormwater Review	3-11-15 w/ 48178
Stormwater Approved	approved 4-10-15
Sent for Zoning Review	3-11-15 w/ 48178
Zoning Approved	approved 4-10-15
Applied for Variance	73
Variance Approved	36-00
Sent to BO for Review	4-10-15 1-9-15
Building Official Approved	
Comments	
1.	Susan 3-11-15 GLV WCV
2.	need GC Lic & LTR & NOC
3.	Susan 3-20-15 emailed Kerth's rejection comments
4.	Susan 3-24-15 new info added per Kerth's request
5.	W/O to send back to CeBI = 48709
6.	
7.	3/22/15 REAR & side yard setbacks are 10'-0"
8.	Plans show Rear setback @ 6'-0"
9.	variance would be required
10.	3-30-15 Emailed Premier Pools zoning comments
11.	4-7-15 Susan emailed Margia of Premier Pools info submitted
12.	identical to info sent on 3-24- advised a variance is needed & to contact CeBI.

4-10-15 - REVIEW W/O #'S 49428, 49429, 49430



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

RECEIVED
3-10-15

PERMIT # 2015-03-025

DATE: _____

PROJECT ADDRESS 4017 Isle Vista Ave, Belle Isle, FL 32809 32812

PROPERTY OWNER Daniel Sharpe PHONE _____ VALUE OF WORK (labor & material) \$ 40,500

PLEASE LIST THE NATURE OF YOUR PROPOSED IMPROVEMENTS

14'6" x 27'4" pool + spa w/ 610 sq deck

Please provide information, if applicable.

396.28 sq'

- Survey specific foundation plan required to show compliance with zoning setbacks
- **BOAT DOCK:** DEP Clearance Required with Application (Call 407-897-4100); please provide a copy of their report
- **SEPTIC SYSTEM (RESIDENTIAL):** - Provide verification of OC Health Dept approval for on-site septic tank system, per FAC Chap. 64E-6
- Homeowners will be required to have a contractor on record for homes that are rented and/or not homestead

Please Complete for the City of Belle Isle Zoning Review: Parcel Id Number: 20-23-30-0668-01-010

To obtain this information, please visit <http://www.ocpaf1.org/Searches/ParcelSearch.aspx>

SPECIAL CONDITIONS: STRUCTURES MAY NOT ENCROACH INTO ANY EASEMENT OR REQUIRED SETBACK. Note, this Zoning Approval MAY or 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 and Construction Plans 2 SETS

PLANNING & ZONING APPROVAL: _____
DATE _____

PLEASE COMPLETE for Building Review

CONSTRUCTION TYPE _____

OCCUPANCY GROUP Comm Res: Single Fam Multi Fam

#BLDG. _____ #UNITS _____ #STORIES _____ TOTAL SQ.FT. _____

MAX. FLOOR LOAD _____ MAX. OCCUPANCY _____

MIN. FLOOD ELEV. _____ LOW FLOOR ELEV. _____

WATER SERVICE _____ WELL _____ SEPTIC _____

BUILDING REVIEWER [Signature] DATE 4.10.15

VERIFIED CONTRACTOR'S LICENSE & INSURANCE ARE ON FILE _____ DATE _____

Per FSS 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 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 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."

Republic Services is by legal contract the sole authorized provider of garbage, recycling, yard waste, 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 407-293-8000 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.

SEPARATE PERMITS ARE REQUIRED FOR ROOFING, ELECTRICAL, PLUMBING, GAS, MECHANICAL, SIGNS, POOLS, ENCLOSURES, ETC.

Wind Exposure Category: B C D

SPRINKLERS REQ'D	Y <input type="checkbox"/>	N <input type="checkbox"/>	
If Required - SUBMIT COPY OF PLANS FOR FIRE			
REVIEW	Date: Sent _____	RCD _____	
ZONING	Y	N	\$ _____
CERT OF OCC	Y	N	\$ _____
TRAFFIC	Y	N	\$ _____
SCHOOL	Y	N	\$ _____
FIRE	Y	N	\$ _____
SWIMMING POOL	Y	N	\$ _____
SCREEN ENCLOSURE	Y	N	\$ _____
ROOFING	Y	N	\$ _____
BOAT DOCK	Y	N	\$ _____
BUILDING	Y	N	\$ _____
WINDOW(S)	Y	N	\$ _____
DOOR(S)	Y	N	\$ _____
FENCE	Y	N	\$ _____
SHED	Y	N	\$ _____
DRIVEWAY	Y	N	\$ _____
OTHER	Y	N	\$ _____

3% FL SURCHARGE _____

TOTAL _____

By Owner Form	Y	NA
Notice of Commencement	Y	NA
Power of Attorney	Y	NA
Contractor Packet Included?	Y	N

OTHER PERMITS REQUIRED:

ELECTRICAL	Y	NA
PREPOWER	Y	NA
MECHANICAL	Y	NA
PLUMBING	Y	NA
ROOFING	Y	NA
GAS	Y	NA

IMPERVIOUS AREA CALCULATION WORKSHEET - Daniel and Nancy Sharp 4017 Isle Vista Ave, Belle Isle 32812

IMPERVIOUS AREA IN SQUARE FEET:			
		RECEIVED 3-24-15	TOTAL
TOTAL HOUSE FOOT PRINT	3,763		3,763
TOTAL DRIVEWAYS AND SIDEWALKS	987		987
TOTAL PATIO/DECK/SLAB AREA	625		625
TOTAL POOL SURFACE "WATER" AREA (if applicable)	380	Pool 350 Spa 30	380
TOTAL OUT BUILDINGS	0		0
TOTAL IMPERVIOUS AREA IN SQUARE FEET	5,755	A	5,755
Total Lot Square Feet	12,897	B	12,897
TOTAL % IMPERVIOUS COVERAGE	(a÷b)X100		44.62%

Impervious surface ratio (ISR) means a surface which has been compacted or covered with a layer of material so that it is highly resistant to infiltration by water. It includes most conventionally surfaced streets, roofs, sidewalks, parking lots, patios, wet pond surface areas at normal or control elevation, 50 percent of water surface of swimming pools, and other similar nonporous surfaces, but does not include dry bottom stormwater facilities or wood decks over soil (with spaces between planks). Determinations regarding permeability of material or surface shall be at the sole discretion of the city engineer or designee. "Impervious surface ratio" is the impervious surface of a parcel or lot divided by the total parcel or lot area, expressed as a percent. ISR requirement controls the intensity of development by restricting the amount of land covered by any type of impervious surface. The ISRs listed in this Code for various zoning districts shall be the maximum allowed. The ISR requirement for a particular parcel or lot area shall be supported by the necessary drainage calculations and shall be determined at the discretion of the city engineer.


Home Search Feedback

Like {7.2k}

Searches Sales Search Results Property Record Card My Favorites Sign up for e-Notify...

4017 Isle Vista Ave < 20-23-30-0668-01-010 >

Name(s) Sharp Daniel L Sharp Nancy L Mailing Address On File 4017 Isle Vista Ave Belle Isle, FL 32812-2219 Incorrect Mailing Address?	Physical Street Address 4017 Isle Vista Ave Postal City and Zipcode Orlando, FL 32812 Property Use 0103 - Single Fam Class III Municipality Belle Isle
---	---



Values, Exemptions and Taxes Property Features Sales Analysis Location Info Market Stats Update Information View Plat

Property Description
BELLE VISTA ON LAKE CONWAY 69/12 LOT 101


Total Land Area 12,897 sqft (+/-) | 0.30 acres (+/-) GIS Calculated Notice

Land

Land Use Code	Zoning	Land Units	Unit Price	Land Value	Class Unit Price	Class Value
0100 - Single Family	R-1-AA	1 LOT(S)	\$95,000.00	\$95,000	\$0.00	\$95,000

Page 1 of 1 (1 total records)

Buildings

Important Information		Structure			
	Model Code: 01 - Single Fam Residence Type Code: 0103 - Single Fam Class III Building Value: \$314,775 Estimated New Cost: \$323,843	Actual Year Built: 2010 Beds: 5 Baths: 4.0 Floors: 2	Gross Area: 4750 sqft Living Area: 3763 sqft Exterior Wall: Concrete Block Stucco Interior Wall: Drywall		

Page 1 of 1 (1 total records)

Extra Features

Description	Date Built	Units	XFOB Value
There are no extra features associated with this parcel			

This Data Printed on 02/27/2015 and System Data Last Refreshed on 02/26/2015

Site Notice • About Us • Contact Us • OCPAFL Home • Property Search • Exemption FRAUD Hotline
Orange County Property Appraiser • 200 S. Orange Avenue, Suite 1700 • Orlando, FL 32801
Office Hours: 8:00 a.m. to 5:00 p.m. Monday - Friday • Phone: 407.836.5044
Copyright © 2010 Orange County Property Appraiser. All rights reserved.

\$40,500.00

W



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

RESIDENTIAL SWIMMING POOL
SAFETY AFFIRMATION

Date: 3-5-15

Permit #: _____

I, Daniel Thorne, License # CP0056827
(print contractor's name)

hereby affirm that the pool will be isolated from access from within the dwelling AND from adjacent properties by a barrier that meets the pool barrier requirements of Florida Statute 515.29 and the 2010 Florida Building Code, Residential Section R4101.17.

Check the applicable barrier requirements from the following options and show on the site plan:

_____ The pool will be equipped with an approved safety pool cover that complies with ASTM F1346 (Standard Performance Specifications for Safety Covers for Swimming Pools, Spas and Hot Tubs) per FBC R4101.17, Exception.

_____ The pool will be isolated from access by a mesh safety barrier that meets the requirements of FBC R4101.17.1.15.

The pool will be isolated from access by a screen enclosure that meets the requirements of FBC R4101.1.1 through R4101.1.8.

_____ The pool will be isolated from access by a fence and pedestrian gates that meet the requirements of FBC R4101.1.1 through R4101.1.8.

Does any part of the barrier consist of dwelling walls which contain doors or windows?

Yes No If yes, then check which of the two options below are applicable:

All doors and windows providing direct access from the dwelling to the pool will be equipped with an exit alarm that meets the requirements of FBC R4101.17.1.9(1) unless Exceptions a, b or c apply.

_____ All doors providing direct access from the dwelling to the pool will be equipped with self-closing, self-latching devices installed 54" above the threshold that meet the requirements of FBC R4101.17.1.9, exception 2.

I understand that the above indicated shall be installed before the time of pool safety inspection per FBC R4101.19.

[Signature]
(contractor's signature)

[Signature]
(property owner's signature)

STATE OF FLORIDA
 DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
 CONSTRUCTION INDUSTRY LICENSING BOARD



LICENSE NUMBER
 CPC056822

The RESIDENTIAL POOL/SPA CONTRACTOR
 Named below IS CERTIFIED
 Under the provisions of Chapter 489 FS.
 Expiration date: AUG 31, 2016

THEUNE, DANIEL JOHN
 PREMIER POOLS OF CENTRAL FLORIDA INC
 4572 N PALMETTO AVE
 WINTER PARK FL 32792



ISSUED: 07/16/2014

DISPLAY AS REQUIRED BY LAW

SEQ # L1407160001678

Scott Randolph, Tax Collector Local Business Tax Receipt Orange County, Florida

This local business tax receipt is in addition to and not in lieu of any other tax required by law or municipal ordinance. Businesses are subject to regulation of zoning, health and other local authorities. This receipt is valid from October 1 through September 30 of receipt year. **Delinquent penalty is added October 1.**

	2014	EXPIRES	9/30/2015	1805-0962499
1805	RESIDENTIAL POOL/SPA	\$30.00	1	EMPLOYEE ; 5000 BUSINESS OFFICE
				\$40.00 11 EMPLOYEE ;

TOTAL TAX \$70.00
 PREVIOUSLY PAID \$70.00
 TOTAL DUE \$0.00



4572 PALMETTO AV
 U - WINTER PARK, 32792

THEUNE DANIEL J QUALIFIER

PREMIER POOLS OF CENTRAL
 FLORIDA INC
 4572 PALMETTO AVE
 WINTER PARK FL 32792-5912

PAID: \$70.00 0099-00625057 7/11/2014

This receipt is official when validated by the Tax Collector.



CERTIFICATE OF LIABILITY INSURANCE

PREMI-3 OP ID: CB

DATE (MM/DD/YYYY)
10/22/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).


PRODUCER Insurance By Ken Brown, Inc. PO Box 948117 Maitland, FL 32794-8117 K. Derek Brown	CONTACT NAME: K. Derek Brown PHONE (A/C, No, Ext): 321-397-3870 FAX (A/C, No): 321-397-3888 E-MAIL ADDRESS:													
	<table border="1"> <thead> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A : Amerisure Mutual Ins. Co</td> <td>23396</td> </tr> <tr> <td>INSURER B : Amerisure Ins Company</td> <td>19488</td> </tr> <tr> <td>INSURER C :</td> <td></td> </tr> <tr> <td>INSURER D :</td> <td></td> </tr> <tr> <td>INSURER E :</td> <td></td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </tbody> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A : Amerisure Mutual Ins. Co	23396	INSURER B : Amerisure Ins Company	19488	INSURER C :		INSURER D :		INSURER E :		INSURER F :
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INSURER C :														
INSURER D :														
INSURER E :														
INSURER F :														
INSURED Premier Pools Of Central Florida Inc 4572 Palmetto Ave Winter Park, FL 32792														

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

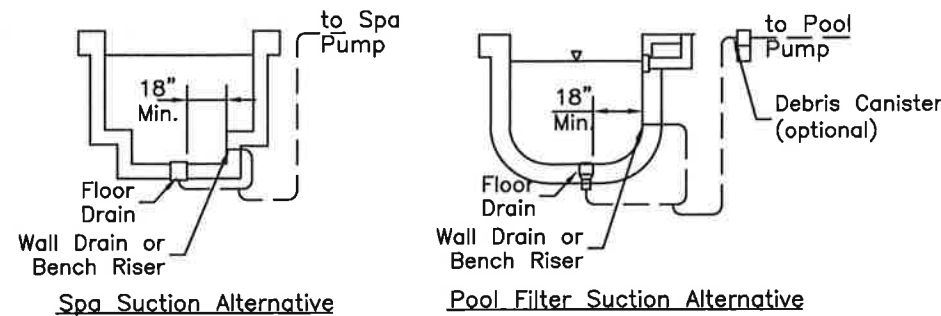
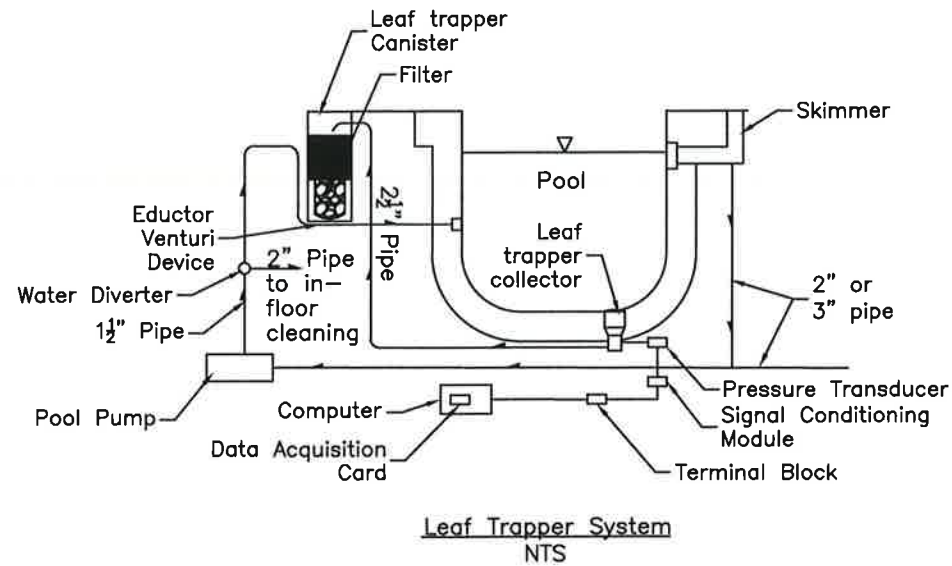
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
B	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:			CPP20813960301	01/24/2015	01/24/2016	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			CA20274341001	01/24/2015	01/24/2016	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 0			CU20689440502	01/24/2015	01/24/2016	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000
B	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY <input type="checkbox"/> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	WC131719916	01/24/2015	01/24/2016	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 500,000 E.L. DISEASE - EA EMPLOYEE \$ 500,000 E.L. DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER BELLEIS City of Belle Isle 1600 Nela Ave Belle Isle, FL 32859	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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MDX or other (must be approved for floor or wall by manufacturer)

ASME A112.19.8-2007/A112.19.&J-2008 min. dual drains. size grate and suction drain branches per Table A – Flow Rate for Covers

Suction drain branches 3 feet per second max. Locate tee to pump midway between drains.

Suction Layout Alternatives

- The MDX debris removal system to be installed in accordance with manufacturer's recommendations
- All piping to be Schedule 40 PVC bearing NSF approval unless otherwise noted.
- Flow velocity through suction grates shall not exceed 1.5 feet per second.
- The lower flow rate of floor or wall per manufacturer shall be used for both drains in these alternate configurations.
- For total dynamic head calculations contractor shall supply the proposed pumps with pump curves, filter specifications, piping sizes and routings to the engineer for assessment of alternate configurations.

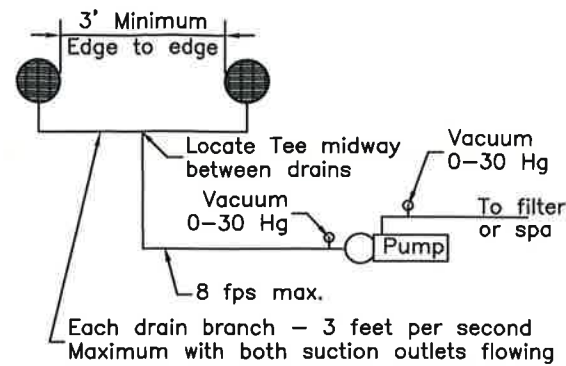
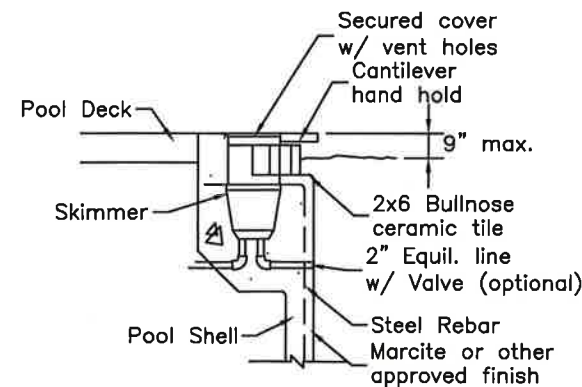


Table A – Flow Rating for Covers/Grates

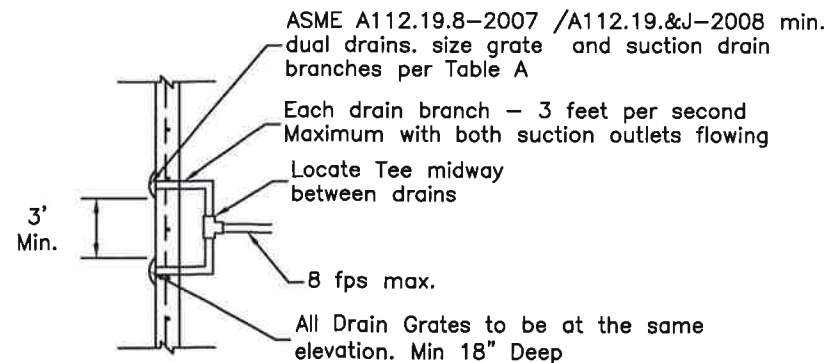
Number of grates per pump system	Minimum flow rating of each covers/grates % Maximum system flow rates
1	100%
2	100%
3	66.7%
4	50%
5	40%
6	33%

ANSI / ASAP-7 2006 DUAL DRAIN CONFIGURATION



Place top rebar at skimmer location. Tie #3 bar shall go behind skimmer position. After shell is finished, excavate behind shell, place skimmer and pour concrete behind skimmer

Skimmer Detail
NTS



Suction Grates for Floor or Wall
NTS

Notes:

- Flow velocity through each suction grate shall not exceed 1.5 feet per second with one grate blocked. (NSP1-5 2003 9.2.1 & APSP-7 2006 100% flow).
- Grates must be manufacturer approved for use in wall or floor respectively.
- For total dynamic head calculations contractor shall supply the proposed pumps with pump curves, filter specifications, piping sizes and routings to the engineer for assessment of alternate configurations.
- Not to exceed velocity of 10 feet per second for pressure piping and 8 feet per second for suction piping unless noted otherwise.
- Each pump function (e.g. filter, spa, water feature) requires min. Dual (two) ASME 2007/2008 drain grates.
- If required flow rate or pump capacity requires more than two drain grates per pump system / drainage system requires more than one pump consult the engineer of record.
- In lieu of a two drain system, the installer may utilize an ANSI approved channel drain system (min. 36" long, 600 gpm rated)

Skimmer Notes:

- The products described herein have been tested by independent testing laboratories and have been reviewed and accepted for listing by the product research committee of CSI Caretaker Systems, Inc.
- The leaf trapper system does not use suction fixtures in the swimming pool to supply water to the pump. It uses skimmers to supply water to the pump
- The leaf trapper system shall provide vacuum relief of less than 4.5 inch Hg within 3 seconds.
- The leaf trapper system will provide vacuum relief during an entrapment event.



#	Date	Description

Revisions

3/5/11

Darcy Unroe PE 60929

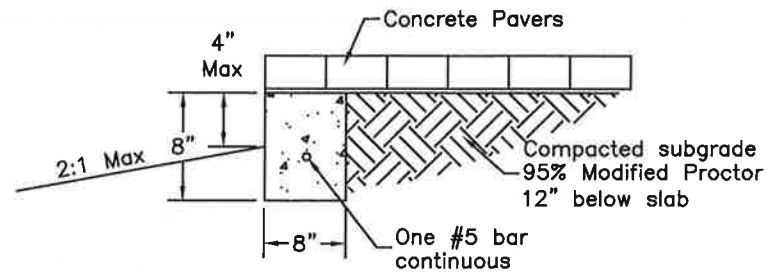
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Drawing No. **E**

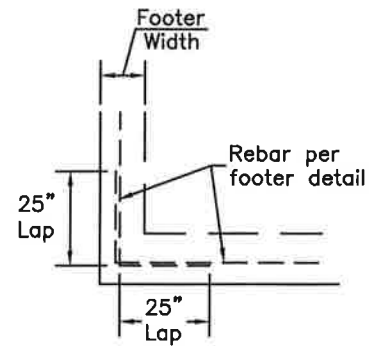
Drain & Skimmer Details
 Swimming Pool & Spa Engineering
 Premier Pools of Central Florida, Inc
 4272 Palmetto Ave, Winter Park, Florida 32792

Unroe Engineering, Inc
 Engineering/Planning/Scientific Evaluations
 PO Box 690942, Orlando, FL 32869 ◀ PH 407-299-0560 ◀ FX 407-429-7639

Footing Type A

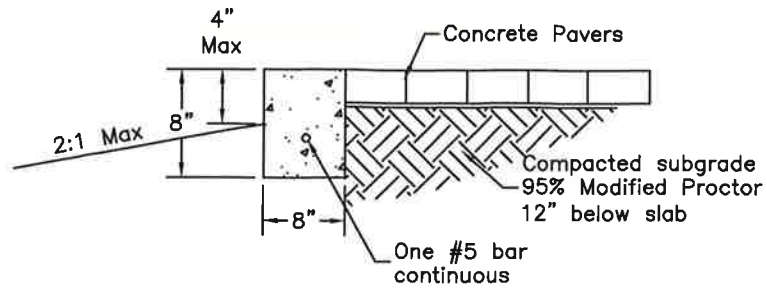


Ribbon Footing - Standard
NTS

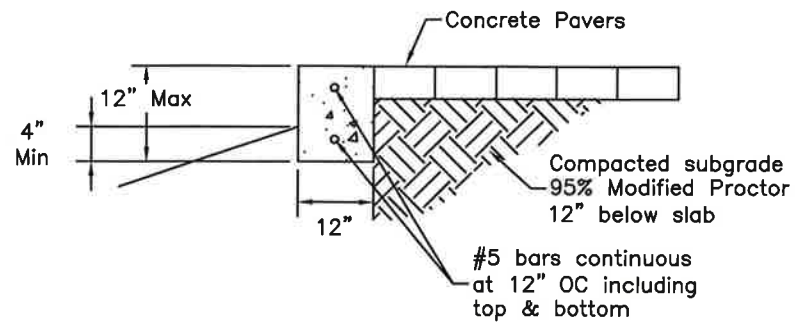


Corner Rebar Detail

Footing Type B

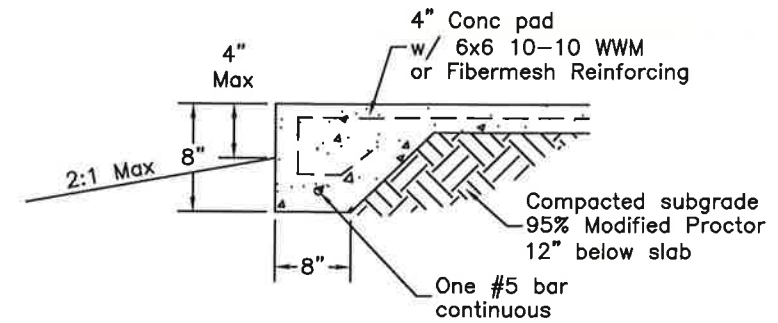


Perimeter Footing - Standard
NTS

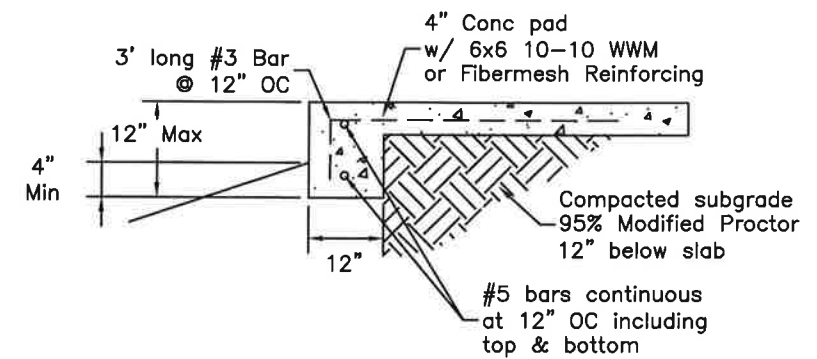


Perimeter Footing - Deep
NTS

Footing Type C



Turndown Footing - Standard
NTS



Perimeter Footing - Deep
NTS



Concrete Footer Details

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#	Date	Description

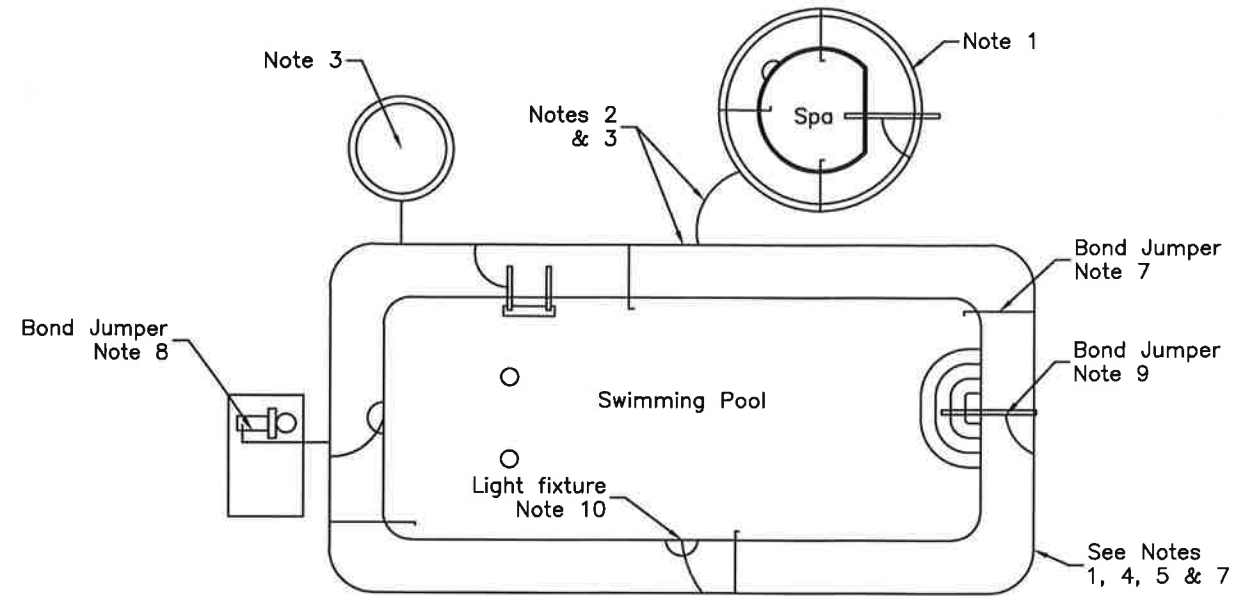
3/5/15
 Darcy Unroe PE 60929

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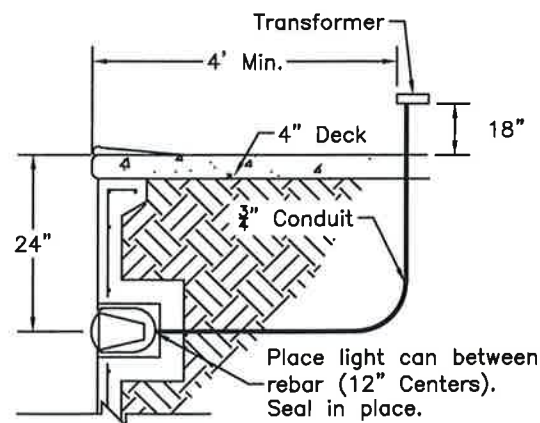
Drawing No. **D**

Bonding Notes:

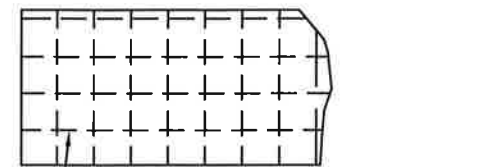
1. Equipotential bonding of perimeter surfaces requires a copper conductor; minimum #8 AWG; bare solid copper conductor which follows the contour of the perimeter surface of the pool. The perimeter bonding shall be attached to the pool reinforcing shell at a minimum of 4 points uniformly spaced around the perimeter of the pool.
2. All underground or under slab connections shall per NEC 250.8. Bonding cables under slab shall be placed at the bottom of excavation.
3. When rebar is utilized for the construction of planters and footers adjacent to the pool (within 5 ft), this rebar shall be bonded using #8 AWG; bare solid copper conductor to the bonding conductor.
4. Location of copper bonding conductor, bonding jumpers, and connections shown are diagrammatic only. contractor shall field route to determine exact location. bonding conductor shall conform to the shape of the pool while maintaining smooth radial curves.
5. Resistance of ground system shall not exceed 25 ohms
6. All ground rods shall be 5/8" copper clad steel, 8' long; and driven to a depth of 24" below finished grade.
7. Copper bonding conductor shall be bonded to the pool and spa rebar as shown, 4 locations, minimum at each separate body of water, using a #8 AWG; bare solid copper conductor
8. Copper bonding conductor shall be bonded to the equipment ground of the pool pump motor and other electrical components as required by NEC 680.26 (verify locations) using #8 AWG bare solid copper wire.
9. Copper bonding conductor shall be bonded to all metallic components of the pool and spa and the metal structures, including; but not limited to, all handrails, diving boards, and ladders in the pool and spa and include all metal wiring and all fixed metal parts that are within 5 ft. horizontally of the inside wall of the pool (spa and 12 ft vertically above the maximum water level of the pool using #8 AWG bare copper wire.
10. All pool and spa lighting niches shall be bonded to pool and spa rebar per NEC 680. The copper bonding conductor shall be bonded to the rebar at both the pool and the spa.



Typical Pool Bonding Plan

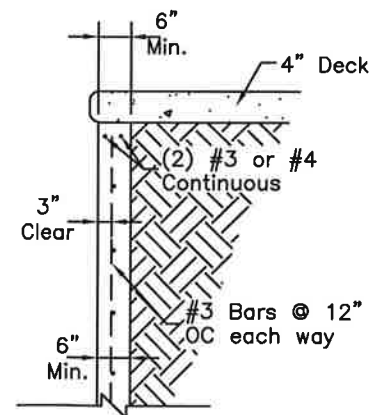


Wall Light Section
NTS



Reinforcing
 0-8' Depth: #3 bar @ 12" OC EW
 8'+ Depth: #3 bar @ 6" OC EW
 Tie intersections with 16 ga ties
 Min Lap shall be 40 bar dia.

Pool Shell Reinforcing
NTS



Bond Beam Details

Pool Perimeter	Bond Beam Reinforcing
Less than 130'	(2) #3 Bars
Greater than 130'	(2) #4 Bars



#	Date	Description

Revisions

Professional Engineer Seal for Darcy Unroe, PE 60929, State of Florida. The seal includes the text 'DARCY UNROE', 'PE 60929', and 'STATE OF FLORIDA'. A signature is written over the seal.

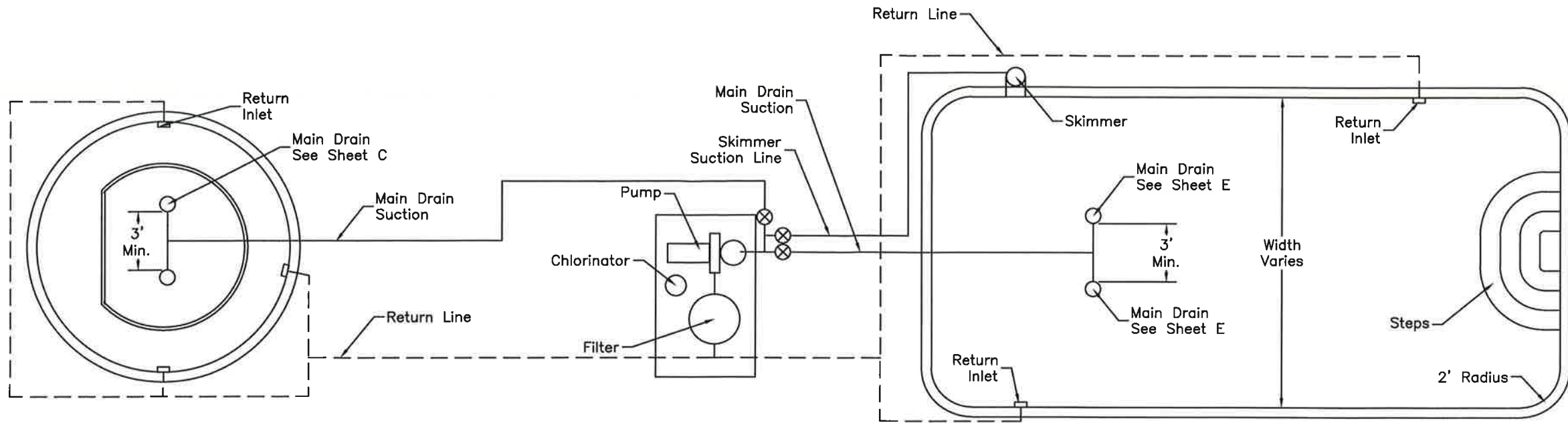
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Date: 12/3/14
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Drawing No. **C**

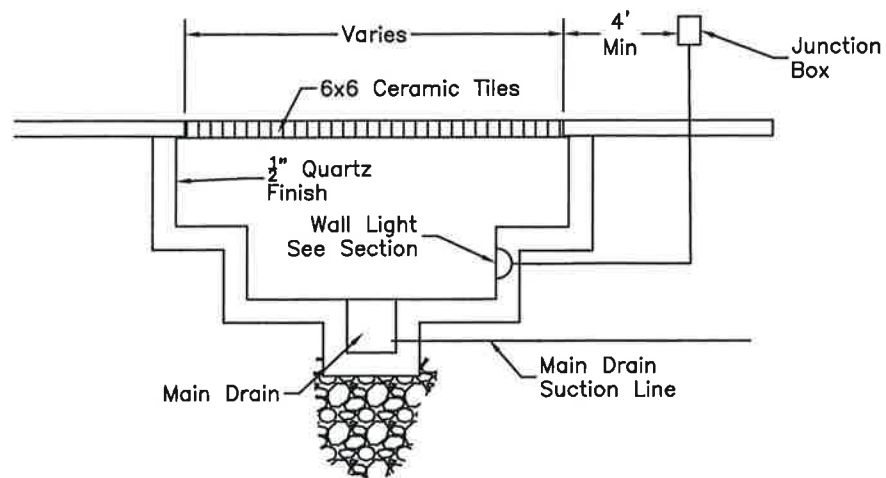
Pool Shell & Bonding Details
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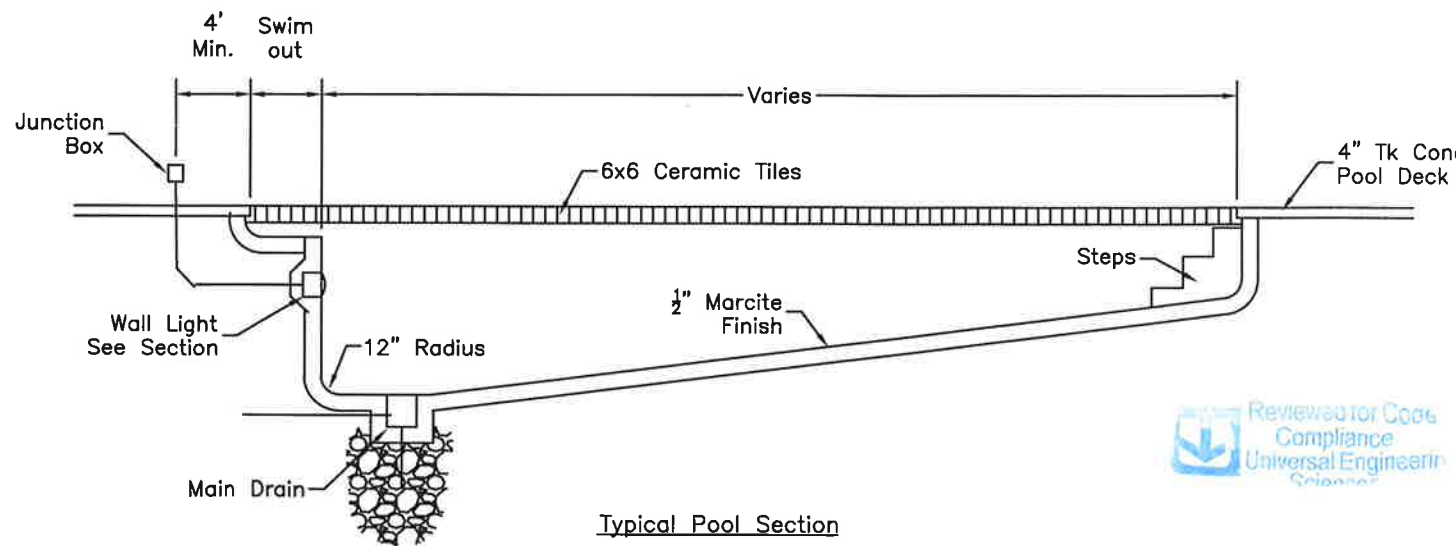


Typical Spa Plan

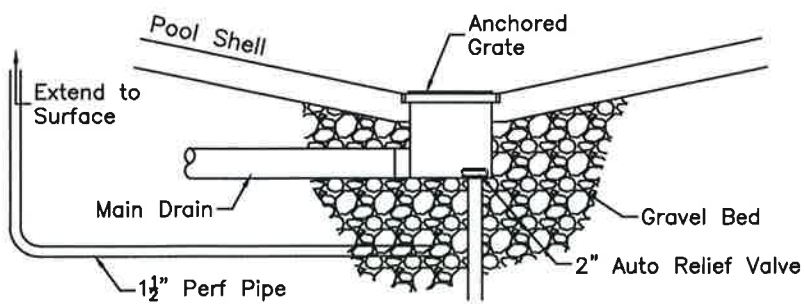
Typical Pool Plan



Typical Spa Section



Typical Pool Section



Section through Main Drain
NTS

Job specific pipe sizing, total dynamic head calculations and equipment specifications and documentation are to be provided by the pool contractor for each project. The pool contractor must use the maximum flow capacity of the selected pump and provide hydraulic calculations for TDH to determine proper pump and piping sizing.

#	Date	Description

Reviewed for Code Compliance
Universal Engineering
Darcy Unroe PE 60929

Date: 12/3/14
Scale: ----
File: Lillice

Drawing No. **B**

Typical Pool & Spa Layout

Swimming Pool & Spa Engineering
Premier Pools of Central Florida, Inc
4272 Palmetto Ave, Winter Park, Florida 32792

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Engineering/Planning/Scientific Evaluations
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Premier Pools of Central Florida. Inc

Swimming Pool & Spa Engineering For

Daniel and Nancy Sharp

4017 Isle Vista Ave., Belle Isle, FL 32812

General Notes:

1. Concrete shall be pneumatically placed, grade a, 2500 psi at 28 days or shall be machine mixed, grade A, 2500 psi at 28 days.
2. Reinforcing bars shall conform to ASTM A15-58T and A305-58T specifications.
3. Pool area shall be fenced per current Florida Building Code requirements.
4. Poured concrete shells should be wetted daily during the initial 7 days of curing in order to minimize the potential for hydration cracks. If using 12V lights, do not turn lights until the junction box has been mounted above grade beyond the deck and installed to meet building and electrical codes. If 110 V light is used, a G.F.I. outlet or transformer, to step the voltage down to 12 V, must be used. Do not turn on pool lights when empty.
5. Suitability of the subgrade soils for providing proper support to the pool shell and adjoining deck should be verified prior to construction.
6. All backfill must be compacted in 12" layers.
7. Number 3 Rebar may be used in bond beams for pools not exceeding 130 feet in perimeter. In pools with perimeters Greater than 130 feet, use number 4 rebar in the bond beams.
8. The reinforcing bars in the bond beam must have a minimum of 3 inches of cover and a minimum of one inch clearance.
10. An integral bond beam is required to be constructed with all concrete shell pools. Two continuous reinforcing steel bars shall be placed in the bond beam for the entire perimeter of the pool
11. A minimum wall. Thickness of 6 inches is required for all concrete wall shells.
12. If pool deck is concrete, use 6x6, 10/10 Welded Wire Mesh or fibermesh reinforcing
13. All pool piping to be schedule 40 PVC bearing NSF approval unless otherwise noted
14. If the seasonal high water table is at or above the bottom elevation of the pool shell the water table shall be artificially lowered using, an 8" min. gravel bed with a 2" perforated pipe plumbed to the surface should be installed below the deep end.
15. If there is no structural loading of the shell in the area, the skimmer may be placed in a cut out area of the pool edge and restored by guniting both the deck and top shell in one operation.
16. An area in the top of the pool shell and deck may be cut in the Horizontal plane and the skimmer placed with one rebar going around the rear face of the skimmer. No rebar is required to go beneath the skimmer in the gunite.
17. Hard wired alarms or child fencing is required on all pools.
18. See site plan for child fencing details and requirements.
19. Two main drains with a minimum 36" separation are required. The drains shall both have vacuum breakers.
20. The contractor shall select appropriately sized gates to accommodate the maximum flow capacity of the pump system to comply ANSI/APSP-7 2006 and 2007 Federal Virginia Graeme Baker Pool And Spa Safety Act. The intent of the standard is to provide 100 percent suction capacity of the chosen pump system through multiple drains if one drain become blocked. Additionally the drain gates must meet A112.19.8-2007/ASME A112.19.8a-2008 listed gates. It is the soie responsibility of the installer for selection of gates.
21. Site layout and location of the pool shall be coordinated with an approved site plan.
22. Primer and glue on exposed above ground piping is not required to be colored.
23. All piping shall be tested and approved to be water tight utilizing a pressure test of not less than 40 psi for 60 minutes.
24. Equipment shall be installed strictly in accordance with all manufactures' recommendations.
25. Where check valves are installed, they shall be of the swing spring or vertical check patterns.
26. All pools whether public or private shall be provided with a ladder or steps in the shallow end where water depth exceeds 24 inches. In private pools where water depth exceeds 5 feet, there shall be a ladders, stairs or underwater benches in the deep end.
27. Skimmers shall be installed on the basis of one per 800 square feet of surface area or fraction thereof, and shall be designed for a flow rate of at least 25 gpm per skimmer
28. Approved manufactured inlet fittings for the return of recirculated pool water shall be provided on the basis of at least one per 300 square feet of surface area. Where more than one inlet is required, the shortest distance between any two required inlets shall be at least 10 feet.
29. The Florida Building Code does not require a second layer of entrapment protection. The owner and contractor shall consider providing the additional protection per APSP-7 or VGPSSA. Additional measures include gravity feed, vent lines and etc.
30. No changes in the design of the pool shall be allowed without written approval by Unroe Engineering. Unapproved variations in design will make the attached design null and void.

Code Specification

The enclosed swimming pool design and details are based on the Florida Building Code 2010 edition. All construction shall be in strict accordance with:

- FBC2010 – Chapter 41, Section 4101.6.1
- NEC 2008 – Section 680.26 (C)
- Fed Virginia Graeme Baker Pool and Spa Safety Act of 2007.

Schedule of Drawings

- A** - Cover Sheet & Notes
- B** - Typical Pool & Spa Layout
- C** - Pool Shell & Bonding Details
- D** - Concrete Footer Details
- E** - Drain & Skimmer Details



Design Statement

This design and associated details meet the requirements of the Florida Building Code 2010 edition.

#	Date	Description

Revisions

Darcy Unroe PE 60929

Date: 12/3/14
Scale: -----
File: Lillice

Drawing No. A

Cover Sheet & Notes
Swimming Pool & Spa Engineering
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 4272 Palmetto Ave, Winter Park, Florida 32792

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