

Wednesday, January 4, 2023  
2:00 pm



Town Hall Commission Chambers  
247 Edwards Lane  
Palm Beach Shores, FL 33404

**DEVELOPMENT REVIEW COMMITTEE**  
**MEETING AGENDA**  
Chairman – Mayor Alan Fiers  
Planning and Zoning Board Representative – Jerald Cohn

Town Attorney Mitty Barnard  
Zoning Official Josh Nichols  
Town Engineer Rob Rennebaum

Resident Member Bob Stanton  
Town Clerk, Jude M. Goudreau  
Town Fire Chief Trevor Steedman

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**Meeting Information:**

<https://townofpalmbeachshores.my.webex.com/townofpalmbeachshores.my/j.php?MTID=medd2df83d78b5b055c89282d391d210c> Meeting number: 2634 911 9157 Password: 0104  
Join by phone +1-408-418-9388 United States Toll Access code: 263 491 19157

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1. **CALL TO ORDER**

2. **MISCELLANEOUS BUSINESS**

- a. **SPR23-01/AAR23-01:** Elena Macchitto, Owner of 226 Bamboo Road, requests Site Plan and Architectural & Aesthetic Approval to install a pool and paver pool deck on the property.
- b. **SPR23-02/AAR23-02:** Recy Palacio, Owner of 300 Bravado Lane, requests Site Plan and Architectural & Aesthetic Approval to install paver walkways in the rear of the property.

3. **ADJOURNMENT**

PLEASE TAKE NOTICE AND BE ADVISED, that if any interested person desires to appeal any decision made by the Town Commission with respect to any matter considered at this meeting or hearing, such interested person will need a record of the proceedings, and for such purpose may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is based. The meeting/hearing will be continued from day to day, time to time, place to place, as may be found necessary during the aforesaid meeting. IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICANS WITH DISABILITIES ACT (ADA), THIS DOCUMENT CAN BE MADE AVAILABLE IN AN ALTERNATE FORMAT (LARGE PRINT) UPON REQUEST AND SPECIAL ACCOMMODATIONS CAN BE PROVIDED UPON REQUEST WITH THREE (3) DAYS ADVANCE NOTICE. **FOR HEARING ASSISTANCE:** If any person wishes to use a hearing device, please contact the Town Clerk.



**POOL APPLICATION CHECKLIST**  
(See separate checklist for Spas/Hot Tubs)  
**Town of Palm Beach Shores**  
**Building Department**

Applicant must submit 10 paper sets and 1 electronic copy of the following items:

Please indicate items submitted with a checkmark (✓)

**Workclass: In Ground (not to exceed six (6) inches above ground level)**

- Pool only \_\_\_\_\_ Pool w/Deck \_\_\_\_\_ Pool w/Spa \_\_\_\_\_ Pool w/Deck/Spa ✓
2. **Copy of completed contract signed by both parties** ✓
3. **Owner/Builder affidavit; if applicable** \_\_\_\_\_
4. **Acknowledgment of Owner Responsibility -NOTARIZED** ✓
5. **Completed Drainage Certification Form and plan (retain 1" over additional impervious area)** ✓
6. **Plumbing permit application to be submitted with original permit package** \_\_\_\_\_
7. **Electrical permit application by certified electrician to be submitted with original permit package** ✓
8. **Survey showing location of pool and setbacks** ✓

- a. Must have printed legal description and flood zone \_\_\_\_\_
- b. Indicate distance from power lines, septic system and structures \_\_\_\_\_
- c. **Drainage plan/survey including flow arrows representing the proposed site drainage** \_\_\_\_\_

	Front		Rear		Side		Side	
Required Setback	Pool	Deck	Pool	Deck	Pool	Deck	Pool	Deck
			10'		7'		7'	
Proposed Setback	Pool	Deck	Pool	Deck	Pool	Deck	Pool	Deck
			11'	10.08'	29.67'		8.92'	5.17'

9. **Engineer signed/sealed plans, include designer name and address** \_\_\_\_\_
10. **Plans must:**
- a. Include water velocity for pressure, suction piping & TDH \_\_\_\_\_
- b. Show location of proposed pool equipment on property \_\_\_\_\_
- c. Show the proposed net increase in impervious surface area on property \_\_\_\_\_
11. **Pool Heater:** ✓ Gas \_\_\_\_\_ Electric \_\_\_\_\_ None \_\_\_\_\_  
(Requires separate gas permit)
12. **Provide Load Calculation including proposed pool equipment** ✓
13. **Provide pump curve charts from manufacturer** ✓
- **Provide inspector with a final "as-built" drainage plan at final inspection**
  - **Temporary 4 ft. high fence required during construction!**

TOWN OF PALM BEACH SHORES  
247 Edwards Lane,  
Palm Beach Shores, Florida 33404  
Phone: (561) 844-3457 Fax: (561) 863-1350  
Rev: 01/28/2020

# TOWN OF PALM BEACH SHORES BUILDING DEPARTMENT

## FIELD INSPECTION SERVICES

### BONDING OF POOL WATER

Recent industry changes have created an issue concerning equipotential bonding that is having an impact on swimming pool construction and all pool inspections. The issue of concern is the requirement found in the National Electrical Code 680.26(C) dealing with the bonding of pool water. This article says:

*“(C) Pool Water. An intentional bond of a minimum conductive surface area of 5800mm<sup>2</sup> (9 in.<sup>2</sup>) shall be installed in contact with the pool water. This bond shall be permitted to consist of parts that are required to be bonded in 680.26(B).”*

In many pools, this code requirement is met by the installation of a metallic ladder, a metallic handrail or standard wet niche lighting. Each of these is required to be bonded to the equipotential bonding grid since they have parts in direct contact with pool water. In the case of standard wet niche lighting the metal ring surrounding the light provides the direct contact. However, many residential swimming pools being installed do not contain a metallic ladder or handrail and, in recent times, standard wet niche lighting is being replaced with a plastic wet niche or LED lighting which require no bonding. The issue of concern then becomes how to effectively bond the pool water using this type of pool construction thus meeting the requirement as stated in 680.26(C).

Some have felt that since a listed swimming pool pump has pool water flowing through it and is required to be bonded that this will satisfy the code reference in question. However, there is a lack of any language either from any pump manufacturer or from a National Recognized Testing Laboratory (NRTL), such as Underwriters Laboratory (UL), specifically stating that there is the required 9 in.<sup>2</sup> of conductive surface in direct contact with the pool water. The same holds true for listed pool heaters. Therefore, it is the position of the Town of Palm Beach Shores that neither pumps nor heaters can be used to meet the requirement of NEC 680.26(C) unless that language is available and on site at time of inspection.

In lieu of using conventional means to bond pool water there are listed products available that allow a contractor to satisfy this code requirement a sampling of which can be found at the following websites.

<http://waterbonder.com/>

<http://www.bondsafe680.com/>

<http://permacastonline.com/>

### CONCLUSION

The Town of Palm Beach Shores always has been and remains committed to making our community as safe as possible. The use of residential swimming pools is no exception. This is of special concern since we have a large number of swimming pools and the majority is accessible to children. In view of the foregoing, all future inspections will be looking to ensure this type of bonding prior to the introduction of pool water.



## OWNER ACKNOWLEDGEMENTS AND CERTIFICATIONS

### Town of Palm Beach Shores Building Department

I (We) affirm and certify that I (We) understand and will comply with all provisions and regulations of the Town of Palm Beach Shores, Florida. I (We) understand that if this Application is approved by the Town, the aforementioned real property described herein will be considered, in every respect, to be a part of the Town of Palm Beach Shores and will be subjected to all applicable laws, regulations, taxes and police powers of the Town including the Comprehensive Plan and Zoning Ordinance. I (We) further certify that all statements and diagrams submitted herewith are true and accurate to the best of my (our) knowledge and belief. Further, I (We) understand that this Application and attachments become part of the Official Records of the Town of Palm Beach Shores, Florida and are not returnable. I (We) acknowledge that no permit will be issued before all fees associated with Application are paid.

1. Owner acknowledges and understands that the fee for site plan review, architectural/aesthetic review, variance, special exception, rezoning, etc. **may not cover all review costs**. A final statement of any outstanding costs (covering advertising costs, legal, architectural and other consultant costs) will be sent to the applicant upon completion of the review process. Owner accepts financial responsibility for all costs incurred as a result of this Application.
2. A construction schedule is required of all developers during the development process. The Planning and Zoning Board must approve your proposed construction schedule.
3. The Town requires payment of impact fees for floor area added during the development, re-development or renovation of a property. These impact fees will be used to pay for capital improvements relative to Fire Protection, Police Protection, Parks & Recreation and Public Buildings. Impact fees must be paid to the Town before a Certificate of Occupancy will be issued.
4. Roll-off dumpsters for construction/demolition debris and solid waste must be rented through the Town's contracted solid waste hauler, Waste Management.
5. Final as-built plans must be submitted to the Town in digital form, preferably in PDF format.

By signing below, I acknowledge that I have read and understand the five (5) items listed above.

*Elena Marchitto*  
Signature of Owner

11-8-2022  
Date

Elena Marchitto  
Printed Name of Owner

STATE OF FLORIDA  
PALM BEACH COUNTY:

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization this 8<sup>th</sup> day of November 2022, by Elena Marchitto, who is personally known to me or has produced DL (type of identification) as identification and who did/did not take an oath (circle response).



(Seal)

SULMA CORTES  
Commission # HH 036026  
Expires August 25, 2024  
Bonded Thru Budget Notary Services

*Sulma Cortes*  
NOTARY PUBLIC, State of Florida

TOWN OF PALM BEACH SHORES  
247 Edwards Lane  
Palm Beach Shores, Florida 33404  
Phone: (561) 844-3457 Fax: (561) 863-1350



## AUTHORIZATION OF AGENT & ACKNOWLEDGEMENT OF FINANCIAL RESPONSIBILITY

Consent to an agent is required from the property owner(s) and contract purchaser, if applicable, if the property owner(s) or contract purchaser does not intend to attend all meetings and public hearings and submit it person all material pertaining to the Application. Consent to a firm shall be deemed consent for the entire firm, unless otherwise specified. This form shall serve as consent for the agent identified below to prepare or have prepared all documents for the Application affecting property I (We) have an ownership interest in.

I (We) hereby designate and authorize the below-signed person to act as my (our) agent in regard to this Application and accept financial responsibility for any costs incurred by the agent as a result of this Application. Further, I (We) acknowledge that no permit will be issued before all fees associated with Application are paid.

E Marchitto  
Signature of Owner or Trustee

11-8-2022  
Date

STATE OF FLORIDA  
PALM BEACH COUNTY:

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization this 8<sup>th</sup> day of November 2022, by Elena Marchitto, who is personally known to me or has

produced DL SULMA CORTES (type of identification) as identification and who did/did not take an oath (circle response).



Commission # HH 036026  
Expires August 25, 2024  
Bonded Thru Budget Notary Services

(Seal)

Sulma Cortes  
NOTARY PUBLIC, State of Florida

### Agent Information:

Robert P. Vankirk Jr.  
Printed Name of Agent

Vankirk & Sons Inc  
Name of Firm

[Signature]  
Signature of Agent

11-8-2022  
Date

## ACKNOWLEDGEMENT OF OWNER RESPONSIBILITY FOR POOL SAFETY

Permit No.: \_\_\_\_\_

Owner: Elena Marchitto Address: 2216 Bamboo Road  
(Print name)

When a pool permit is issued, I understand that it is my responsibility as owner of the property to provide safety enclosures and barriers pursuant to Florida Building Code Chapter 454, Florida Statutes 515 and ANSI/NSPI-8.

These safety enclosures and barriers will be installed and in working order at time of final pool inspection.

E Marchitto  
Signature of Owner or Trustee

11-8-2022  
Date

STATE OF FLORIDA  
PALM BEACH COUNTY:

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization this 8<sup>th</sup> day of November 2022, by Elena Marchitto, who is personally known to me or has

produced DL (type of identification) as identification and who did/did not take an oath (circle response).



Commission # HH 036026  
Expires August 25, 2024  
Bonded Thru Budget Notary Services

(Seal)

Sulma Cortes  
NOTARY PUBLIC, State of Florida

Rev: 02/06/2020



**ACKNOWLEDGEMENT OF  
OWNER RESPONSIBILITY FOR POOL SAFETY**

**Town of Palm Beach Shores  
Building Department**

Permit No. \_\_\_\_\_

Owner MARCHITTO, ELENA  
(Print name)

Address 226 BAMBOO ROAD RIVIERA BEACH FL 33404

When a pool permit is issued, I understand that it is my responsibility as owner of the property to provide safety enclosures and barriers pursuant to Florida Building Code Chapter 424, Florida Statute 515 and ANSI/NSPI-8.

These safety enclosures and barriers will be installed and in working order at time of final pool inspection.

Signature of Owner

**THIS DOCUMENT MUST BE NOTARIZED**

**STATE OF FLORIDA  
PALM BEACH COUNTY**

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization this 8<sup>th</sup> day of November, 2022, (Year), by Elena Marchitto, who is personally known to me \_\_\_\_\_ or has produced Drivers License as identification and who did or did not take an oath.

**NOTARY PUBLIC**

Signature Sulma Cortes

Printed Sulma Cortes

My Commission Expires Aug. 25, 2024 Serial # \_\_\_\_\_  
(if any)

Official Stamp / Seal:



SULMA CORTES  
Commission # HH 036026  
Expires August 25, 2024  
Bonded Thru Budget Notary Services

*For information on pool enclosure and barrier requirements, please contact the Palm Beach Shores Building Dept, Monday through Friday, 8:30 AM to 4:30 pm.*

TOWN OF PALM BEACH SHORES  
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Phone: (561) 844-3457 Fax: (561) 863-1350  
Rev: 01/28/2020



## SPA AND HOT TUB APPLICATION CHECKLIST

Town of Palm Beach Shores  
Building Department

Applicant must provide the following items:

Please indicate items submitted with a checkmark (✓)

### Workclass: In Ground or Spa –Pre-Assembled

**Factory Assembled Unit:** (Plugs in outlet, no wiring, no plumbing involved)

1. Permit application (check appropriate trade) completed and signed \_\_\_\_\_
2. Manufacturer plans and specifications \_\_\_\_\_
3. Survey with setbacks, power line location, etc... (Indicate setbacks below) \_\_\_\_\_

### Workclass: In Ground or Spa –Pre-Assembled

**Assembled Unit Delivered Without Wiring or Plumbing:**

(Must be hard wired to breaker and may or may not require plumbing)

1. Permit application (check appropriate trade) completed and signed \_\_\_\_\_
2. Manufacturer plans and specifications \_\_\_\_\_
3. Survey with setbacks, power line location, etc... (Indicate setbacks below) \_\_\_\_\_

### Workclass: In Ground or Spa-In Ground

**Built and/or Assembled on Site:** (Requires hard wiring to breaker and plumbing)

1. Permit application (check appropriate trade) completed and signed ☒
2. Plans and specifications ☒
3. Survey with setbacks, power line location, etc... (Indicate setbacks below) ☒
4. Required fence or screen enclosure shown ☒
5. Product approval report or engineer's signed/sealed plans ☒
6. Schematic of electrical wiring ☒
7. Plumbing riser diagram with pipe sizes ☒

**SAFETY / BARRIER REQUIREMENTS:** (6<sup>th</sup> Edition FBC-R,  
Section 4501.17 and 6<sup>th</sup> Edition FBC Section 454.2.17)

Pool or spa 24" or more in depth shall maintain adequate barriers

### SETBACKS:

Swimming pools, spas and hot tubs shall be classified as structures and conform to setbacks required by the Town of Palm Beach Shores

Indicate Setbacks:

Required Setback	F	R	S	S
Proposed Setback	F	R	S	S

TOWN OF PALM BEACH SHORES  
247 Edwards Lane,  
Palm Beach Shores, Florida 33404  
Phone (561) 844-3457 Fax (561) 863-1350  
Rev: 01/28/2020

# BUILDING PERMIT APPLICATION

TOWN OF PALM BEACH SHORES

247 Edwards Lane, Palm Beach Shores, FL 33404

(561) 844-3457

## PROPERTY OWNER INFORMATION:

Owner Name: MARCHITTO, ELENA

Owner Address: 226 BAMBOO ROAD

RIVIERA BEACH FL 33404

Phone (O): 203-530-3355

Phone (H): \_\_\_\_\_

SINGLE FAMILY ☒ MULTI-FAMILY ☐ # UNITS \_\_\_\_\_

## TYPE OF IMPROVEMENT:

- |   |  |
|---|--|
| <input type="checkbox"/> New Sq. Ft. <u>295</u> | <input checked="" type="checkbox"/> Building |
| <input type="checkbox"/> Addition Sq. Ft. _____ | <input type="checkbox"/> Electrical          |
| <input type="checkbox"/> Alteration             | <input type="checkbox"/> Gas                 |
| <input type="checkbox"/> Repair                 | <input type="checkbox"/> Plumbing            |
| <input type="checkbox"/> Installation           | <input type="checkbox"/> Mechanical          |
| <input type="checkbox"/> Change/Cont.           | <input type="checkbox"/> Roofing             |
| <input type="checkbox"/> Pool/Spa               | <input type="checkbox"/> Driveway            |
| <input type="checkbox"/> Other _____            |  |

Valuation of Job: \$ 113,000.00

Master Permit No: \_\_\_\_\_

Does this include value of subcontractor's work?

Yes ☐ No ☒

## CONTRACTOR INFORMATION:

Qualifier: Robert P. Van Kirk Jr.

Company Name: Van Kirk & Sons Inc.

Company Address: 3144 SW 13th Drive

Deerfield Beach, FL 33442

Phone : 954-755-4402

County/State License #: CPC045956

Contractor Email: schai@vankirkpools.com

scortes@vankirkpools.com

## LOCATION INFORMATION:

Address: 226 BAMBOO ROAD

RIVIERA BEACH FL 33404

PCN: 54-43-42-27-04-000-3681

Zoning Designation: \_\_\_\_\_ Lot No: 368

Flood Zone \_\_\_\_\_

Base Flood Elevation: \_\_\_\_\_

Paid – Receipt #: \_\_\_\_\_

Permit Fee: \$ \_\_\_\_\_

If related to a multi-family dwelling or nonresidential use, will improvements require rental of a portable storage unit ("PSU")? Yes ☐ No ☒

(If checked 'Yes' above, please complete a separate no-fee permit application form for PSUs for multi-family and nonresidential properties)

## DESCRIPTION OF WORK:

Pool 26'x11'-6" Gallons-6889 /SPA 6'Diameter Gallons 628  
PAVERS Set on SAND

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 the jurisdiction. I understand that separate permits must be acquired for ELECTRICAL WORK, DEMOLITION, PLUMBING, SIGNS, POOLS, FURNACES, BOILERS, HEATERS, TANKS, ROOFING, AIR CONDITIONING, ETC. **WASTE MANAGEMENT DUMPSTER ONLY**

I further acknowledge the following:

- Issuance of a permit may be subject to conditions and is subject to time limitations.
- Issuance of a permit is not authorization to violate public or private restrictions.
- Failure to comply with applicable construction regulations may result in the withholding of future permits.
- Demolition-only projects must comply with Chapter 14, Articles V and VI of the Town Code and require submittal of drainage plans as part of the demolition permit application.

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.

**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 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.**

Signature: *E Marchitto*

Owner or Agent  
(If agent is signing, then original, notarized agency letter signed by owner must be attached)

STATE OF FLORIDA  
COUNTY OF PALM BEACH

The foregoing instrument was sworn (or affirmed) before me this 8th day of Nov., 2022 by MARCHITTO, ELENA who is personally known to me or who has produced a Florida driver's license as identification.

(Seal)

*Sulma Cortes*  
Notary Public, State of Florida



**SULMA CORTES**  
Commission # HH 036026  
Expires August 25, 2024  
Bonded Thru Budget Notary Services

Signature: *Robert P. Van Kirk Jr.*  
Contractor

STATE OF FLORIDA  
COUNTY OF PALM BEACH

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(Seal)



**SULMA CORTES**  
Commission # HH 036026  
Expires August 25, 2024  
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*Sulma Cortes*  
Notary Public, State of Florida

BUILDING OFFICIAL'S COMMENTS:

APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
Building Official



**BUILDING PERMIT APPLICATION**  
**TOWN OF PALM BEACH SHORES**  
247 Edwards Lane, Palm Beach Shores, FL 33404  
(561) 844-3457

**PROPERTY OWNER INFORMATION:**

Owner Name: MARCHITTO, ELENA  
Owner Address: 226 BAMBOO ROAD  
RIVIERA BEACH FL 33404

Phone (O): 203-530-3355  
Phone (H): \_\_\_\_\_  
SINGLE FAMILY ☒ MULTI-FAMILY ☐ # UNITS \_\_\_\_\_

**TYPE OF IMPROVEMENT:**

- |   |  |
|---|--|
| <input type="checkbox"/> New Sq. Ft. _____      | <input type="checkbox"/> Building            |
| <input type="checkbox"/> Addition Sq. Ft. _____ | <input type="checkbox"/> Electrical          |
| <input type="checkbox"/> Alteration             | <input type="checkbox"/> Gas                 |
| <input type="checkbox"/> Repair                 | <input checked="" type="checkbox"/> Plumbing |
| <input type="checkbox"/> Installation           | <input type="checkbox"/> Mechanical          |
| <input type="checkbox"/> Change/Cont.           | <input type="checkbox"/> Roofing             |
| <input type="checkbox"/> Pool/Spa               | <input type="checkbox"/> Driveway            |
| <input type="checkbox"/> Other _____            |  |

Valuation of Job: \$ 1,500.00

Master Permit No: \_\_\_\_\_

Does this include value of subcontractor's work?

Yes ☒ No ☐

**CONTRACTOR INFORMATION:**

Qualifier: Robert P. Van Kirk Jr.  
Company Name: Van Kirk & Sons Inc.  
Company Address: 3144 SW 13th Drive  
Deerfield Beach, FL 33442  
Phone : 954-755-4402  
County/State License #: CPC045956  
Contractor Email: schai@vankirkpools.com  
scortes@vankirkpools.com

**LOCATION INFORMATION:**

Address: 226 BAMBOO ROAD  
RIVIERA BEACH FL 33404  
PCN: 54-43-42-27-04-000-3681  
Zoning Designation: \_\_\_\_\_ Lot No: 368  
Flood Zone \_\_\_\_\_  
Base Flood Elevation: \_\_\_\_\_  
Paid – Receipt #: \_\_\_\_\_  
Permit Fee: \$ \_\_\_\_\_

If related to a multi-family dwelling or nonresidential use, will improvements require rental of a portable storage unit ("PSU")? Yes ☐ No ☒  
*(If checked 'Yes' above, please complete a separate no-fee permit application form for PSUs for multi-family and nonresidential properties)*

**DESCRIPTION OF WORK:**

Pod Spa : Heater Piping

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 the jurisdiction. I understand that separate permits must be acquired for ELECTRICAL WORK, DEMOLITION, PLUMBING, SIGNS, POOLS, FURNACES, BOILERS, HEATERS, TANKS, ROOFING, AIR CONDITIONING, ETC. **WASTE MANAGEMENT DUMPSTER ONLY**

I further acknowledge the following:

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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.

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Signature: 

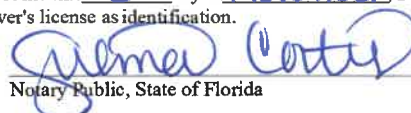
Owner or Agent

(If agent is signing, then original, notarized agency letter signed by owner must be attached)

STATE OF FLORIDA  
COUNTY OF PALM BEACH


The foregoing instrument was sworn (or affirmed) before me this 8<sup>th</sup> day of November, 2022, by MARCHITTO, ELENA  
who is personally known to me or who has produced a Florida driver's license as identification.

(Seal)

  
Notary Public, State of Florida



SULMA CORTES  
Commission # HH 036026  
Expires August 25, 2024  
Bonded Thru Budget Notary Services

Signature:   
Contractor

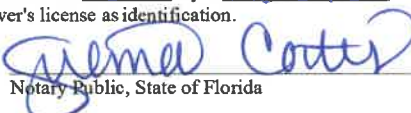
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COUNTY OF PALM BEACH

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Notary Public, State of Florida

BUILDING OFFICIAL'S COMMENTS:

APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
Building Official

**BUILDING PERMIT APPLICATION**  
TOWN OF PALM BEACH SHORES  
247 Edwards Lane, Palm Beach Shores, FL 33404  
(561) 844-3457

**PROPERTY OWNER INFORMATION:**

Owner Name: MARCHITTO, ELENA  
Owner Address: 226 BAMBOO ROAD  
RIVIERA BEACH FL 33404

Phone (O): 203-530-3355

Phone (H): \_\_\_\_\_

SINGLE FAMILY ☒ MULTI-FAMILY ☐ # UNITS \_\_\_\_\_

**TYPE OF IMPROVEMENT:**

- |   |  |
|---|--|
| <input type="checkbox"/> New Sq. Ft. _____      | <input type="checkbox"/> Building              |
| <input type="checkbox"/> Addition Sq. Ft. _____ | <input checked="" type="checkbox"/> Electrical |
| <input type="checkbox"/> Alteration             | <input type="checkbox"/> Gas                   |
| <input type="checkbox"/> Repair                 | <input type="checkbox"/> Plumbing              |
| <input type="checkbox"/> Installation           | <input type="checkbox"/> Mechanical            |
| <input type="checkbox"/> Change/Cont.           | <input type="checkbox"/> Roofing               |
| <input type="checkbox"/> Pool/Spa               | <input type="checkbox"/> Driveway              |
| <input type="checkbox"/> Other _____            |  |

Valuation of Job: \$ 1,500.00

Master Permit No: \_\_\_\_\_

Does this include value of subcontractor's work?

Yes ☒ No ☐

**CONTRACTOR INFORMATION:**

Qualifier: Marcelo Deoliveira

Company Name: Weglobal Electric LLC

Company Address: 226 S Military Trail

Deerfield Beach, FL 33442

Phone : 954-531-9005

County/State License #: EC13005546

Contractor Email: eros@weglobalelectric.com

**LOCATION INFORMATION:**

Address: 226 BAMBOO ROAD

RIVIERA BEACH FL 33404

PCN: 54-43-42-27-04-000-3681

Zoning Designation: \_\_\_\_\_ Lot No: 368

Flood Zone \_\_\_\_\_

Base Flood Elevation: \_\_\_\_\_

Paid – Receipt #: \_\_\_\_\_

Permit Fee: \$ \_\_\_\_\_

If related to a multi-family dwelling or nonresidential use, will improvements require rental of a portable storage unit ("PSU")? Yes ☐ No ☒  
*(If checked 'Yes' above, please complete a separate no-fee permit application form for PSUs for multi-family and nonresidential properties)*

**DESCRIPTION OF WORK:**

Electrical Hook up to Pool, Spa, & Heater

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 the jurisdiction. I understand that separate permits must be acquired for ELECTRICAL WORK, DEMOLITION, PLUMBING, SIGNS, POOLS, FURNACES, BOILERS, HEATERS, TANKS, ROOFING, AIR CONDITIONING, ETC. WASTE MANAGEMENT DUMPSTER ONLY

- Issuance of a permit may be subject to conditions and is subject to time limitations.
- Issuance of a permit is not authorization to violate public or private restrictions.
- Failure to comply with applicable construction regulations may result in the withholding of future permits.
- Demolition-only projects must comply with Chapter 14, Articles V and VI of the Town Code and require submittal of drainage plans as part of the demolition permit application.

**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 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.**

(If agent is signing, then original, notarized agency letter signed by owner must be attached)

**SULMA CORTES**  
Commission # HH 036026  
Expires August 25, 2024  
Bonded Thru Budget Notary Services

Notary Public, State of Florida

APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_  
Building Official





3144 S.W. 13th DRIVE • DEERFIELD BEACH, FL 33442 • Phone: 954-755-4402 • Fax: 954-341-8950  
www.VanKirkPools.com

License #CPC 045956  
License #CPC 1459182

This form, when properly executed by both parties, constitutes a binding contract between Van Kirk & Sons, Inc., and the Owner as designated below, at the price, terms and conditions herein set forth.

Date 6/1/22 Email MANCATHO@ELENA@YAHOO.COM  
Property Owner ELENA MANCATHO Phone 203-550-3555  
Installation Address 226 BAMBOO City Palm Beach Shores State FL Zip 33404  
Legal Description: Lot 368 Block \_\_\_\_\_ Subdivision Palm Beach Shores  
County Palm Beach Jurisdiction Palm Beach Shores Other Phone \_\_\_\_\_  
Contract Price ONE HUNDRED SIXTEEN THOUSAND DOLLARS & NO Dollars (\$ 116000.00)

**ACCEPTANCE:** This agreement ("Agreement") is merely an offer and is not binding upon Van Kirk & Sons, Inc. ("Contractor") until signed by an officer of Contractor at Contractor's principal place of business in Deerfield Beach, Florida. As an inducement for Contractor to enter into this Agreement and devote personnel and material resources to constructing or remodeling a pool for Owner, Owner represents and warrants to Contractor that the named party set forth above is the legal owner of the property upon which the Scope of Work set forth below is to be undertaken by Contractor and that said party has all lawful right and authority to enter into this Agreement.

**TERMS OF PAYMENT:** It is agreed by the parties hereto that the terms of payment are cash and progress payments are due as are set forth on the Payment Schedule below are due in full upon billing. It is further agreed that for newly constructed pools that shell and tile and coping progress payments as well as any extras, changes or additions shall be paid before the final plaster coat is applied. Payments not made when due shall accrue interest at the highest rate allowed by law.

**ESCALATION CLAUSE:** If through no fault of the Contractor the work to be undertaken as set forth in the Scope of Work below is materially delayed during one or more of the construction/remodel phases, as set forth in the Payment Schedule which follows, because of Owner's default hereunder or by a Force Majeure Event, as defined in Paragraph 3 on the reverse side of this Agreement, the Scope of Work must be re-priced for increases, which Owner agrees to be pay upon billing.

Van Kirk & Sons, Inc. due to the devotion of its personnel and material resources to build or remodel a pool for Owner reserves the right to cancel this Agreement upon written notice to Owner.

**PAYMENT (CONSTRUCTION/REMODEL PHASE) SCHEDULE:** \$ 11600 10% Deposit \$ 34800 30% at Dig \$ 34800 30% at Shell \$ 29000 25% Coping and/or Waterline Tile \$ 5000 Final day before plaster

\*VK denotes Contractor and HO denotes Owner. Credit Payments Other Than Deposit Will Have 3% Convenience FEE.

RESIDENTIAL CONSTRUCTION/REMODEL AND MECHANICAL SCOPE OF WORK			*VK HO		*VK HO	
IF NEW CONSTRUCTION - POOL STRUCTURE shall be reinforced concrete construction. All construction and mechanical details covered by this contract shall conform to standard Van Kirk & Sons, Inc. Structural and Mechanical Specifications and Working Drawings. These plans are available to the Owner. All dimensions are water dimensions.	Pool Size	<u>11'5"</u> Width <u>2'6"</u> Length	<u>Y</u>	<u>N</u>	Pavers Van Kirk	<u>TRIP 4PEP</u> <u>Y</u> <u>N</u>
	Depth	<u>3-5 FT</u>	<u>Y</u>	<u>N</u>	Pavers Other	<u>N</u> <u>N</u>
	Elevation at Beam Top		<u>Y</u>	<u>N</u>	Concrete Decking	<u>Reinve</u> <u>Y</u> <u>N</u>
	Dig & Haulout		<u>Y</u>	<u>N</u>	Spray Decking	<u>N</u> <u>N</u>
	Dig & Drop Next to Pool		<u>N</u>	<u>N</u>	Existing Patio	<u>Reinve</u> <u>Y</u> <u>N</u>
	Large Machine		<u>N</u>	<u>N</u>	Footers	<u>N</u> <u>N</u>
	Small Machine		<u>Y</u>	<u>N</u>	Interior Finish	<u>Lagoon</u> <u>Y</u> <u>N</u>
	Spa	<u>7'</u> <u>DIY</u> <u>Master</u> Length	<u>Y</u>	<u>N</u>	Tile	<u>TBD</u> <u>Y</u> <u>N</u>
	Spa	<u>N</u> Raised <u>N</u> Pedestal	<u>Y</u>	<u>N</u>	Coping	<u>TRIP</u> <u>Y</u> <u>N</u>
	Spa Light	<u>Scolor</u> <u>LED</u>	<u>Y</u>	<u>N</u>	Electric Heater	<u>370W BTU Heat Pump</u> <u>Y</u> <u>N</u>
Plumbing	Jets # <u>4</u>		<u>Y</u>	<u>N</u>	Gas Heater	<u>BTU</u> <u>Gas</u> <u>Y</u> <u>N</u>
Plumbing as Per Plan			<u>Y</u>	<u>N</u>	Gas Hookup by Owner Only	<u>N</u> <u>N</u>
Pool Pump	<u>Jandy 2.7 HP SP</u>		<u>Y</u>	<u>N</u>	Hookup for Pool Only at Existing Panel	<u>Y</u> <u>N</u>
Pool Filter	<u>Jandy 200 SF CARTR</u>		<u>Y</u>	<u>N</u>	On/Off Switch for pump & light placed at pump location	
Pool Light	<u>Niche or Nicheless (2) LED</u>		<u>Y</u>	<u>N</u>	Standard electrical connections only	<u>Y</u> <u>N</u>
Hand Rail	<u>Ladder</u>		<u>N</u>	<u>N</u>	Upgrades to power by owner	<u>N</u> <u>Y</u>
Bubbler			<u>N</u>	<u>N</u>	Raised Wall	<u>ROCK W/ 8x4 1/2</u> <u>Y</u> <u>N</u>
LED Bubbler			<u>Y</u>	<u>N</u>	Waterfall	<u>FUTURE SOURCES</u> <u>Y</u> <u>N</u>
<u>UMBRELLA SOLICIT IN SANDPIT</u>			<u>Y</u>	<u>N</u>	Sunshelf Standard water depth 6"	<u>Y</u> <u>N</u>
					All negative edges, 360 spa's water walls	<u>N</u> <u>N</u>
					must have a continuous waterflow	

**BUYER'S RIGHT TO CANCEL:** This is a home solicitation sale and if you do not want the goods or services you may cancel this Agreement by mailing a notice of cancellation to the Contractor. This cancellation notice must indicate that you do not want the goods or services and must be postmarked before midnight of the third business day after you sign this Agreement.

**NOTICE TO OWNER: DO NOT SIGN THIS AGREEMENT IF ANY ITEMS SET FORTH HEREIN ARE LEFT BLANK.**

**COMPLETED AGREEMENT:** Owner hereby acknowledges and agrees that: (i) this Agreement was complete in all details and that the Scope of Work set forth above was complete as to all provisions before signing and a copy thereof has been delivered to the Owner at the time Owner signed this Agreement; (ii) should there be an item in the Scope of Work that has been left blank, then and in that event, Contractor's determination as to what was intended as to how to undertake its engagement with regard to said blank item shall be final and determinative and binding upon Owner; and (iii) the terms and conditions contained on the reverse side of this Agreement are a part of and incorporated into this Agreement.

OWNER:

By: [Signature]

By: \_\_\_\_\_

CONTRACTOR: VAN KIRK & SONS, INC.

By: [Signature]

X \_\_\_\_\_

SALES ASSOCIATE

DATED: 6/1, 2022

DATED: \_\_\_\_\_, 20\_\_\_\_

DATED: 6/1, 2022

**ACCORDING TO FLORIDA'S CONSTRUCTION LIEN LAW (SECTIONS 713.001-713.37, FLORIDA STATUTES), THOSE WHO WORK ON YOUR PROPERTY OR PROVIDE MATERIALS AND SERVICES AND ARE NOT PAID IN FULL HAVE A RIGHT TO ENFORCE THEIR CLAIM FOR PAYMENT AGAINST YOUR PROPERTY. THIS CLAIM IS KNOWN AS A CONSTRUCTION LIEN. IF YOUR CONTRACTOR OR A SUBCONTRACTOR FAILS TO PAY SUBCONTRACTORS, SUB-SUBCONTRACTORS, OR MATERIAL SUPPLIES, THOSE PEOPLE WHO ARE OWED MONEY MAY LOOK TO YOUR PROPERTY FOR PAYMENT, EVEN IF YOU HAVE ALREADY PAID YOUR CONTRACTOR IN FULL. IF YOU FAIL TO PAY YOUR CONTRACTOR, YOUR CONTRACTOR MAY ALSO HAVE A LIEN ON YOUR PROPERTY. THIS MEANS IF A LIEN IS FILED YOUR PROPERTY COULD BE SOLD AGAINST YOUR WILL TO PAY FOR LABOR, MATERIALS, OR OTHER SERVICES THAT YOUR CONTRACTOR OR A SUBCONTRACTOR MAY HAVE FAILED TO PAY. TO PROTECT YOURSELF, YOU SHOULD STIPULATE IN THIS CONTRACT THAT BEFORE ANY PAYMENT IS MADE, YOUR CONTRACTOR IS REQUIRED TO PROVIDE YOU WITH A WRITTEN RELEASE OF LIEN FROM ANY PERSON OR COMPANY THAT HAS PROVIDED TO YOU A "NOTICE TO OWNER." FLORIDA'S CONSTRUCTION LIEN LAW IS COMPLEX, AND IT IS RECOMMENDED THAT YOU CONSULT AN ATTORNEY.**

THE TERMS AND CONDITIONS CONTAINED ON THE REVERSE SIDE OF THIS AGREEMENT ARE A PART OF AND ARE INCORPORATED INTO THIS AGREEMENT.





## DRAINAGE CERTIFICATION FORM

Town of Palm Beach Shores  
Building Department

Permit # \_\_\_\_\_

(Print Name) I, Robert P. Van Kirk intending to be legally bound,  
hereby certify the lot drainage will be installed in accordance with the approved site drainage  
plans and details.

At said  
property 226 BAMBOO ROAD

Date: 11-8-2022

Signature, Permit Qualifier: \_\_\_\_\_

License # CPC 045956

### STATE OF FLORIDA PALM BEACH COUNTY

The foregoing instrument was acknowledged before me by means of ☒ physical  
presence or ☐ online notarization this 8<sup>th</sup> day of November,

2022, (Year), by Robert P. Van Kirk, who is  
(Name of Person Acknowledging)

personally known to me X or who has produced

\_\_\_\_\_ as identification.

Sulma Cortes

(Signature of Notary Public – State of Florida)



**SULMA CORTES**  
Commission # HH 036026  
Expires August 25, 2024  
Bonded Thru Budget Notary Services

\_\_\_\_\_  
(Print, Type or Stamp Commissioned Name of Notary Public)

TOWN OF PALM BEACH SHORES  
247 Edwards Lane,  
Palm Beach Shores, Florida 33404  
Phone: (561) 844-3457 Fax: (561) 863-1350  
Rev: 01/28/2020

Property Detail

Location Address	226 BAMBOO RD		
Municipality	PALM BEACH SHORES		
Parcel Control Number	54-43-42-27-04-000-3681		
Subdivision	PALM BEACH SHORES IN PB 23 PGS 29 TO 32 INC		
Official Records Book	33527	Page	1004
Sale Date	APR-2022		
Legal Description	PALM BEACH SHORES E 65 FT OF LT 368		

Owner Information

Owners	Mailing address
MARCHITTO ELENA	226 BAMBOO RD RIVIERA BEACH FL 33404 5733

Sales Information

Sales Date	Price	OR Book/Page	Sale Type	Owner
APR-2022	\$950,000	33527 / 01004	WARRANTY DEED	MARCHITTO ELENA
AUG-2007	\$204,000	22053 / 01424	QUIT CLAIM	MOFFITT CRAIG W &
FEB-1999	\$141,000	10956 / 01992	WARRANTY DEED	MOFFITT CRAIG W
OCT-1990	\$100	06623 / 00141	WARRANTY DEED	
JAN-1980	\$100	03322 / 01069		
JAN-1969	\$29,000	01705 / 01536	WARRANTY DEED	

Exemption Information

Applicant/Owner	Year	Detail
MARCHITTO ELENA	2023	HOMESTEAD

Property Information

Number of Units	1
*Total Square Feet	2090
Acres	0.1709
Use Code	0100 - SINGLE FAMILY
Zoning	A - Single Family Residential ( 54-PALM BEACH SHORES )

Appraisals

Tax Year	2021	2020	2019
Improvement Value	\$119,899	\$141,106	\$143,197
Land Value	\$315,000	\$291,000	\$291,000
Total Market Value	\$434,899	\$432,106	\$434,197
All values are as of January 1st each year			

Assessed and Taxable Values

Tax Year	2021	2020	2019
Assessed Value	\$198,145	\$195,409	\$191,016
Exemption Amount	\$50,000	\$50,000	\$50,000
Taxable Value	\$148,145	\$145,409	\$141,016

Taxes

Tax Year	2021	2020	2019
Ad Valorem	\$3,237	\$3,208	\$3,151
Non Ad Valorem	\$5,070	\$3,036	\$3,038
Total tax	\$8,307	\$6,244	\$6,189

Dorothy Jacks, CFA, AAS PALM BEACH COUNTY PROPERTY APPRAISER [www.pbcgov.org/PAPA](http://www.pbcgov.org/PAPA)



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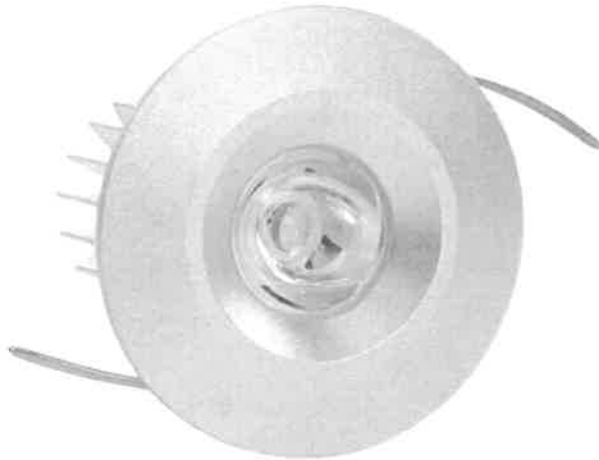
CART (0)

FLEXIBLE / STRIPS | RECESSED IN-CEILING | FLOOD LIGHTS | COMMERCIAL | RESIDENTIAL | EXTERIOR | UNDERWATER | POWER SUPPLIES &amp; CONTROLS

aspectLED &gt; 2" LED Recessed Light - Ultra Bright (3W)

Chat with an LED expert

## 2" LED Recessed Light - Ultra Bright (3W)



Mouse Over Image Above To Zoom In



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## VOLTAGE

CLICK FOR HELP CHOOSING

12VDC

Requires a  
power supply

24VDC

Requires a  
power supply

120VAC

Connects  
directly to  
house  
voltage

## LED LIGHT COLOR

CLICK FOR HELP CHOOSING

Warm  
WhiteCool  
White

DayWhite



Blue



Green



Red

Yellow /  
Amber

## TRIM COLOR

CLICK FOR HELP CHOOSING

Satin  
Nickel

White

Dark  
Bronze

Brass

## BEAM ANGLE

CLICK FOR HELP CHOOSING

FLOOD LIGHT (60 DEGREE)

**MOST POPULAR!**  
Perfect for general lighting

SPOT LIGHT (15 DEGREE)

Ideal for highlighting artwork

**\$ 26.54** ~~\$ 39.99~~

SKU: AL-RL-D-2-U-12VDC-WW-SN

Voltage: 12VDC

LED Color: Warm White

Trim Color: Satin Nickel

Beam Angle: Flood Light (60 degree)

In Stock (Usually ships same or next business day)

Qty 1

ADD TO CART

PRODUCT DETAILS

TECHNICAL DOCS &amp; VIDEOS

FAQ

ACCESSORIES

POWER SUPPLY CALCULATOR

WHY ASPECTLED?

aspectLED's recessed lights are bright, energy efficient, and attractively styled, making them perfect for virtually any residential or commercial application.

At under 2" tall, our 2" round LED recessed light can fit into tight spaces that a traditional recessed can light can't, such as ceilings with ductwork/piping/obstructions, hot-roof ceilings with limited vertical clearance, and tight soffits. The LED face of this fixture is fixed and points straight downward. Since it is not adjustable, this fixture best suited for flat ceilings.

## Physical Dimensions &amp; Specifications



## Quality and Performance

Customers that have used ours and our competitors' products agree – there's no comparison in quality. Between the better materials, superior heatsink design, better light distribution, higher efficiency, more reliable driver circuitry, and higher quality LED chips, there's no doubt our recessed downlights are built to a higher quality standard than most and will stand the test of time.

## Unmatched Customizability

Our line of recessed lights are the most customizable product in the industry. Available in low voltage (12/24VDC) or line voltage (120VAC) variations, nearly any LED color (or color changing), and a range of beam angles. We can also powder coat fixtures to customer specifications, customize brightness levels, and even offer adjustable gimbal heads on some fixtures.

## Consistency and Reliability

Our commercial electrician, contractor, builder, and OEM manufacturing customers have been buying from us for years because they know our product has unmatched consistency. We recognize that you don't want to worry about changing dimensions, color temperatures varying, products not being available anymore, or unreliable customer service.

## Canless IC Rated Can Replacement

Our can-free recessed downlights are designed for use as a complete can replacement in normal installations, without the need for a traditional pot, can, or housing. aspectLED downlights have been used in new homes, remodels, offices, trade shows, retail displays, marine environments, pavilions and pergolas, tiny homes, and countless other applications.

	12VDC	24VDC	120VAC
<b>Part #</b>	AL-RL-D-2-U-12VDC	AL-RL-D-2-U-24VDC	AL-RL-D-2-U-120VAC
<b>Light Fixture Dimensions</b>	1-15/16" (49mm) diameter 1-15/16" (49mm) tall	1-15/16" (49mm) diameter 1-15/16" (49mm) tall	1-15/16" (49mm) diameter 1-15/16" (49mm) tall
<b>External LED Driver Dimensions</b>	2" (51mm) long 1" (25.5mm) wide 7/8" (22mm) tall	2" (51mm) long 1" (25.5mm) wide 7/8" (22mm) tall	6-3/8" (163mm) long 1-5/8" (42mm) wide 1-3/8" (37mm) tall
<b>Cut-Out Hole Size</b>	1-5/8" (41mm) diameter	1-5/8" (41mm) diameter	1-5/8" (41mm) diameter
<b>LED Driver Input Voltage</b>	12VDC	24VDC	120VAC
<b>Dimmable</b>	No	No	No
<b>Nominal Power Consumption</b>	3 Watts	3 Watts	3 Watts
<b>Max Delivered Scotopic Luminous Flux of LED Array <sup>2</sup></b>	395 Lumens (varies by color temperature)	395 Lumens (varies by color temperature)	395 Lumens (varies by color temperature)
<b>Max Delivered Photopic Luminous Flux of LED Array <sup>2</sup></b>	188 Lumens (varies by color temperature)	188 Lumens (varies by color temperature)	188 Lumens (varies by color temperature)
<b>Average Continuous Power Consumption After Startup</b>	2.52 Watts	2.52 Watts	2.52 Watts
<b>Luminous Efficiency (Lumens per Watt)</b>	72.62 Lumens/Watt (varies by color temperature)	72.62 Lumens/Watt (varies by color temperature)	72.62 Lumens/Watt (varies by color temperature)
<b>LED Type</b>	SMD LED Chips	SMD LED Chips	SMD LED Chips
<b>LED Quantity</b>	1 - High Power 3 Watt LED	1 - High Power 3 Watt LED	1 - High Power 3 Watt LED
<b>Fixture Material</b>	High performance aluminum alloy	High performance aluminum alloy	High performance aluminum alloy
<b>Finish Options</b>	Anodized Satin Nickel Powder coated White, Dark Bronze, or Brass. <a href="#">Click here to learn more about our powder process.</a>	Anodized Satin Nickel Powder coated White, Dark Bronze, or Brass. <a href="#">Click here to learn more about our powder process.</a>	Anodized Satin Nickel Powder coated White, Dark Bronze, or Brass. <a href="#">Click here to learn more about our powder process.</a>
<b>Weight</b>	0.25 lbs	0.25 lbs	0.25 lbs
<b>Estimated Lifespan</b>	50,000 hours	50,000 hours	50,000 hours
<b>Warranty</b>	3 Years	3 Years	3 Years
<b>IC Rated for Insulation Contact</b>	Yes	Yes	Yes
<b>Suitable Uses</b>	Dry, Damp or Wet Locations	Dry, Damp or Wet Locations	Dry, Damp or Wet Locations

	12VDC	24VDC	120VAC
<b>Compatible Power Supplies</b>	<u>Non-Dimmable Power Supplies</u> Never use with MLV power supplies!	<u>Non-Dimmable Power Supplies</u> Never use with MLV power supplies!	No Power Supply Needed (Driver included with light)
<b>Standards / Certifications</b>	UL Listed cUL Listed RoHS, CE	UL Listed cUL Listed RoHS, CE	RoHS, CE

**Features:**

- Virtually no UV or IR radiation
- Suitable for installation in flat ceilings
- Easy to install and mount, featuring integral spring-clamps
- Maintenance free
- Suitable for indoor/outdoor temperatures from -4 to +122 Fahrenheit (-20 to +50 Celsius)
- Solid-state construction makes for high shock and vibration resistance
- SMD LEDs are super bright, high intensity and low power consumption
- Extremely long life: up to 50,000 hours

**Applications:**

- General room lighting in flat ceilings
- Architectural lighting for corridors, pathways, and archways
- Sculpture spotlight/accent lighting
- Display case lighting
- Coffered ceiling lighting
- Under cabinet lighting
- Marine and RV lighting
- Elevator lobby areas
- Museum and art gallery lighting
- Sculpture and statue illumination
- Soffit lighting

## RELATED PRODUCTS



2.25" LED Recessed  
Light for...  
From \$ 27.65



3.15" LED Recessed  
Light for...  
From \$ 36.99



3.15" LED Recessed  
Light for...  
From \$ 40.99



3.5" LED Recessed  
Light for...  
From \$ 37.99



3.5" LED Recessed  
Light for...  
From \$ 41.99

## CUSTOMER REVIEWS

Based on 2 reviews [Write a review](#)

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We won't share, sell or trade your e-mail

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## COMPANY INFO

About aspectLED  
We're Hiring

## BUSINESS SERVICES

OEMs/Custom Product Manufacturing  
Distributor Accounts  
Product Customizations  
Lighting Design

## NEWSROOM

aspectLED Overview  
Images & Assets  
Media Contacts





PAYMENT METHODS WE ACCEPT





# 32" CHANNEL DRAIN ACCESSORIES

## ADJUSTABLE COLLAR ADAPTER

### PRODUCT FEATURES

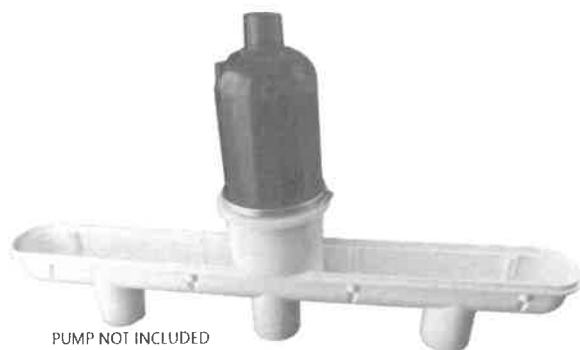
- Use for Pool Refinish & Remodel
- Adds 1/2" - 3/4"
- Fits the CMP 32" Channel Drain
- For a Perfect Drain Cover Fit and Finish



## SUMP PUMP ADAPTER

### PRODUCT FEATURES

- Completely & Properly Drain the Sump
- Build-in Debris Screen
- PATENT PENDING



## ORDERING GUIDE

REF	CMP P/N	DESCRIPTION	BOX QTY
32" CHANNEL DRAIN ACCESSORIES			
A	25506-320-150	ADJUSTABLE COLLAR ADAPTER	--
B	25506-320-500	SUMP PUMP ADAPTER (PATENT PENDING)	18

# CERTIFICATE OF COMPLIANCE



The following products have been tested to ANSI/APSP-16 2011 per Section 1404 of the Virginia Graeme Baker Pool and Safety Act (VGB-2008) and safety regulations set forth by the CPSC. These products are manufactured by Custom Molded Products, Inc. in Shanghai, China and certified by Underwriters Laboratories, Inc., at 2929 E. Imperial Highway, Suite 100, Brea, CA 92821 (ph: 714-223-3600) or IAPMO R&T Lab at 5001 E. Philadelphia Street, Ontario, CA 91761 (ph: 909-472-4100). A copy of the test results may be found at [www.ul.com](http://www.ul.com) or [www.pld.iapmo.org](http://www.pld.iapmo.org).

25200-2XX (UL)	25513-5XX (IAPMO)	25519-0XX (IAPMO)
25201-XXX (UL & IAPMO)	25513-6XX (IAPMO)	25531-0XX (IAPMO)
25207-7XX (IAPMO)	25513-7XX (IAPMO)	25537-0XX (IAPMO)
25207-8XX (IAPMO)	25513-8XX (IAPMO)	25539-0XX (IAPMO)
25215-0XX (UL)	25514-0XX (IAPMO)	25539-1XX (IAPMO)
25506-32X-XXX (IAPMO)	25515-0XX (IAPMO)	25539-5XX (IAPMO)
25507-0XX-010 (IAPMO)	25515-5XX (IAPMO)	25539-6XX (IAPMO)
25507-1XX-010 (IAPMO)	25515-7XX (IAPMO)	25539-7XX (IAPMO)
25508-09XL (IAPMO)	25516-0XX (IAPMO)	25539-7XX-011 (IAPMO)
25508-12XL (IAPMO)	25516-25X (IAPMO)	25539-8XX (IAPMO)
25508-18XL (IAPMO)	25516-26X (IAPMO)	25548-00X (IAPMO)
25513-0XX (IAPMO)	25516-3XX (IAPMO)	25548-5XX (IAPMO)
25513-1XX (IAPMO)	25516-4XX (IAPMO)	25548-70X (IAPMO)
25513-25X (IAPMO)	25516-5XX (IAPMO)	
25513-26X (IAPMO)	25516-7XX (IAPMO)	
25513-3XX (IAPMO)	25517-5XX (IAPMO)	
25513-4XX (IAPMO)	25517-7XX (IAPMO)	

DATE OF MANUFACTURE:

# CMP



# 32" CHANNEL DRAINS

CMP# 25506-32X-000\*



Single or Multiple Drain Use  
Submerged  
Life: 7 Years  
Floor or Wall  
25506-32X

VGB-2008  
COMPLIANT

**Read and keep these instructions for future reference.**

**Always plumb and install all suction fittings according to all building codes that apply in your area.**

**WARNING:** When using two or more suction fittings on a common suction line, suction must be separated by a minimum of 3 ft or they must be located on two different planes (i.e., one on floor and one on the wall).

**WARNING:** DO NOT locate suction outlets on seating areas or on backrests for such seating areas.

The maximum flow rating for this suction fitting with the center port plugged and outer ports open is 308 GPM (Floor) and 212 GPM (Wall) when using 2.5" plumbing and 268 GPM (Floor) and 192 GPM (Wall) when using 2" plumbing. The maximum flow rating for this suction fitting with the outer ports plugged and the center port open is 200 GPM (Floor) and 168 GPM (Wall) when using 2.5" plumbing and 184 GPM (Floor) and 176 GPM (Wall) when using 2" plumbing. This suction fitting is designed for installation on side wall or floor of hot tubs or pools. DO NOT adapt suction fitting to any pipe size smaller than ASTM 2" SCH 40 PVC. Suction fitting and fasteners should be observed for damage or tampering before each use.

Missing, broken, or cracked suction fittings shall be replaced before use. Loose suction fittings shall be reattached or replaced before use.

Mount suction fittings on the walls, in the foot wells of hot tubs or pools. Do not mount directly under seats. Follow all winterizing instructions and recommendations of your pool and spa professional.

Open area of the suction cover is 38.79 in<sup>2</sup>.

**Tools Needed: Phillips Head Screwdriver**

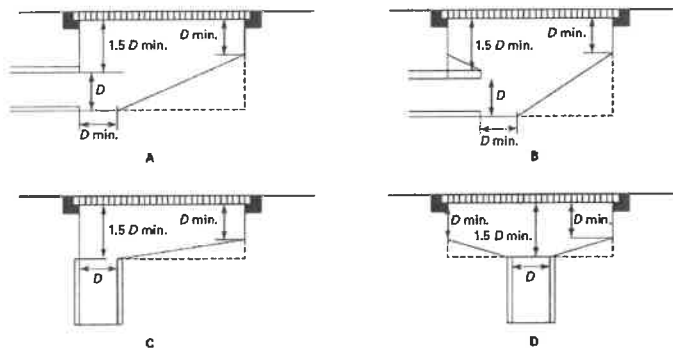
## INSTALLATION INSTRUCTIONS

1. Install sump provided or construct sump per ANSI/APSP-16 Figure 2 (see below)
2. If mounting frame is provided, secure it in concrete or plaster.
3. Use mounting screws to secure cover to frame or sump.

**NOTE:** In the event that one suction outlet is completely blocked, the remaining suction outlet(s) serving that system MUST have a flow rating capable of the full flow of the pump(s) for the specific suction system.

**NOTE:** Increasing size of the pump may increase flow rate of suction beyond rated safety limits causing entrapment or death.

**CAUTION:** Hair or body parts blocking the spa or pool suction may become trapped and held against the suction fitting. Entrapment against the suction fittings can result in drowning or other severe injury. Never sit on or lean up against suction fittings. Never exceed the maximum allowable flow rate stated on the suction fitting. The suction fitting and fasteners should be inspected for damage or tampering before each use of the facility. Missing, broken, or cracked suction fittings shall be replaced before using this facility. Loose suction fittings shall be reattached or replaced before use of this facility.

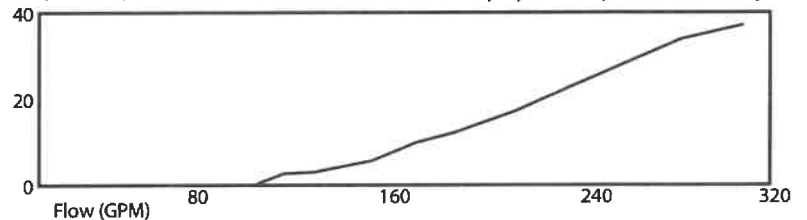


### GENERAL NOTES:

- (a)  $D$  = Inside diameter of pipe.
- (b) All dimensions shown are minimums.
- (c) A broken line (---) indicates suggested sump configuration.

Head Loss  
(Pa x 10<sup>3</sup>)

Results may vary - this data is provided for reference only.



## REPLACEMENT PARTS

25506-32X-000

Cover 25506-32X-020  
Sump 25506-320-010  
Plug 25520-050-020  
Screw 61008-042-022

Optional Debris Guard  
25506-320-030

25506-32X-100

Cover 25506-32X-020  
Frame 25506-320-110  
Screw 61008-042-022

Optional Frame Support  
25520-050-120

Replace all parts within 7 installed years or immediately upon evidence of degradation or damage.

\* X CAN BE ANY DIGIT 0-9 TO DENOTE COLOR

**WARNING:** To reduce the risk of drowning from hair and body entrapment, install suction fittings with a marked flow rate in gallons per minute that exceeds the flow rate of your system by at least 25%. Always use multiple suction outlets. If the fitting/cover breaks, is damaged, or is missing, shut the system down immediately. Do not use the system until damaged parts have been replaced.

**WARNING:** Keep hair and clothing a minimum of 12 inches from all suction fittings and drains at all times. Persons with long hair should secure hair to a minimal length or wear swimming cap. Children should never be left unattended at any time in a swimming pool, spa, or bathtub. Be sure the temperature of the water never exceeds the manufacturer's recommendations.



## Compact, Versatile, Powerful

The Jandy® FloPro single- and two-speed pumps are designed with an innovative adjustable base, allowing for simple installation on new construction, or quick and easy replacement of existing pumps. With the FloPro, minimal plumbing adjustments are required, thereby enabling cost effective pump replacement.

- › Medium-head, high-flow pump in an ultra compact body. Excellent choice for tight equipment areas.
- › Adjustable base options allow for easy replacement of select Hayward®, Pentair®, Sta-Rite®, and Jandy pumps.
- › Ergonomic cam-lock lid with easy alignment indicators.
- › Equipped with 2" unions & 2" internal threads.
- › Quiet operation.

### • Easy to Use

Innovative pump equipped with ergonomic cam-lock lid for easy alignment and strainer basket cleaning, handle brackets, and 2" pump unions.

### • Energy and Cost Efficient

DOE compliant energy-efficient two-speed model provides uncompromising power to filter and recirculate pool and spa water while keeping costs down.

### • Easy to Install

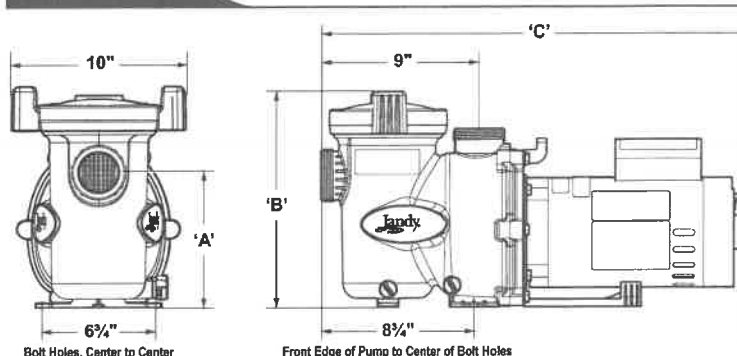
The included adjustable base, 2" unions and 2" threaded ports enable easy drop-in replacement of most existing pumps. FloPro makes it easy to replace popular pump models including Hayward® Super Pump® or Pentair® WhisperFlo® and SuperFlo® pumps.

## BASE OPTIONS

Type of Base	Components	Fits
<b>Option 1</b>	No base required	Hayward® Super Pump® Pentair® SuperFlo® Sta-Rite® SuperMax®
<b>Option 2</b>	Small base	Hayward Super II™ Jandy PlusHP and Max HP
<b>Option 3</b>	Small base with spacers	Pentair WhisperFlo® Sta-Rite Dyna-Glas™
<b>Option 4**</b>	Small base + large base	Sta-Rite Max-E-Pro® Sta-Rite Dura-Glas® Sta-Rite Dura-Glas II, Sta-Rite Max-E-Glas®

\*\*Optional: Part # R0546400

## DIMENSIONS



## SPECIFICATIONS

### Residential FloPro Pumps, DOE Compliant

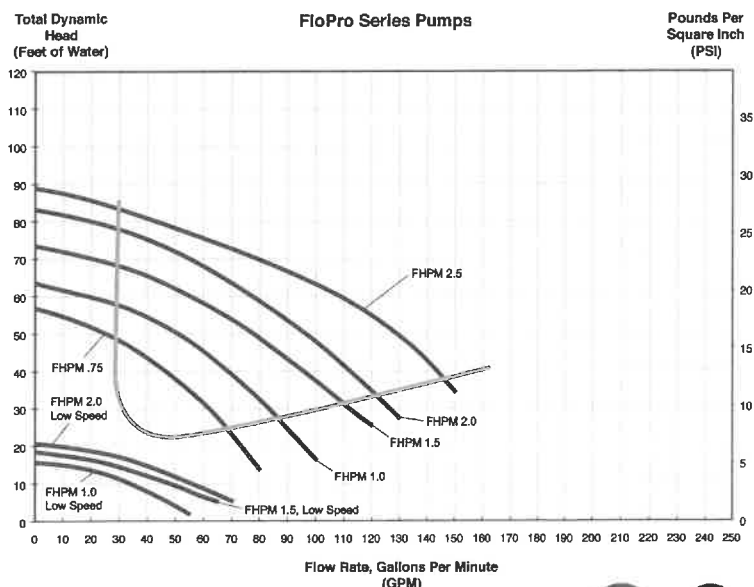
Model No.	THP	WEF	Voltage	Amps	Recommended Pipe Size	Carton weight	Overall Length 'A'
FHPM.75	0.95	4.1/4.3	230/115	5.4/10.8	1 1/2"-2"	40.6 lbs.	23 3/8"
FHPM1.0	1.24	3.5	230/115	7.1/14.2	2-2 1/2"	41.2 lbs.	23 3/8"
FHPM1.0-2	1.14	5.6	230	7.1/2.3	2-2 1/2"	46.5 lbs.	24 1/4"

### Residential FloPro Pumps, Not DOE Compliant\*

Model No.	THP	WEF	Voltage	Amps	Recommended Pipe Size	Carton weight	Overall Length 'A'
FHPM1.5	1.65	-	230/115	8.0/16	2-2 1/2"	42.6 lbs.	23 3/8"
FHPM2.0	2.26	-	230/115	11.2/22.4	2-2 1/2"	54.6 lbs.	25 3/8"
FHPM2.5	2.60	-	230	11.5	2 1/2"-3"	48.6 lbs.	24 3/8"
FHPM1.5-2	1.65	-	230	8.0/3.0	2 1/2"-3"	48.0 lbs.	24 3/8"
FHPM2.0-2	2.22	-	230	11.2/3.5	2 1/2"-3"	52.9 lbs.	24 3/8"

\*Pumps not meeting DOE compliance standards will cease manufacturing on or before July 18, 2021. Specifications are being provided for historical reference.

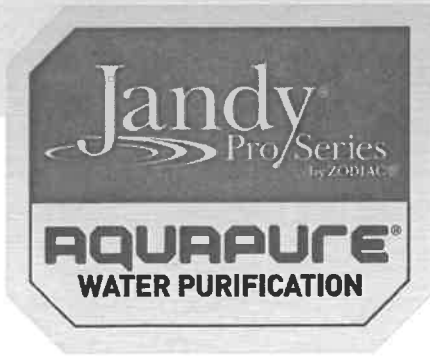
## PERFORMANCE



Jandy.com | 1.800.822.7933

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## THE HEAVY-DUTY STANDARD FOR MAXIMUM PERFORMANCE

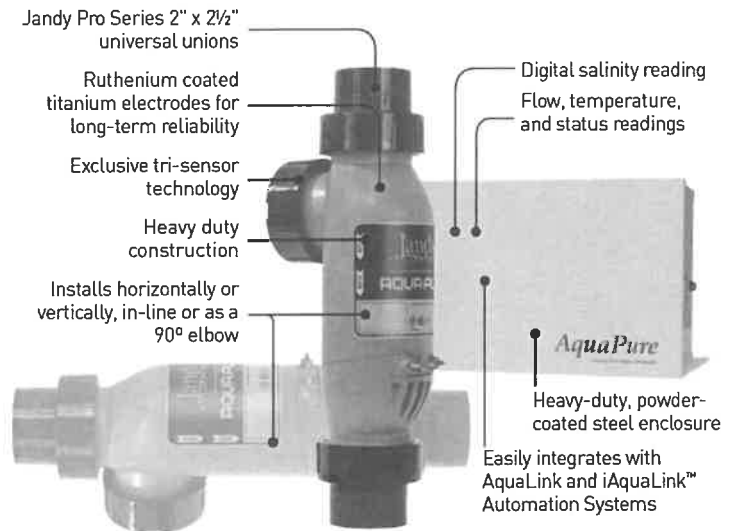
AquaPure salt-water chlorine sanitizing systems use salt-water to deliver high-performance water sanitation with uncompromised performance, reliability, and hydraulic efficiency.

### » Robust Features

- Automatic self-cleaning feature, which ensures consistent operation and extends the life of the cell.
- Professional-grade, ruthenium coated titanium electrodes for long-term reliability.
- Exclusive Tri-Sensor technology — reliable electronic water flow detection to ensure maximum performance, even at very low flow rates (to take advantage of the benefits of VS pumps).
- Digital salinity read-out for accurate salt level indication
- Flow, temperature, and status readings provide instant feedback on the current operation.

### » Easy Integration

- Seamless communication with AquaLink® Control systems, enabling easy monitoring of salt levels and convenient, precise sanitizer output settings.
- When combined with PureLink™ power centers, AquaLink and AquaPure work together for the ultimate in pool sanitizing and remote operation convenience.

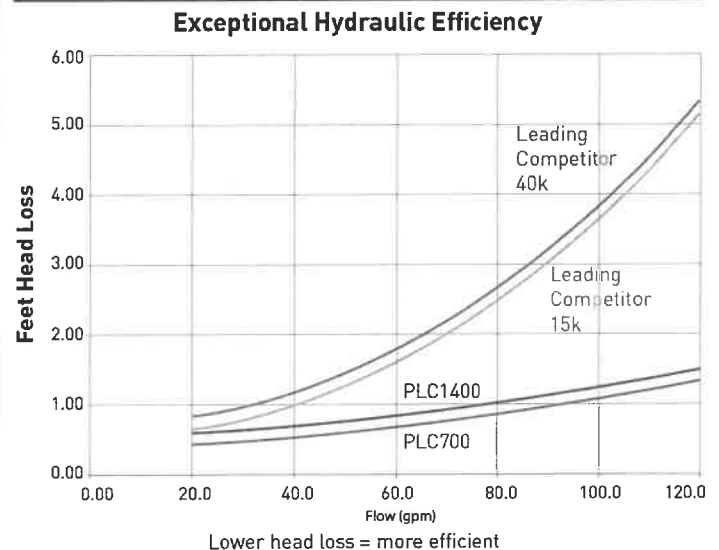


### SPECIFICATIONS

Model	PLC700	PLC1400
Pool Size*	Up to 12,000 Gallons	Up to 40,000 Gallons
Input	120 VAC, 50/60 Hz, 1.5 AMPS 240 VAC, 50/60 Hz, 0.75 AMPS	120 VAC, 50/60 Hz, 2.5 AMPS 240 VAC, 50/60 Hz, 1.25 AMPS
Output	22-30 VDC @ 3 AMPS maximum	22-30 VDC @ 6 AMPS maximum
Chlorine	0.625 lb./24 Hr. [283 gm/24 Hr.]	1.25 lb./24 Hr. [567 gm/24 Hr.]
Recommended Flow Rate	20-120 GPM	20-120 GPM

\*Pool sizes are generalizations and may vary with environmental conditions. Pools with greater exposure to sunlight may require greater chlorine production capacity.

### HEAD LOSS CHART



**Zodiac Pool Systems, Inc.**  
2620 Commerce Way, Vista, CA 92081  
1.800.822.7933 | [www.ZodiacPoolSystems.com](http://www.ZodiacPoolSystems.com)

**Zodiac Pool Systems Canada, Inc.**  
2115 South Service Road West, Unit #3, Oakville, ON L6L 5W2  
1.888.647.4004 | [www.ZodiacPoolSystems.ca](http://www.ZodiacPoolSystems.ca)



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## POOL AND SPA BLOWER



**Jandy**  
Pro Series

### POOL AND SPA BLOWER

#### Quieter Operation

Less equipment noise\*  
for a more peaceful  
backyard experience

#### High Performance

Industry-leading air  
pressure creation  
for powerful,  
invigorating bubbles

#### Built-In Check Valves

Integrated valve  
prevents water damage  
to blower motor

#### Easy Installation

Convenient bottom mount  
with included wall bracket

\*10% decibel reduction compared  
to Jandy QT Blower

#### SPECIFICATIONS

Model	Horsepower	Voltage	Amps
PSB110	1 HP	120	6.0
PSB115	1.5 HP	120	7.9
PSB120	2 HP	120	9.7
PSB210	1 HP	240	3.0
PSB215	1.5 HP	240	3.9
PSB220	2 HP	240	4.9

#### PERFORMANCE

Performance Curves (60 HZ)

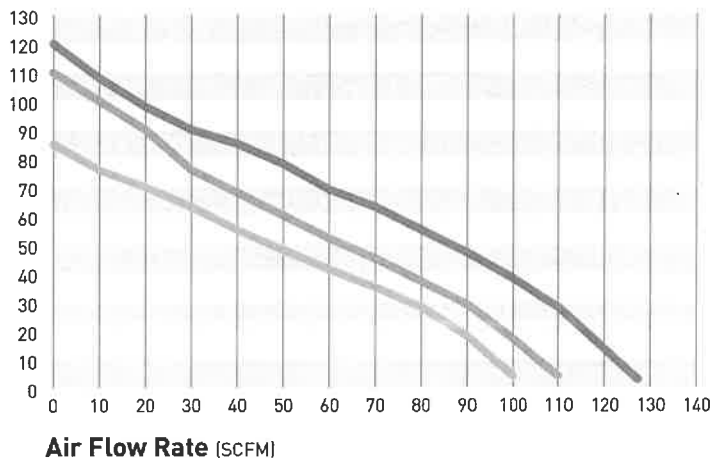
**Model**      **Max Back Pressure**

PSB110      40"  
PSB210

PSB115      50"  
PSB215

PSB120      65"  
PSB220

**Pressure H<sub>2</sub>O**  
[Inches of Water]



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2620 Commerce Way, Vista, CA 92081  
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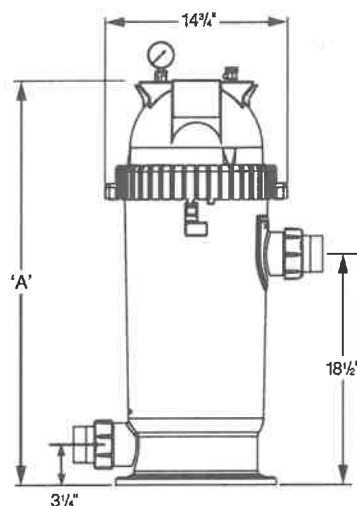
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# Technical Specifications

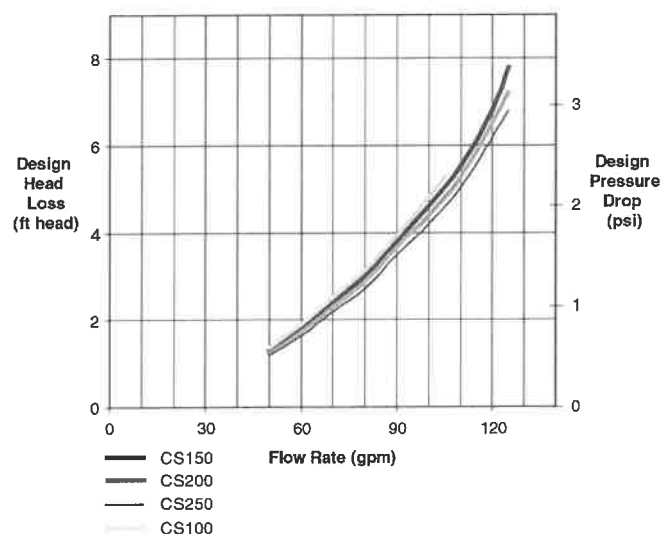
## CS Series Filters

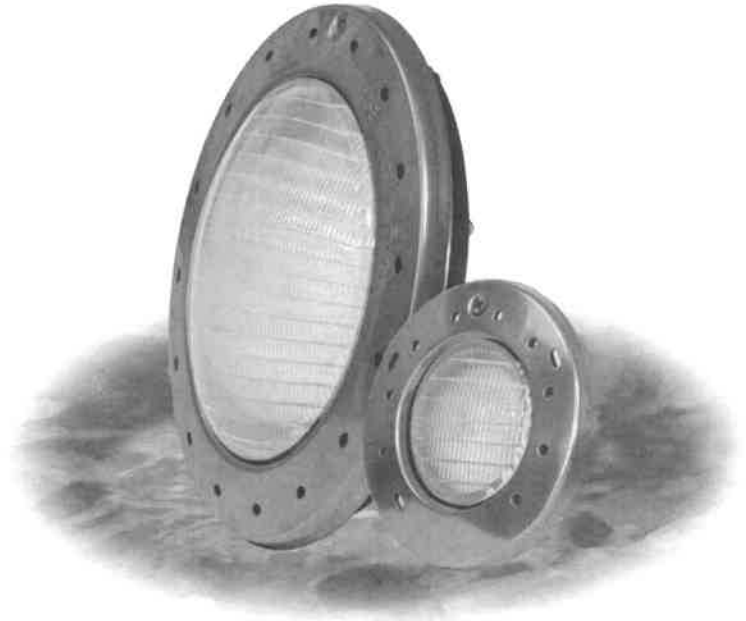


Part No.	Description	Size
CS100	CS Cartridge Filter	100 Sq. Ft.
CS150	CS Cartridge Filter	150 Sq. Ft.
CS200	CS Cartridge Filter	200 Sq. Ft.
CS250	CS Cartridge Filter	250 Sq. Ft.

Specifications and Dimensions, CS Series Filters				
Model No.	CS100	CS150	CS200	CS250
Filter Area	100 ft <sup>2</sup>	150 ft <sup>2</sup>	200 ft <sup>2</sup>	250 ft <sup>2</sup>
Design Flow Rate	1 gpm/ft <sup>2</sup>	.85 gpm/ft <sup>2</sup>	.625 gpm/ft <sup>2</sup>	.5 gpm/ft <sup>2</sup>
Maximum Flow	100 gpm	125 gpm	125 gpm	125 gpm
Six (6) Hour Capacity	36,000 gallons	45,000 gallons	45,000 gallons	45,000 gallons
Eight (8) Hour Capacity	48,000 gallons	60,000 gallons	60,000 gallons	60,000 gallons
Normal Start Up Pressure	6-15 psi	6-15 psi	6-15 psi	6-15 psi
Max. Working Pressure	50 psi	50 psi	50 psi	50 psi
Cartridges Required	1	1	1	1
Shipping Weight	28 lbs.	28 lbs.	34 lbs.	36 lbs.
Height ('A')	32 3/8"	32 3/8"	42 1/2"	42 1/2"

### CS Filter Head Loss Curves





## **Jandy Pro Series WaterColors LED Lights Underwater Large and Small Light**

### **⚠ WARNING**

**FOR YOUR SAFETY** - This product must be installed and serviced by a contractor who is licensed and qualified in pool equipment by the jurisdiction in which the product will be installed where such state or local requirements exist. The maintainer must be a professional with sufficient experience in pool equipment installation and maintenance so that all of the instructions in this manual can be followed exactly. Before installing this product, read and follow all warning notices and instructions that accompany this product. Failure to follow warning notices and instructions may result in property damage, personal injury, or death. Improper installation and/or operation will void the warranty.



Improper installation and/or operation can create unwanted electrical hazard which can cause serious injury, property damage, or death.

**ATTENTION INSTALLER** - This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment.

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## Section 1. Safety Information

### IMPORTANT SAFETY INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

#### READ AND FOLLOW ALL INSTRUCTIONS

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

#### WARNING

**RISK OF ELECTRICAL SHOCK OR ELECTROCUTION.** This underwater light must be installed by a licensed or certified electrician in accordance with the National Electrical Code and applicable local codes and ordinances. Improper installation will create an electrical hazard, which could result in death or serious injury to pool or spa users, installers, or others due to electrical shock, and may also cause damage to property. Read and follow the specific instructions below.

#### WARNING

Before installing this underwater light, read and follow all warning notices and instructions accompanying this light. Failure to follow safety warnings and instructions can result in severe injury, death, or property damage. Call (707) 776-8200 for additional free copies of these instructions.

#### CAUTION

Except when the Jandy Pro Series WaterColors LED Lights are installed in an area of the swimming pool that is not used for swimming and the lens is adequately guarded to keep any person from contacting it, the light shall be installed in or on a wall of the pool, with the top of the lens opening not less than 18 inches (457 mm) below the normal water level of the pool



#### ATTENTION INSTALLER

This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment.

#### NOTICE

The Jandy Pro Series WaterColors LED Lights are intended for installation in fresh water and salt water swimming pools. It is important to ensure that the wet niches in which the lights are installed are intended for their appropriate application, either fresh water or salt water pools.

**SAVE THESE INSTRUCTIONS**

## Section 2. Product Description and Model Numbers

Model #	WaterColors Light Size	Voltage	Amps	Cord Length	Face Ring Material
CPLVLEDS30	Large	12 Volt AC	4.0	30 feet	Stainless Steel
CPLVLEDS50	Large	12 Volt AC	4.0	50 feet	Stainless Steel
CPLVLEDS100	Large	12 Volt AC	4.0	100 feet	Stainless Steel
CPLVLEDP100	Large	12 Volt AC	4.0	100 feet	Plastic
CPLVLEDS50C	Large	12 Volt AC	4.0	50 feet	Stainless Steel
CPLVLEDS100C	Large	12 Volt AC	4.0	100 feet	Stainless Steel
CPLVLEDP100C	Large	12 Volt AC	4.0	100 feet	Plastic
CPHVLEDS30	Large	120 Volt AC	0.4	30 feet	Stainless Steel
CPHVLEDS50	Large	120 Volt AC	0.4	50 feet	Stainless Steel
CPHVLEDS100	Large	120 Volt AC	0.4	100 feet	Stainless Steel
CPHVLEDP100	Large	120 Volt AC	0.4	100 feet	Plastic
CPHVLEDS150	Large	120 Volt AC	0.4	150 feet	Stainless Steel
CPHVLEDS250	Large	120 Volt AC	0.4	250 feet	Stainless Steel
CPHVLEDS50C	Large	120 Volt AC	0.4	50 feet	Stainless Steel
CPHVLEDS100C	Large	120 Volt AC	0.4	100 feet	Stainless Steel
CPHVLEDP100C	Large	120 Volt AC	0.4	100 feet	Plastic
CSLVLEDS30	Small	12 Volt AC	2.0	30 feet	Stainless Steel
CSLVLEDS50	Small	12 Volt AC	2.0	50 feet	Stainless Steel
CSLVLEDS100	Small	12 Volt AC	2.0	100 feet	Stainless Steel
CSLVLEDP100	Small	12 Volt AC	2.0	100 feet	Plastic
CSLVLEDS50C	Small	12 Volt AC	2.0	50 feet	Stainless Steel
CSLVLEDS100C	Small	12 Volt AC	2.0	100 feet	Stainless Steel
CSLVLEDP100C	Small	12 Volt AC	2.0	100 feet	Plastic
CSHVLEDS30	Small	120 Volt AC	0.2	30 feet	Stainless Steel
CSHVLEDS50	Small	120 Volt AC	0.2	50 feet	Stainless Steel
CSHVLEDS100	Small	120 Volt AC	0.2	100 feet	Stainless Steel
CSHVLEDP100	Small	120 Volt AC	0.2	100 feet	Plastic
CSHVLEDS150	Small	120 Volt AC	0.2	150 feet	Stainless Steel
CSHVLEDS250	Small	120 Volt AC	0.2	250 feet	Stainless Steel
CSHVLEDS50C	Small	120 Volt AC	0.2	50 feet	Stainless Steel
CSHVLEDS100C	Small	120 Volt AC	0.2	100 feet	Stainless Steel
CSHVLEDP100C	Small	120 Volt AC	0.2	100 feet	Plastic



## Section 3. Installing Jandy Pro Series Light Fixture during New Construction

### **⚠ WARNING**

#### **Risk of Electrical Shock or Electrocution.**

This underwater light must be installed by a licensed or certified electrician or a qualified pool serviceman in accordance with the National Electrical Code and all applicable local codes and ordinances. Improper installation will create an electrical hazard, which could result in death or serious injury to pool or spa users, installers or others due to electrical shock, and may also cause damage to property.

Always disconnect the power to the color light at the circuit breaker before installing or servicing the light. Failure to do so could result in death or serious injury to serviceman, pool or spa users or others due to electrical shock.

### 3.1 Preparing the Light Fixture for Installation

**NOTE** The electrician must complete preparatory steps before light fixture is installed. See Figure 1.

Ensure that the pool meets the requirements of the current National Electrical Code and all local codes and ordinances. A licensed or certified electrician must install the electrical system to meet or exceed those requirements before the underwater light is installed. Some of the requirements of the National Electrical Code, which the pool electrical systems must meet, are as follows:

1. The lighting circuit must have a Ground Fault Circuit Interrupter (GFCI) for 120 volt models, and must have an appropriately rated circuit breaker.
2. The junction box (or, for 12 volt models, the low voltage transformer) must be located at least eight (8) inches above water level, at least four (4) inches above ground level, and at least four (4) feet from the edge of the pool. See Figure 1.
3. The light fixture and all metal items within five (5) feet of the pool must be properly electrically bonded to a reliable point of grounding.
4. The wet niche must be properly installed so that the top edge of the underwater light's lens is at least 18 inches below the surface of the water in the pool. See Figure 1.
5. The wet niche must be properly electrically bonded and grounded via the No. 8 AWG ground connector located at the rear of the niche. See Figure 1.

**NOTE** To be certain that the pool's electrical system meets all applicable requirements, the electrician should also consult the local building department.

Use only approved wet niches (see following note) to ensure a safe and proper installation.

**NOTE** Jandy Pro Series lights are ETL listed (ETL report/ file 3141154CHI) for installation with *only* the following manufacturer's wet niche fixtures:

#### **Large Niche Model Numbers:**

Jandy Pro Series: PLNICLRG, PLNICVFLRG, SSNICLRG1R, SSNICLRG1S

Pentair: 620004, 78210200 thru 700, 78210401, 79206700

Hayward DuraNiche: SP0600U

Sta-Rite: 05161-2352 thru 2369, 05163-2395 thru 2396

#### **Small Niche Model Numbers:**

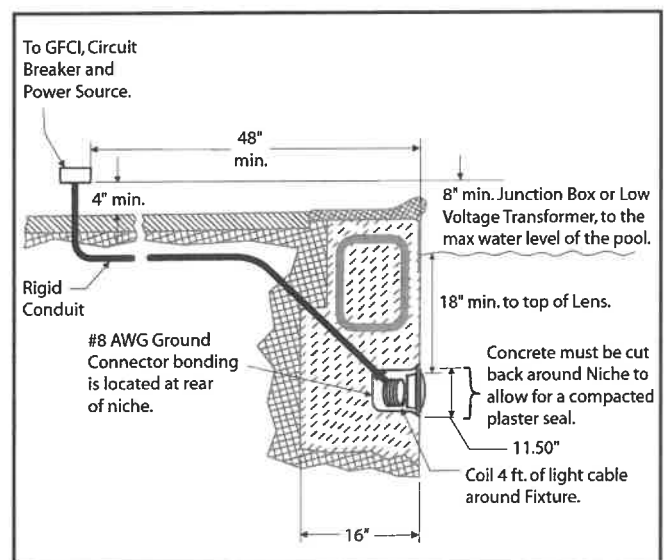
Jandy Pro Series: PLNICSM, SSNICSM, Pentair: 78241100, 78242200, 78242300

78243100 thru 300, 78244100 thru 300, 79206600

Hayward DuraNiche: SP0601U

Sta-Rite: 05166-1017 thru 1034, 05167-1035 thru 1037

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**Figure 1. Jandy Pro Series Digital Color Light Installation**

### 3.2 Installing the Light Fixture

**NOTE** Perform these steps *only* after the electrical system requirements are met.

1. Feed cord through conduit to junction box, leaving at least four (4) feet of cord at the light fixture to coil into the base of the light niche, see Figure 1. The four (4) feet of cord allows the light to be serviced after the pool is filled with water.
2. Cut the cord at the junction box, leaving at least six (6) inches of cord to make connections.
3. Strip six (6) inches of the outer cord jacket to expose the three insulated wires. *Be careful not to damage the insulation on the three (3) inner wires.*
4. Install strain relief over cord jacket and connect all three (3) wires to the corresponding circuit wires in the junction box. Install the junction box cover.
5. Coil the 4-foot length of cord around the fixture or into the base of the pool niche, and place the light assembly into the niche.
6. Engage the retainer tab on the bottom of the face ring, then pivot the top of the fixture inward and tighten the special pilot screw.

#### **WARNING**

Use only the special pilot screw provided with this underwater light. This screw mounts and electrically grounds the housing securely to the mounting ring and wet niche. Failure to use the screw provided could create an electrical hazard, which could result in death or serious injury to pool or spa users, installers or others due to electrical shock.

7. Fill the pool until the underwater light is completely submerged in water before operating the light for more than 10 seconds. Turn on main switch or circuit breaker, and the switch, which operates the underwater light, to check for proper operation. Refer to *Section 6, Operating Instructions*.

#### **WARNING**

Never operate this underwater light for more than 10 seconds unless it is totally submerged in water. Without total submersion, the light assembly will get extremely hot, which may result in serious burns or in breakage of the bulb or lens. This may result in serious injury to pool or spa users, installers, or bystanders or damage to property.

## Section 4. Replacing Jandy Pro Series Light Fixture in an Existing Pool or Spa

### **WARNING**

#### **Risk of Electrical Shock or Electrocution.**

This underwater light must be installed by a licensed or certified electrician or a qualified pool serviceman in accordance with the National Electrical Code and all applicable local codes and ordinances. Improper installation will create an electrical hazard, which could result in death or serious injury to pool or spa users, installers or others due to electrical shock, and may also cause damage to property.

Always disconnect the power to the color light at the circuit breaker before installing or servicing the light. Failure to do so could result in death or serious injury to serviceman, pool or spa users or others due to electrical shock.

### 4.1 Preparing the Light Fixture for Replacement

Verify that the pool meets the requirements of the current National Electrical Code® (NEC) and all local codes and ordinances. A licensed or certified electrician must install the electrical system to meet or exceed those requirements before the underwater light is installed. Some of the requirements of the National Electrical Code, which the pool's electrical system must meet, are as follows:

1. The lighting circuit must have a Ground Fault Circuit Interrupter (GFCI) for 120 volt models, and must have an appropriately rated circuit breaker.
2. The junction box (or, for 12 volt models, the low voltage transformer) must be located at least eight (8) inches above water level, at least four (4) inches above ground level or pool deck level, and at least 48 inches from the edge of the pool or spa. See Figure 1.
3. The light fixture and all metal items within five (5) feet of the pool must be properly electrically bonded to a reliable point of grounding.
4. The wet niche must be properly installed so that the top edge of the underwater light's lens is at least 18 inches below the surface of the water in the pool. See Figure 1.

5. The wet niche must be properly electrically bonded and grounded via the No. 8 AWG ground connector located at the rear of the niche. See Figure 1.

To be certain that the pool's electrical system meets all applicable requirements, the electrician should also consult the local building department.

## 4.2 Replacing the Light Fixture

**NOTE** Perform these steps *only* after the electrical system requirements are met.

### WARNING

Failure to bring the pool's electrical system up to code requirements before installing the underwater light will create an electrical hazard which could result in death or serious injury to pool or spa users, installers, or others due to electrical shock, and may also cause damage to property.

**NOTE** The light fixture may be replaced without removing water from the pool.

1. Turn off the **main** electrical switch or circuit breaker, as well as the switch, which operates the underwater light.
2. Unscrew the special pilot screw at top of the face ring and remove the light assembly from the niche, and place the assembly on the deck.

### WARNING

Be sure to keep the special pilot screw provided with this underwater light. This screw mounts and electrically grounds the housing securely to the mounting ring and wet niche. Failure to use the screw provided could create an electrical hazard, which could result in death or serious injury to pool or spa users, installers or others due to electrical shock.

3. Remove Junction Box cover, disconnect the light fixture wires and strain relief, and then pull the cord out of the conduit from the niche.
4. Feed the new light fixture cord through the conduit from the niche to the Junction Box.

**NOTE** Depending on the length of the conduit, special tools may be required to pull the cord through the conduit.

5. Leave at least four (4) feet of cord to coil around the light fixture or coiled into the base of the light niche, see Figure 1. This allows the light to be serviced after the pool is filled with water.

6. Cut the cord at the Junction Box, leaving at least six (6) inches of cord to make connections.
7. Strip six (6) inches of the outer cord jacket from the cord to expose the three insulated wires. *Be careful not to damage the insulation on the three (3) inner wires.*
8. Install the strain relief over the cord jacket and connect all three wires to the corresponding circuit wires in the junction box. Install the junction box cover.
9. Reinstall the light assembly into the niche and tighten the special pilot screw.

### WARNING

Use only the special pilot screw provided with this underwater light. This screw mounts and electrically grounds the housing securely to the mounting ring and wet niche. Failure to use the screw provided could create an electrical hazard, which could result in death or serious injury to pool or spa users, installers or others due to electrical shock.

10. Fill the pool until the underwater light is completely submerged in water before operating the light for more than 10 seconds. Turn on main switch or circuit breaker, as well as the switch, which operates the underwater light, to check for proper operation. Refer to *Section 6, Operating Instructions*.

### WARNING

Never operate this underwater light for more than 10 seconds unless it is totally submerged in water. Without total submersion, the light assembly will get extremely hot, which may result in serious burns or in breakage of the bulb or lens. This may result in serious injury to pool or spa users, installers, or bystanders or in damage to property.

## Section 5. Wiring Options for Controlling Jandy Pro Series WaterColors LED Lights

**NOTE** The Jandy Pro Series WaterColors Lights will not operate properly with light dimmers. *Do not wire the Jandy Pro Series Lights to any dimming circuitry.*

To the extent allowed by code and capacity of the electrical equipment, multiple Jandy Pro Series lights may be controlled with a single switch so their colors will *always* be synchronized.

Separate switches may be used to control the on/off and color functions of each Jandy Pro Series light. It is recommended that these switches be located next to each other to facilitate simple color synchronization when desired. All switches *must be operated at the same time to assure color synchronization*. Otherwise, the lights will work independently of each other.

### 5.1 Wiring to an AquaLink® RS Control System

The Jandy Pro Series WaterColors Lights can be wired into the Jandy Pro Series AquaLink RS control system to provide simplified operation of the lights, as well as a means to synchronize the color change function. Connect the lights to one of the auxiliary relays in the Power Center.

**NOTE** It is recommended to connect one light per relay so each light can be controlled separately. However, up to four lights can be connected on a single relay. If there are more than four lights installed on one AquaLink RS system, ensure there is more than one auxiliary relay available in the Power Center.

Refer to Figures 2 and 3 to connect the Jandy Pro Series Color Lights to the Power Center.

### CAUTION

A Ground Fault Circuit Interrupter (GFCI) must be provided for 120 volt models. The conductors on the load side of the GFCI circuit shall not occupy conduit, boxes, or enclosures containing other conductors unless the additional conductors are also protected by a GFCI. Refer to local codes for complete details.

**NOTE** The Jandy Pro Series WaterColors Lights are available in 120-volt and 12-volt versions. If installing a 12-volt light, a 120-volt/12-volt step-down (AC) transformer *must* be used. For more information about 12-volt installations, refer to *Section 8* of this manual.

### 5.2 Wiring to a Time Clock

The Jandy Pro Series WaterColors Lights can be wired into a basic time clock to automatically turn on the lights at a predesignated time. Refer to Figure 4 to connect the lights into the time clock.

### 5.3 Wiring to a Switch

The Jandy Pro Series WaterColors Lights can be wired into a switch to manually turn on/off the lights. Refer to Figure 5 to connect the lights into the switch.

## Section 6. Jandy Pro Series WaterColors LED Light Operating Instructions

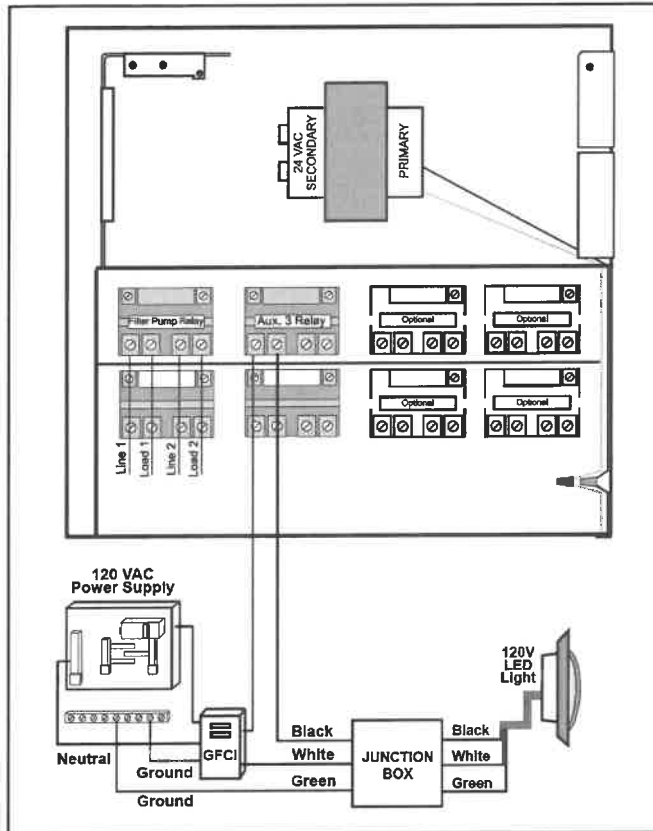
### 6.1 To Operate the Light and Change Colors

Turn the light ON. The *first* time the light is turned on, the color sequence begins with the Alpine White. To change the color, turn the light OFF and then ON within three (3) seconds. Continue turning OFF and ON until the desired light color mode is reached. See Table 1 for the color mode sequence.

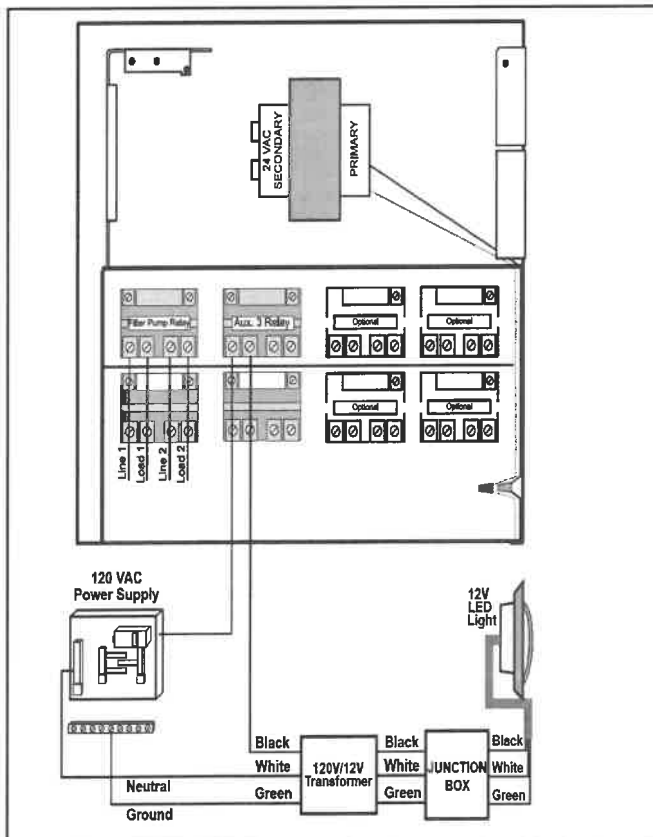
**Table 1. Jandy Pro Series WaterColors Lights Sequence**

Sequence Order	Color Modes
1	Alpine White
2	Sky Blue
3	Cobalt Blue
4	Caribbean Blue
5	Spring Green
6	Emerald Green
7	Emerald Rose
8	Magenta
9	Violet
10	Slow Color Splash
11	Fast Color Splash
12	America the Beautiful
13	Fat Tuesday
14	Disco Tech

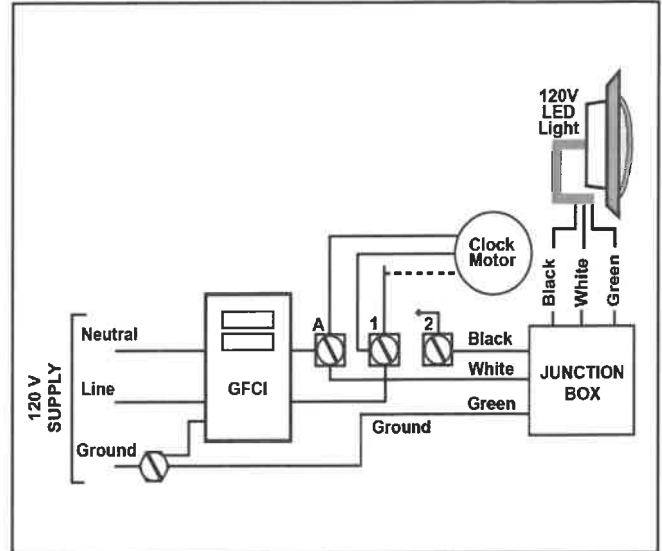
**NOTE** When the light is turned OFF for more than seven (7) seconds, it will remain in the color set that is currently active. When the light is turned back ON, the light will be on the same color set.



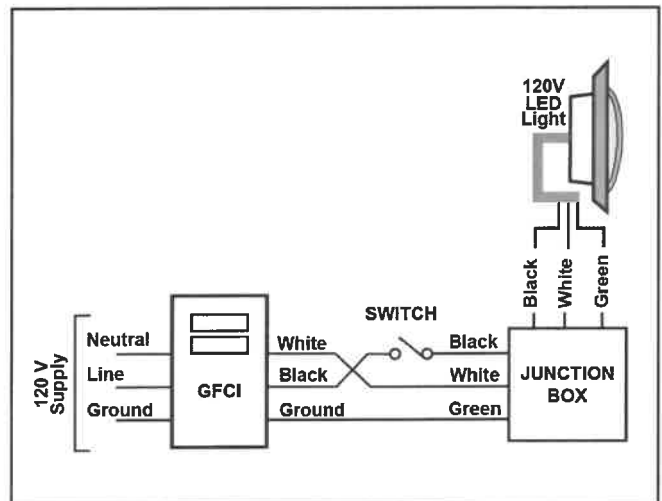
**Figure 2. 120-Volt Jandy Pro Series WaterColors Light Wiring Diagram**



**Figure 3. 12-Volt Jandy Pro Series WaterColors Light Wiring Diagram**



**Figure 4. Wiring the Jandy Pro Series WaterColors Light to a Time Clock**



**Figure 5. Wiring the Jandy Pro Series WaterColors Light to a Switch**

## 6.2 To Reset to the Beginning of the Color Sequence

Turn the light OFF, wait four (4) to five (5) seconds, then turn ON, the light will return to the beginning of the color cycle (Alpine White).

**NOTE** If an AquaLink RS control system is being used the color set can be selected using the indoor controller.

**NOTE** To synchronize colors on multiple Jandy Pro Series WaterColors Light systems wired to separate switches, perform the above actions on all of their switches simultaneously. All Jandy Pro Series WaterColors Lights will synchronize automatically if activated by the same switch. No other accessories are required.

**Table 2. Light Specifications**

Jandy Pro Series Model	Fixture Voltage	Light Engine (PCB) Part Number
WaterColors Large Light	12 Volt AC	R0474000
WaterColors Large Light	120 Volt AC	R0474100
WaterColors Small Light	12 Volt AC	R0473900
WaterColors Small Light	120 Volt AC	R0473900

## Section 7. Replacing Light Engine (PCB)

### WARNING

Always disconnect power to the color light at the circuit breaker before servicing the light. Failure to do so could result in death or serious injury to installer, serviceman, pool or spa users or others due to electrical shock.

1. Turn off the main electrical switch or circuit breaker, as well as the switch, which operates the underwater light.
2. Be sure to have the following items:
  - A new lens gasket, P/N R0451101 for the large light or P/N R0400501 for the small light.
  - A light engine. See Table 2 for specification.

### WARNING

Replace light engine with the same type. Failure to replace the light engine with the same type will damage the light assembly and may cause an electrical hazard resulting in death or serious injury to pool or spa users, installers, or others due to electrical shock, and may also cause damage to property. Be sure the power is switched OFF before removing or installing PCB. Allow PCB to cool before replacing.

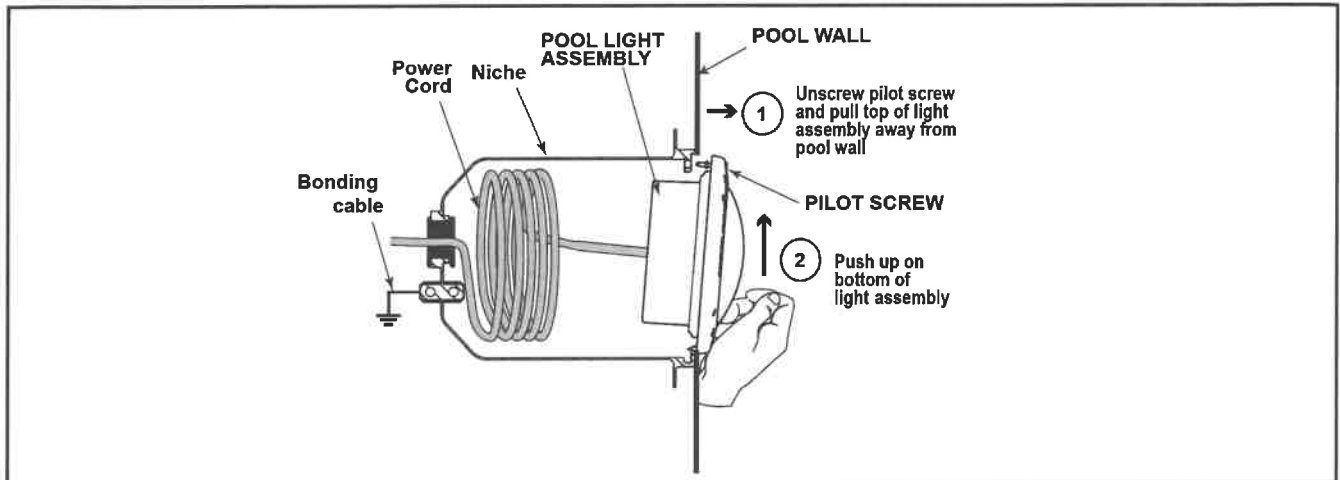
3. To remove the light assembly, unscrew the special pilot screw at the top of the face ring, remove light assembly from niche and gently place assembly on the deck. It is not necessary to drain down the pool. See Figure 6.

### WARNING

Be sure to keep the special pilot screw from this underwater light. This screw mounts and electrically grounds the housing securely to the mounting ring and wet niche. Failure to use the screw provided could create an electrical hazard, which could result in death or serious injury to pool or spa users, installers or others due to electrical shock.

4. Pool Clamp Removal.
  - a. Loosen the Phillips head screws (six (6) for small light, eight (8) for large light) to allow the bottom clamp to be removed from the face ring assembly. Do not remove the screws or the retaining rings. The retaining rings prevent the screws from falling free from the bottom clamp and also aid in ease of assembly.
  - b. Remove the bottom clamp, the face ring assembly, the glass lens, and the gasket from the fixture. Remove the gasket from the lens. Refer to *Section 9, Exploded View and Replacement Parts*.
5. Light Engine Replacement
  - a. 12V Small Light Engine (PCB) Replacement
    1. Remove two (2) nuts and two (2) washers.
    2. Unplug the quick disconnect terminals from the light engine.
    3. Remove the light engine from the light fixture.
    4. Place new light engine into the fixture with the orientation shown in Figure 7.
    5. Secure the light engine with one (1) nylon washer and one (1) nut. Torque to 12 in-lbs.
    6. Place a nylon washer on the other stud and place the green ground wire terminal on the nylon washer and secure both with the nut. Torque to 12 in-lbs.





**Figure 6. Removing the Jandy Pro Series WaterColors Light Assembly for Light Engine Replacement**

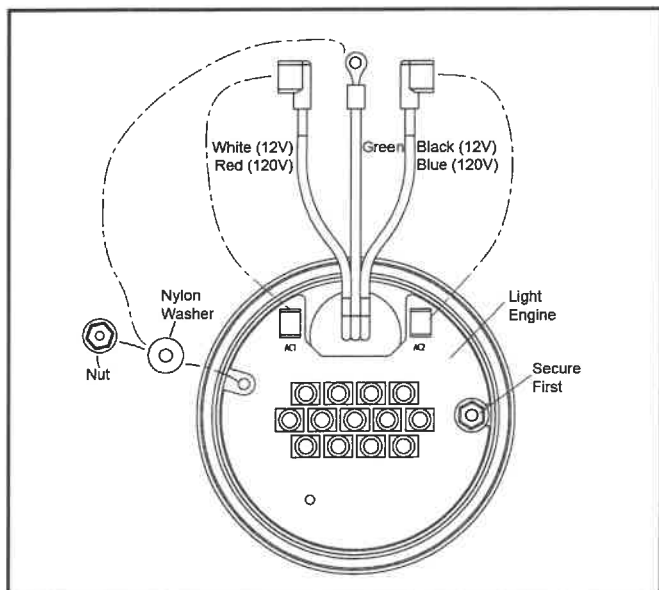
7. Plug in the quick disconnect wire (white for the 12V and red for the 120V) onto the terminal (AC1) of the light engine.
8. Plug in the quick disconnect wire (black for the 12V and blue for the 120V) onto terminal (AC2) of the light engine.
- b. Large Light Engine (PCB) Replacement (120V and 12V)
  1. Remove three (3) nuts and washers.
  2. Unplug the quick disconnect terminals from the PCB.
  3. Remove the light engine from the light fixture.
  4. Place new light engine into the fixture with the orientation shown in Figure 8.
  5. Secure the new light engine (PCB) with two (2) nylon washers and two (2) nuts. Torque to 12 in-lbs.
  6. Plug in the white quick disconnect wire onto the terminal (J2) of the light engine.
  7. Plug in black quick disconnect wire onto terminal (J6) of the light engine for the 12V models; or terminal (J3) of the light engine for 120V models.
  - 8a. For 12V models, place a nylon washer on the stud and place the green ground wire terminal on the nylon washer and secure both with the nut. Torque to 12 in-lbs.
  - 8b. For 120V models, place the green ground wire on the stud and secure with the nut. Torque to 12 in-lbs.
6. Reassemble the fixture.
  - a. If not already done, remove the gasket from the glass lens and install a new gasket, P/N R0451101 for the large light and R0400501 for the small light, on the lens. On the small light, remove the diverger from the lens.

**NOTE** A new lens gasket must be used each time the light is reassembled.

## ⚠ WARNING

**Risk of Electrical Shock or Electrocutation.** Always install a new lens gasket whenever disassembling the light (Jandy Color Light Gasket P/N R0451101 for large light and P/N R0400501 for small light). Failure to do so may permit water to leak into the assembly, which could cause:

- (a) An electrical hazard resulting in death or serious injury to pool or spa users, installers, or others due to electrical shock, or
- (b) A malfunction of the Jandy WaterColors Light, which likewise could result in serious injury to pool or spa users, installers, or bystanders, or in damage to property.

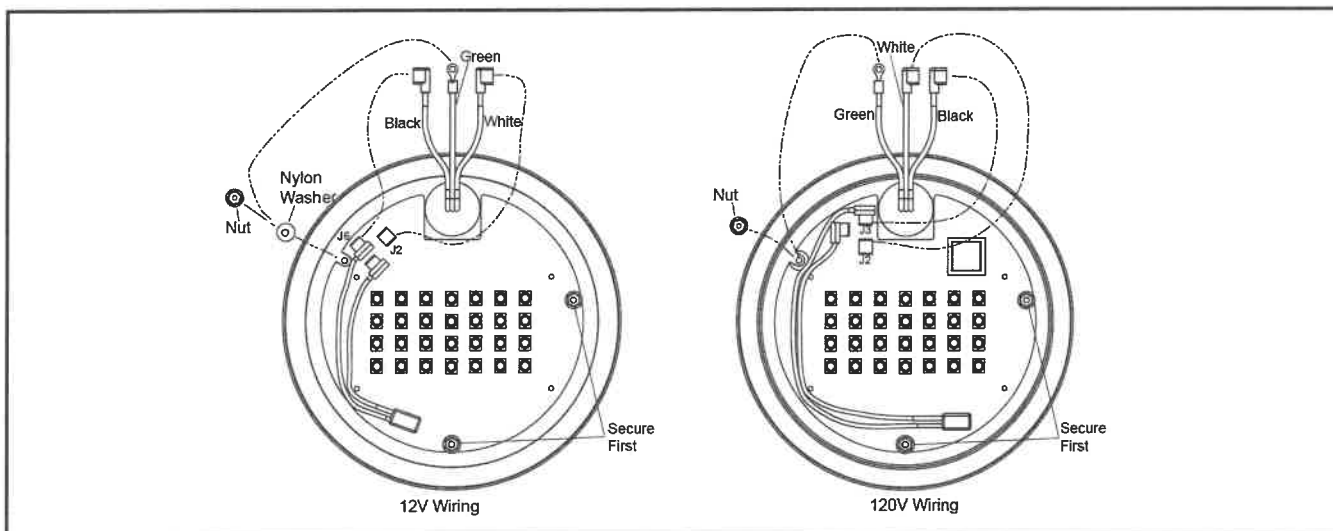


**Figure 7. Small Light Engine (PCB) Replacement and Wiring**

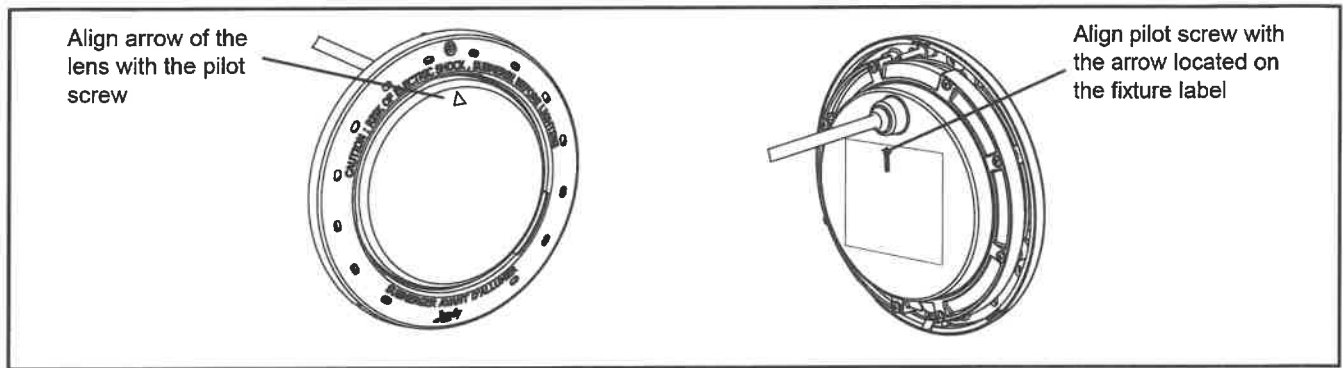
- b. While holding the fixture upright, place the glass lens with the gasket on top of the fixture. Please note that the lens gasket is not symmetrical. Therefore, it must be installed correctly so that the lens can seal to the fixture housing. Place the gasket on the lens so that the thick molded side of the gasket will mate with the housing when the lens is installed, see Figure 10. On the small light, replace the diverger by tucking the tabs between the lens and gasket.

**NOTE** Be sure to face the dull side of the diverger down towards the PCB.

- c. Position the lens and gasket on the fixture. Place the face ring assembly over the lens and align the pilot screw with the small arrow mark on the face of the lens. Note that the small arrow mark on the face of the lens and the pilot screw of the face ring must be aligned with the arrow located on fixture label that reads, "Arrow on this label must line up with the pilot screw on the Face Ring". See Figure 9.
- d. While holding the aligned face ring assembly and fixture together, turn the assembly upside down and set it on the old gasket, using the old gasket as an assembly fixture. This will keep the lens and gasket assembly from being pushed out of the face ring while you secure it to the light fixture.
- e. Spread the bottom clamp over the electrical cord and slide it onto the back of fixture to the top clamp.
- f. Tighten the Phillips head screws (eight (8) for large light and six (6) for small light) on the light in alternating cross-pattern. Torque screws to approximately 20 in-lbs. Do not over-tighten.
- g. Discard the old gasket.



**Figure 8. Large Light Engine (PCB) Replacement and Wiring**



**Figure 9. Alignment of the Lens, Face Ring, Housing and Clamps for WaterColors Lights**

7. Reinstall the Jandy Pro Series Light into niche fixture.
  - a. Coil the extra four (4) feet of cord around the fixture or into the base of the niche and place the light assembly into the niche.
  - b. Engage the retainer tab on the bottom of the face ring, then pivot the top of the fixture inward and tighten the special pilot screw.

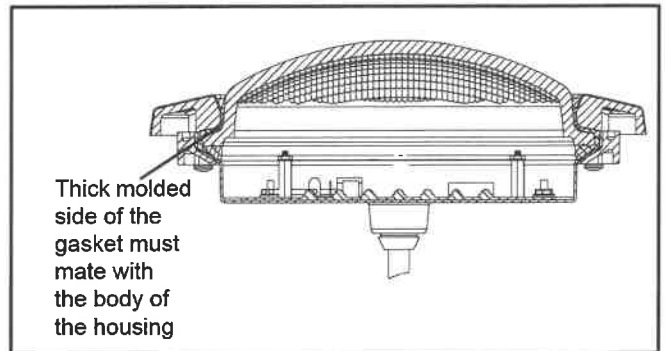
### **⚠ WARNING**

Use only the special pilot screw provided with this underwater light. This screw mounts and electrically grounds the housing securely to the mounting ring and wet niche. Failure to use the screw provided could create an electrical hazard, which could result in death or serious injury to pool or spa users, installers or others due to electrical shock.

8. If pool is empty, fill the pool until the underwater light is completely submerged in water before operating the light for more than 10 seconds. Turn on main switch or circuit breaker, as well as the switch, which specifically operates the underwater light, to check for proper operation.

### **⚠ WARNING**

Never operate this underwater light for more than 10 seconds unless it is totally submerged in water. Without total submersion, the light assembly will get extremely hot, which may result in serious burns or in damage to the light. This may result in serious injury to pool or spa users, installers, or bystanders or in damage to property.



**Figure 10. Cross Section of Jandy Pro Series WaterColors LED Light**

## **Section 8. Twelve (12) Volt Installation**

A separate 12-Volt AC Transformer is required on all 12-Volt Models. For Jandy Pro Series WaterColors Light use a 150-watt multi-tap 12-volt system per light.

**NOTE** For optimum performance Jandy Pro Series recommends to use one transformer per 12-volt light.

To ensure maximum safety, it is strongly recommended that a transformer that has been listed or recognized by a Nationally Recognized Testing Laboratory (NRTL) for the application be used.

## Section 9. Exploded View and Replacement Parts

### 9.1 Jandy Pro Series Large WaterColors LED Light

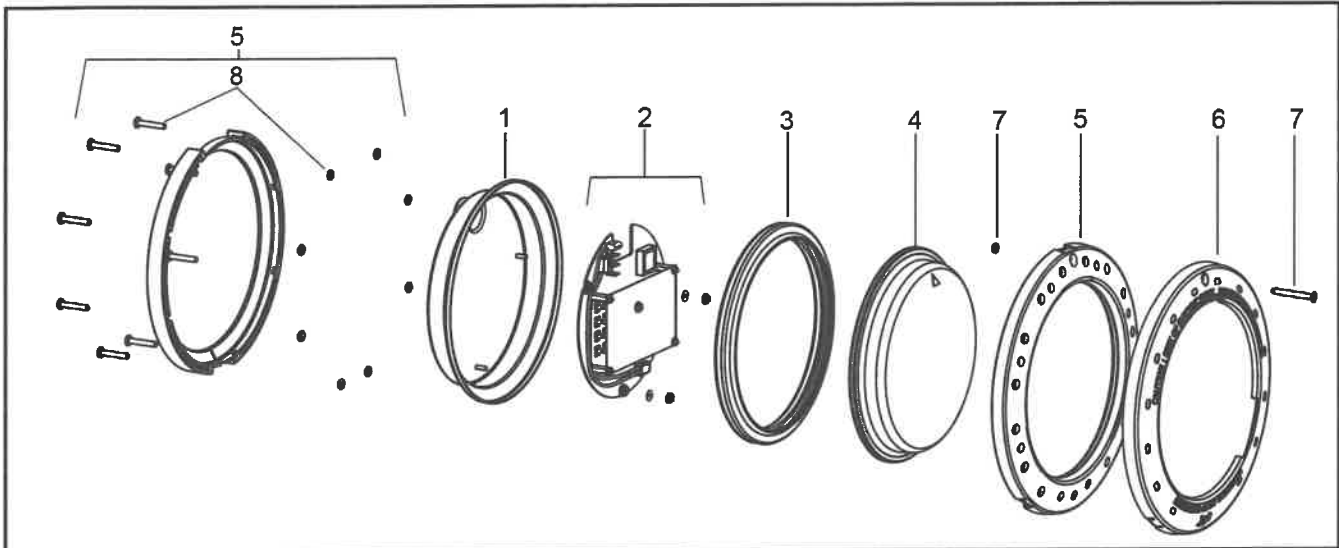


Figure 11. Jandy Pro Series Large WaterColors LED Light Exploded View

DWG #	Part #	Description	Field Replaceable
1	N/A	WaterColors Light Housing	<i>NO - Purchase New Light</i>
2	R0474000	Light Engine PCB, 12V Large LED Light w/ Light Shaping Diverger	YES
2	R0474100	Light Engine PCB, 120V Large LED Light W/ Light Shaping Diverger	YES
3	R0451101	Silicone Gasket	YES
4	R0450601	Glass Lens	YES
5	R0450701	Clamp Assembly	YES
6	R0450801	Face Ring, Stainless Steel (SS)	YES
6	R0450802	Face Ring, Plastic, Whitet	YES
6	R0450803	Face Ring, Plastic, Black	YES
6	R0450804	Face Ring, Plastic, Gray	YES
6	R0450805	Face Ring, Plastic Set	YES
7	R0450901	Pilot Screw, with Retainer	YES
8	R0451001	Clamp Screws (8 Screws and 8 Retainers)	YES

## 9.2 Jandy Pro Series Small WaterColors LED Light

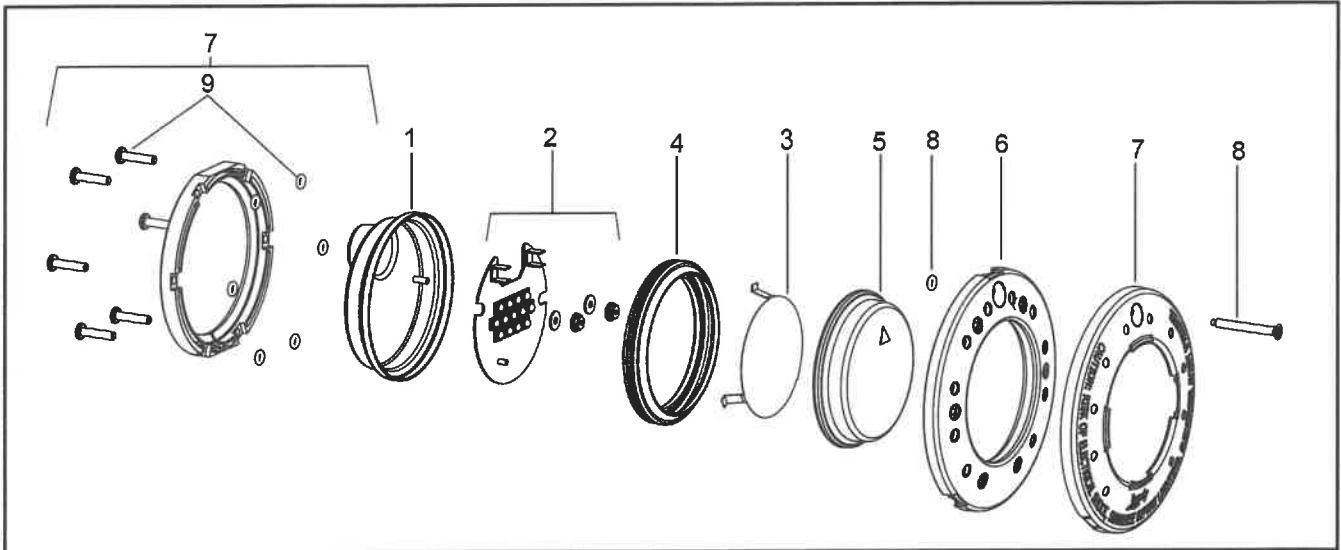


Figure 12. Jandy Pro Series Small WaterColors LED Light Exploded View

DWG #	Part #	Description	Field Replaceable
1	N/A	WaterColors Light Housing	NO - Purchase New Light
2	R0473900	Light Engine, 12V/120V Small LED Light	YES
3	R0474200	Diverger, Light Shaping, Small LED Light	YES
4	R0400501	Silicone Gasket	YES
5	R0400601	Glass Lens	YES
6	R0451201	Clamp Assembly	YES
7	R0451301	Face Ring, Stainless Steel (SS)	YES
7	R0451302	Face Ring, Plastic, White	YES
7	R0451303	Face Ring, Plastic, Black	YES
7	R0451304	Face Ring, Plastic, Gray	YES
7	R0451305	Face Ring, Plastic Set	YES
8	R0450901	Pilot Screw, with Retainer	YES
9	R0451401	Clamp Screws (6 Screws and 6 Retainers)	YES

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## OWNER'S MANUAL

ENGLISH | FRANÇAIS | ESPAÑOL



# Jandy Pro Series Nicheless LED Underwater Light

### **WARNING**

**FOR YOUR SAFETY** - This product must be installed and serviced by a contractor who is licensed and qualified in pool equipment by the jurisdiction in which the product will be installed where such state or local requirements exist. The maintainer must be a professional with sufficient experience in pool equipment installation and maintenance so that all of the instructions in this manual can be followed exactly. Before installing this product, read and follow all warning notices and instructions that accompany this product. Failure to follow warning notices and instructions may result in property damage, personal injury, or death. Improper installation and/or operation will void the warranty.

Improper installation and/or operation can create unwanted electrical hazard which can cause serious injury, property damage, or death.

**ATTENTION INSTALLER** - This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment.

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## Section 1. Important Safety Instructions

### IMPORTANT SAFETY INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS READ AND FOLLOW ALL INSTRUCTIONS

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

#### **DANGER**

**RISK OF ELECTRICAL SHOCK OR ELECTROCUTION.** This underwater light must be installed by a licensed or certified electrician in accordance with the National Electrical Code® and applicable local codes and ordinances. In Canada, the Canadian Electrical Code and all applicable local codes and ordinances must be adhered to. Improper installation will create an electrical hazard, which could result in death or serious injury to pool or spa users, installers, or others due to electrical shock, and may also cause damage to property. Read and follow the specific instructions below.

#### **WARNING**

Before installing this underwater light, read and follow all warning notices and instructions accompanying this light. Failure to follow safety warnings and instructions can result in severe injury, death, or property damage.

Visit [www.zodiacpoolsystems.com](http://www.zodiacpoolsystems.com) for additional free copies of these instructions or call Zodiac Technical Support at 800.822.7933 (U.S.) or 888.647.4004 (Canada)

#### **CAUTION**

Except when the Jandy® Pro Series Nicheless Underwater LED Lights are installed in an area of the swimming pool that is not used for swimming and the lens is adequately guarded to keep any person from contacting it, the light shall be installed in or on a wall of the pool, with the top of the lens opening not less than 4 inches (102 mm) below the normal water level of the pool.

#### **ATTENTION INSTALLER**

This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment.

**SAVE THESE INSTRUCTIONS**

**⚠ WARNING**

**RISK OF ELECTRICAL SHOCK OR ELECTROCUTION**, which could result in serious injury or death. The Jandy® Pro Series Nicheless LED Lights are only available for 12-volt AC power. For supply connection, use only an isolating low voltage power supply with ungrounded output, evaluated and listed by a NRTL for swimming pool use.

## Section 2. General Description

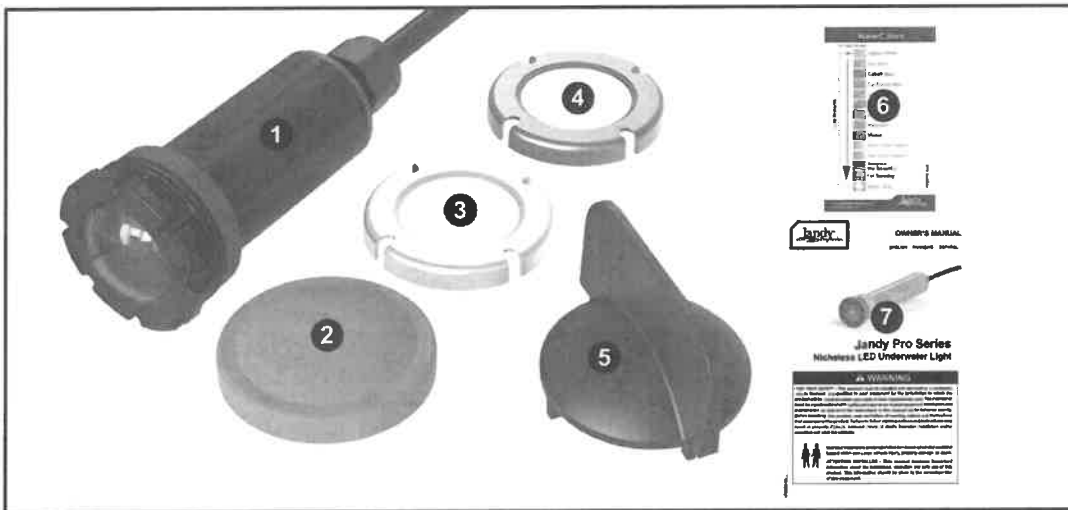
### 2.1 Product Overview

This manual provides instructions for installing and replacing the Jandy Pro Series Nicheless Underwater LED Lights for pool and spa use.

**CAUTION**

The Jandy Pro series nicheless LED underwater lights are not serviceable and therefore contain no serviceable parts. In order to prevent risk of property damage and/or injury, no service should be attempted to the light in the event of a malfunction. The complete light assembly must be replaced.

### 2.2 Product Contents



- 1 - Jandy Pro Series Nicheless Underwater LED Light
- 2 - Protective Cover (See Page 7)
- 3 - White Cosmetic Cover (See Page 7)
- 4 - Gray Cosmetic Cover (See Page 7)
- 5 - Installation Tool (See Page 7)
- 6 - Quick Reference Guide
- 7 - Nicheless LED Underwater Light Owner's Manual

## Section 3. Installing the Jandy Pro Series Nicheless LED Light

### WARNING

**Risk of Electrical Shock or Electrocution.** This underwater light must be installed by a licensed or certified electrician or a qualified pool serviceman in accordance with the National Electrical Code® (Canadian Electrical Code, in Canada) and all applicable local codes and ordinances. Improper installation will create an electrical hazard, which could result in death or serious injury to pool or spa users, installers or others due to electrical shock, and may also cause damage to property.

Always disconnect the power to the light at the circuit breaker before installing or servicing the light. Failure to do so could result in death or serious injury to serviceman, pool or spa users or others due to electrical shock.

**NOTE:** Jandy Pro Series Nicheless Lights are Low Voltage and do not have any exposed metal and as such do not require a separate ground or bonding wire.

### 3.1 Preparing the Light Fixture for Installation

**NOTE:** The electrician must complete preparatory steps before light fixture is installed. See Figure 1.

Verify that the pool meets the requirements of the current National Electrical Code® (Canadian Electrical Code, in Canada) and all local codes and ordinances. A licensed or certified electrician must install the electrical system to meet or exceed those requirements before the underwater light is installed. Some of the requirements of the National Electrical Code, which the pool electrical systems must meet, are as follows:

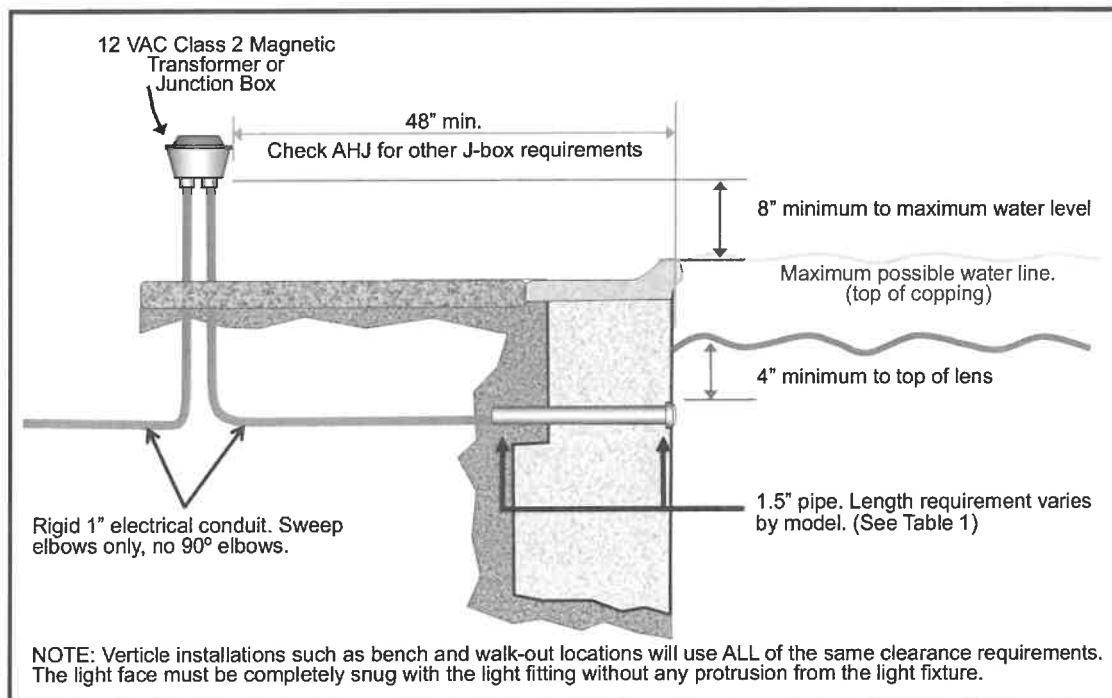
1. The junction box or the low-voltage magnetic transformer must be located at least eight (8) inches (measured from the inside of the bottom of the junction box or transformer) above the MAXIMUM water level, OR at least four (4) inches above the ground level or pool deck, whichever is greater. The junction box or 12VAC magnetic transformer must also be installed at least forty-eight (48) inches (4 ft.) from the edge of the pool. See Figure 1.
2. 1.5" pipe must be installed through the bond beam followed by 1" conduit for the cord using sweep elbows only for turns. Do not use 90 degree elbows. It is highly recommended to use 1.5" pipe throughout the entire width of the bond beam, however, the minimum length for the particular light being installed is specified in Table 1.

3. A standard 1.5" plastic wall / return fitting (not included) must be installed so that the top edge of the underwater light's lens is at least 4 inches (10.2 cm) below the surface of the water in the pool.

See Figure 1.

**NOTE:** For optimal lighting results it is recommended to place lights 12-18" below the water line.

**NOTE:** To be certain that the pool's electrical system meets all applicable requirements, the electrician should also consult the local building department.



**Figure 1. Jandy® Pro Series LED Light Installation with Standard 1.5" Plastic Fitting**

Use the chart below to determine the appropriate pipe length for your installation.

WATTS	MINIMUM LENGTH FOR 1.5" PIPE
6W	7"
12W	10"
24W	10"
All products listed above come in a variety of cord lengths. Cord lengths come in 50, 100 & 150 feet lengths.	

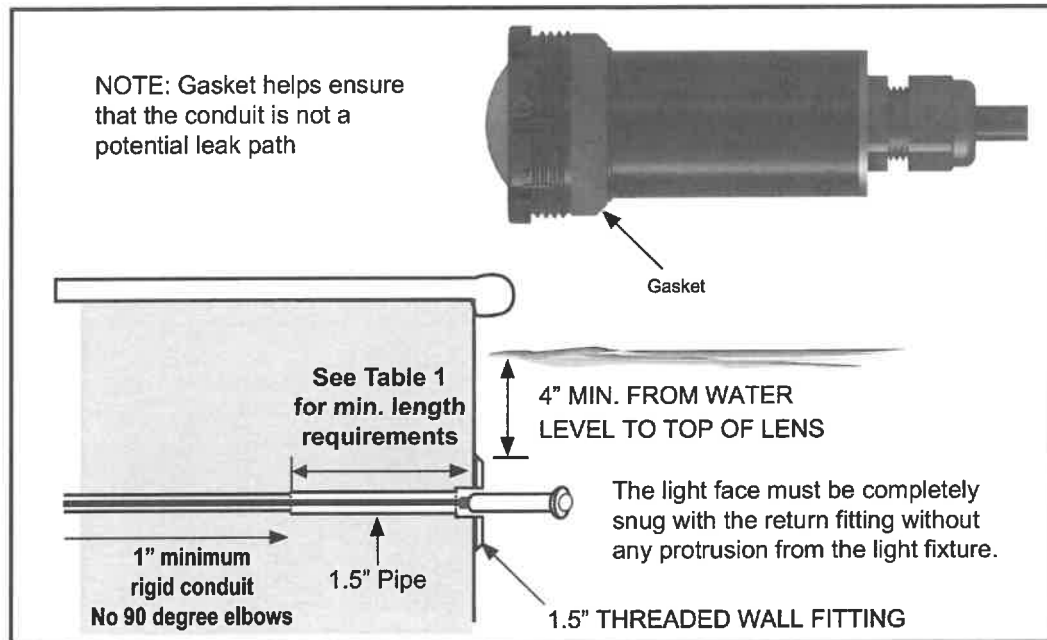
**Table 1. Jandy® Pro Series LED Light Minimum 1.5" pipe length**



### 3.2 Installing the Light Fixture

**NOTE:** Perform these steps *only* after the electrical system requirements are met.

1. Keep protective cover on to protect the light during installation.

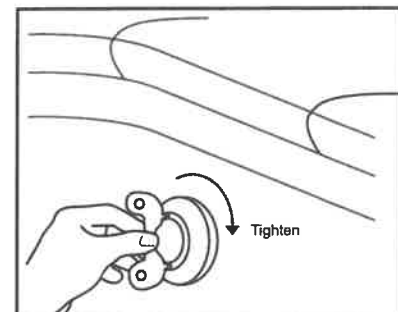


**Figure 2. Standard installation with 1.5" pool wall fitting**

2. Snake the electric cord through the conduit outlet of the wall fitting, into the conduit and up to the location of the pool transformer. Cut the cord 18"-24" beyond the length needed to reach the transformer to allow for a service loop. Pull the fixture snug to the wall fitting.
3. Remove protective cover once light has been pulled into the fitting.
4. Install cosmetic cover if desired.

**NOTE:** When using a 1 1/2" MIP fitting on the back of a SP-1022 or SP-1408 Wall Fitting, the interior of the Spears and Dura MIP are too small for use with the Jandy® Pro Series Nicheless LED Lights.

5. Using the included installation tool, thread the light into the wall fitting until it is snug. The light face must be completely flush with the return fitting. Please provide the pool owner with a minimum of 1 key upon job completion.



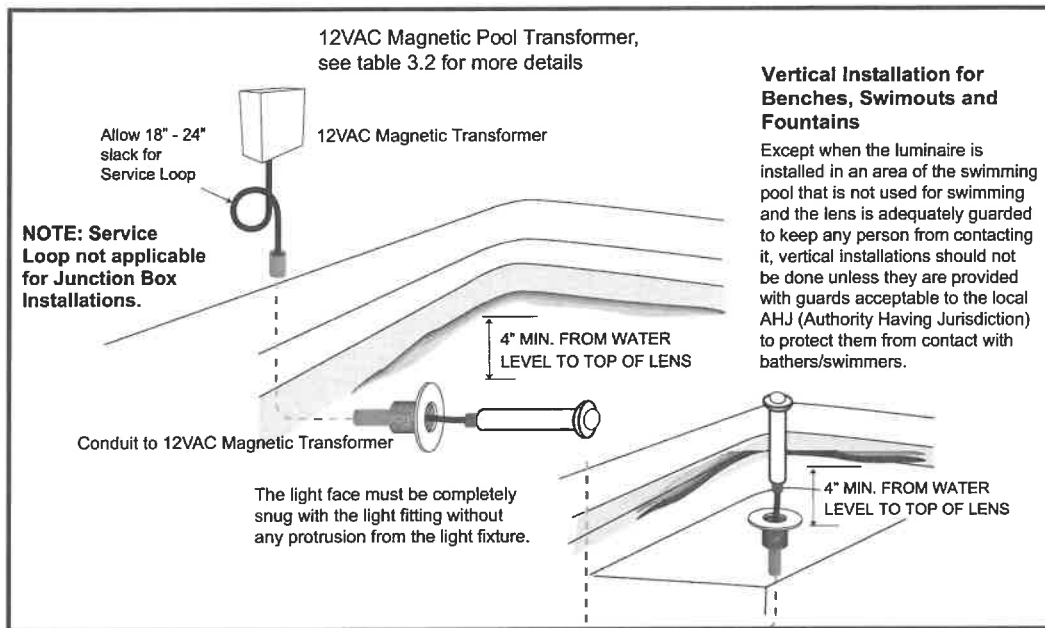


Figure 3. Standard installation with 1.5" pool wall fitting

## Section 4. Wiring Options for Controlling Jandy® Pro Series Nicheless LED Lights

**NOTE:** Always consider the cable length when calculating the input voltage at the transformer. The maximum run of service between transformer and lights should not exceed 150ft. in length, inclusive of the use of a J Box or not.

To the extent allowed by local installation codes in effect in the installation jurisdiction and capacity of the electrical equipment, multiple Jandy Pro Series lights may be controlled with a single switch and a 12VAC magnetic transformer so their colors may be synchronized.

**IMPORTANT NOTE:** All fixtures must be tied into the same transformer, circuit or switch for synchronization to occur. The use of Solid Core over Stranded wire and terminating Bus Bars is strongly recommended.

### 4.1 Wiring to an AquaLink® Controller

The Jandy Pro Series Nicheless LED Lights can be controlled by an AquaLink controller. Connect the transformer powering the lights to one of the auxiliary relays in the AquaLink.

Refer to Figure 4 to connect the Jandy Pro Series Nicheless LED Lights to the Power Center.

## 4.2 Wire Gauge and Length

### CAUTION

Jandy® Pro Series Nicheless Underwater LED Lights are low voltage fixtures. Improper wire gauge and wire length can effect the performance of these products. Follow the guidelines below to determine the proper operation and optimum performance of the lights.

Voltages are determined by the measured voltage level at the Bus Bar where the transformer and cords are connected.

**NOTE:** Each color mode has a slightly different power draw

6W & 12W lights: Min/Max Voltage per cord length		
Cord Length	Min. Voltage	Max. Voltage
50 Feet	9.4VAC	12.4VAC
100 Feet	10.7VAC	13.2VAC
150 Feet	11.82VAC	13.8VAC

24W Lights: Min/Max Voltage per cord length		
Cord Length	Min. Voltage	Max. Voltage
50 Feet	10.34VAC	12.56VAC
100 Feet	10.9VAC	13.5VAC
150 Feet	11.43VAC	14.1VAC

Table 2. Jandy® Pro Series LED Light Voltage Min/Max Levels

### WARNING

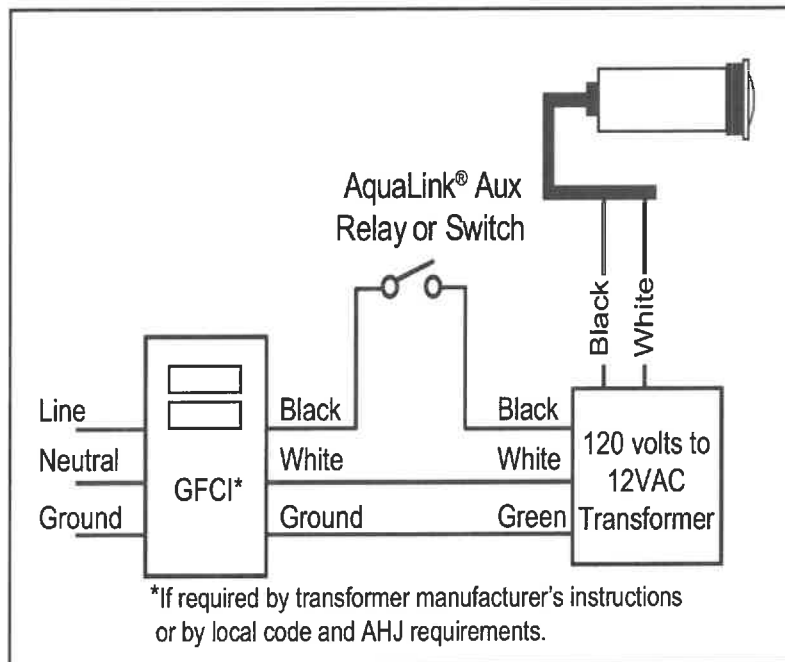
**RISK OF ELECTRICAL SHOCK OR ELECTROCUTION,** which could result in serious injury or death. A Ground Fault Circuit Interrupter (GFCI) for 120 Volt transformers should be used if required by the transformer manufacturer or if required by the local applicable code and/or Authority Having Jurisdiction (AHJ). When a GFCI is used, the conductors on the load side of the GFCI circuit shall not occupy conduit, boxes, or enclosures containing other conductors unless the additional conductors are also protected by a GFCI. Refer to local codes for complete details.

## WARNING

**RISK OF ELECTRICAL SHOCK OR ELECTROCUTION,** which could result in serious injury or death. The Jandy Pro Series Nicheless LED Lights are only available for 12-volt AC power. For supply connection, use only an isolating low voltage power supply with ungrounded output, evaluated and listed by a NRTL for swimming pool use.

### 4.3 Wiring to a Switch

The Jandy® Pro Series Nicheless LED Lights can be wired to a switch to manually operate the lights. Refer to Figure 4 to connect the lights into the switch.



**Figure 4. Wiring Jandy Pro Series Nicheless Underwater Lights**

### 4.4 Twelve (12) Volt Installation

A 12-14 Volt AC Magnetic Transformer must be used to power all 12-Volt lights.

**NOTE** For optimum performance Jandy Pro Series recommends not exceeding the load factor specified by the instructions included with the transformer.

To ensure maximum safety, use only a Class 2 magnetic transformer that can supply 12-14 Volts AC to power all 12-Volt lights. The transformer must be listed or certified by a Nationally Recognized Testing Laboratory (NRTL) for the intended use.

## ⚠ CAUTION

To prevent risk of fire which could result in property damage, and to ensure optimum performance, do not exceed the load factor specified in the instructions provided by the transformer manufacturer.

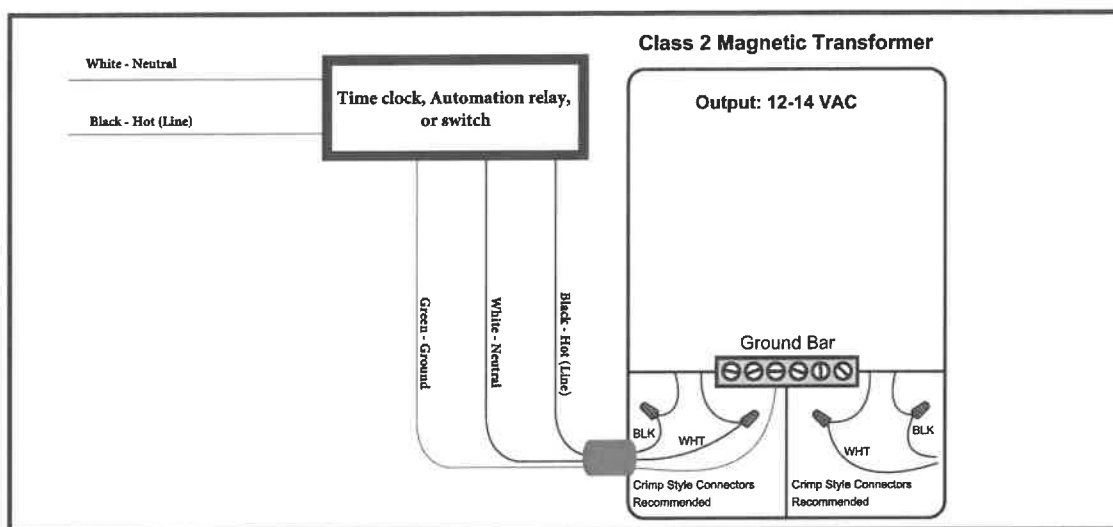


Figure 5. Wiring LED Lights to a 12 Volt Magnetic Transformer

**NOTE** A magnetic low-voltage dimmer switch or dimming relay may be used when Jandy Pro Series Nicheless WHITE ONLY lights are installed. Jandy Pro Series color lights are NOT DIMMABLE and are NOT COMPATIBLE with dimmer switches or dimmer relays.

## Section 5. Jandy® Pro Series Nicheless Underwater LED Light Operating Instructions

### 5.1 Light Synchronization

**NOTE** This section only applies to the color (RGBW) lights. All fixtures must be tied into the same transformer, circuit or switch for synchronization to occur.

1. Turn the light **ON**. If the light has been off for 7 seconds or longer, the light will turn on with the last color selected.
2. To synchronize multiple lights to the same color mode, you will need to reset to the beginning of the color mode sequence. With the lights **ON**, turn them **OFF** for five (5) seconds, then turn **ON** again. All of the lights will reset to the Alpine White color mode. If all of the lights are not in the Alpine White color mode, they have not been synchronized, repeat step 2.

## 5.2 Operating the Light

3. To change the color mode, turn the light **OFF** for one 1-3 seconds.

Continue turning **OFF** and **ON** until the desired light color mode is reached. See Table 3 for the color mode sequence.

Example: If you followed step 3 and are now on Sky Blue and want the lights to be Violet, then the lights must be turned off and on 7 times to bring you to Violet.

Sequence Order	Color Modes
1	Alpine White
2	Sky Blue
3	Cobalt Blue
4	Caribbean Blue
5	Spring Green
6	Emerald Green
7	Emerald Rose
8	Magenta
9	Violet
10	Slow Color Splash
11	Fast Color Splash
12	America the Beautiful
13	Fat Tuesday
14	Disco Tech

**Table 3. Color Mode Sequence**

4. The lights have memory. If the lights are off for 7 seconds or more, the next time the lights are turned on, they will return to the last color mode they were on prior to being turned off (Step 1 listed above). This function allows you to keep your lights returning to your favorite color mode every time the lights are turned back on.

**NOTE** To synchronize colors on multiple Jandy® Pro Series Nicheless Underwater LED Light systems wired to separate switches, perform the above actions on all of their switches simultaneously. All Jandy Pro Series Nicheless Underwater LED Lights will synchronize automatically if activated by the same switch. No other accessories are required.

## Section 6. S-Series Nicheless Underwater LED Light Operating Instructions

### 6.1 Light Synchronization for S Series Lights

1. Turn the light **ON** and wait for **20 seconds**. The lights will first come on white for 10-15 seconds and then return to the color mode it was on prior to being turned off.
2. To synchronize lights, turn the lights off, wait 6-9 seconds and then turn them back on. You should see three quick flashes (red, green & blue), then all the lights will reset to the first color mode (Treasure Island)
3. (A) If you do not see three quick flashes, then the lights did not reset.  
(B) If you did not wait long enough (shorter than 6 seconds) the lights will advance to their next color mode. They are not synced as each light could be in different color modes.  
(C) If you wait too long (longer than the 9 seconds) they all will go to white for 10-15 seconds, looking like they're synced **BUT AFTER 15 seconds** they will return to their previous color mode (which at this point the lights are still unsynchronized).
4. Repeat step 1 - 3 until synchronization is accomplished.

### 6.2 Operating the S Series Lights

1. To move to the next color mode, turn the lights off for 1-2 seconds and turn back on. Repeat until desired color mode is found.

Example: If you are now on Fixed Green and want the lights to be White, then the lights must be turned off and on 7 times to bring you to Moonlight White.

Sequence Order	Color Modes for S Series Lights
1	Treasure Island / Slow Color Change
2	Moonlight White / Fixed White
3	SAVI Blue / Fixed Blue
4	Sargasso Sea / Fixed Green
5	Blue Lagoon / Fixed Light Blue
6	Passion Pink / Fixed Light Blue
7	Caribbean Hues / Blue and Green Slow Color Change
8	Copacabana / Magenta, Yellow and Orange Slow Color Change
9	Dance Party / Multi Color Strobe Effect

**Table 4. Color Mode Sequence for S Series Lights**

2. The lights have memory. If the lights are off for 10 seconds or more, the next time the lights are turned on, they will go to white for approximately 10-15 seconds and then return to the last color mode they were on prior to being turned off. This function allows you to keep your lights returning to your favorite color mode every time the lights are turned back on.

**NOTE** To synchronize colors on multiple S-Series Nicheless Underwater LED Light systems wired to separate switches, perform the above actions on all of their switches simultaneously. All S-Series Nicheless Underwater LED Lights will synchronize automatically if activated by the same switch. No other accessories are required.

## **Section 7. H-Series Nicheless Underwater LED Light Operating Instructions**

### **7.1 Light Synchronization for H-Series Lights**

1. Turn the light **ON**. The lights will first come on white for 15 seconds and then return to the color mode it was on prior to being turned off.
2. H-Series Lights may be operated independently or together depending upon the initial installation of your lights. All H-Series lights that are wired to the same 12V Transformer/Switch will synchronize their operation of the 17 Color modes. If they do get out of sync, turn the switch on then back off - wait between 6 and 9 seconds and turn the switch back on. They should now all be in position #1.

### **7.2 Operating the H-Series Lights**

1. To move to the next color mode, turn the lights off for 1-3 seconds and turn back on. Repeat until desired color mode is found.

Example: If you are now on Deep Blue and want the lights to be White, then the lights must be turned off and on 5 times to bring you to White.



Sequence Order	Color Modes (Universal ColorLogic® emulation)
1	Color Show - Voodoo Lounge
2	Deep Blue Sea
3	Royal Blue
4	Afternoon Skies
5	Aqua Green
6	Emerald
7	Cloud White
8	Warm Red
9	Flamingo Pink
10	Vivid Violet
11	Sangria Dark Purple/Red
12	Color Show - Twilight
13	Color Show - Tranquility
14	Color Show - Gemstone
15	Color Show - USA
16	Color Show - Mardi Gras
17	Color Show - Cool Cabaret

**Table 5. Color Mode Sequence for H-Series Lights**

- The lights have memory. If the lights are off for 60 seconds or more, the next time the lights are turned on, they will go to white for approximately 15 seconds and then return to the last color mode they were on prior to being turned off. This function allows you to keep your lights returning to your favorite color mode every time the lights are turned back on.
- H-Series LED Colored Nicheless Lights are specifically designed to be operated by select Hayward® Controls and Zodiac® Rev T.2 RS Systems for direct switching/access to colors and programs. Please refer to Hayward and Zodiac Series controls for installation and Operational directions.

**NOTE** At NO TIME shall the H-Series lights be used in conjunction with any other lights. The color choices, shows and operations are entirely different.

## Section 8. P-Series Nicheless Underwater LED Light Operating Instructions

### 8.1 Operating the P-Series Lights

1. Turn the light **ON** and wait for **20 seconds**. The lights will first come on white for a few seconds and then return to the color mode it was on prior to being turned off.
2. P-Series LED Colored Nicheless Lights are specifically designed to be operated by select Pentair® Controls and Zodiac Rev T.1 controls for direct switching/access to colors and programs **WITHOUT** having to toggle sequences ON/OFF. Please refer to Pentair and Zodiac Series controls for installation and Operational directions.

**NOTE** When using the above mentioned controls - when programming the Light Function - the general selection choice offered that should be selected is IntelliBrite. The color and show names will be slightly different but all operations will be correct.

**NOTE** At NO TIME shall the P-Series lights be used in conjunction with any other lights. The color choices, shows and operations are entirely different.

3. To move to another color mode, cycle the lights OFF/ON the selected number of times listed below.

Example: If you are now on Blue (8) and want the lights to be Magenta (12), then the lights must be turned off and on twelve (12) times to bring you to Magenta. To move to Old School, turn OFF/ON 1 time.

#### **WARNING**

**During OFF/ON Cycle**, before the selected mode is displayed, no illumination will occur. During this period of time the pool/spa will be dark and precautions should be taken to avoid unforeseen accidents. Failure to observe this warning may result in serious injury or death to pool/spa users.

Cycle Number	Color Modes for P-Series Lights (IntelliBrite® emulation)
1	SAm® Mode
2	Party Mode
3	Romance Mode
4	Caribbean Mode
5	American Mode
6	California Sunset
7	Royal Mode
8	Blue
9	Green
10	Red
11	White
12	Magenta
13*	<i>Hold : Saves the current color choice during a color show</i>
14*	<i>Recall: Turns on last saved color selection selected in position #13</i>
* These 2 Modes are specifically used with advanced control systems and not manual operations	

**Table 6. Color Mode Sequence for P-Series Lights**

4. The lights have memory. If the lights are off for 5-10 seconds, the next time the lights are turned on, they will go to white for a few seconds and then return to the last color mode they were on prior to being turned off. This function allows you to keep your lights returning to your favorite color mode every time the lights are turned back on.

## Section 9. Winterizing

Do not keep the winter water level at the level of the light. Make certain that the water level is left at least 4" or more above or below the light depending on the pool's other winterization needs. Consult a Local Swimming Pool Professional for proper winterization. At NO TIME should there be water removed from the pool without checking ground water tables.

## Section 10. Troubleshooting

Use the troubleshooting information in the following table for suggestions.

Symptom	Problem	Corrective Action
All lights fail to illuminate	Lights are not receiving power	Check 120VAC power supply into transformer. Check for 12VAC output at transformer. Check or reset GFCI. Make sure 120 volts has not been used in the installation - if so damage is assured and is NOT WARRANTABLE.
One or more lights are dim, blinking or not working	Poor connection or improper wire gauge	Separate each light and independently wire 12V to the single light only. Repeat this process on each light. If junction box is being used, check for proper connection of light cord. Verify that the correct wire gauge is being used between the transformer and junction box.
Colored lights out of synch	Improper voltage supply or poor connection to the light	Verify that proper wire connections are being achieved for the lights that are out of sync. Reset all the lights to white by turning lights OFF for five (5) seconds, then turning ON
Light is blinking	Light is too hot	Confirm that the light is submerged in water that does not exceed a temperature of 104F (40C)

NOTES

**Zodiac Pool Systems, Inc.**

2620 Commerce Way, Vista, CA 92081

1.800.822.7933 | [www.ZodiacPoolSystems.com](http://www.ZodiacPoolSystems.com)

**Zodiac Pool Systems Canada, Inc.**

2115 South Service Road West, Unit 3 Oakville,  
ON L6L 5W2

1.888.647.4004 | [www.ZodiacPoolSystems.ca](http://www.ZodiacPoolSystems.ca)



ETL LISTED  
CONFORMS TO  
UL STD 676

CERTIFIED TO  
CAN/CSA C22.2 NO.89

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## Why settle for just warm when you can have it any way you like...

The Jandy® VersaTemp™ Heat / Chill pump with Sound Shield™ Technology regulates your pool and spa's temperature for the utmost comfort while significantly reducing operational noise. Designed for energy-efficient, eco-friendly performance and dual thermostats for pool/spa combinations, the VersaTemp offers intuitive operation with a built-in LCD panel and compatibility with AquaLink® automation systems for anytime, anywhere iAquaLink® app control.

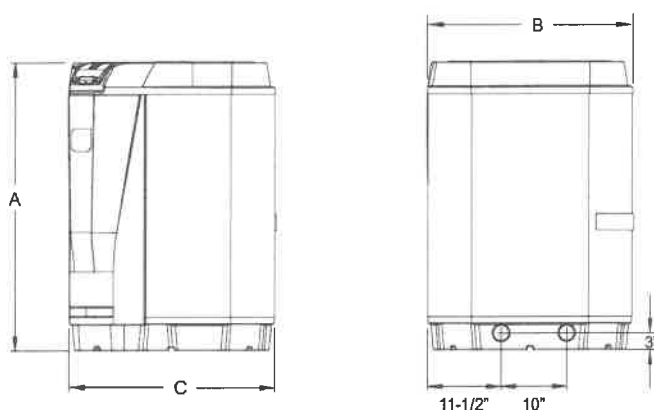
### SoundShield™ Technology

Not a fan of loud noises? Heat your pool and/or spa with significantly less noise. Specially designed Sound Shield Technology consists of a swept-wing blade design that decreases turbulence and a decibel dampening acoustic blanket to help muffle compressor reverberation for even quieter operation—because you should feel the heat, not hear the heat pump.



- Perfect Pool Temperature**  
 Innovative thermo control technology enables you to heat or cool your pool water
- Dependable Year-Round Use**  
 Heat reversing technology activates when ice formation is detected and automatically redirects heat to melt the ice
- Performance that Saves**  
 Takes performance to the next level with increased heat output for more efficient and faster heating
- Easy to Operate**  
 Advanced digital control enables self-diagnostic notifications and multilingual capability
- Auto-Heat Option**  
 When used in conjunction with any AquaLink automation system, you can maintain your pool's temperature automatically
- Anytime, Anywhere Control**  
 Enjoy the convenience of on-the-go operation with the iAquaLink app
- Dual Thermostats**  
 Independent heat settings for pool and spa
- Smaller Size**  
 Smaller footprint for more compact pool pad setups¹

### DIMENSIONS



MODEL	DIMENSIONS		
	A	B	C
JRT2000R	42"	32"	32"
JRT2500R	42"	32"	32"
JRT3000R	45"	32"	32"

### SPECIFICATIONS

	JRT2000R	JRT2500R	JRT3000R
Output (BTU)	103,000	116,000	130,000
Input (kWH)	4.72	5.23	6.57
COP	6.4	6.5	5.8
Output (BTU)	96,000	109,000	124,000
COP	6.1	6.1	5.6
Output (BTU)	62,000	70,000	82,000
COP	4.1	4.1	4.0
Voltage	208/230V/60Hz	208/230V/60Hz	208/230V/60Hz
Minimum Circuit Ampacity	38	39	40
Max Over Current Protection	40	50	50
LRA	178	145	148
RLA	28.3	29	32.5
Compressor	Scroll		
Heat Exchanger	Titanium		
Optimal Water Flow (GPH)	42	48	57
Minimum Water Flow (GPH)	20	20	30
Maximum Water Flow (GPH)	70		
Weight	232	242	252

¹ Versus previous models.

Rated in accordance with AHRI Standard 1160; Test Conditions: 80°F Air, 80% RH, 80°F Water  
 Rated in accordance with AHRI Standard 1160; Test Conditions: 80°F Air, 63% RH, 80°F Water  
 Rated in accordance with AHRI Standard 1160; Test Conditions: 50°F Air, 63% RH, 80°F Water  
 ² Max Over Current Protection refers to the maximum breaker size allowed. If this value is not a standard breaker size, use the next smallest standard breaker size. The breaker size must not be smaller than the Minimum Circuit Ampacity value.

Jandy.com | 1.800.822.7933

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**VS PLUS**  
VARIABLE-SPEED PUMP

**No Rewiring Necessary.** Auto-sensing dual voltage motor automatically recognizes and adapts to 115- or 230-volt power supplies.

**Add IODPUMP01 for Instant Automation**  
Two auxiliary relays allow the pump to control other equipment such as a salt chlorinator and booster pump without a separate timeclock.

**Space Saving Design**  
Zero Clearance TEEC motor pulls in cooler air from the side of the motor instead of the back, allowing for compact installation against walls or other light setups.



- 40% larger strainer basket than the leading competitor for greater pool owner convenience and improved efficiency when loaded with debris
- 2" x 2.5" unions included for easy installation and maintenance with no hidden costs
- Easy Control: Setup auto debris connection to an automation system or a traditional controller, eliminating the need to adjust settings manually
- RS485 Quick Connect Port for faster installation and maintenance
- Dry Contact Relay Control
  - Ergonomic carry handle for easy installation
  - Tool free lid allows for quick and easy cleaning of the pump basket

➤ **Choose Your Own Controller**  
 Designed to work with the following Jandy control systems for complete programability and customization (controller sold separately):

- Jandy AquaLink® Automation Systems
- iQPUMP1 with iAquaLink® App Control
- JEP-R Controller

[illegible]

Model No.	THP	WFF	Max Voltage	Union Amps	Rec. Pipe Size	Carton Weight	Overall Length
V54PH2700ZA	270	0.8	230VAC	10.5	2" x 1/2"	2'-3"	64.0 lbs
V54PH2750ZA	275	0.8	230VAC	11.0	2" x 1/2"	2'-3"	64.0 lbs

The graph displays the performance curves for the VSPHP270DY2A pump. The y-axis represents Total Dynamic Head (Feet of Water) from 0 to 100, and the x-axis represents Flow Rate (GPM) from 0 to 100. Seven curves are shown for different RPMs: 3450, 3000, 2710, 2450, 1720, 1500, and 600. A dashed line labeled '118 VAC' indicates the operating point for the pump at 118 VAC, which corresponds to approximately 2710 RPM and a flow rate of about 45 GPM at a head of 40 feet.

WEF's weighted energy factor in  $\text{kWh/kWh}$ . WEF is a performance-based metric adopted by the Department of Energy to characterize the energy performance of dedicated-purpose pool pumps. Department of Energy 10 CFR parts 429 and 431.

Always follow the building and safety codes for pipe sizing and guidelines.

Based on independent test results at 75 and 3450 RPM from 6





**226 Bamboo Rd, Palm Bch Shores**

**Weglobal Electric LLC**

sq. ft	1870	General Lighting load	5,610 VA
	2	Small Appliance	3,000 VA
	1	Laundry circuit	1,500 VA
		Gen.Lgt, Sm App & Laun. Load	10,110 VA

**South Military Trail  
Deerfield Beach  
954-5319005**

8/18/2022 17:24

**General lighting, Sm. Appl. & Laundry**

**10,110 VA**

**QTY**

<b>Total</b>	<b>1</b>
--------------	----------

1

4 ton ▼	5,700 VA	AHU 1	9.6kW ▼	10,800 VA	1 ▼
A/C #2 ▼	VA	AHU 2	Select ▼	VA	Qty ▼
A/C #3 ▼	VA	AHU 3	Select ▼	VA	Qty ▼
A/C #4 ▼	VA	AHU 4	Select ▼	VA	Qty ▼
A/C #5 ▼	VA	AHU 5	Select ▼	VA	Qty ▼

Heating Load	7,440 VA
CU Load	6,900 VA

**Electric Space Heat @ 65% <4, 40% >3, vs. A/C @ 100% 7,440 VA**

### Appliance Demand Load

**25,110 VA**

Item	Quantity	Unit	Value
4,500 VA	1	Water Heater	4,500 VA
1,400 VA	1	Refrigerator	1,400 VA
600 VA		Freezer	VA
1,030 VA	1	Dishwasher	1,030 VA
690 VA	1	Disposal	690 VA
400 VA		R / Hood	VA
1,700 VA	1	Microwave	1,700 VA
4,000 VA		Microwave	VA
170 VA		Mini Refrig	VA
400 VA		Wine Clr	VA
5,000 VA		Insta Hot	VA
1,500 VA		Ironing Center	VA
select		Jacuzzi Tub	VA
select		Sprinkler Pump	VA
select		Well Pump	VA
select		Fountain Pump	VA
select		Elevator	VA
		Pool Equip. Panel	15,790 VA Apply Demand
		Gas Dryer	VA No Demand
		Electric Car	VA No Demand

Demand Load 143 A

Neutral Demand 76 A

Min.Service Req. 150 A

**Total Appliance Load            25,110 VA**

### Electric Clothes Dryers

**5,000 VA**

## Electric Ranges

12,000 W

Col C demand

8000

or Number of appliances

☐ Check Box for Gas Range

**Cooktop**

## Cooktop

Oven(s)

Oven(s)

Col B demand

Col B demand

Col B demand

Col B demand

Number of appliances

0 Dem. Factor

### Cooktop & Oven Demand Load

**Existing service size 150 Amps**

**Total load demand 143 Amps (approximately)**

**Pool Panel Required 80 Amps**

Pool Panel Feeder Calculation (See Note)		A	B	N	Continuous Motors	Non-continuous Motors
Continuous Motors	5,750	2875	2875	0	3 hp <input type="checkbox"/> 240v	select <input type="checkbox"/> 240v
Non-continuous	0	0	0	0	1 hp <input type="checkbox"/> 240v	select <input type="checkbox"/> 240v
Spa heater 11 kVA		0	0		select <input type="checkbox"/> 240v	select <input type="checkbox"/> 240v
Pool heater 3.5 ton		0	0		select <input type="checkbox"/> 240v	select <input type="checkbox"/> 240v
Pool heater 5 ton	1	5063	5063		select <input type="checkbox"/> 240v	select <input type="checkbox"/> 240v
Pool Light	100 <input type="checkbox"/> 240v	100	0	100	select <input type="checkbox"/> 240v	select <input type="checkbox"/> 240v
Blower	1 hp <input type="checkbox"/> 240v	920	920	0		
	<input type="checkbox"/> 240v	0	0	0		
	<input type="checkbox"/> 240v	0	0	0		
<input type="checkbox"/> Min. Copper Pool Feeder	# 4 AWG	75 A	74 A	1 A	0.0 Motor Neutral Load	
Minimum Panel Rating 80A		Phase Amperes		Neut. load	Max. Unbalanced Neutral Load	

#### MOUNTING THE SENSORS

Make sure that the arrows of each sensor are pointed towards each other. Using either the double-sided tape or the screws provided, mount the sensors so that they are less than 1/4 inch away from each other. Sensors must be mounted flush in height and depth, so with some doors or windows, special custom fitting may be necessary. Please make sure that the wired portion of the magnetic sensor is mounted on the non-moving portion of the mounting surface and the stand-alone sensor is mounted on the door/gate. (See Fig. 5 (Fig. 6))

#### MOUNTING OUTDOORS ON WOODEN GATES

Using the provided mounting template printed in this manual, mark the position of the screw holes on the desired mounting surface. Drill the screws onto the mounting surface with approximately 1/8 inch of thread remaining. Slide the unit over the screws and secure the unit by pushing it downward as shown in Fig. 5. You may need to adjust the screws towards or away from the mounting surface to provide a more secure fit. Make sure that the arrows of each sensor are pointed in the same direction. Note: Wooden gates do not require the sensor housings.

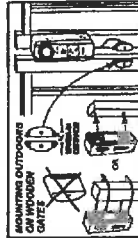


Fig. 5

Make sure that the arrows of each sensor are pointed in the same direction. Note: Wooden gates do not require the sensor housings.

#### MOUNTING OUTDOORS ON METAL GATES

Using the provided zip ties, attach the alarm body to the metal gate frame. (See Fig. 6) Using a small flat head screwdriver, gently pry open the recessed sensor assembly of the sensor housing. (Fig. 6) Make sure that the arrows of each sensor are pointed in the same direction as the sensor housing before placing the magnetic sensors inside the sensor housing. Note: Metal gates may interfere with the magnetic sensor function. Use spacers provided to ensure sensors operate properly. Secure the sensors using the zip ties onto the gate frame. Make sure that the sensors' arrows are pointed towards each other and that the sensors are less than 1/4 inch apart.



Fig. 6

#### MAINTENANCE

When the alarm volume becomes low, or the unit does not produce normal alarm sound, the red light will illuminate, you must replace the 9-volt battery.

The Safe Pool's plastic parts resists ultraviolet rays from direct sunlight exposure. However, slight discoloration over time is normal.

#### WARNING!

THE SAFE POOL ALARM IS EXTREMELY LOUD WHEN ACTIVATED. FOR YOUR SAFETY, NEVER PLACE THE UNIT CLOSE TO YOUR EARS. TO TEST THE ALARM, ALWAYS USE EAR PROTECTION AND DIRECT THE UNIT AWAY BEFORE TESTING/ACTIVATING THE ALARM.

IT IS PROHIBITED BY LAW TO REMOVE THE INSTALLED ALARM AFTER IT HAS PASSED INSPECTION !

#### Important Warranty Information:

A dated proof of purchase is required for warranty service

#### Customer Service :

1-888-8TECHKO(1-888-883-2456)  
Website: www.techkomaid.com

Mfg. By **TECHKO®**

9767 Research Drive,  
Irvine, CA 92618-4626  
MADE IN CHINA



3700127  
COMPLIES WITH  
UL 2017

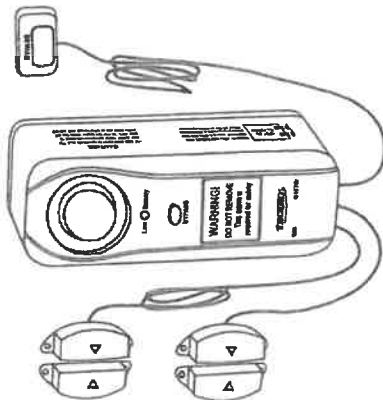
USA Patent: No. 5,473,310  
No. 6,727,819  
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## Safe Pool™ Model S187D Area Entry Alarm



### OPERATION MANUAL

## INTRODUCTION

Congratulations on your purchase of the TECH-KO Safe Pool model S187D safety alarm. The Safe Pool can be used to provide a high volume alarm alert when children have entered a pool or spa area. The S187D can be used outdoors on wood or metal gates, or indoors on doors and windows leading directly to potentially dangerous areas.

## OPERATION

The Safe Pool is designed to sound a loud alert when children enter through a Safe Pool protected door/gate. When properly installed, the Safe Pool will allow adults to pass through the protected door/gate and immediately shut off the sounding alarm.

When powered, the Safe Pool is always in protection mode. The alarm will activate the instant when the door/gate opens by more than 1/2 inch when the magnetic sensors are apart by more than 1/2 inch. Once the alarm activates, it will sound continuously until the BYPASS button is pressed.

When passing through the door/gate press the BYPASS button, then open the door/gate, pass through and close the door/gate within 8-12 seconds and the alarm will not activate.

## FEATURES

- Easy installation for gate, door or window protection
- Water / weather resistant
- 9 Volt battery power (not included)
- High output 110-115 dB alarm siren
- Low Battery / signal LED indicator
- Optional additional BYPASS button for delayed entry from other side of door or fence
- Optional additional magnetic sensor for screen door exit/entry

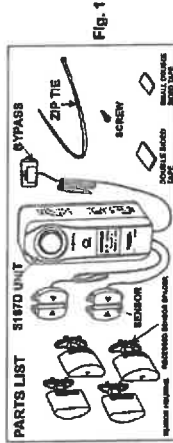


Fig. 1

## IMPORTANT SAFETY TIPS

- Alarm siren is VERY loud; NEVER place the unit close to ears.
- Install the unit high enough to be out of reach of children 54" or higher is recommended.

- Keep this manual for future reference.

The Safe Pool can provide valuable protection when used correctly. However, it cannot guarantee complete protection against accidents or injuries. Therefore, Techko cannot be held responsible for any loss, damage, or injury that may occur.

## INSTALLATION

**WARNING: Read all installation and operation instructions thoroughly before proceeding with installation.** Note: Not all parts included are needed for installation. Please read the different mounting instructions to see what is needed for your specific application.

### INSTALLING THE BATTERY:

1. When testing, before installing the battery, use a rubber band to temporarily secure the two magnetic sensors together with the arrows pointing toward each other to avoid setting off the alarm unintentionally. During the actual installation of the alarm, it's best to install the battery after it's mounted to avoid the alarm going off unintentionally.
2. Remove the battery cover of the unit and install a new 9 Volt battery. Replace cover. (See Fig. 2)
3. If you are sensitive to loud sound, please wear ear protection against the loud alarm siren before testing the alarm.
4. Once the battery is connected, the unit is now ON and working. To test the alarm siren, make sure you have ear protection before testing. After ear protection is in place, separate the magnetic sensors apart by more than 1/4 inch. The alarm should sound immediately after the sensors are separated. Press the BYPASS button and immediately secure the two magnet sensors together again to avoid the alarm sounding off unintentionally.



Fig. 2

### LED LIGHT WARNINGS

1. When the battery becomes low in charge or the volume becomes weak, the LED light will illuminate. The 9 volt battery must be replaced.
2. Upon battery installation, the unit will beep once and the LED light will flash 10 times as it prepares to become armed.
3. When a bypass button is pushed, the LED light illuminates to indicate acknowledgement to PASS through.
4. After the bypass button is pushed in and released, the LED light will flash 10 times to allow pass through and to prepare the unit to become armed again.

### MOUNTING:

**WARNING:** The alarm should be positioned close to the door high enough to be out of the reach of children. As each mounting application varies, Techko suggests testing the unit's installation location and effectiveness before permanently mounting the S187D.

### MOUNTING INDOORS

Using the provided mounting template printed in this manual, mark the position of the screw holes on the desired mounting surface.

- The Additional delay button may be mounted on the other side of the entrance. When pressed, it will delay the alarm 8-12 seconds before alarm is triggered, allowing time to secure the door/gate.

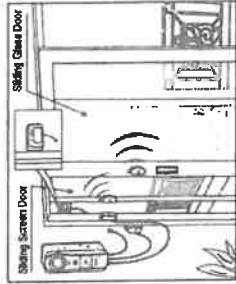


Fig. 3

- The Additional magnetic sensors allow the unit to be used on sliding door with screens.

- Alarm will sound only when BOTH sets of magnetic sensors are apart, there for allowing the slider to be open while still providing protection at the screen door.

**MOUNTING INDOORS USING DOUBLE-SIDED TAPE**  
Make sure that the mounting surfaces for the double-sided tapes are completely clean. Attach the double-sided tapes onto the rear of the unit, and then secure the unit onto the desired mounting surface.

### MOUNTING INDOORS USING SCREWS

Using the provided mounting template printed in this manual, mark the position of the screw holes on the desired mounting surface. Drill the screws in to the mounting surface with

approximately 1/8 inch of thread remaining. Slide the unit over the screws and secure the unit by pushing it downward, as shown in Fig. 4. You may need to adjust the screws towards or away from the mounting surface to provide a more secure fit.

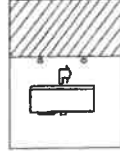


Fig. 4

## TEMPLATE MODEL S187D



SCREW HOLE



SCREW HOLE

POOL PLAN

SCALE: 1/8" = 1'



NOTE: NOISE DECIBEL LEVEL MEETS AND OR EXCEEDS CURRENT CODE FOR NOISE ABATEMENT.

POOL EQUIPMENT (SCREEN MECHANICAL EQUIP. W/ 5' HIGH PODOCARPUS MACROPHYLLUS SHRUBS 12" APART, 2' SPREAD)

NOTE: SEE PIPING SCHEMATIC SHEET #5 FOR PIPE SIZES.

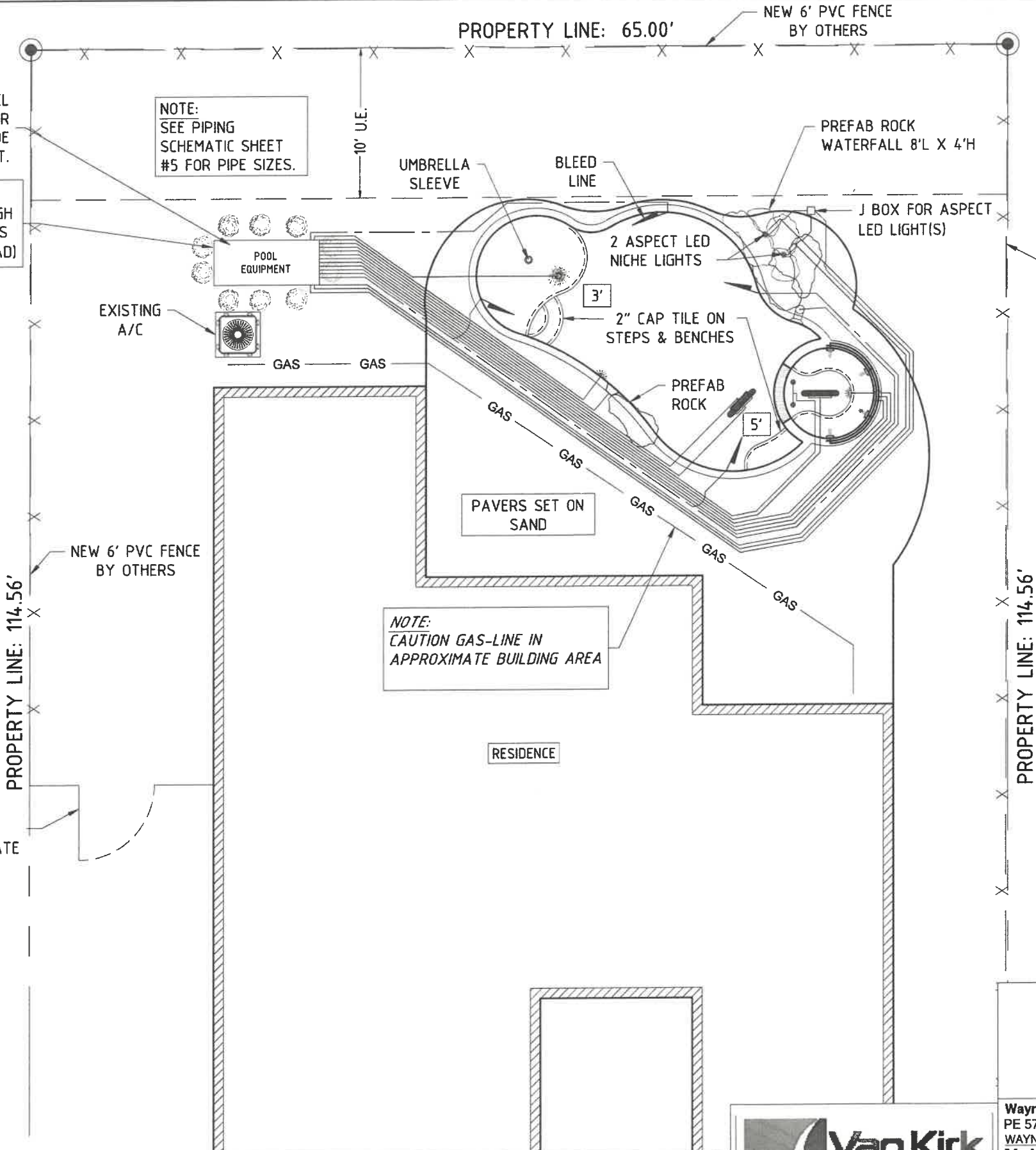
NOTE: SEE SURVEY FOR FENCING AND PROPERTY EXTENTS.

NOTE: GRADING AT PROPERTY LINE WILL NOT BE ALTERED TO CREATE ADVERSE EFFECT TO ADJACENT PROPERTIES

POOL SPECIFICATIONS	
POOL SIZE	28' X 11'-6"
POOL DEPTH	3' - 5'
PERIMETER	67LF
SURFACE AREA (SQ. FT.)	232
GALLONS	5894
GPM	10.9
TURNOVER TIME (HRS)	6
POOL PUMP	JANDY VS PLUSHP 2.7HP (VSPHP270DV2A)
FEATURE PUMP	JANDY FLOPRO FHPM 1.0HP SINGLE SPEED
HEAT PUMP	JANDY JRT3000R
FILTER	JANDY CS200
POOL LIGHTS	(1) LED NICHE
SALT SYSTEM	JANDY AQUAPURE 700
POOL RETURNS/SKIMMER	3 RETURNS / 1 SKIMMER
ENCLOSURE	NEW 6' PVC FENCE BY OTHERS / WINDOW & DOOR ALARMS BY OTHERS
MISC.	PREFAB ROCK WATERFALL 8'L X 4'H W/ 2 LED LIGHTS
FITTINGS COLOR	WHITE
CAP TILE ON STEPS & BENCHES	YES
SUN SHELF W/ CAP TILE	10'-0"± X 6'±
DECK	PAVERS SET ON SAND

LEGEND	
	LIGHT(S)
	SKIMMER(S)
	WALL RETURNS
	MAIN DRAIN(S)
	VAC LINE W/ VAC LOCK
	FLOOR RETURN
	LED BUBBLER(S)
	THERAPY JET(S)

SPA SPECIFICATIONS	
SPA SIZE	6' DIAMETER
SPA DEPTH	3'
SPA HEIGHT	FLUSH
PERIMETER	19LF
SURFACE AREA (SQ. FT.)	28
GALLONS	628
SPA PUMP	SHARED W/ POOL
THERAPY JETS	4
AIR BLOWER	1.0HP
FLOOR RETURNS	2
SPILLWAY SIZE	4'
SPILLWAY DIRECTION	REVERSE SPILL (WET WALL)
SPA LIGHT	(1) LED NICHELESS



SPILLWAY DIRECTION:  
REVERSE SPILL (WET WALL)

POOL SPA

SHEET 1
DRAWN DATE: 08/04/2022
ORDER: 561
JOB NO. : MARC-22-113
DESIGNER: JP
DRAWN BY: CPG

MARCHITTO RESIDENCE

PALM BEACH SHORES  
LT: 368  
226 BAMBOO ROAD  
PALM BEACH SHORES, FL 33404

BUILDING DEPARTMENT REVISIONS:	
DATE	DESCRIPTION

3144 SW 13th DRIVE  
DEERFIELD BEACH, FL. 33442  
(954) 755-4402

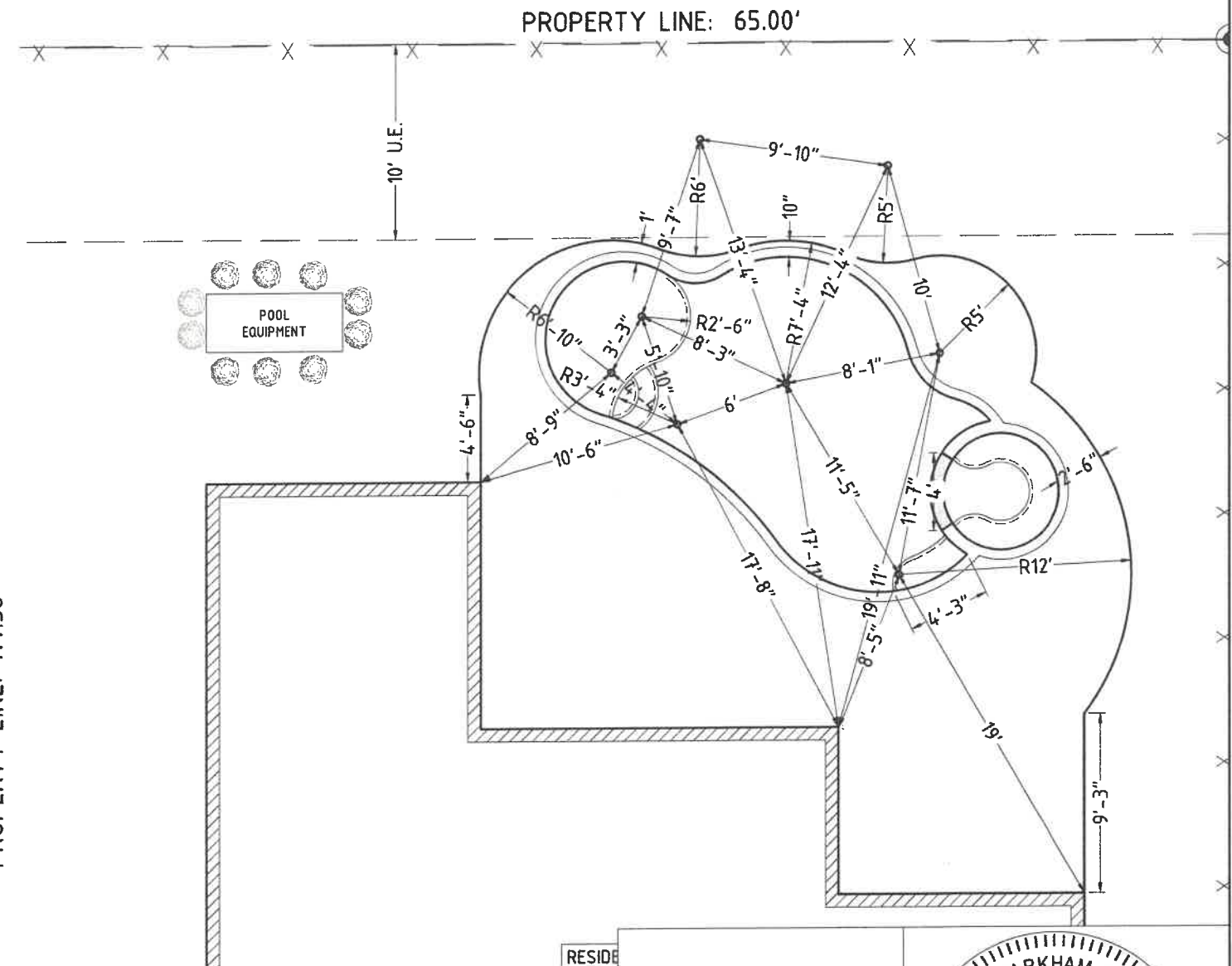
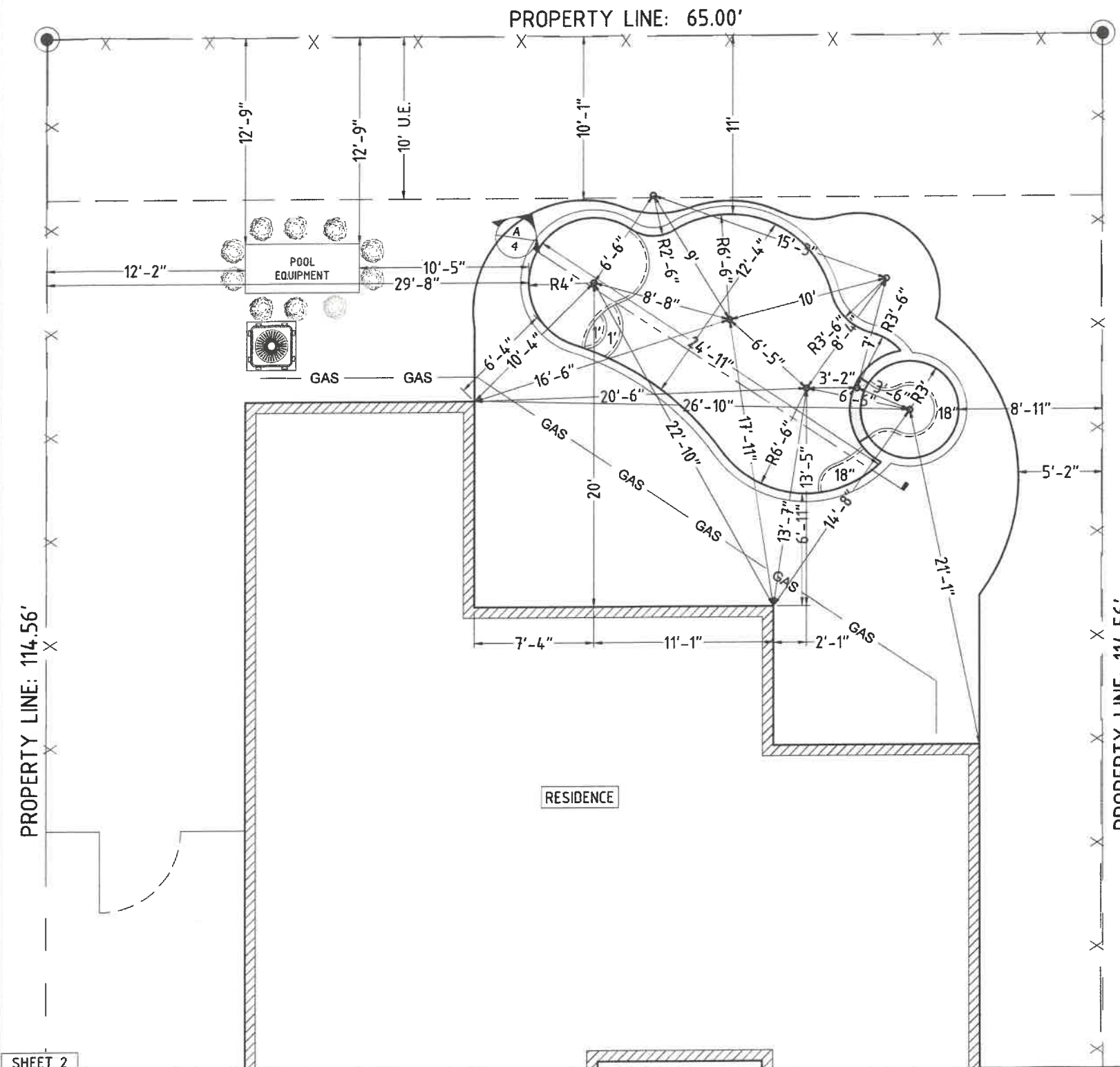
DATE: 12/09/2022

Wayne Markham Bennett, P.E.  
PE 57216 / (954) 818-3825  
WAYNE@WMB-PE.COM  
Markham Service, Inc. (CA 33018)  
1820 NE Jensen Beach Blvd.  
Unit # 685.  
Jensen Beach, FL. 34957

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SCALE: 1/8" = 1'



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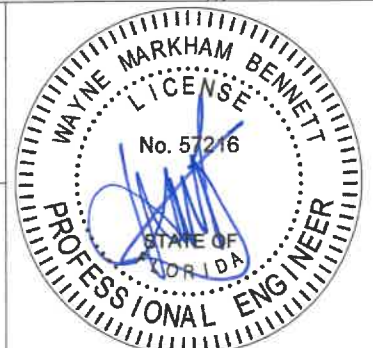
226 BAMBOO ROAD  
PALM BEACH SHORES, FL 33404

DESCRIPTION



3144 SW 13th DRIVE  
DEERFIELD BEACH, FL. 33442  
(954) 755-4402

**Wayne Markham Bennett, P.E.**  
PE 57216 / (954) 818-3825  
[WAYNE@WMB-PE.COM](mailto:WAYNE@WMB-PE.COM)  
**Markham Service, Inc.** (CA 33018)  
1820 NE Jensen Beach Blvd.  
Unit # 685.  
Jensen Beach, Fl. 34957



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SWALE DRAINAGE PLAN

SCALE: 1/8" = 1'

CLIENT: MARCHITTO RESIDENCE  
PROPERTY ADDRESS: 226 BAMBOO ROAD  
LEGAL DESCRIPTION  
LT: 368, PALM BEACH SHORES , ACCORDING TO THE PLAT  
THEREOF AS RECORDED IN PLAT BOOK 23, PAGE 29, OF  
THE PUBLIC RECORDS OF PALM BEACH SHORES , FLORIDA.

PROPERTY LINE: 65.00'

PROPERTY LINE: 114.56'

SELF CLOSING  
SELF LATCHING GATE

NEW 6' PVC FENCE  
BY OTHERS

SWALE 4'W X 6"D  
(4:1 MAX SLOPE)

RESIDENCE

EXISTING SITE CALCULATIONS

DESCRIPTION	SF	ACRES	%
TOTAL LOT SITE	7444	0.1709	100
BUILDING AREA (HOUSE)	2090	0.0480	28.08
A/C SLAB, PORCH, PATIO,WALKWAY	328	0.0075	4.41
DRIVEWAY	976	0.0224	13.11

TOTAL IMPERVIOUS AREA	3394	0.0779	45.59
TOTAL PERVIOUS	4050	0.0930	54.41

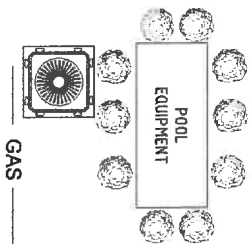
PROPOSED SITE CALCULATIONS

DESCRIPTION	SF	ACRES	%
TOTAL LOT SITE	7444	0.1709	100
BUILDING AREA (HOUSE)	2090	0.0480	28.08
A/C SLAB, PORCH, PATIO,WALKWAY	328	0.0075	4.41
DRIVEWAY	976	0.0224	13.11
PROPOSED POOL & DECK	883	0.0203	11.86

TOTAL IMPERVIOUS AREA	4277	0.0982	57.46
TOTAL PERVIOUS	3167	0.0727	42.54

IMPERVIOUS AREA CALCULATIONS

DESCRIPTION	SF	ACRES	%
EXISTING IMPERVIOUS AREA	3394	0.0779	45.59
PROPOSED IMPERVIOUS AREA	4277	0.0982	57.46
DIFFERENCE	+883	+0.0203	+11.86



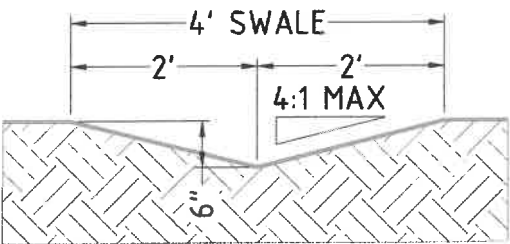
10' U.E.

130CF

PROPERTY LINE: 65.00'

NEW 6' PVC FENCE  
BY OTHERS

PROPERTY LINE: 114.56'



TYPICAL SWALE DETAIL

SCALE: N.T.S

SHEET 2A

DRAWN DATE: 08/04/2022

ORDER: 561

JOB NO. : MARC-22-113

DESIGNER: JP

DRAWN BY: CPG

MARCHITTO RESIDENCE

PALM BEACH SHORES

LT: 368

226 BAMBOO ROAD  
PALM BEACH SHORES, FL 33404

BUILDING DEPARTMENT REVISIONS:

DATE DESCRIPTION



3144 SW 13th DRIVE  
DEERFIELD BEACH, FL. 33442  
(954) 755-4402

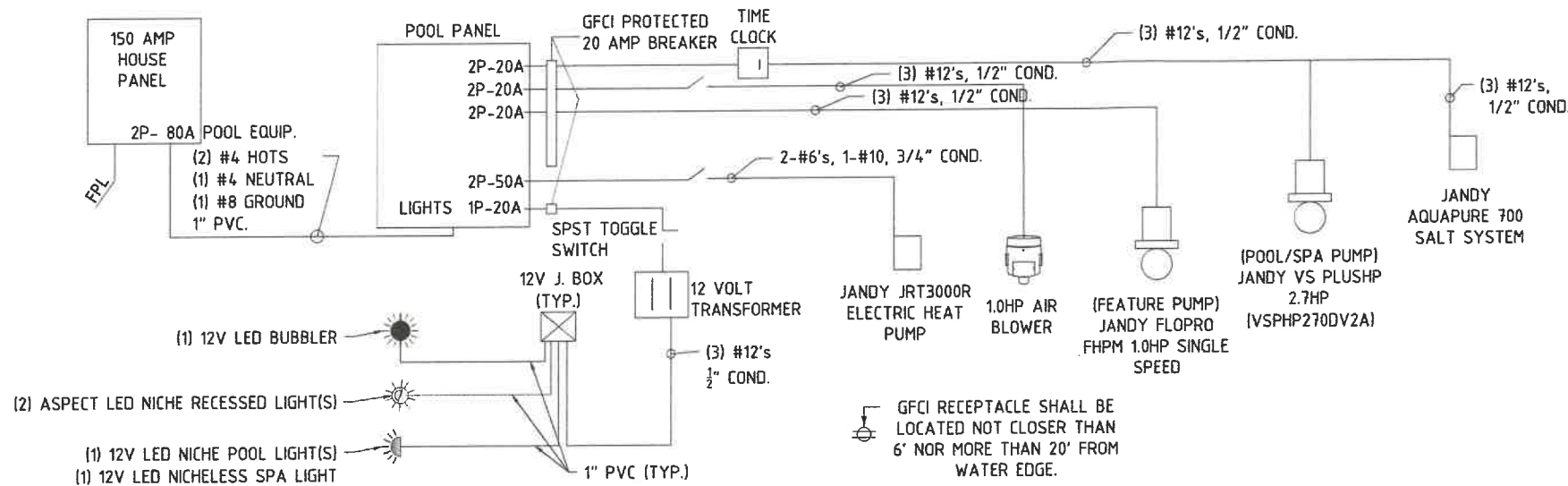
DATE: 12/09/2022

Wayne Markham Bennett, P.E.  
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WAYNE@WMB-PE.COM  
Markham Service, Inc. (CA 33018)  
1820 NE Jensen Beach Blvd.  
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Jensen Beach, FL. 34957



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## ELECTRICAL DIAGRAM

SCALE: N.T.S

### ELECTRICAL CODE AND NOTES:

NATIONAL ELECTRICAL CODE (NEC), NFPA 70 - 2017 SHALL SPECIFICALLY GOVERN, INCLUDING ARTICLE 680 SWIMMING POOLS, FOUNTAINS, AND SIMILAR INSTALLATIONS

ARTICLE 430.32 CONTINUOUS-DUTY MOTORS. EACH MOTOR USED IN CONTINUES DUTY APPLICATION SHALL BE PROTECTED AGAINST OVERLOAD

ARTICLE 680.6 GROUNDING. ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH PARTS V, VI AND VII OF ARTICLE 250 AND CONNECTED BY WIRING METHODS OF CHAPTER 3, EXCEPT AS MODIFIED BY THIS ARTICLE. THE FOLLOWING EQUIPMENT SHALL BE GROUNDED: (1) THROUGH-WALL LIGHTING ASSEMBLIES AND UNDERWATER LUMINAIRES, OTHER THAN THOSE LOW-VOLTAGE LIGHTING PRODUCTS LISTED FOR THE APPLICATION WITHOUT A GROUNDING CONDUCTOR (2) ALL ELECTRICAL EQUIPMENT LOCATED WITHIN 1.5 M (5 FT) OF THE INSIDE WALL OF THE SPECIFIED BODY OF WATER (3) ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH THE RECIRCULATING SYSTEM OF THE SPECIFIED BODY OF WATER (4) JUNCTION BOXES (5) TRANSFORMER AND POWER SUPPLY ENCLOSURES (6) GROUND-FAULT CIRCUIT INTERRUPTERS (7) PANELBOARDS THAT ARE NOT PART OF THE SERVICE EQUIPMENT AND THAT SUPPLY ANY ELECTRICAL EQUIPMENT ASSOCIATED WITH THE BODY OF WATER

ARTICLE 680.9 OVERHEAD CONDUCTOR CLEARANCES. OVERHEAD CONDUCTORS SHALL MEET THE CLEARANCE REQUIREMENTS IN THIS SECTION. WHERE A MINIMUM CLEARANCE FROM THE WATER LEVEL IS GIVEN, THE MEASUREMENT SHALL BE TAKEN FROM THE MAXIMUM WATER LEVEL OF THE SPECIFIED BODY OF WATER. (A) POWER. WITH RESPECT TO SERVICE-DROP CONDUCTORS, OVERHEAD SERVICE CONDUCTORS, AND OPEN OVERHEAD WIRING, SWIMMING POOL AND SIMILAR INSTALLATIONS SHALL COMPLY WITH THE MINIMUM CLEARANCES GIVEN IN TABLE 680.9(A) AND ILLUSTRATED IN FIGURE 680.9(A). (B) COMMUNICATIONS SYSTEMS. COMMUNICATIONS, RADIO, AND TELEVISION COAXIAL CABLES WITHIN THE SCOPE OF ARTICLES 800 TO 820 SHALL BE PERMITTED AT A HEIGHT OF NOT LESS THAN 3.0 M (10 FT) ABOVE SWIMMING AND WADING POOLS, DIVING STRUCTURES, AND OBSERVATION STANDS, TOWERS, OR PLATFORMS. (C) NETWORK-POWERED BROADBAND COMMUNICATIONS SYSTEMS. THE MINIMUM CLEARANCES FOR OVERHEAD NETWORK-POWERED BROADBAND COMMUNICATIONS SYSTEMS CONDUCTORS FROM POOLS OR FOUNTAINS SHALL COMPLY WITH THE PROVISIONS IN TABLE 680.9(A) FOR CONDUCTORS OPERATING AT 0 TO 750 VOLTS TO GROUND.

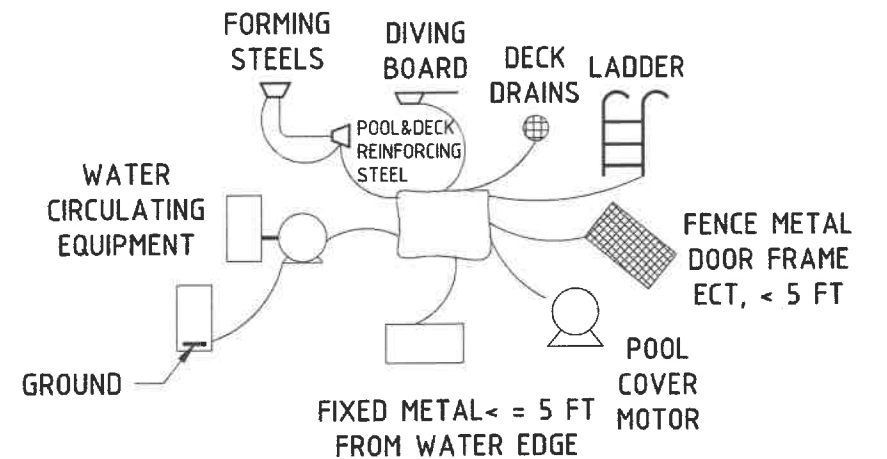
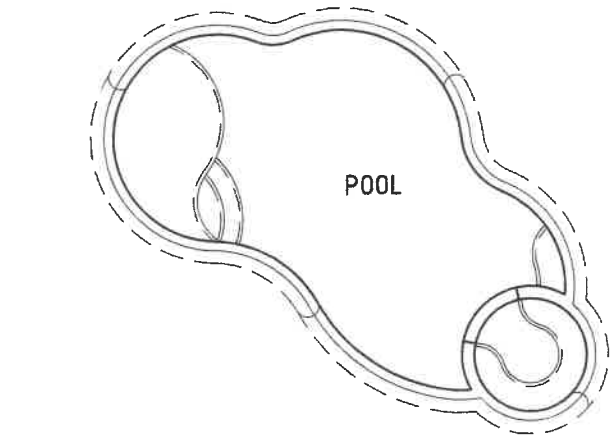
ARTICLE 680.10 ELECTRIC POOL WATER HEATERS. ALL ELECTRIC POOL WATER HEATERS SHALL HAVE THE HEATING ELEMENTS SUBDIVIDED INTO LOADS NOT EXCEEDING 48 AMPERES AND PROTECTED AT NOT OVER 60 AMPERES. THE AMPACITY OF THE BRANCH-CIRCUIT CONDUCTORS AND THE RATING OR SETTING OF OVERCURRENT PROTECTIVE DEVICES SHALL NOT BE LESS THAN 125 PERCENT OF THE TOTAL NAMEPLATE-RATED LOAD.

ARTICLE 680.11 UNDERGROUND WIRING LOCATION. UNDERGROUND WIRING SHALL BE PERMITTED WHERE INSTALLED IN RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, RIGID POLYVINYL CHLORIDE CONDUIT, REINFORCED THERMOSETTING RESIN CONDUIT, OR TYPE MC CABLE, SUITABLE FOR THE CONDITIONS SUBJECT TO THAT LOCATION. UNDERGROUND WIRING SHALL NOT BE PERMITTED UNDER THE POOL UNLESS THIS WIRING IS NECESSARY TO SUPPLY POOL EQUIPMENT PERMITTED BY THIS ARTICLE. MINIMUM COVER DEPTHS SHALL BE AS GIVEN IN TABLE 300.5.

ARTICLE 680.22 LIGHTING, RECEPTACLES, AND EQUIPMENT. (A) RECEPTACLES. (1) REQUIRED RECEPTACLE, LOCATION. WHERE A PERMANENTLY INSTALLED POOL IS INSTALLED, NO FEWER THAN ONE 125-VOLT, 15- OR 20-AMPERE RECEPTACLE ON A GENERAL-PURPOSE BRANCH CIRCUIT SHALL BE LOCATED NOT LESS THAN 1.83 M (6 FT) FROM, AND NOT MORE THAN 6.0 M (20 FT) FROM, THE INSIDE WALL OF THE POOL. THIS RECEPTACLE SHALL BE LOCATED NOT MORE THAN 2.0 M (6 FT 6 IN) ABOVE THE FLOOR, PLATFORM, OR GRADE LEVEL SERVING THE POOL. (2) CIRCULATION AND SANITATION SYSTEM, LOCATION. RECEPTACLES THAT PROVIDE POWER FOR WATER-PUMP MOTORS OR FOR OTHER LOADS DIRECTLY RELATED TO THE CIRCULATION AND SANITATION SYSTEM SHALL BE LOCATED AT LEAST 1.83 M (6 FT) FROM THE INSIDE WALLS OF THE POOL. THESE RECEPTACLES SHALL HAVE GFCI PROTECTION AND BE OF THE GROUNDING TYPE. (3) OTHER RECEPTACLES, LOCATION. OTHER RECEPTACLES SHALL BE NOT LESS THAN 1.83 M (6 FT) FROM THE INSIDE WALLS OF A POOL. (4) GFCI PROTECTION. ALL 15- AND 20-AMPERE, SINGLE-PHASE, 125-VOLT RECEPTACLES LOCATED WITHIN 6.0 M (20 FT) OF THE INSIDE WALLS OF A POOL SHALL BE PROTECTED BY A GROUND-FAULT CIRCUIT INTERRUPTER.

ARTICLE 680.26 EQUIPOTENTIAL BONDING. (A) PERFORMANCE. THE EQUIPOTENTIAL BONDING REQUIRED BY THIS SECTION SHALL BE INSTALLED TO REDUCE VOLTAGE GRADIENTS IN THE POOL AREA. (B) BONDED PARTS (CONDUCTIVE POOL SHELLS, PERIMETER SURFACES, METALLIC COMPONENTS, METAL FITTINGS, ELECTRICAL EQUIPMENT AND FIXED METAL PARTS) SHALL BE BONDED TOGETHER USING SOLID COPPER CONDUCTORS, INSULATED COVERED, OR BARE, NOT SMALLER THAN 8 AWG OR WITH RIGID METAL CONDUIT OF BRASS OR OTHER IDENTIFIED CORROSION-RESISTANT METAL. CONNECTIONS TO BONDED PARTS SHALL BE MADE IN ACCORDANCE WITH 250.8. AN 8 AWG OR LARGER SOLID COPPER BONDING CONDUCTOR PROVIDED TO REDUCE VOLTAGE GRADIENTS IN THE POOL AREA SHALL NOT BE REQUIRED TO BE EXTENDED OR ATTACHED TO REMOTE PANELBOARDS, SERVICE EQUIPMENT, OR ELECTRODES. (C) POOL WATER. WHERE NONE OF THE BONDED PARTS IS IN DIRECT CONNECTION WITH THE POOL WATER, THE POOL WATER SHALL BE IN DIRECT CONTACT WITH AN APPROVED CORROSION-RESISTANT CONDUCTIVE SURFACE THAT EXPOSES NOT LESS THAN 5800 MM SQUARED (9 SQUARE INCHES) OF SURFACE AREA TO THE POOL WATER AT ALL TIMES. THE CONDUCTIVE SURFACE SHALL BE LOCATED WHERE IT IS NOT EXPOSED TO PHYSICAL DAMAGE OR DISLODGEEMENT DURING USUAL POOL ACTIVITIES, AND IT SHALL BE BONDED IN ACCORDANCE WITH 680.26(B).

ELECTRICAL CONTRACTOR SHALL VERIFY THAT THE EXISTING SERVICE AND PANEL HAS ENOUGH CAPACITY TO ACCOMMODATE THE ADDED POOL EQUIPMENT LOAD PER NEC 220.82



## COMMON BONDING DETAIL

SCALE: N.T.S

SHEET 3

DRAWN DATE: 08/04/2022

ORDER: 561

JOB NO. : MARC-22-113

DESIGNER: JP

DRAWN BY: CPG

### MARCHITTO RESIDENCE

PALM BEACH SHORES

LT: 368

226 BAMBOO ROAD  
PALM BEACH SHORES, FL 33404

### BUILDING DEPARTMENT REVISIONS:

DATE	DESCRIPTION



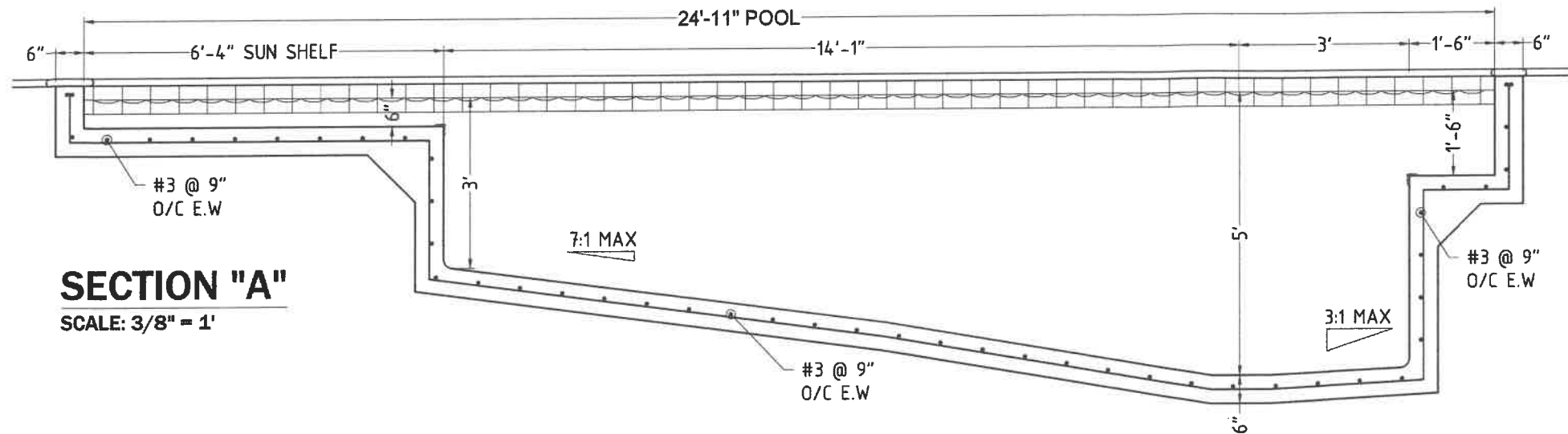
3144 SW 13th DRIVE  
DEERFIELD BEACH, FL. 33442  
(954) 755-4402

DATE: 12/09/2022

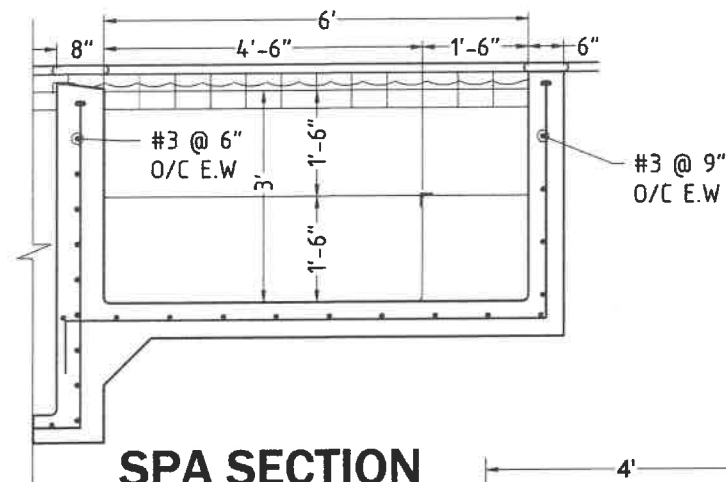
Wayne Markham Bennett, P.E.  
PE 57216 / (954) 818-3825  
WAYNE@WMB-PE.COM  
Markham Service, Inc. (CA 33018)  
1820 NE Jensen Beach Blvd.  
Unit # 685.  
Jensen Beach, FL. 34957



IF SIGNED DIGITALLY ABOVE, PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES



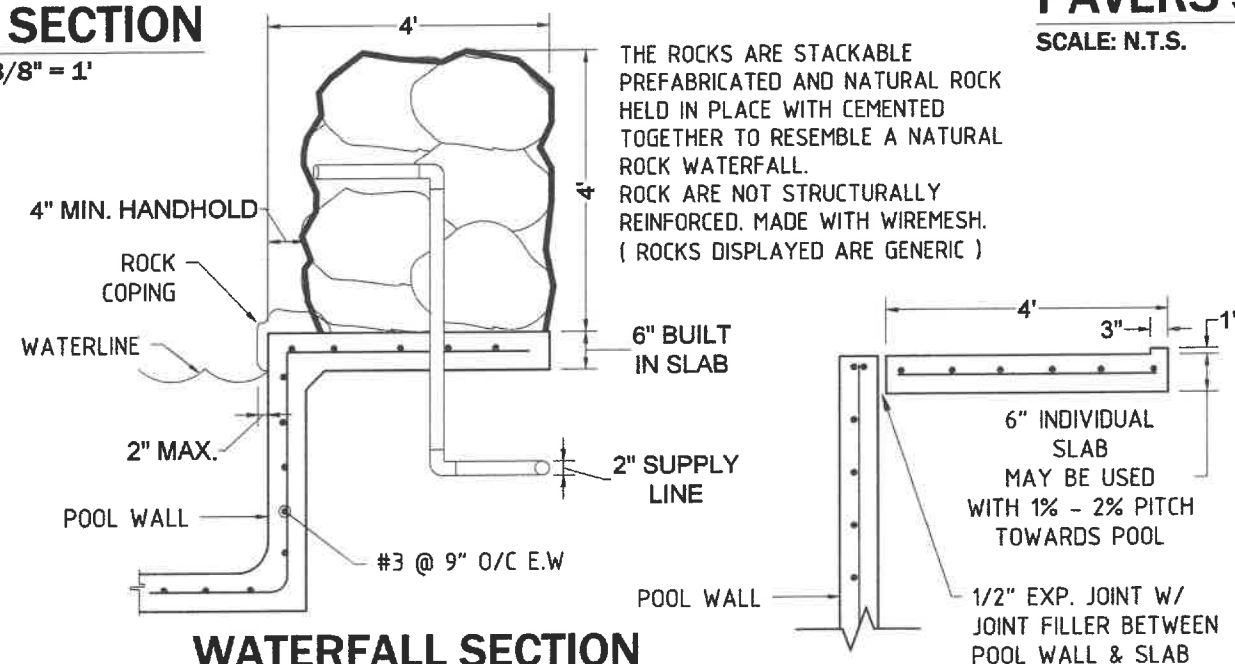
**SECTION "A"**  
SCALE: 3/8" = 1'



**SPA SECTION**  
SCALE: 3/8" = 1'

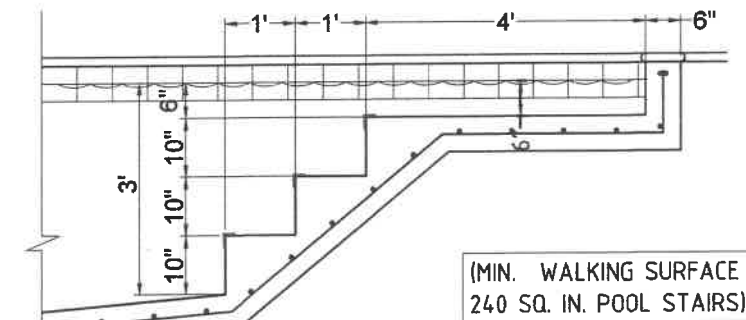
- FINISH GRADE 2"-3" BELOW PAVING SURFACE (TYP.)  
 MUDSET BORDER STONE IN 3" MORTAR BED.  
 UNIT PAVERS  
 -W/ SAND SWEEP JOINTS  
 -INSTALL PER MANUFACTURER SPECIFICATIONS  
 1"- 1 1/2" COMPACTED SETTING SAND  
 DO NOT USE RECYCLED CONCRETE, LIMESTONE SCREENINGS, STONE DUST, OR SAND MATERIAL THAT DOES NOT CONFORM TO THE GRADING REQUIREMENTS OF ASTM C 33 FOR CONCRETE SAND.  
 4" MINIMUM COMPACTED LIMEROCK BASE  
 COMPACTED TO 98% PER AASHTO T-180  
 COMPACT SUBGRADE TO 95% DRY DENSITY  
 2000 PSF SOIL BEARING CAPACITY

**PAVERS SET ON SAND**  
SCALE: N.T.S.

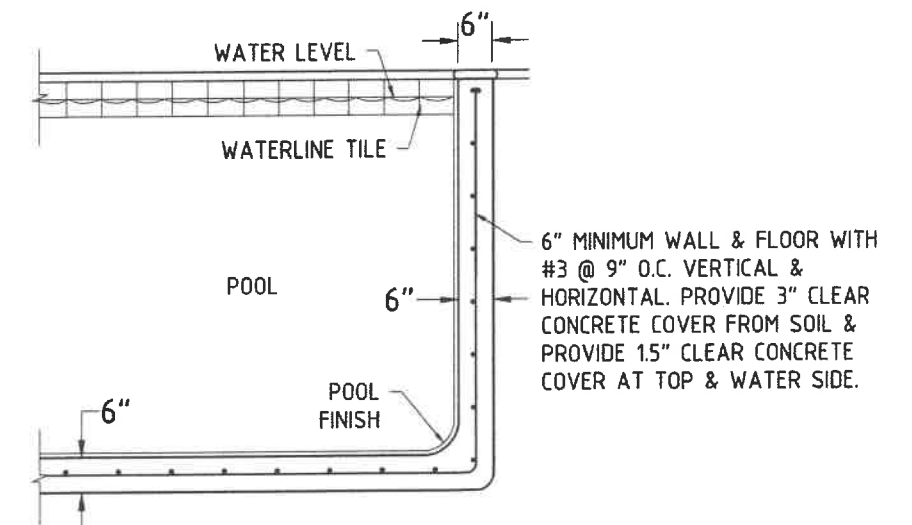


**WATERFALL SECTION**  
SCALE: 3/8" = 1'

NOTE:  
ANSI/APSP/ICC-5 2011 6.2.2 THRU 6.2.2.1 ALL STEP RISERS SHALL NOT EXCEED 12" MAX. (305 mm) VERTICAL DISTANCE FROM THE POOL DECK COPING. EXCEPT THE TOP RISER, WHICH MAY VARY BUT SHALL NOT EXCEED 12" (305 mm).



**STAIR SECTION**  
SCALE: 3/8" = 1'



**TYPICAL WALL SECTION**  
SCALE: 3/8" = 1'

SHEET 4

DRAWN DATE: 08/04/2022  
 ORDER: 561  
 JOB NO.: MARC-22-113  
 DESIGNER: JP  
 DRAWN BY: CPG

**MARCHITTO RESIDENCE**  
 PALM BEACH SHORES  
 LT: 368  
 226 BAMBOO ROAD  
 PALM BEACH SHORES, FL 33404

**BUILDING DEPARTMENT REVISIONS:**

DATE	DESCRIPTION



3144 SW 13th DRIVE  
 DEERFIELD BEACH, FL. 33442  
 (954) 755-4402

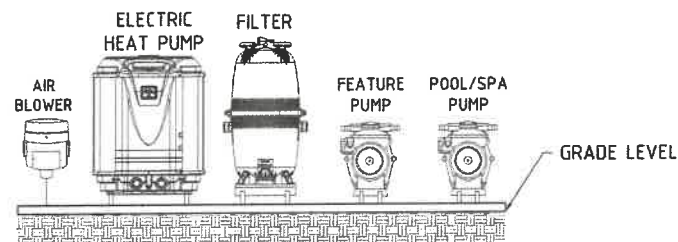
DATE: 12/09/2022

**Wayne Markham Bennett, P.E.**  
 PE 57216 / (954) 818-3825  
 WAYNE@WMB-PE.COM  
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 1820 NE Jensen Beach Blvd.  
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 Jensen Beach, FL. 34957



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(POOL PUMPS & HEATERS COMPLIES WITH FBC E.403.9). POOL PUMP TO BE HIGH ENERGY EFFICIENT AS PER FBC.

EQUIPMENT SHALL BE INSTALLED AT OR ABOVE DESIGN FLOOD ELEV. (BASE FLOOD EL. +1') VERIFY EL. REQUIREMENT WITH AUTHORITY HOLDING JURISDICTION.

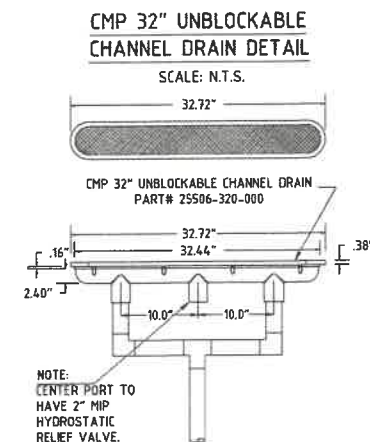
#### POOL EQUIPMENT AND ANCHORING:

POOL EQUIPMENT ELEVATION SHALL BE AT A MINIMUM OF THE DESIGN FLOOD ELEVATION (FBC 7<sup>TH</sup> EDITION RESIDENTIAL R322.1.4) PLUS 1 FOOT OR ACCORDING TO THE AUTHORITY HAVING JURISDICTION

FBC 7<sup>TH</sup> EDITION BUILDING 1620 HVHZ WIND LOADS AND 1621 HVHZ OVERTURNING MOMENT AND UPLIFT POOL EQUIPMENT SHALL BE DESIGNED, CONSTRUCTED AND INSTALLED TO MEET THE REQUIREMENTS OF ASCE 7. EQUIPMENT TIE DOWN SHALL BE AS FOLLOWS, HEATERS 4 TOTAL (1 PER SIDE OR 2 PER OPPOSITE SIDES); OTHERS 2 TOTAL: 3-1/2" MINIMUM THICK, 3000 PSI CONCRETE SLAB, 3" LARGER THAN ON EACH SIDE THAN THE EQUIPMENT; 1/4" DIAMETER TAPCON® CONCRETE SCREWS (1600# TENSION, 1290# SHEAR, 1-1/2" EMBEDMENT IN 2000 PSI CONCRETE) OR EQUAL WITH STAINLESS STEEL FENDER WASHER INTO FACTORY PROVIDED HOLD DOWNS OR 1" WIDE, 14 GAUGE GALVANIZED STRAPS WITH 2 STAINLESS STEEL, #10 X 3/4" PAN HEAD PHILLIPS SS SCREWS EACH STRAP INTO METAL FRAME OF EQUIPMENT

FBC 7<sup>TH</sup> EDITION BUILDING 1907.1 GENERAL THE THICKNESS OF CONCRETE EQUIPMENT SLAB SUPPORTED DIRECTLY ON THE GROUND SHALL NOT BE LESS THAN 3-1/2 INCHES THICK AND SHALL NOT REQUIRE A VAPOR BARRIER.

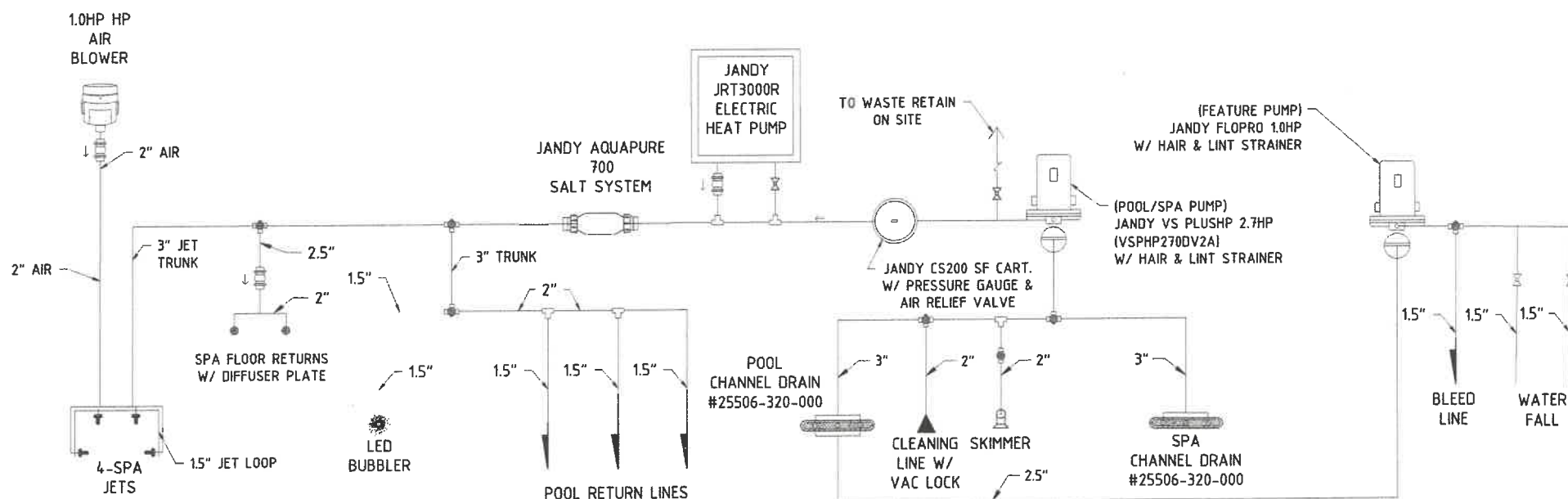
EQUIPMENT LOCATION AND SCREENING: THE EQUIPMENT AND PIPING PHYSICAL LOCATION MAY DIFFER IN THE FIELD DUE TO UNFORESEEN CONDITIONS OR OTHER FACTORS. CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND INSTALL ITEMS IN A LOCATION THAT MEETS LOCAL ZONING CODE AND TO PROVIDE CODE COMPLIANT LANDSCAPE OR FENCE SCREENING.



NOTE: SECTION CONFORMS TO F.B.C. 2020 COMPLIES WITH ANSI-15 & 7.

POOL/SPA PUMP(S):  
JANDY VS PLUSHP 2.7HP  
(VSPHP270DV2A), 150 GPM  
3" TRUNK SUCTION PIPES @ 6.45 FPS  
(VELOCITY 6 FPS OR 8 FPS)

FEATURE PUMP(S):  
JANDY FLOPRO FHPM 1.0HP  
100 GPM  
2.5" TRUNK SUCTION PIPES @ 6.80 FPS  
(VELOCITY 6 FPS OR 8 FPS)



## PIPING SCHEMATIC

SCALE: N.T.S.

- ↑ CHECK VALVE
- △ TEE
- 2 WAY VALVE
- 3 WAY VALVE
- X VALVE

R4501.6.3 WATER VELOCITY-  
APSP/ANSI-7 AND APSP/ANSI-15.  
PER FBC-2014 APSP 15 ENERGY CODE.

POOL PIPING SHALL BE DESIGNED SO THE WATER VELOCITY WILL NOT EXCEED 10 FPS (3048 MM/S) FOR PRESSURE PIPING AND 8FPS (2438 MM/S) FOR SUCTION PIPING, EXCEPT THAT THE WATER VELOCITY SHALL NOT EXCEED 8 FPS (2438 MM/S) IN COPPER TUBING. MAIN SUCTION OUTLET VELOCITY MUST COMPLY WITH APSP/ANSI-7.

SHEET 5

DRAWN DATE: 08/04/2022  
ORDER: 561  
JOB NO.: MARC-22-113  
DESIGNER: JP  
DRAWN BY: CPG

### MARCHITTO RESIDENCE

PALM BEACH SHORES  
LT: 368  
226 BAMBOO ROAD  
PALM BEACH SHORES, FL 33404

### BUILDING DEPARTMENT REVISIONS:

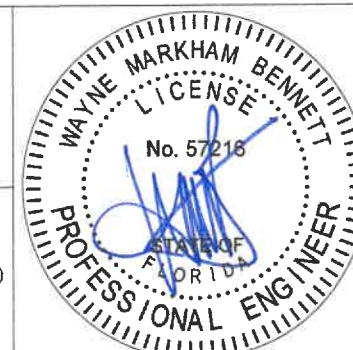
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GOVERNING CODES AND GENERAL NOTES:

2020 FLORIDA BUILDING CODE (FBC), 7<sup>TH</sup> EDITION AND ALL OTHER CODES, RULES, REGULATIONS, AND RESTRICTIONS HAVING JURISDICTION ON THE PROJECT SHALL GOVERN INCLUDING FBC 7<sup>TH</sup> EDITION BUILDING, RESIDENTIAL, FUEL GAS AND ENERGY CONSERVATION

FBC 7<sup>TH</sup> EDITION ENERGY CONSERVATION C404.2, SERVICE WATER HEATING EQUIPMENT PERFORMANCE EFFICIENCY: GAS POOL HEATERS 82%, HEAT PUMP 4.0 COP, SHALL BE MET FOR THIS PROJECT

FBC 7<sup>TH</sup> EDITION RESIDENTIAL CHAPTER 45: SWIMMING POOLS AND BUILDING CHAPTER 4, SECTION 454 SWIMMING POOLS AND BATHING PLACES (PUBLIC AND PRIVATE) SHALL SPECIFICALLY GOVERN

FBC 7<sup>TH</sup> EDITION R4501.6.1 CONFORMANCE STANDARD: DESIGN, CONSTRUCTION AND WORKMANSHIP SHALL BE IN CONFORMITY WITH THE REQUIREMENTS OF ANSI/APSP/ICC 3; ANSI/APSP/ICC 4; ANSI/APSP/ICC 5; ANSI/APSP/ICC 6; ANSI/APSP/ICC 7

FBC 7<sup>TH</sup> EDITION BUILDING CHAPTER 4, SECTION 454.16.5.10.4 IF THE AREA IS SUBJECT TO HIGH GROUND WATER, THE POOL SHALL BE DESIGNED TO WITHSTAND HYDRAULIC UPLIFT OR SHALL BE PROVIDED WITH HYDROSTATIC RELIEF DEVICES. FBC 7<sup>TH</sup> EDITION SECTION 454.2.21.4 AND R4501.21.4 HYDROSTATIC RELIEF DEVICE. IN AREAS OF ANTICIPATED WATER TABLE AN APPROVED HYDROSTATIC RELIEF DEVICE SHALL BE INSTALLED

FBC 7<sup>TH</sup> EDITION R4501.6.3 WATER VELOCITY. POOL PIPING IS DESIGNED SO THE WATER VELOCITY WILL NOT EXCEED 10 FEET PER SECOND FOR PRESSURE PIPING AND 8 FEET PER SECOND FOR SUCTION PIPING. MAIN SUCTION OUTLET VELOCITY MUST COMPLY WITH ANSI/APSP/ICC 7. EXCEPTION: JET INLET FITTINGS SHALL NOT BE DEEMED SUBJECT TO THIS REQUIREMENT

CONCRETE SHALL CONFORM TO THE LATEST EDITION OF ACI 301 AND ACI 318, WITH MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,500 PSI. POOL CONCRETE CAN BE APPLIED PNEUMATICALLY AND SHALL CONFORM TO THE LATEST EDITION OF ACI 506.2

REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF ASTM A615, GRADE 40 (#3, #4), GRADE 60 (#5) AND HAVE A MINIMUM LAP DISTANCE OF 18" FOR #3, 24" FOR #4 AND 30" FOR #5 TO MEET THE REQUIREMENTS OF THE LATEST EDITION OF ACI 318. DISCONTINUOUS REINFORCEMENT BARS SHALL TERMINATE IN STANDARD ACI HOOKS. ALL HOOKS ARE STANDARD UNLESS OTHERWISE NOTED

FBC 7<sup>TH</sup> EDITION BUILDING 1903.3 GLASS FIBER REINFORCED CONCRETE GFRC AND THE MATERIALS USED IN SUCH CONCRETE SHALL BE IN ACCORDANCE WITH THE PCI MNL 128 STANDARD, IF SHOWN ON THE DRAWINGS

POOL PIPING SHALL BE N.S.F APPROVED AND MINIMUM SCHEDULE 40

NDPES: A SILT FENCE AND ANY OTHER ITEM, SUCH AS A CONSTRUCTION ENTRANCE, WITH TIRE WASH STATION SHALL BE INSTALLED AND INSPECTED, IF REQUIRED, PRIOR TO CONSTRUCTION SURROUNDING THE WORK AREA MEETING THE REQUIREMENTS OF THE AHJ

OSHA 1926: SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION SHALL BE FOLLOWED ESPECIALLY DURING OPEN EXCAVATION AND TRENCHING

CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AND PROTECT ALL MATERIAL BROUGHT ON SITE, SHALL RESTORE ALL AREAS IMPACTED BY THE CONSTRUCTION WORK TO THE PREEXISTING CONDITION OR BETTER AND SHALL NOT IMPACT DRAINAGE/LAKE, RIGHT OF WAY OR ANY OTHER EASEMENTS WITHOUT CONSENT

EXISTING CONDITIONS, DIMENSIONS AND QUANTITIES SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION, AS THE ENGINEER HAS NOT BEEN TO THE LOCATION. TYPICAL FIELD CONDITIONS ARE ASSUMED IN THE DESIGN. SHOULD ANYTHING DIFFER FROM THAT SPECIFIED HEREIN OR STANDARD FIELD CONDITIONS, ADDITIONAL ENGINEERING MAY BE REQUIRED AND THE ENGINEER SHALL BE CONTACTED TO PROVIDE DIRECTION. CARE SHALL BE TAKEN BY CONTRACTOR IN ALL APPLICATIONS OF THESE DRAWINGS. THE EQUIPMENT AND PIPING PHYSICAL LOCATION MAY DIFFER IN THE FIELD DUE TO UNFORESEEN CONDITIONS OR OTHER FACTORS. THESE DRAWINGS SHALL NOT BE SCALED, WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE. CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND INSTALL ITEMS IN A LOCATION THAT MEETS LOCAL CODES

THESE DRAWINGS ARE THE PROPERTY OF WAYNE MARKHAM BENNETT, P.E. USE OF THESE DRAWINGS WITHOUT PERMISSION FROM THE ENGINEER IS PROHIBITED. THE ENGINEER DOES NOT REVIEW THE DRAWINGS FOR COMPLIANCE WITH THE AGREEMENT BETWEEN CONTRACTOR AND HOMEOWNER. THE ENGINEER IS NOT RESPONSIBLE FOR ANY ENCROACHMENT INTO EASEMENTS OR SETBACKS, EVEN IF APPROVED BY THE AHJ. THE CONTRACTOR SHALL VERIFY COMPLIANCE WITH SETBACKS AND EASEMENTS. THE ENGINEER REVIEWS THE PLANS FOR CODE COMPLIANCE TO THE BEST OF HIS KNOWLEDGE. USE OF THESE DRAWINGS BY THE CONTRACTOR AND HOMEOWNER INDEMNIFIES AND HOLDS HARMLESS THE ENGINEER FOR ALL COSTS AND DAMAGES INCLUDING LEGAL FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION AND CONSTRUCTION PRACTICES BEYOND WHICH IS CALLED FOR LOCAL, STATE AND FEDERAL CODES AND FROM DEVIATIONS OF THESE PLANS EXCEPT AS EXPRESSLY PROVIDED HEREIN. THE ENGINEER IS NOT RESPONSIBLE FOR AND HAS NO LIABILITY FOR CONSTRUCTION IN SETBACKS OR EASEMENTS, AND CONTRACTOR AND/OR HOMEOWNER REQUIREMENTS AND/OR AGREEMENTS RELATED TO THE POOL AND/OR SPA. REGARDLESS OF CAUSE, THE ENGINEER'S LIABILITY IN RELATION TO THESE PLANS IS LIMITED TO THE LESSER OF \$500 OR THE FEE CHARGED BY THE ENGINEER FOR THESE PLANS.

DECK NOTES:

DECK MATERIAL SHALL BE CERTIFIED SLIP RESISTANT BY THE MANUFACTURER AND BE SLOPED AWAY TO EFFECTIVELY DRAIN AWAY FROM THE POOL OR TOWARDS THE DECK DRAINS AT A MIN. 1/4" PER FOOT. DECK INSTALLER SHALL PROVIDE A CONTINUOUS, FULL-DEPTH EXPANSION JOINT BETWEEN THE POOL BEAM AND DECK MATERIAL. POOL BARRIER SHALL COMPLY WITH FBC, BUILDING SECTIONS 454.2.17.1.1. THROUGH 454.2.17.1.14 AND FBC, RESIDENTIAL SECTIONS R4501.17.1.1 THROUGH R4501.17.1.14

SWIMMING BARRIER REQUIREMENTS:

FBC 7<sup>TH</sup> EDITION RESIDENTIAL R4501.17 RESIDENTIAL SWIMMING BARRIER REQUIREMENT RESIDENTIAL SWIMMING POOLS SHALL COMPLY WITH SECTIONS R4501.17.1 THROUGH R4501.17.3. EXCEPTION: A SWIMMING POOL WITH AN APPROVED SAFETY POOL COVER COMPLYING WITH ASTM F1346

FBC 7<sup>TH</sup> EDITION RESIDENTIAL R4501.17.1 OUTDOOR SWIMMING POOLS OUTDOOR SWIMMING POOLS SHALL BE PROVIDED WITH A BARRIER COMPLYING WITH R4501.17.1.1 THROUGH R4501.17.1.14

A SWIMMING BARRIER AROUND THE POOL AREA THAT MEETS THE ABOVE CODE IS REQUIRED PRIOR TO FINAL POOL STRUCTURAL INSPECTION AND FILLING OF THE POOL

SOIL BEARING AND FOUNDATION NOTES:

FBC 7<sup>TH</sup> EDITION BUILDING 1803 GEOTECHNICAL INVESTIGATIONS: THE BUILDING OFFICIAL SHALL BE PERMITTED TO WAIVE THE REQUIREMENT. ALLOWABLE BEARING CAPACITY: BASED ON RATIONAL ANALYSIS THROUGH KNOWLEDGE OF OTHER PROJECTS IN THE VICINITY AND A VISUAL EXAMINATION OF THE SURFACE SOIL, FINDING SAND AND ROCK, THE POOL FOUNDATION HAS BEEN DESIGNED ASSUMING 2,000 PSF SOIL BEARING CAPACITY PER TABLE R401.4.1. IF DURING EXCAVATION DELETERIOUS MATERIAL (SUCH AS SILT, PEAT, MUCK, CLAY, ETC.) IS FOUND THAT CANNOT PROVIDE 2,000 PSF, THE ENGINEER SHALL BE CONTACTED TO PROVIDE DIRECTION.

FLOOD ZONE:

FBC 7<sup>TH</sup> EDITION RESIDENTIAL R322 FLOOD-RESISTANT CONSTRUCTION STRUCTURES CONSTRUCTED IN WHOLE OR PART IN FLOOD HAZARD AREAS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THIS SECTION ESPECIALLY R322.1.2 STRUCTURAL SYSTEMS, 322.1.3 FLOOD-RESISTANT CONSTRUCTION AND R322.2.5 POOLS IN FLOOD HAZARD AREAS. IF STRUCTURES CONSTRUCTED IN WHOLE OR PART IN FLOODWAYS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ASCE 24 AND THE CONSTRUCTION OF THIS POOL WILL NOT INCREASE THE DESIGN FLOOD ELEVATION AT ANY POINT WITHIN THE JURISDICTION.

GRADING AND DRAINAGE NOTES:

- 1) DECK SHALL SLOPE 2% AWAY FROM POOL AND HOUSE TOWARD LANDSCAPING OR OTHER PERVIOUS AREA.
- 2) CONTRACTOR SHALL RESTORE ALL AREAS IMPACTED BY PROPOSED WORK TO EXISTING CONDITION OR BETTER.
- 3) CONTRACTOR SHALL NOT IMPACT DRAINAGE/LAKE MAINTENANCE EASEMENT IN ANY WAY WITHOUT EASEMENT OWNER CONSENT.
- 4) CONTRACTOR SHALL TAKE CARE TO ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT NEGATIVELY IMPACT ADJACENT PROPERTIES UPSTREAM AND DOWNSTREAM OF THE PROJECT AND WILL ENSURE THAT SITE DRAINAGE IS RESTORED TO EXISTING CONDITION OR BETTER DURING AND AFTER CONSTRUCTION.
- 5) SITE GRADING SHALL NOT EXCEED 4:1 SLOPE AT ANY LOCATION.
- 6) RAINWATER RUNOFF MUST BE MAINTAINED ON THE PROPERTY.
- 7) RAINWATER SHALL NOT BE ALLOWED TO FLOW ONTO OR ACROSS ANY ADJOINING PROPERTY OR SIDEWALK, EITHER PUBLIC OR PRIVATE. EXCEPTION: RAINWATER MAY FLOW INTO A STREET GUTTER, STORM SEWER, OR STORM SEWER CATCH BASIN IF FIRST APPROVED BY THE ENGINEERING DEPARTMENT.
- 8) CONTRACTOR SHALL COORDINATE A SITE INSPECTION WITH CITY ENGINEERING PRIOR TO EXCAVATING AND GRADING.
- 9) FILL SHALL NOT BE PLACED ALONG PROPERTY LINES AND/OR DRAINAGE SWALES.

SHEET 6

DRAWN DATE: 08/04/2022

ORDER: 561

JOB NO. : MARC-22-113

DESIGNER: JP

DRAWN BY: CPG

MARCHITTO RESIDENCE

PALM BEACH SHORES  
LT: 368  
226 BAMBOO ROAD  
PALM BEACH SHORES, FL 33404

BUILDING DEPARTMENT REVISIONS:

DATE

DESCRIPTION



3144 SW 13<sup>th</sup> DRIVE  
DEERFIELD BEACH, FL. 33442  
(954) 755-4402

DATE: 12/09/2022

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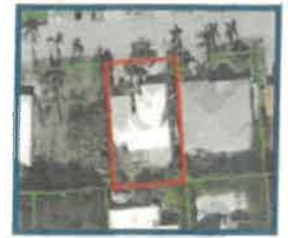
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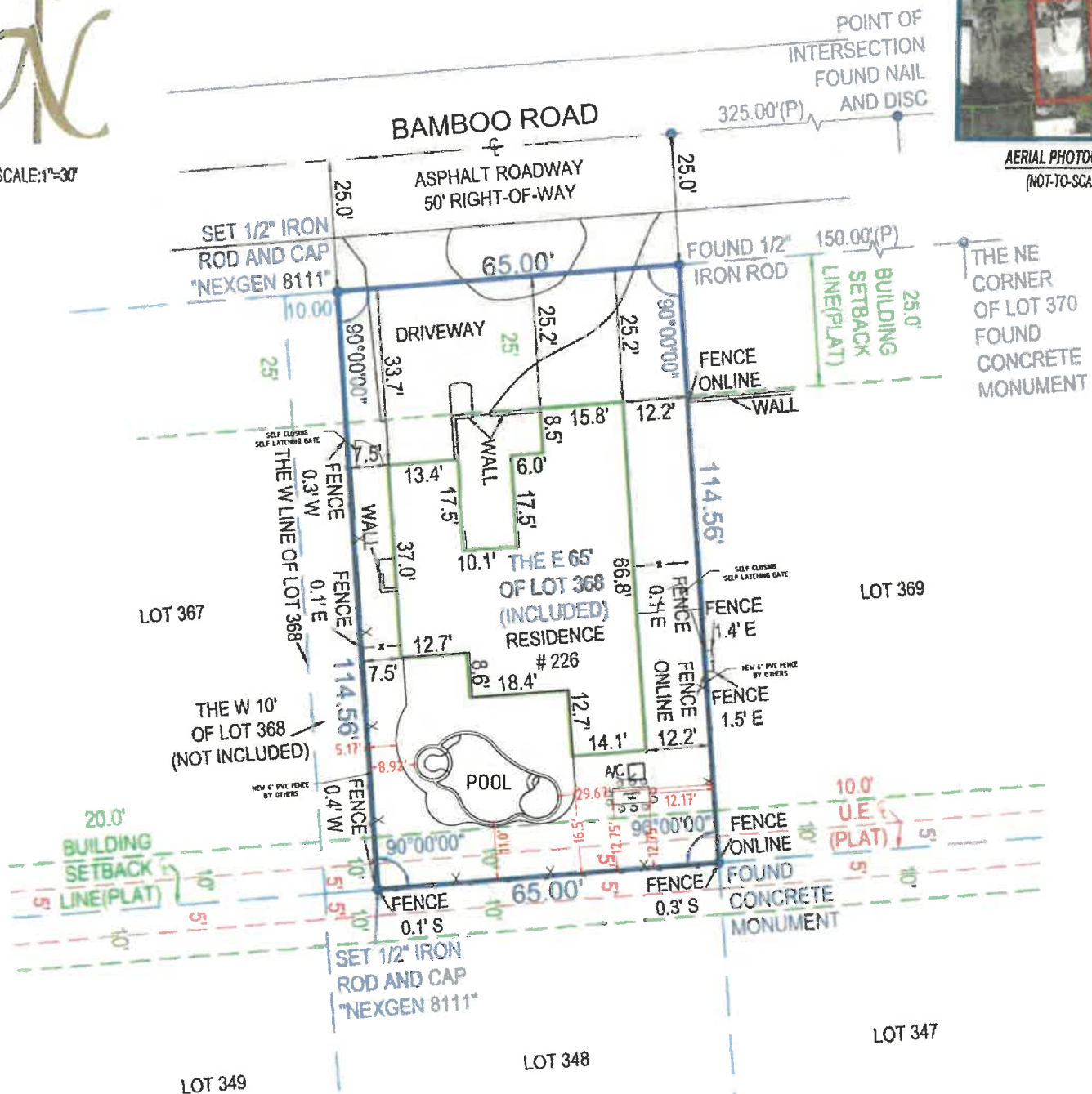
# 226 BAMBOO ROAD, PALM BEACH SHORES, FL. 33404



SCALE: 1"=30'



AERIAL PHOTOGRAPH  
(NOT-TO-SCALE)



- ALL ANGLES AND DISTANCES SHOWN HEREON ARE BOTH RECORD AND MEASURED UNLESS OTHERWISE NOTED

SHEET 1 OF 2 (SKETCH OF SURVEY) - SEE SHEET 2 OF 2 FOR LEGAL DESCRIPTION AND OTHER SURVEY RELATED DATA. SURVEY IS NOT COMPLETE WITHOUT ALL SHEETS

The survey map & report or the copies thereof are not valid without the digital signature and seal of a Florida licensed surveyor and mapper

Date of Field Work : 04-14-2022

Drawn By: Oleg

Order #: 178074

Last Revision Date: None

Boundary Survey prepared by: LB8111

NexGen Surveying, LLC

561-508-6272

1421 Oglethorpe Rd

West Palm Beach, FL 33405

**NEXGEN**  
SURVEYING, LLC.



**LEGAL DESCRIPTION OF: 226 BAMBOO RD, PALM BEACH SHORES, FL, 33404**

LOT 368, LESS THE WEST 10 FEET THEREOF, PALM BEACH SHORES, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 23, PAGE 29, PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA.

**CERTIFIED TO:**

ELENA MARCHITTO  
JAMES M. STEWART, ESQ  
ROCKET MORTGAGE ISOA ATIMA  
OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY

**FLOOD ZONE:**

12099C0393F  
ZONE: X500  
EFF: 10/05/2017

**SURVEY NOTES:**

- DRIVEWAY CROSSES THE BOUNDARY LINE ON NORTHERLY SIDE OF LOT AS SHOWN.
- FENCES LIE NEAR BOUNDARY LINES AS SHOWN, OWNERSHIP NOT DETERMINED.

**LEGEND**

A/C	-AIR CONDITIONER
WM	-WATER METER
AL	- ARC LENGTH
(C)	-CALCULATED
(M)	-MEASURED
P.O.B.	-POINT OF BEGINNING
P.O.C.	-POINT OF COMMENCEMENT
&	-AND
P.B.	-PLAT BOOK
PG	-PAGE
U.E.	-UTILITY EASEMENT
D.E.	-DRAINAGE EASEMENT
P.U.E.	-PUBLIC UTILITY EASEMENT
L.A.E.	-LIMITED ACCESS EASEMENT
L.M.E.	-LAKE MAINTENANCE EASEMENT
O.H.E.	-OVERHEAD EASEMENT
R	-RADIUS
(R)	-RECORD
O.R.B.	-OFFICIAL RECORDS BOOK
Sq.Ft.	-SQUARE FEET
Ac.	-ACRES
DB	-DEED BOOK
(D)	-DEED
(P)	-PLAT
EOW	-EDGE OF WATER
TOB	-TOP OF BANK
OHL	-OVERHEAD LINE
C/O	-CLEAN OUT
ELEV	-ELEVATION
FF	-FINISHED FLOOR
LS	-LICENSED SURVEYOR
LB	-LICENSED BUSINESS
PSM	-PROFESSIONAL SURVEYOR & MAPPER
- x -	-FENCE
#	-NUMBER
±	-PLUS OR MINUS
□	-ASPHALT
□	-CONCRETE
□	-PAVER/BRINCK
□	-WOOD
⊙	-LIGHT POLE
⊙	-WELL
⊙	-WATER VALVE
⊙	-CENTER LINE
⊙	-CATCH BASIN
⊙	-FIRE HYDRANT
⊙	-UTILITY POLE
⊙	-MANHOLE
XXX	-ELEVATION

SOME ITEMS IN LEGEND MAY NOT  
APPEAR ON DRAWING.

**GENERAL NOTES:**

- 1) THIS SURVEY IS BASED UPON RECORD INFORMATION BY CLIENT. NO SPECIFIC SEARCH OF THE PUBLIC RECORD HAS BEEN MADE BY THIS OFFICE UNLESS OTHERWISE NOTED.
- 2) IF THIS SURVEY HAS BEEN PREPARED FOR THE PURPOSES OF A MORTGAGE TRANSACTION, ITS SCOPE IS LIMITED TO THE DETERMINATION OF TITLE DEFICIENCIES. NO FUTURE CONSTRUCTION SHALL BE BASED UPON THIS SURVEY WITHOUT FIRST OBTAINING APPROVAL AND/OR UPDATES FROM NEXGEN SURVEYING, LLC. NEXGEN SURVEYING, LLC, ASSUMES NO RESPONSIBILITY FOR ERRORS RESULTING FROM FAILURE TO ADHERE TO THIS CLAUSE. 3) ANY FENCES SHOWN HEREON ARE ILLUSTRATIVE OF THEIR GENERAL POSITION ONLY. FENCE TIES SHOWN ARE TO GENERAL CENTERLINE OF FENCE. THIS OFFICE WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING SOLELY ON THEIR PHYSICAL RELATIONSHIP TO THE MONUMENTED BOUNDARY LINES. 4) GRAPHIC REPRESENTATIONS MAY HAVE BEEN EXAGGERATED TO MORE CLEARLY ILLUSTRATE MEASURED RELATIONSHIPS - DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED POSITIONS. 5) UNDERGROUND IMPROVEMENTS HAVE NOT BEEN LOCATED EXCEPT AS SPECIFICALLY SHOWN. 6) ELEVATIONS ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D. 1929) OR NORTH AMERICAN VERTICAL DATUM (N.A.V.D. 1988). 7) ALL BOUNDARY AND CONTROL DIMENSIONS SHOWN ARE FIELD MEASURED AND CORRESPOND TO RECORD INFORMATION UNLESS SPECIFICALLY NOTED OTHERWISE. 8) CORNERS SHOWN AS "SET" ARE 5/8" IRON RODS IDENTIFIED WITH A PLASTIC CAP MARKED LS (LICENSED SURVEYOR)

LB 8111

info@NexGenSurveying.com



www.NexGenSurveying.com

561-508-6272

1421 Oglethorpe Rd  
West Palm Beach  
FL 33405



## DEVELOPMENT APPLICATION

TOWN OF PALM BEACH SHORES  
247 EDWARDS LANE  
PALM BEACH SHORES, FL 33404  
(561) 844-3457

OWNER/APPLICANT: RP Trust / Recy Palacio

PROJECT ADDRESS: 300 Bravado Lane

APPLICATION NO.: \_\_\_\_\_ SUBMITTAL DATE: \_\_\_\_\_

### TYPE OF APPROVAL(S) REQUESTED (Check box(es) ☒)

ADMINISTRATIVE APPEAL		SITE PLAN MODIFICATION (14-62)	<input checked="" type="checkbox"/>
ARCHITECTURAL AND AESTHETIC REVIEW (Pf. 14-86)	<input checked="" type="checkbox"/>	SITE PLAN REVIEW (14-62)	<input checked="" type="checkbox"/>
COMPREHENSIVE PLAN AMENDMENT (Pf. 17.3(B))		SPECIAL EXCEPTION (Pf. 15.8)	
PLAT APPROVAL		VARIANCE (Pf. 15.4)	
REZONING (Pf. 17.3(B))		ZONING TEXT AMENDMENT (Pf. 17.3(B))	

	PROPERTY OWNER(S)	APPLICANT (If different than Owner(s))
NAME:	<u>RP Trust</u>	<u>Recy Palacio</u>
ADDRESS:	<u>300 Bravado Lane</u>	
PHONE:	<u>786 286 9500</u>	
EMAIL:	<u>recypal@aol.com</u>	

	AGENT (If different than Owner(s))	CURRENT OCCUPANT (If different than Owner(s))
NAME:		
ADDRESS:		
PHONE:		
EMAIL:		

## AUTHORIZATION OF AGENT & ACKNOWLEDGEMENT OF FINANCIAL RESPONSIBILITY

Consent to an agent is required from the property owner(s) and contract purchaser, if applicable, if the property owner(s) or contract purchaser does not intend to attend all meetings and public hearings and submit it person all material pertaining to the Application. Consent to a firm shall be deemed consent for the entire firm, unless otherwise specified.

This form shall serve as consent for the agent identified below to prepare or have prepared all documents for the Application affecting property I (We) have an ownership interest in.

I (We) hereby designate and authorize the below-signed person to act as my (our) agent in regard to this Application and accept financial responsibility for any costs incurred by the agent as a result of this Application. Further, I (We) acknowledge that no permit will be issued before all fees associated with Application are paid.

[Signature]  
Signature of Owner or Trustee

10-27-2022  
Date

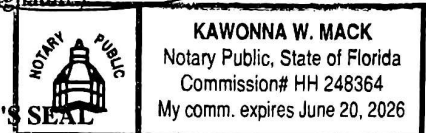
### STATE OF FLORIDA PALM BEACH COUNTY:

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization this 27<sup>th</sup> day of OCTOBER 2022 by REY PALACIO who is personally known to me or has produced FLORIDA DRIVER LICENSE (type of identification) as identification.

Kawonna W. Mack  
(Name - type, stamp or print clearly)

[Signature]  
(Signature)

NOTARY'S SEAL



### Agent Information:

\_\_\_\_\_  
Printed Name of Agent

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
Signature of Agent


\_\_\_\_\_  
Date

## OWNER ACKNOWLEDGMENT & CERTIFICATION

I (We) affirm and certify that I (We) understand and will comply with all provisions and regulations of the Town of Palm Beach Shores, Florida. I (We) understand that if this Application is approved by the Town, the aforementioned real property described herein will be considered, in every respect, to be a part of the Town of Palm Beach Shores and will be subjected to all applicable laws, regulations, taxes and police powers of the Town including the Comprehensive Plan and Zoning Ordinance. I (We) further certify that all statements and diagrams submitted herewith are true and accurate to the best of my (our) knowledge and belief. Further, I (We) understand that this Application and attachments become part of the Official Records of the Town of Palm Beach Shores, Florida and are not returnable. I (We) acknowledge that no permit will be issued before all fees associated with Application are paid.

1. Owner acknowledges and understands that the fee for site plan review, architectural/aesthetic review, variance, special exception, rezoning, etc. **may not cover all review costs**. A final statement of any outstanding costs (covering advertising costs, legal, architectural and other consultant costs) will be sent to the applicant upon completion of the review process. Owner accepts financial responsibility for all costs incurred as a result of this Application.
2. A construction schedule is required of all developers during the development process. The Planning and Zoning Board must approve your proposed construction schedule.
3. The Town requires payment of impact fees for floor area added during the development, re-development or renovation of a property. These impact fees will be used to pay for capital improvements relative to Fire Protection, Police Protection, Parks & Recreation and Public Buildings. Impact fees must be paid to the Town before a Certificate of Occupancy will be issued.
4. Roll-off dumpsters for construction/demolition debris and solid waste must be rented through the Town's contracted solid waste hauler, Waste Management.
5. Final as-built plans must be submitted to the Town in digital form, preferably in PDF format.

By signing below, I acknowledge that I have read and understand the five (5) items listed above.

  
\_\_\_\_\_  
Signature of Owner

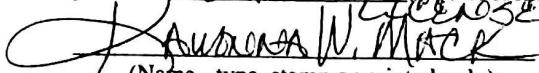
10-27-2022  
\_\_\_\_\_  
Date


RECY PAL @ AOL.COM  
\_\_\_\_\_  
Printed Name of Owner

### STATE OF FLORIDA PALM BEACH COUNTY:

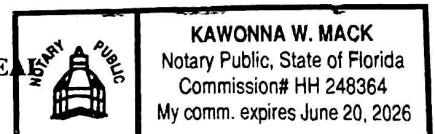
The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization this 27<sup>th</sup> day of October 2022.

by RECY PALACIO who is personally known to me or has produced FL DRIVER LICENSE (type of identification) as identification.

  
(Name - type, stamp or print clearly)

  
(Signature)

NOTARY'S SEAL





	PLANNER	DEVELOPER
NAME:		
ADDRESS:		
PHONE:		
EMAIL:		

	ARCHITECT	LANDSCAPE ARCHITECT
NAME:		
ADDRESS:		
PHONE:		
EMAIL:		

	SURVEYOR	ATTORNEY
NAME:		
ADDRESS:	Compass Surveying 4250 Military Trail Suite 102	
PHONE:	561 440 4800	
EMAIL:		

	ENGINEER (USE ADD'L SHEET FOR MULTIPLE ENGINEERS)	
NAME:		
ADDRESS:		
PHONE:		
EMAIL:		



## **PROCEDURES AND TIMELINES**

All development applications required to be submitted to the Planning and Zoning Board for review (Site Plan Review, Site Plan Modification, Architectural and Aesthetic Review, Special Exceptions and Variances) will be subject to the following procedures:

1. Development Review Committee ("DRC") review is regularly scheduled for the first Wednesday of each month at 2:00 pm. In order to be placed on the DRC agenda, a complete application must be submitted to the Town Clerk by the close of business on Monday of the week prior to the regularly scheduled DRC meeting. **Incomplete applications and late submittals will not be placed on a DRC agenda.**
2. If, as a result of the initial DRC review, it is determined by the DRC that a subsequent DRC meeting is necessary, the complete revised application must be submitted to the Town Clerk by the close of business on Monday of the week prior to the regularly scheduled DRC meeting. **Applications that fail to include all revisions required by the DRC, or that are submitted late will not be placed on a DRC agenda until they have been corrected and are timely.**
3. If, as a result of the initial DRC review, it is determined by the DRC that the project can proceed to the Planning and Zoning Board, a complete Planning and Zoning Board application must be submitted to the Town Clerk including all revisions noted by the DRC. A sufficiency review will be performed by the Town to confirm that all comments provided by the DRC have been addressed and a complete revised application submitted. Once all DRC comments have been adequately addressed and a complete revised application submitted, the submittal will be placed on the agenda for the next available Planning and Zoning Board, subject to legal advertising requirements. Planning and Zoning Board review is regularly scheduled for the fourth Wednesday of each month. **Applications that fail to include all revisions required by the DRC or that are incomplete will not be placed on a Planning and Zoning Board agenda.**

## **APPLICATION FEE INFORMATION**

Administrative Appeal	\$250.00
Site Plan Review	\$350.00
Site Plan Modification Review	\$350.00
Variance Request	\$350.00
Special Exception Request	\$250.00
Telecom Site Plan Review or Modification	\$500.00
Plat Approval Request	\$600.00
Comprehensive Plan Amendment	\$750.00
Zoning Text Amendment / Rezoning	\$750.00
Sufficiency Review	Zoning Official (rate per hour)

FLOOR AREA	CODE REQUIREMENT	EXISTING	PROPOSED
FIRST FLOOR AREA (sq. ft.):	None		
SECOND FLOOR AREA (sq. ft.): (Pf. 5.4.2, Zoning Ordinance)			
TOTAL FLOOR AREA (sq. ft.): (Pf. 2.23, Zoning Ordinance)	None		
FLOOR AREA RATIO: (Pf. 5.4.2, Zoning Ordinance)			
DWELLING UNIT DENSITY: (Pf. 6.5, 7.6 or 8.6, Zoning Ordinance)			
<b>IMPERVIOUS AREA</b>	<b>NET INCREASE</b>	<b>EXISTING</b>	<b>PROPOSED</b>
BUILDING FIRST FLOOR AREA (sq. ft.):			
OTHER IMPERVIOUS AREA (sq. ft.): (Decks, Patios, Walkways, Driveways, Pool Deck & Pool Surface Areas)	58 ft. + walkaway rear property	○	58 ft
TOTAL IMPERVIOUS AREA (sq. ft.):	58	○	58
<b>ELEVATIONS</b>	<b>CODE REQUIREMENT</b>	<b>EXISTING</b>	<b>PROPOSED</b>
GRADE ELEVATION (NAVD): (Pf. 4.6, Zoning Code)			
ESTABLISHED 1 <sup>ST</sup> FLOOR ELEVATION (NAVD): (Pf. 4.6, Zoning Code)			
MEAN CROWN OF ROAD ELEVATION (NAVD):	None		
<b>BUILDING HEIGHT</b>	<b>CODE REQUIREMENT</b>	<b>EXISTING</b>	<b>PROPOSED</b>
TOTAL BUILDING HEIGHT (NAVD): (Pf. 5.2, 6.2, 7.3 or 8.3, Zoning Ordinance)			
TOP OF BEAM HEIGHT (NAVD): (Pf. 5.2, 6.2, 7.3 or 8.3, Zoning Ordinance)			
ROOF PITCH: (Pf. 5.2, 6.2 or 7.3, Zoning Ordinance)			
FLAT ROOF PERCENTAGE: (Pf. 5.2, Zoning Ordinance)			

Tabular data showing compliance with all lot coverage, floor area, building height, grade and landscaping requirements must be provided on all submitted plans (Town Code § 14-62).

PROJECT NAME: RP Trust / Recy Palacio

PROJECT ADDRESS: 300 Bravado Lane

PROJECT LEGAL DESCRIPTION: \_\_\_\_\_

\*\*\* All boxes must be completed, use N/A where appropriate \*\*\*

GENERAL DATA	CODE REQUIREMENT	EXISTING	PROPOSED
COMPREHENSIVE PLAN DESIGNATION: (SF-5, MF-21, MF-30, MF-42, P, ROS)	None	SF-5	SF-5
LAND USE: (Residential, Commercial, Recreational, Marina, Public, etc.)	None	Res	Res
ZONING DISTRICT: (A, B, C, D, P, ROS, designated at Pf. 3.1, Zoning Ordinance)	None	A	A
FLOOD ZONE CATEGORY:	None	X	X
LOT COVERAGE, LANDSCAPING & PARKING	CODE REQUIREMENT	EXISTING	PROPOSED
TOTAL LOT SIZE: (sq. ft.)	None	8,042	38
TOTAL COVERAGE OF A LOT BY BUILDINGS: (Pf. 5.4, 6.4, 7.5 or 8.5, Zoning Ordinance)			
TOTAL LANDSCAPE COVERAGE: (Pf. 5.4.3, Zoning Ordinance)	20%	10%	01%
OFF-STREET PARKING: (Pf. 5.13, 6.12, 7.13 or 8.14, Zoning Ordinance)			
SETBACKS	CODE REQUIREMENT	EXISTING	PROPOSED
FRONT YARD: (Pf. 5.5, 6.6, 7.7 or 8.7, Zoning Ordinance)			
REAR YARD: (Pf. 5.6, 6.7, 7.9 or 8.9, Zoning Ordinance)			
SIDE YARD: (Pf. 5.7, 6.8, 7.8 or 8.8, Zoning Ordinance)			

### **NUMBER OF COPIES REQUIRED**

Development Review Committee	Ten (10) paper sets (folded & sorted into complete packet sets), including one (1) sealed original with original signatures and nine (9) copies, three (3) of which are sealed by a licensed engineer, architect and/or surveyor, <u>and</u> an electronic copy of all documents (on cd or thumb drive).
Planning and Zoning Board	Ten (10) paper sets (folded & sorted into complete packet sets), including one (1) sealed original with original signatures and nine (9) copies, three (3) of which are sealed by a licensed engineer, architect and/or surveyor, <u>and</u> an electronic copy of all documents (on cd or thumb drive).
Local Planning Agency	Ten (10) copies (folded & sorted into complete packet sets).
Town Commission	Ten (10) paper sets (folded & sorted into complete packet sets), including one (1) sealed original with original signatures and nine (9) copies, three (3) of which are sealed by a licensed engineer, architect and/or surveyor (as applicable), <u>and</u> an electronic copy of all documents (on cd or thumb drive).

**Applicant acknowledges and understands that the fee for Site Plan Review, Architectural/aesthetic Review, Variance, Special Exception, Rezoning, etc. *may not cover all review costs*. A final statement of any outstanding costs (covering advertising costs, legal, architectural, and other consultants) will be sent to the Applicant upon completion of the review process.**

## JUSTIFICATION STATEMENT

Provide a summary of the proposed project, describing in detail the construction, phasing and proposed development to occur as part of this application (attach additional sheets if needed):

Owner installed walkways in rear fenced in area  
to prevent injury and/or accidents.

Note: Construction Schedule is due as part of site plan review and before building permit issuance. (Town Code §14-63). A signed and notarized contract (signed by owner) must be provided before building permit issuance. (Town Code §14-108).

Provide an estimate of construction costs:

\$1500.<sup>00</sup>

Describe the existing improvements located on the subject property (attach additional sheets if needed):

pool and deck installed with permits.

Provide a project history for the subject property, including any prior development approvals filed within the last year in connection with the subject property. Please include the date of previous site plan approval by the Planning and Zoning Board for this property (attach additional sheets if needed):

Provide the justification, special reasons, or basis for the approval of this application. Explain why this application is consistent with good planning and zoning practice, will not be contrary to the Town's Comprehensive Development Plan, and will not be detrimental to the promotion of public appearance, comfort, convenience, general welfare, good order, health, morals, prosperity, and safety of the Town. Additionally, all standards set forth in the Town Code of Ordinances for Special Exceptions, Variances, Administrative Appeals, etc. must be addressed. (attach additional sheets if needed):

Safety concerns with using gates throughout  
the rear yard from uneven grassy areas.

Proactive measure to prevent fall and reduce accidents.

Provide any other pertinent information related to the subject property to support the proposed request.

Walkways are from the existing deck to garage  
and gates allowing safe passages.

## REQUEST FOR ARCHITECTURAL AND AESTHETIC REVIEW

Please be advised that pursuant to Sec. 14-86 and 14-87 of the Town Code of Ordinances, the Town Planning and Zoning Board uses the following criteria in order to complete its Architectural and Aesthetic Review. Each criteria must be addressed by the applicant prior to the application being processed.

**1. Relationship of building to site:** (Explain transition from streetscape; placement of parking and service areas; and compatibility of building height and scale with site):

Rear of property, fenced in walkways that  
improve safety and are functional.

**2. Relationship of building and site to adjoining area(s):** (Explain how structures and landscaping are consistent with established neighborhood character and will enhance the surrounding area. Include description of architectural style, as well as textures, materials and colors to be utilized):

This is in the rear yard and should not interfere  
with character. It will prevent injury from uneven  
ground on the property.

**3. Landscape and site treatment:** (Explain how landscaping, exterior lighting and other site elements will be used to enhance architectural features, buffer the mass of buildings as appropriate, and enhance the privacy of the owner and neighbors. Describe the use of native species and xeriscaping as appropriate.):

**4. Building design:** (Explain proposed building design and style, and how components such as roofs, windows, doors, eaves and parapets are balanced in proportion to each other; address harmoniousness of colors, visual interest and compatibility):

Please provide all documentation and/or samples necessary to address all architectural review criteria as applicable. Attach additional pages as necessary.

## **DRAINAGE REQUIREMENTS**

(For projects proposing additional on-site impervious area)

For proposed renovations/modifications to existing projects that result in LESS THAN a 50% increase in total site imperviousness, retain 1" of stormwater volume from the total additional impervious area.

For proposed new construction, or renovations/modifications to existing projects that result in a GREATER THAN a 50% increase in total site imperviousness, retain 1" of stormwater volume over the entire site.

Submit a Survey with topographic elevations and existing improvements.

A Drainage and Grading Plan and drainage calculations are required to be submitted with the application package for new construction projects and substantial modifications to existing projects. The Drainage Plan must show the following:

- a. Existing and proposed elevations.
- b. Location of sodded swales, sodded depressed retention areas, underground exfiltration trench and/or other proposed stormwater treatment/retention methods.
- c. Underground piping and inlets and other drainage system improvements proposed.
- d. Drainage calculations showing the retention of the volume of 1" of stormwater from addition impervious areas (or overall site).
- e. Show drainage improvements and underground piping, including water and sewer services, on the Landscape Plans to show no conflicts exist.
- f. Include note that no runoff may be directed to adjacent properties and all storm flows and runoff must be retained on-site prior to discharge into the adjacent roadway right-of-way following retention of required stormwater volume.
- g. Provide engineering details of gutter and downspout dry wells, if proposed.
- h. Provide engineering detail of exfiltration trench, if proposed.
- i. Provide engineering detail of sodded swales, if proposed.
- j. Provide engineering detail of depressed dry retention areas, if proposed.
- k. Provide Geotechnical Report or engineering assumptions/justification for coefficient of permeability (K Factor) for exfiltration trench design, if proposed.
- l. Engineering details/cross sections at property lines demonstrating no runoff will flow to adjacent properties may be required.

Project Engineer or Architect shall be responsible for insuring the drainage improvements are completed in substantial accordance with the approved plan.

Prior to C.O., Project Engineer or Architect to provide final signed and sealed certification that the drainage improvements and grading have been completed in substantial accordance with the approved plan.

Upon receipt of final Certification from Project Engineer or Architect, Town Engineer to visit site and ensure conformance of Town requirements prior to issuance of final C.O.

## REQUEST FOR SITE PLAN MODIFICATION

1. Previously approved (Original) site plan information:

- a. Original Project Name: 300 Drawado
- b. Original Site Plan Application No.: SPR20-17
- c. Original Site Plan Approval Date: 11/25/20
- d. List of all other relevant information on file with original application: \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

2. Requested Modification(s): Pool/Deck
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Please provide all documentation necessary to describe the proposed modification and to explain the reason(s) for the proposed modification(s), including a survey, if applicable. Attach additional pages as necessary.



## REQUEST FOR SPECIAL EXCEPTION

The Applicant is requesting a special exception pursuant to Town Code Section(s) \_\_\_\_\_ to permit the following:

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A Special Exception shall not be recommended by the Town Planning and Zoning Board, nor granted by the Town Commission, unless the Applicant is able to demonstrate the following:

1. Explain how all structures will be separated from adjacent and nearby uses by appropriate screening devices:

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2. Explain whether or not excessive vehicular traffic will be generated on surrounding residential streets:

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3. Explain whether or not a vehicular parking or traffic problem is created:

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4. Explain where on the site appropriate drives, walkways and buffers will be installed:

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5. Explain how the proposed use will make a substantial contribution to the neighborhood environment and will not infringe on the rights of properties in the vicinity:

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6. Explain how the proposed use will not endanger, restrict or impair public safety:

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*The initial burden of meeting the standards as set forth above is upon the Applicant. Please provide all documentation necessary to prove your case, including a survey, if applicable. Attach additional pages as necessary.*

## REQUEST FOR VARIANCE

The Applicant is requesting a variance from the Town Code Section(s) \_\_\_\_\_ to permit the following:

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Please be advised that a variance from the terms of the Zoning Code shall not be recommended by the Planning and Zoning Board, nor granted by the Town Commission, unless the Applicant is able to demonstrate the following:

1. Explain the special conditions and circumstances which exist that are peculiar to the land, structure, or building involved and which are not applicable to other lands, structures, or building in the same zoning district:

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2. Explain how the special conditions and circumstances that exist do not result from the actions of the Applicant:

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3. Explain how the literal interpretation of the provisions of the Zoning Ordinance would deprive the applicant of rights commonly enjoyed by other properties in the same zoning district under the terms of the Zoning Code and would work unnecessary and undue hardship on the Applicant:

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4. Explain how the variance requested is the minimum variance that will make possible a reasonable use of the land, building or structure:

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5. Explain how the granting of the requested variance will not confer on the Applicant any special privilege that is denied by the Zoning Code to other lands, structures, or buildings in the same zoning district:

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6. Explain how the grant of the requested variance will be in harmony with the general intent and purpose of the Zoning Code and will not be injurious to the neighborhood or otherwise detrimental to the public welfare:

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***The burden of meeting the standards as set forth above is upon the Applicant. Please provide all documentation necessary to prove your case, including a survey, if applicable. Attach additional pages as necessary.***

SITE TOPOGRAPHY OF  
300 BRAVADO LANE  
PALM BEACH SHORES, FL. 33404  
PREPARED FOR  
RECY PALACIO