Call for inspections: 293-6462 24-hour inspection line



# THE-CITY OF-KEY-WEST

**BUILDING DEPARTMENT** 

P.O. BOX 1409 KEY WEST, FL 33041-1409 (305) 809-3956

Application Number Application pin nu Property Address RE #/PARCEL #/TAX Application type of Property Zoning . Application valuat	in etc lescription	15-00004480 315840 3725 EAGLE 0005-3660-0 POOLS/SPA - SINGLE FAMI 88618		Date 11/03/15
Owner EVANS JOHN AND OKS 3725 EAGLE AVENUE KEY WEST	ANA	Cont	ractor	OF SW FLORIDA FL 33734
Permit		IT		
Qty Unit Cha	rge Per BA	SE FEE		Extension 275.00
Special Notes and Construction of 3 required). **No H jurisdiction on p T/S: 10/29/2015	Comments 29 sq ft poo IARC required bool/spa** 10:28 AM K	l and 64 sq , per KP. HA	ft spa. (noc RC does not h	ave
Other Fees		DCA SURCHAR APPLICATIO EDUCATION F PLAN REVIEW DBPR SURCHA	GE: FS553.721 N FEE POOL NE EE FEE RGE: FS468.63	6.20 50.00 2.00 88.62 6.20
Fee summary				
Permit Fee Total Other Fee Total Grand Total	275.00 153.02 428.02	50.00 50.00	.00	275.00 103.02 378.02
	1			

THE PROPOSED CONSTRUCTION IS PERMITTED ON CONDITION OF COMPLIANCE WITH ALL APPLICABLE CODES AND ORDINANCES AND IN CONFORMANCE WITH ALL PLANS, SPECIFICATIONS AND ESTIMATES SUBMITTED WITH THE SUBJECT APPLICATION. PERMIT VOID UNLESS CONSTRUCTION COMMENCED WITHIN 180 DAYS OF ISSUE.

DATE ISSUED

Trans number:

Open: MEMME II Type: OC Drawer: 1 Date: 11/12/15 53 Referend on: 3503 2015 4480 PT \* EULLDING PERMITS-NEW \$378.02 13072238

Trans date: 11/12/15 Time: 9:22:19

# COMBINATION APPLICATION: FLOODPLAIN, CONSTRUCTION AND HARC

\$50.00 APPLICATION FEE NON-REFUNDABLE



# City of Key West

3140 FLAGLER AVENUE KEY WEST, FLORIDA 33040

HARC PERMIT NUMBER		1	SUILDING PERMIT NUMBER INSTITUTE & DATE		
FLOODPLAINF	PERMIT			REVISION #	
FLOOD ZONE AE7	PANEL#	ELEV. L. FL.	SUBSTANTIAL	IMPROVEMENT NO	

Phone: 30	5.809.3956	FLOOD ZONE AE7	PANEL#	ELEV. L. FL.	SUBSTANTIAL	IMPROVEMENT NO	%
ADDRESS OF PROPOSED PROJECT:	372 <b>5</b> Eagle Ave.					#OF UNITS	
RE#OR ALTERNATE KEY:	RE# 00053670-0		K· 1054	283			$\dashv$
NAME ON DEED:		ohn and Oksana Evans PHONE NUMBER 305-923-5484					
OWNER'S MAILING ADDRESS:	3728 Eagle Ave.		13	EMAIL	77	3-3404	
	Key West, Florid						-
CONTRACTOR COMPANY NAME:	Daniels Developm			PHONE NUMBE	R 239-219	0400	-
CONTRACTOR'S CONTACT PERSON:	Steeven Knight /		doria	EMAIL:	239-219	-6462	-
ARCHITECT / ENGINEER'S NAME:				PHONE NUMBE	apsri@g	mail.com	_
ARCHITECT / ENGINEER'S ADDRESS:	Unique Engineeri		Hall	PHONE NUMBE	813-299	3-5519	_
OCT 28 2015	4177 Corporate	-					$\dashv$
HARC: PROJECT LOCATED IN HISTORI	Palm Harbor, Flo	Married Control of the Control of th	and the same of th				
PROJECT TYPE: , ONE OR TWO FAI CHANGE OF USE I DEMOLITION DETAILED PROJECT DESCRIPTION INCI 64 sq.ft. spa	OCCUPANCY ADDITI	R EXTER	AGE []	WITHIN FLOOR	ACT	. pool and	
04 Sq.1t. Spa	No HAR	00 - 1	1 2 -	1,2	10/00/		
		C regl					T
TVE OBTAINED ALL NECESSARY APPROVALS FROWNER PRINT NAME:	OM ASSOCIATIONS, GOVT AGEN	CIES AND OTHER P QUALIFIER PRI	ARTIES AS AP NT NAME:		APLETE THE DES		1
OWNER SIGNATURE:		QUALIFIER SIG	NATURE:	rorN	81		
Notary Signature as to owner  STATE OF FLORIDA; COUNTY OF MONROE, SWOR THIS DAY OF	N TO AND SCRIBED BEFORE ME	Notary Signature STATE OF FLOI THIS 2	RIDA; COUNTY  DAY OF		L. HALL # FF 102225 1 19, 2018	CRUBED BEFORE I	Æ.
Personally known or produced	as Identification.	Personally known or			1	as identification	in.
	Di		. 1	1 .			_

Planning Department Nov. 1, 2015 M Jeto

Page 1 of 3

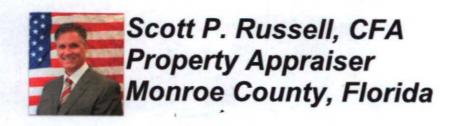
Oper: KEYWBLD Type: BP Drawer: 1 Date: 10/29/15 50 Receipt no: 2445 2015 4480 \* BUILDING PERMITS-NEW 1.00 Trans number: CK CHECK 1056

Trans date: 10/29/15 Time: 10:38:32

PART B: SUPPLEMENTARY PROJECT DETAILS TO AVOID DELAYS / CALL-BACKS

PROPERTY STRUCTURES AFFECTED BY PROJE	ECT: MAIN STRUCTURE /	ACCESSORY STRUCTURE V SITE
	GARAGE / CARPORT DECK	
	6 FT. SOLID 6 FT. / TOP 2 FT.	
	OVE GROUND V SPA / HOT TUB	
	LICENSE APPLICATION AT TIME OF CITY APPLI	
PUBLIC POOLS REQUIRE BD. OF HEALTH I	LICENSE PRIOR TO RECEIVING THE CITY CERT	
	OVER TEAR-OFF REPAIR	AWNING
	ASPLT. SHGLS. METAL SHGLS.	
FLORIDA ACCESSIBILITY CODE:	20% OF PROJECT FUNDS INVESTED	IN ACCESSIBILITY FEATURES.
SIGNAGE: # OF SINGLE FAI		EPLACE SKIN ONLY BOULEVARD ZONE
SQ. FT. OF EACH SIG		HANGING WINDOW
SUBCONTRACTORS / SPECIALTY CONTRACTOR		
MECHANICAL: DUCTWO	ORK LICOMMERCIAL EXH. HOOD L	INTAKE / EXH. FANS LPG TANKS
	E SYSTEM AIR HANDLER CO	
ELECTRICAL: V LIGHTING	RECEPTACLES HOOK-UP	EQUIPMENT LOW VOLTAGE
SERVICE: OVER	HEAD UNDERGROUND 1 PHA	SE AMPS
PEETDOME: ONE SEWEN	R LATERAL PER BLDG. INGROUND EN'S WOMEN'S UNISEX A	D GREASE INTCPTRS. LPG TANKS
RESTROOMS: ME	EN'S WOMEN'S WINISEX WA	ACCESSIBLE
DADT C. HADO ADDI IO		
	ATION FOR A CERTIFICATE	OF APPROPRIATENESS
	LY: \$10 STAFF APPROVAL: \$50	
PLEASE ATTACH APPROPRIATE VARIANCES / RE	SOLUTIONS FROM HARC, PLANNING I	BOARD OR TREE COMMISSION.
ATTENTION: NO BUILDING PERMITS WILL BE ISS	SUED PRIOR TO HARC APPROVAL.	
PLEASE SEND ELECTRONIC SUBMISSIONS TO:	harc@citvofkevwest-fl.gov	
INDICATE TYPE OF CERTIFICATE. OF APPROPRI	ATENESS: GENERAL DEMOL	TION SIGN PAINTING OTHER
ADDITIONAL INFORMATION:		Mon Down Manne Domen
Miles Charles and Market Market Control of the Cont	LIOTOS OF EVICTINO CONDITIONS DI	
PROJECT SPECIFICATIONS: PLEASE PROVIDE P ARCHITECTURAL FEATURES TO BE ALTERED:	ORIGINAL MATERIAL:	ANS, PRODUCT SAMPLES, TECHNICAL DATA  PROPOSED MATERIAL:
THE PROPERTY OF THE PARTY OF TH	ONIGHAL MATERIAL.	PROPOSED MATERIAL:
A 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2		
DELOTED ALL THE		
<b>DEMOLITION: PLEASE FILL OUT THE HARC APPE</b>	NDIX FOR PROPOSED DEMOLITION.	
DEMOLITION OF HISTORIC STRUCTURES IS	NOT ENCOLIPACED BY THE HISTORY	C ARCHITECTURAL REVIEW COMMISSION.
		C ARCHITECTURAL REVIEW COMMISSION.
SIGNAGE: (SEE PART B) BUSINESS SIGN	BRAND SIGNOTHER:	
BUSINESS LICENSE #	IF FAÇADE MOUNTED, SQ. FT. OF	FACADE

	SIGN SPECIFICATIONS	
SIGN COPY:	PROPOSED MATERIALS:	SIGNS WITH ILLUMINATION:
METHOD NOT SEE		TYPE OF LTG.:
TENNER LEVEL		LTG. LINEAL FTG.:
MAX. HGT. OF FONTS:		COLOR AND TOTAL LUMENS:
F USING LIGHT FIXTURES PLEASE INDICATE	E HOW MANY: INCLUDE SPEC, SHEET WITH LO	OCATIONS AND COLORS.
OFFICIAL USE ONLY:  APPROVED NOT APPRO	HARC STAFF OR COMMISSION REVIEW	
ARC MEETING DATE:	HARC MEETING DATE:	HARC MEETING DATE:
REASONS OR CONDITIONS:		
TAFF REVIEW COMMENTS:		
ARC PLANNER SIGNATURE AND DATE:	HARC CHAIRPERSO	ON SIGNATURE AND DATE:
LORIDA STATUTE 713.135: WARNING TO ON MPROVEMENTS TO YOUR PROPERTY. A NOT DEFORE THE FIRST INSPECTION. IF YOU INTE LORIDA STATUTE 469: ABESTOS ABATEME	END TO OBTAIN FINANCING CONSULT WITH YOUR LENDE	ENCEMENT' MAY RESULT IN YOUR PAYING TWICE FOR HE COUNTY RECORDER AND A COPY POSTED ON THE JOB SITE ER OR AN ATTORNEY BEFORE RECORDING A NOTICE. R THE CONSTRUCTION APPLIED FOR IN THIS APPLICATION,
		TIONS AND / OR ADDITIONAL RESTRICTIONS APPLICABLE TO TH
ODEDTY THAT MAY BE EQUIND IN THE BUIL		E ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENT
	LUMBUA DEP OR DINER STATE AGENCIES: ARMY CORPS	
NTITIES SUCH AS AQUADUCT ATHORITY, FI	EMENT PER THE STANDARDS OF THE USDEP ON STRUC	
NTITIES SUCH AS AQUADUCT ATHORITY, FO EDERAL LAW REQUIRES LEAD PAINT ABAT	EMENT PER THE STANDARDS OF THE USDEP ON STRUC	CTURES BUILT PRIOR TO 1978.
NTITIES SUCH AS AQUADUCT ATHORITY, FI	EMENT PER THE STANDARDS OF THE USDEP ON STRUC R CHIEF BUILDING OFFICIAL:	



Key West (305) 292-3420 Marathon (305) 289-2550 Plantation Key (305) 852-7130

Property Record Card - Maps are now launching the new map application version.

Alternate Key: 1054283 Parcel ID: 00053670-000000

# **Ownership Details**

Mailing Address: EVANS JOHN AND OKSANA 3725 EAGLE AVE KEY WEST, FL 33040-4524

# **Property Details**

PC Code: 01 - SINGLE FAMILY

Millage Group: 10KW Affordable Housing: Section-

Township- 34-67-25

Range:

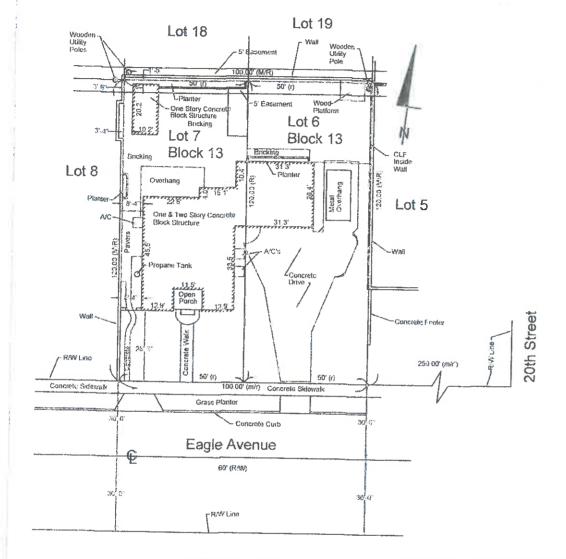
Property Location: 3725 EAGLE AVE KEY WEST

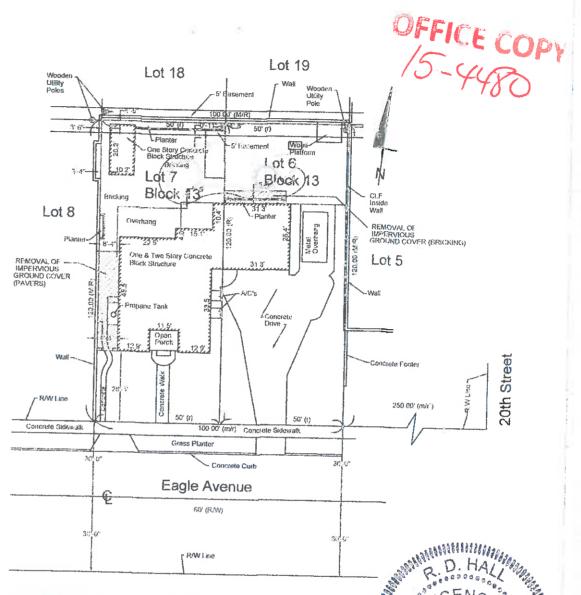
Subdivision: Key West Foundation Co's Plat No 1

Legal KW KW FWDN SUB PLAT 1 PB1-155 LOTS 6 AND 7 SQR 13 OR246-454/55 OR314-106/07 OR665-108 OR2087-Description: 1540 OR2409-2365/66C/T OR2416-1310/11ORD OR2453-115C/T OR2463-1166/78R/S OR2639-1990D/C OR2712-

1944/46

Click Map Image to open interactive viewer





# EXISTING SITE PLAN

TOTAL LOT SIZE = 12,000 SF TOTAL EXISTING IMPERVIOUS AREA = 5,582 SF (46,5% TOTAL OPEN SPACE AREA = 6,418 SF (53.5%)

MEYS ENERGY SERVICES (KEYS) HAS APPROVED METER LOCATION ONLY. THE CUSTOMER NEEDS TO CONTACT KEYS ENGINEERING DEPARTMENT PRIOR TO INSTALLATION, TO VERIFY LOCATION.

- 1. All electrical work must meet all current City and/or County Cesses. KEYS' policies and National Electric Safety Code Rules And Regulations.
- A say revisions to these plans must be resubmitted for KEY to review.

Keys ok with proposed Approved (Pool Location pool may not by Concreach into Utility Easements)

# PROPOSED SITE PLAN

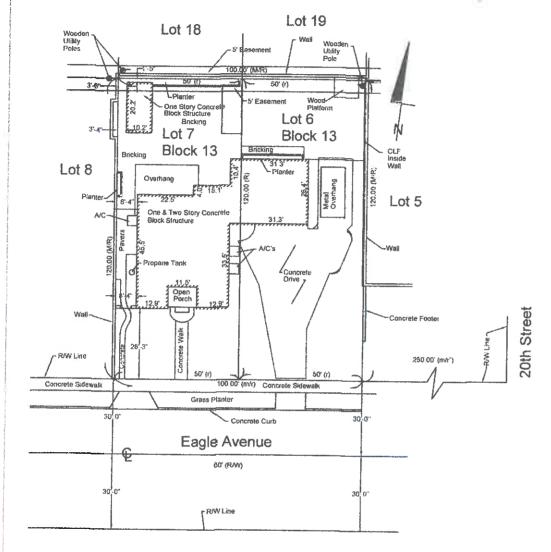
TOTAL LOT SIZE = 12,000 SF
TOTAL EXISTING IMPERVIOUS AREA = 5,580 SF (46.6%)
PROPOSED IMPERVIQUE MODIFICATIONS
PROPOSED POOL = 290 SF \*
PROPOSED POOL DECK = 182 SF
STORAGE AT GRADE = 62 SF
PROPOSED POOL EQUIPMENT = 15 SF
REMOVAL OF EXISTING IMPERVIOUS SURFACE = 415
NET IMPERVIOUS CHANGE = 688 SF
TOTAL PROPOSED IMPERVIOUS AREA = 5755 SF (48%)

TOTAL OPEN SPACE AREA = 6249 SF (52%)

\*511 TOTAL SQ. FT. POOL -329 SQ. PT. CHANGE REPLACEMENT
OF EXISTING PERVICUS

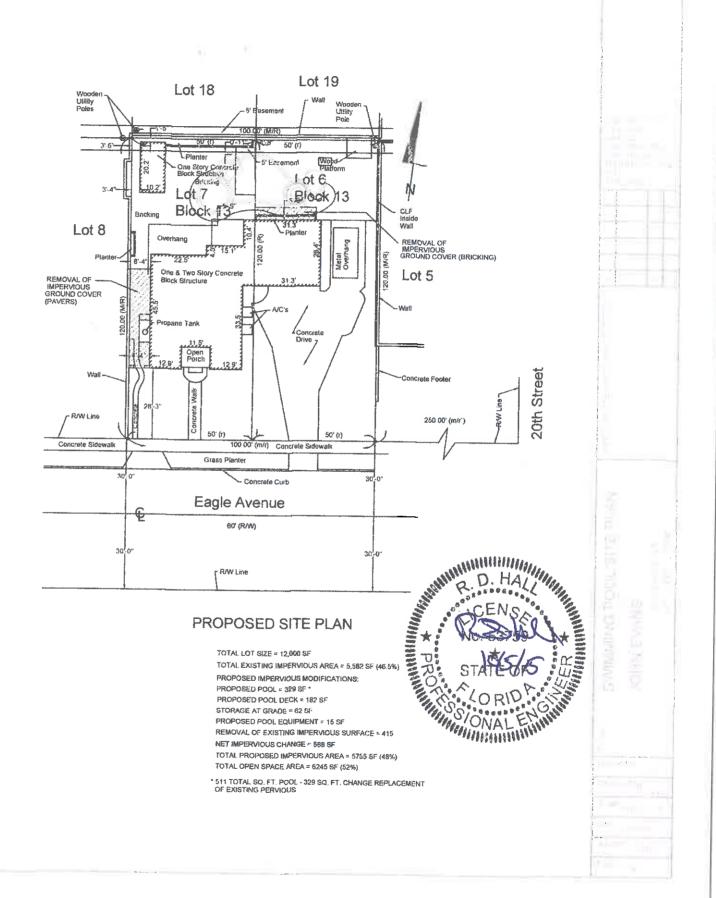
PLANS REVIEWED BY BUILDING IN PLANS REVIEWED BY BUILDING IN INTEREST AGREE TO COMPLY WITH ALL ORDINANCES OF THE CITY OF KEY WEST AND ALL FEDERAL, STATE AND MONROE COUNTY LAWS WHETHER SHOWN ON THIS PLAN OF MOT.

OWNER/AGENT



# **EXISTING SITE PLAN**

TOTAL LOT SIZE = 12,000 SF TOTAL EXISTING IMPERVIOUS AREA = 5,582 SF (46,5%) TOTAL OPEN SPACE AREA = 6,418 SF (53,5%)



# SIMPLIFIED TOTAL DYNAMIC HEAD (TDH) CALCULATIONS WORKSHEE

1

	HINNIN Y		RIOP CIVEE	
TANGE MONITOR THE			STATE	(system Fibrally HIGH SPEED
	City: Key, Cless	% Cal	(7 Jumover in Min.)	fow Rate) (Feature Flow Rate) GPM (Spa Flow Rate)
	This form must be filled out for each pump on the above liend	.x 7.48 (gal/cubic foot) = 15,289, Cal	(Vol. In Gal.)  x 60 (min/hour) =	(Pool F
	4 CKSS JA	ATE: x 7.48 (ga	in Hours: (hours)	Turn Der jet =
٠	Property Address: 3725 EAGLE	1. Calculate Pool Volume: Sill x 4 x	Determine preferred Turnover Time in Hours Determine Max. Flow Rate: 15289	Jet Flow
	e Owner/Property I	RMINE MAXIMUI  Calculate Pool V	<ol> <li>Determine prefe</li> <li>Determine Max.</li> </ol>	Spa Jets: X (No. of Jets)
	Hom Prop(	DETE	୍ ଜ	4

(For single pump /spa combo, use the higher of No. 3 or No. 4 in the following calculations for the pool and spa)

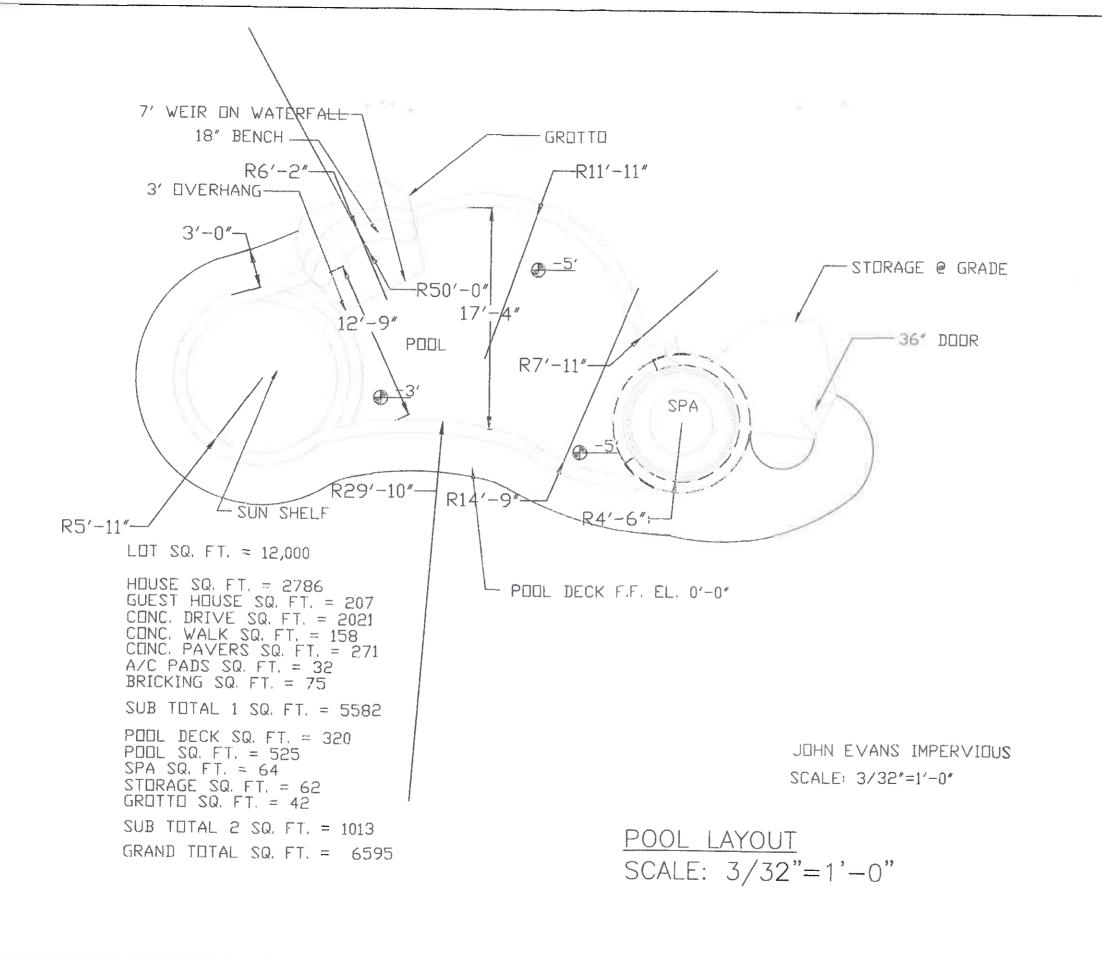
2//	Lai'ger System Flow	8pm Max. System Flow Rate	112 gpm Max, System Flow Rate	ax. System Flow Rate		inch pipe per 1 ft. //O gpm = $\frac{c}{1}$ (from pipe flow/friction loss chart) $\frac{1}{1}$ $\frac{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$
	S	110	110	Z®pm M		pe per 1 ft x s x
	×	ocity @ 6 fps max. at	ocity @ 8 fps·max. at	ocity @ 10 fps max. at		= 1000
4		o keep ve	o keep vel	o keep vel	OH;	ion pipe) i m pipe) in pe (in line
	DETERMINE PIPE SIZE:	Branch Piping to be: 5 to keep velocity @ 6 fps max. at 110	Trunk Piping to be: 3/2 to keep velocity	Return Piping to be: 2/2 to keep velocity @ 10 fps max. at 2/2pm Max. System Flow Rate	DETERMINE SIMPLIFIED TOH:	1. Friction loss (in suction pipe) in 2. Friction loss (in return pipe) in 3. 3. Length of Suction Pipe (in linear feet) 4. Length of Return Pipe (in linear feet)

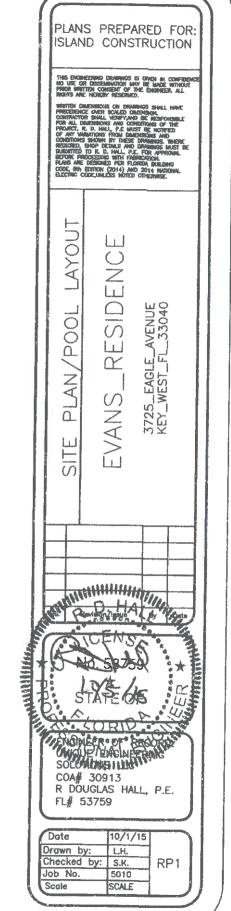
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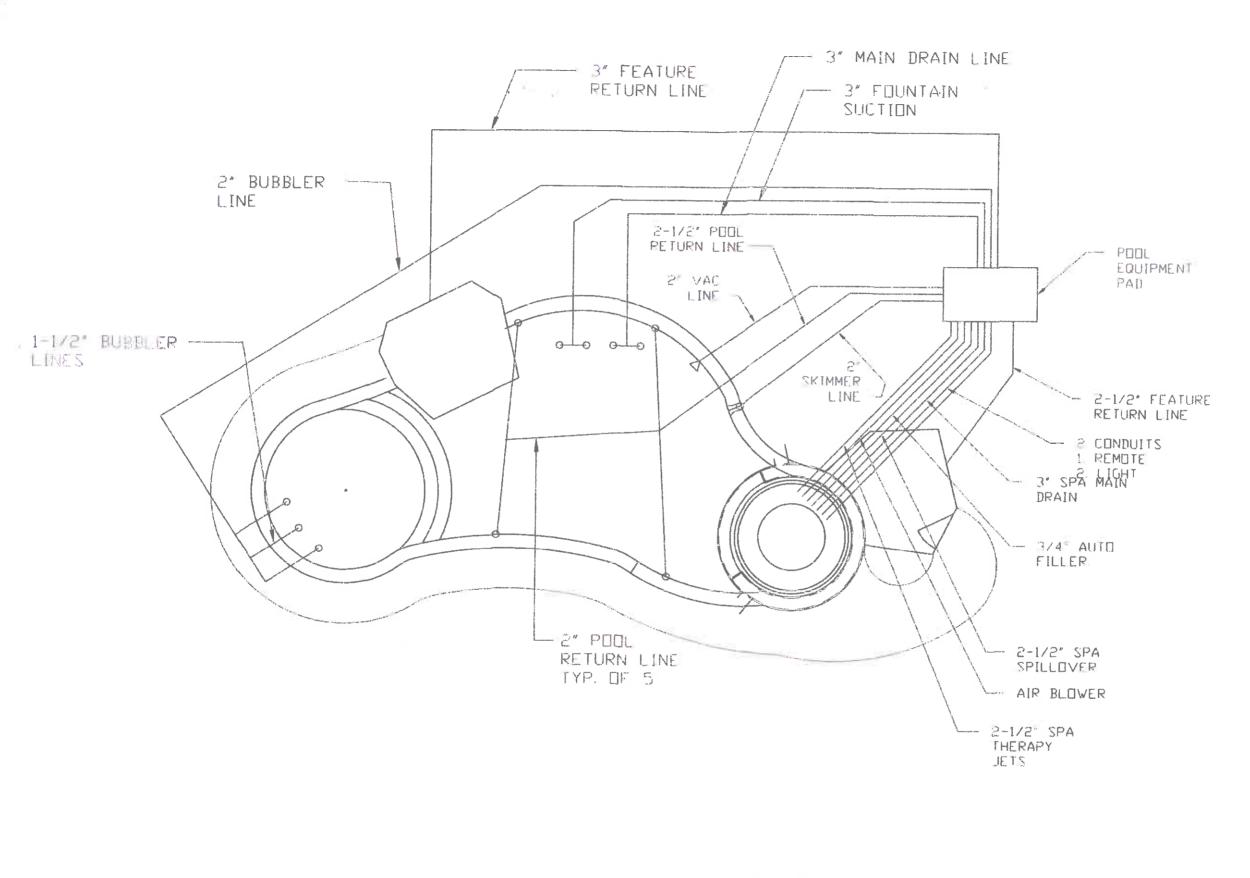
# 2	26 gpm 0.35° 62 gpm 0.35° 62 gpm 0.21° 103 gpm. 0.16° 146 gpm. 0.10° 392 gpm. 0.10° 890 gpm. 0.05°
(add 3 and 4 from above)  (from filter data sheet)  (from heater data sheet)  (Record additional loss items on "ADDITIONAL NOTES" – Sheet 2	FLOW AND FRICTION LOSSES PER FOOT-SCH 4- PVC PIPE  Velocity-Feet Per Second  6 FT/S  m. 0.04' 21 gpm. 0.14' 62 gpm.  n. 0.06' 52 gpm. 0.10' 103 gpm.  n. 0.06' 82 gpm. 0.10' 103 gpm.  m. 0.04' 181 gpm. 0.05' 227 gpm.  m. 0.03' 313 gpm. 0.05' 392 gpm.  n. 0.03' 313 gpm. 0.05' 392 gpm.  n. 0.03' 313 gpm. 0.05' 392 gpm.  n. 0.03' 712 gpm. 0.05' 890 ggm.
ems on "ADDITIO	CTION LOSSES PER FOOT Velocity-Feet Per Second 8 FT/s 21 gpm. 50 gpm. 117 gpm. 181 gpm. 1313 gpm. 712 gpm.
and 4 from above; filter data sheet) heater data sheet) d additional loss it	FLOW AND FRIG 6 FT/S pm. 0.08' pm. 0.06' pm. 0.04' pm. 0.03' pm. 0.03'
17.8 (add 3 16.6 . (from 10.0 (from 16.0 (Recor	Pipe sz. ( 1" 16 gpm. 1" 37 gpm. 2" 62 gpm. 2 ½" 88 gpm. 3" 138 gpm. 4" 234 gpm. 5" 534 gpm.
TDH in Piping: Filter Joss in TDH: Heater loss in TDH: Total all other loss: Total simplified TDH:	

# SIMPLIFIED TOTAL DYNAMIC HEAD (TDH) CALCULATIONS WORKSHEET

Pump Selection: TANJO - USS NO	Nain Drain Cover (2/1924 11/4/25516 - 400 1/1/6   System Flow Rate must not exceed approved cover flow rate)  Note: Minimum system flow based on min flow per skimmer of 35 com.	MAIN DRAIN PLUMBING METHOD USED: (Check one)  A. Dual outlets in parallel to one pump	Notes:  1. If a variable speed pump is used, use the max. pump flow in calculations.  2. For side wall drains, use appropriate side wall drain flow as published by manufacturer.  3. Insert manufacturer's name and approved maximum flow.  4. See installation instruction for number of ports to be used.  5. In floor suction outlets cover/grate must conform to most recent edition of ASME/ANSI A112.19.8 and be embassed with that edition approval.  6. Pump and Filter make, model and location cannot change without submitting a revised plan TDH worksheet.  7. Pump curve for pump specified shall be attached to these sheets.	Land Fees Imating Hand Losses in Tulling	Contractor Name:  Contractor Name:  Contractor License No.  Contractor License	DROWN STANDARD OF
--------------------------------	--	---	---	--	--	---







PLUMBING PLAN
SCALE: 3/32"=1"-0"

PLANS PREPARED FOR: ISLAND CONSTRUCTION

THE ENGINEERING DIMENNINGS IS GIVEN IN CONFE NO LINE OR DESIGNMENTOW MAY BE MADE WITHOUT PRIOR WRITTEN CONSIDER OF THE ENGINEER, ALL RECHTS ARE REPORTED RESIDENCE.

METTER SHADISCIPUS ON DIMENSIOS SHALL HAVE PRECOLUBIES ONE SOLID DEFENSION.

CONTRACTOR SHALL WRITERY AND SE RESPONSIBLE FOR ALL SHAPESONS AND CONDITIONS OF THE PROJECT.

P.E. MILET SHADISCIPUS AND CONDITIONS OF THE PROJECT.

P.E. MILET SET ON CONDITIONS OF THE CONTRACT OF THE CONTRACT ON THE CONTRACT ON THE CONTRACT OF THE CONTRACT ON THE CONTRACT

FOOL PLUMBING PLAN
EVANS\_RESIDENCE

Barrier Assure by Comment of the Com

MINIMINA

ENGINE PARTICULARD: UNIQUE ENGINEERING SOLUTIONS LLC COA# 30913 R DOUGLAS HALL, P.E. FL# 53759

Date	8/21/15	
Drawn by:	LH	
Checked by:	S.K.	RP2
Job No.	5010	
Scale	SCALE	

# 2014 Florida Building Code 5th Edition R4501,3

R4501.3 Mechanical Requirements. Unless otherwise specified in this code, all piping, equipment and materials used in the process piping system of swimming pools that are built in place shall conform to the Florida Building Code, Plumbing

R4591.4.1 Compliance. All Materials, piping, valves equipment or appliances entering into the construction of swimming pools or portions thereof shall be of a type complying with code or of a type recommended and approved by a nationally recognized testing agency or conforming to other recognized standards acceptable to the administrative authority.

R4501.4.2 Items not covered. For any items not specifically covered in these requirements, the administrative authority is hereby authorized to require that all equipment, materials, methods of construction and design features shall be proven to function adequately, effectively and without excessive maintenance and operational difficulties

R4501.4.2.1 Flood hazard areas. Pools installed in flood hazard areas established in Section R322 shall comply with Section R322.2.4 (A Zones) or R322.3.3.1 in coastal high-hazard areas (V Zones),

R4501.4.3 Applicant Responsibility. It shall be the responsibility of the applicant to provide such data, tests or other adequate proof that the device, material or product will satisfactorily perform the function for which it is intended, before such item shall be approved or accepted for tests.

## R4501.5 Alternate materials and methods of construction

R4601.5.1 Approval and authorization. The provisions of this code are not intended to prevent the use of any alternate material, method of construction, appliance or equipment, provided any such alternate has been first approved and its use authorized by the administrative authority.

R4501.5.2 Required tests. When there is insufficient evidence to substantlate claims for alternates, the administrative authority may require tests, as proof of compliance, to be made by an approved agency at the expense of the applicant

# R4501.6 Engineering design.

R4501.6.1 Conformance standard. Design, construction and workmanship shall be in conformity with the requirements of ANSI/INSPI 3; ANSI/INSPI ANSI/APSP/ICC 6; and ANSI/APSP 7

R4501.6.2 Required equipment. Every swimming pool shall be equipped complete with approved mechanical equipment consisting of filter, pump, piping valves and component

Exception: Pools with a supply of frash water equivalent to the volume of the pool in the specified turnover time will be allowed.

R4501.6.3 Water Velocity. Pool piping shall be designed so the water velocity will not exceed 10 feet per second (3048 mm/s) for pressure piping and 8 feet per second (2438 mm/s) for suction piping, except that the water velocity shall not exceed 8 feet per second (2438 mm/s) in copper tubing. Main suction outlet velocity must comply with ANSI/APSP 7.

Exception: Jet inlet fittings shall not be deemed subject to this requirement

R4501.6.4 Plping to heater. Water flow through the heater, any bypass plumbing installed, any back-siptioning protection, and the use of heat sinks shall be done in accordance

R4501.6.5 Piping installation. All piping materials shall be installed in strict accordance with the manufacturer's installation standards

Exception: Pomer and glue on exposed above-ground piping not required to be colored.

R4591.8.6 Entrapment protection. Entrapment protection for suction outlets shall be installed in accordance with requirements of ANSI/APSP 7

## R4501.7 Pumps.

R4501.7.1 Strainer. Pool circulating pumps shall be equipped on the inlet side with an approved type hair and lint strainer when used with a pressure filter,

R4501.7.2 Installation. Pumps shall be installed in accordance with manufacturer recommendations

# R4501.7.3 Capacity. Pumps shall have design capacity at the following heads:

- 1. Pressure diatomaceous earth-At least 60 feat (18288 mm).
- 2. Vacuum diatomacaous earth-20-inch (508 mm) vacuum on the suction side and 40-foot (12192 mm) total head.
- 3. Rapid sand-At least 45 feet (13716 mm)
- 4. High rate sand- At least 60-feet (18288)

R4501.7.4 Materials. Pumps impellers, shafts, wear rings and other working parts shall be of corrosion-resistant materials.

R4501.8.1 General. Valves shall be made of materials that are approved in the Florida Building Code, Plumbing Valves located under concrete slabs shall be set in a pit having a least dimension of five pipe diameters with a minimum of at least 10 moches (254 mm) and fitted with a suitable cover. All valves shall be located where they will be readily accessible for

R4501.8.2 Full-way (gate) valves. Full-way valves shall be installed to insure proper functioning of the filtration and piping system. When the pump is located below the overflow rim of the pool, a valve shall be installed on the discharge outlet and the suction line.

R4501.8.3 Check Valves. Where check valves are installed they shall be of the swing, spring or vertical check patterns.

R4501.8.4 Combination valves. Combination valves shall be installed per manufacturer's installation instructions

R4501.9 Water supply. Unless an approved type of filling system is installed, any water supply which, in the judgment of the administrative authority may be used to fill the pool shall be equipped with backflow protection. No over the rim fill spout shall be accepted unless located under a diving board, or properly guarded

R4501.10.1 Connection limitations. Direct or indirect connections shall not be made between any storm drain, sewer, drainage system, seepage pit underground leaching pil, or subsoil drainage line, and any line connected to a swimming pool unless approved by the administrative authority.

R4501.10.2 Disposal through public sewer. When the waste water from a swimming pool is to be disposed of through a public sewer, a 3-inch (76mm) P-trap shell be installed on the lower terminus of the building drain and the tall piece from the trap shall extend a minimum of 3-inches (76mm) above finished grade and below finished floor grade. This trap need not be vented. The connection between the filter waste discharge piping and the P-trap shall be made by means of an indirect connection

R4501.10.3 Deviations. Plans and specifications for any deviation from the above manner of installation shall first be approved by the administrative authority before any portion of any such system is installed. When waste water disposal is to seepage pit installation, it shall be installed in accordance with the approval granted by the administrative authority

R4501.11 Separation tank. A separation tank of an approved type may be used in lieu of the aforementioned means of waste water disposal when connected as a rectamention system. R4501.12 Tosts.

R4591.12.1 Pressure test. All pool piping shall be tested and proved light to the satisfaction of the administrative authority, under a static water or air pressure test of not less than 35 punds per square inch (psi) (241 kPa) for 15 minutes.

Exception: Circulation pumps need not be tested as required in this section

R4501.12.2 Drain and waste piping. All drain and waste piping shall be tested by filling with water to the point of overflow and all joints shall be tight

# R4501.13 Drate Pining

R4501.13.1 Slope to discharge. Drain piping serving gravity overflow gutter drains and deck drains shall be installed to provide continuous grade to point of discharge.

R4501.13.2 Joints and connections. Joints and connections shall be made a required by the Florida Building Code, Plumbing.

R4501.14.1 Labels. Swimming pool water heating equipment shall conform to the design, construction and installation requirements in accordance with accepted engineering practices and shall bear the label of a recognized testing agency, and shall include a consideration of combustion air, venting and gas supply requirements for water heaters.

R4501.14.2 Water retention. If a heater is not equipped or designed for an approved permanent bypass or anti-siphon device, an approved permanent bypass or anti-siphon device shall be installed to provide a positive means of retaining water in the heater when the pump is not in operation

R4501.14.3 Pit Drainage. When the heater is installed in a pit, the pit shall be provided with approved drainage facilities.

R4601.14.4 Connections. All water heating equipment shall be installed with flanges or union connection adjacent to the heater.

R4501.14.5 Relief valve. When water heating equipment which is installed in a closed system has a valve between the appliance and the pool, a pressure relief valve shall be installed on the discharge side of the water heating equipment. For units up to and including 200,000 Btu/hour input, the relief valve shall be rated by the American Gas Association

R4501.16 Gas Piping. Gas piping shall comply with the Flonda Building Code, Fuel Gas

R4501.16 Electrical. Electrical wiring and equipment shall comply with the Florida Building Code

R4501.17 Residential swimming barrier requirement. Residential swimming pools shall comply with Sections R4501.12.1 through R4501.17.3

Exception: A swimming pool with an approved safety pool cover complying with ASTM F 1346.

R4501.17.1.1 The top of the barrier shall be at least 48 inches (1219 mm) above grade, measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches (51mm) measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above grade, the barrier may be at ground level or mounted on top of the pool structure. the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102 mm).

R4501.17.1.2 The barrier may not have any gaps, openings, indentations, protrusions, or structural components that could allow a young child to crawl under, squeeze through, or climb over the barrier as herein described below. One end of a removable child barrier shall not be removable without the aid of tools. Openings in any barrier shall not allow passage of a 4-inch diameter (102mm) sphere.

R4501.17.1.3 Solid barriers which do not have openings shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints

R4501.17.1.4 Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1 ½ inches (44mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shell not exceed 1 % inches (44mm) in width,

R4501.17.1.5 Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143mm) or more, spacing between vertical members shall not exceed 4 inches (102mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1 % inches (44mm) in width.

R4501.17.1.6 Maximum mesh size for chain link fences shall be a 2 ¼ inch square (57mm) unless the fence is provided with slats fastened at the top or bottom which reduce the openings to no more than 1 % inches (44mm).

R4501.17.1.7 Where the barrier is composed of diagonal members, the maximum opening formed by the diagonal members shall be no more than 1 1/4 inches (44mm)

R4501.17.1.8 Access gates, when provided, shall be self-closing and shall comply with the requirements of Sections R4501.17.1.1 through R4501.17.1.7 and shall be equipped with a self-latching locking device located on the pool side of the gale. Where the device release is located no less than 54 inches (1372mm) from the bottom of the gate, the device refease mechanism may be located on either side of the gate and so placed that it cannot be reached by a young child over the top or through any opening or gap from the outside. Gates that provide access to the swimming pool must open outward away from the pool. The gates and barrier shall have no opening greater than 1/2 inch (12.7mm) within 18 inches (457mm) of the release mechanism.

R4501.17.1.9 Where a wall of a dwelling serves as part of the barrier, one of the following shall apply:

1 All doors and windows providing direct access from the home to the pool shall be equipped with an exit alarm complying with UL 2017 that has a minimum sound pressure rating of 85 dBA at 10 feet (3048mm). Any deactivation switch shall be located at least 54 inches (1372mm) above the threshold of the access Separate alarms are not required for each door or window if sensors wired to a central alarm sound when contact is broken at any opening

- n Screened or protected windows having a bottom sill height of 48 inches (1219mm) or more measure from the interior finished floor at the pool access
- b. Windows facing the pool on floor above the first story.
- c. Screened or protected pass-through kitchen windows 42 inches (1067mm) or higher with a counter beneath.
- All doors providing direct access from the home to the pool must be equipped with a self-closing, self-latching device with positive mechanical latching/locking installed a minimum of 54 inches (1372mm) above the threshold, which is approved by the authority having jurisdiction.

R4501.17.1.10 Where an above-ground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ledder or steps, the ladder or steps either shall be capable of being secured, locked or removed to prevent access, or the ladder or steps shall be surrounded by a barrier which meets the requirements of Sections R4501.17.1.1 through R4501.17.1.9 and Sections R450117.1.12 through R4501.17.2.14. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch diameter (102mm) sphere.

R4501.17.1.11 Standard screen enclosures which meet the requirements of Section R4501.17 may be utilized as part, or all, of the "barrier" and shall be considered a "non-dwelling" wall. Removable child barriers shall have one end of the barrier non-removable without the eid of tools

R4601.17.1.12 The barner must be placed around the perimeter of the pool and must be separate from any fence, walf, or other enclosure surrounding the yard unless the fence, wall, or other enclosure or portion thereof is situated on the perimeter of the pool, is being used a sipart of the barrier and meets the barrier

R4501.17.1.13 Removable child barriers must be placed sufficiently away from the water's edge to prevent a young child or medically trail elderly person who may manage to penetrate the barrier from immediately falling into the water. Sufficiently away from the water's edge shall mean no less than 20 inches (508mm) from the harner to the water's edge. Dwelling or non-dwelling walls including screen enclosures, when used as part or all of the "barrier" and meeting the other barrier requirements, may be as close to the water's edge as permitted by this code.

R4501.17.1.14 A wall of a dwelling may serve as part of the barrier if it does not contain any door or window that opens to provide direct access from the home to the swimming pool

R4581.17.1.14.1 Adjacent waterways. Permanent natural or permanent man-made teatures such as bulkheads, canals, lakes, navigable waterways, etc. adjacent to a public or private swimming pool or spa may be permitted as a barrier when approved by the authority having jurisdiction. When evaluating such barrier features, the authority may perform on-site inspections and review evidence such as surveys, aerial photographs, water management agency standards and specifications, and any other similar documentation to venty, at a minimum, the following:

- 1. The barrier feature is not subject to natural changes, deviations, or alterations and is capable of providing an equivalent level of protection as that provided by
- 2. The barrier feature clearly impedes, prohibits or restricts access to the swimming pool or spa.

R4501.17.1.15 A mesh safety barner meeting the requirements of Section R4501.17 and the following minimum requirements shall be considered a barner as defined in this section:

- 1. Individual component vertical support posts shall be capable of resisting a minimum of 52 pounds (229 N) of horizontal force prior to breakage when measure at a 36-inch (914mm) height above grade. Vertical posts of the child mesh safety barrier shall extend a minimum of 3 inches (76mm) below deck level and shall be spaced no greater than 36 inches (914mm) apart.
- 2. The mesh utilized in the barrier shall have a minimum tensile strength according to ASTM D 5034 of 100 pounds per fool (149 kg/m), and a minimum ball burst strength according to ASTM D 3787 of 150 pounds per foot (223 kg/m), The mesh shall not be capable of deformation such that a 1/2 inch (6.4mm) round object could pass through the mesh

The mesh shall receive a descriptive performance rating of no less than "trace discoloration" or "slight discoloration" when tested according to ASTM G 53 (Weatherability, 1,200 hours).

- 3. When using a molding strip to attach the mesh to the vertical posts, this strip shall contain, at a minimum, #8 by % inch (12.7mm) screws with a minimum of two screws a the top and two at the bottom with the remaining screws spaced a maximum of 6 inches (152mm) apart on center
- 4. Patio deck sleeves (vertical post receptacles) placed inside the patio surface shall be of a non-conductive material.
- 5. A latching device shall attach each barrier section at a height no lower than 45 inches (11613mm) above grade. Common latching devices that include, but are not limited to , devices that provide the security equal to or greater than that of a hook and eye type latch incorporating a spring actuated retaining lever (commonly referred to as a safety gate hook).
- 6. The bottom of the child mesh safety barrier shall not be more than 1 Inch (25mm) above the deck or installed surface (grade)

PLANS PREPARED FOR: ISLAND CONSTRUCTION

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THE CONTRACT MICHEN FOR REGURD SOLUTIONS LLC COA# 30913 R DOUGLAS HALL, P.E.

FL# 53759

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Date 10/1/15 Drawn by: L.H. Checked by: S.K. OF Job No. 5010 Scale SCALE

R4501.17.2 Indoor swimming pools. All walls surrounding indoor swimming pools shall comply with Section R4501 17 1.9

R4501.17.3 Prohibited Locations. A barrier may not be located in a way that allows any permanent structure, equipment, or window that opens to provide access from the home to the swimming pool.

R4501.18 Ladders and steps. All pools whether public or private shall be provided with a ladder or steps in the shallow end where water depth exceeds 24 inches (610mm). In private pools where water depth exceeds 5 feet (1524mm), there shall be ladders, stairs or underwater benches/swim-outs in the deep end. Where manufactured diving equipment is to be used, benched or swim-outs shall be recessed or located in a corner.

Exception: In private pools having more than one shallow end, only one set of steps are required. A bench, swim-out or ladder may be used at all additional shallow ends in

R4501.19 Final Inspection. Final electrical and barrier code inspection shall be completed prior to filling the pool with water.

Exception: Vinyl liner and fiberglass pools are required to be filled with water upon installation. R4510.20 Filters. Components shall have sufficient capacity to provide a complete tumover of pool water in 12 hours or less.

R4510.20.1 Sand Filters.

R4516.20.1.1 Approved types. Rapid sand filters (flow up to 5 gpm per sq/ft) shall be constructed in accordance with approved standards. Where high rate sand filters (flow in excess of 5 gpm per sq/ft) are used, they shall be of an approved type. The circulation system and backwash piping shall be adequate for proper backwashing of said filter and shall provide backwash flow rates of at leats 12 gpm per sq/ft for rapid sand filters or 15 gpm per sq/ft for high rate sand filters

R4510.20.1.2. Instructions. Every filter system shall be provided with written operating instructions.

R4510.20.1.3 Filter system equipment. On pressure type filters, a means shall be provided to permit the release of internal pressure. A filter incorporating an automatic internal air release as its principal means of air release shall have lids which provide a slow and safe release of pressure as part of its design. A separation tank used in conjunction with a filter tank shall have as part of its design a manual means of air release or a lid which provides a slow and safe release of pressure as it is opened.

R4510.20.2 Diatomite-type filters.

R4501.20.2.1 Dealgn. Diatomite-type filters shall be designed for operation under either pressure or vacuum filters shall not exceed 2 gpm per sq/ft of effective filter

R4501.20.2.2 Fifter aid. Provision shall be made to introduce filter aid into the filter in such a way as to evenly precoat the filter septum

R4501.21 Pool fittings.

R4501.21.1 Approved type. Pool fittings shall be of an approved type and design as to be appropriate for the specific application.

R4501.21.2 Skimmers. Approved surface skimmers are required and shall be installed in strict accordance with the manufacturer's installation instructions. Skimmers shall be installed on the basis of one per 800 sq/ft (74m2) of surface area or fraction thereof, and shall be designed for a flow rate of at least 25 gpm (1.6 L/s) per slummer

R4501.21.3 Main outlet. An approved main outlet, when provided, shall be located on a wall or floor at or near the deepest point in the pool for emplying or circulation, or

R4501.21.4 Hydrostatic relief device. In areas of anticipated water table, an approved hydrostatic relief device shall be installed

Exception: Plastic liner pools (where there is no structural bottom to the pool)

R4501.21.5 Inlet fittings. Approved manufactured inlet fittings for the return of recirculated pool water shall be provided on the basis of at least one per 300 sq/ft (28m2) of surface area. Such met fittings shall be designed and constructed to insure an adequate seal to the pool structure and shall incorporate a convenient means of sealing for pressure testing of the pool circulation piping. Where more than one inlet is required, the shortest distance between any two required inlets shall be at least 10 feet (3048mm)

R4501.22 Equipment foundations and enclosures. All pool nictors and equipment shall be installed in compliance with the manufacturer's recommendations. All heating and electrical equipment, unless approved for outdoor installation, shall be adequately protected against the weather or installed within a building.

R4501.23 Accessibility and clearances. Equipment shall be so installed as to provide ready accessibility for cleaning, operating, maintenance and servicing.

# GENERAL FETRATION NOTES

- THESE PLANS ARE COMPLIANT WITH FLORIDA BUILDING CODE 5" EDITION (2014)
- PERANS/APSP-15 2011 FILTRATION RATES FOR A PUMP'S TOTAL HORSEPOWER OF 1 OR GREATER SHALL BOT EXCEED THE VOLUME OF THE POOL/360IN GP&L
- ANSI/APSP-7 2006 VELOCITIES APPLY TO THERA PY AND FEATURE PUMPS ONLY, SEE SHEET 2.

# PLANS PREPARED FOR ISLAND CONSTRUCTION

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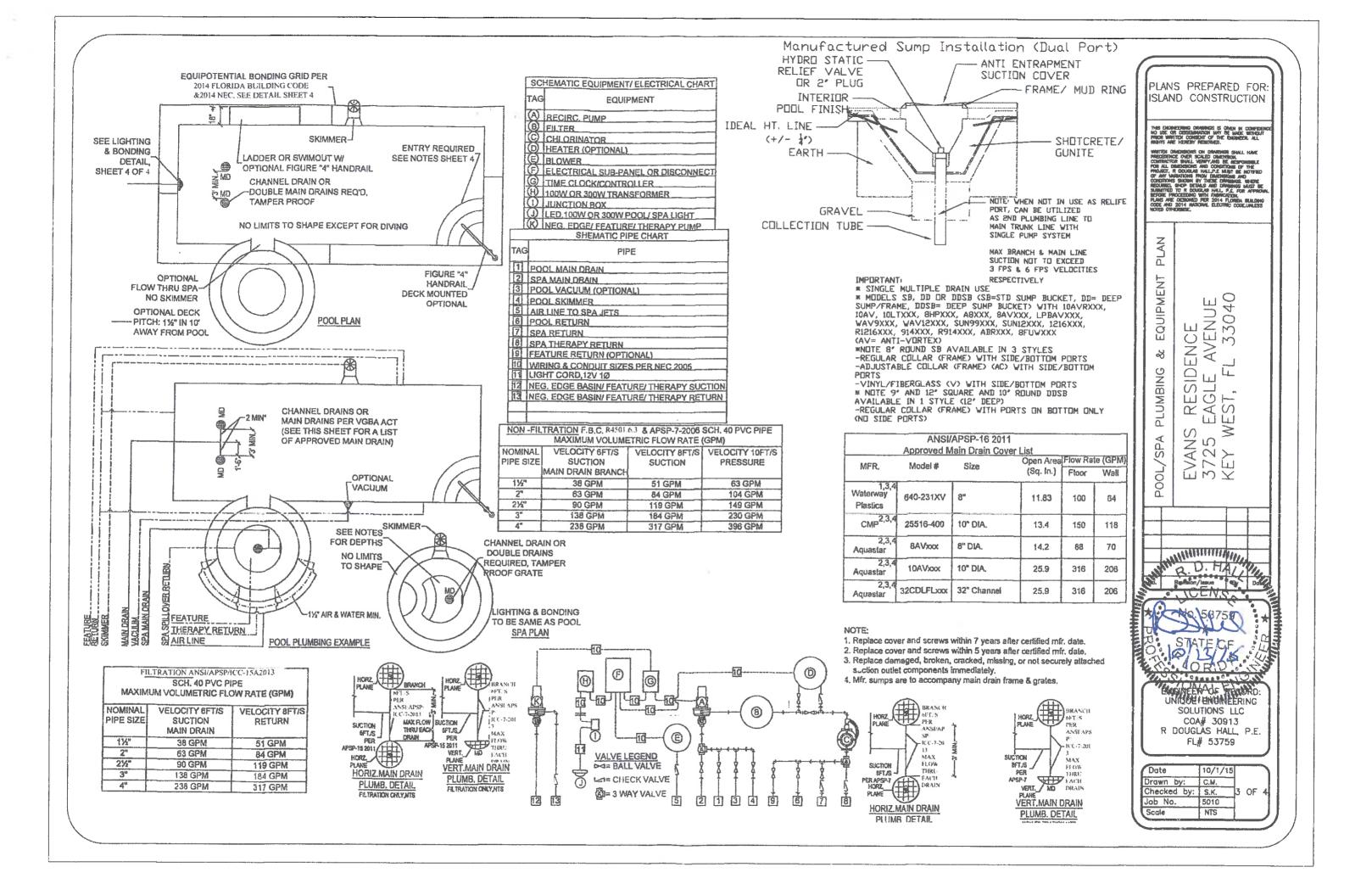
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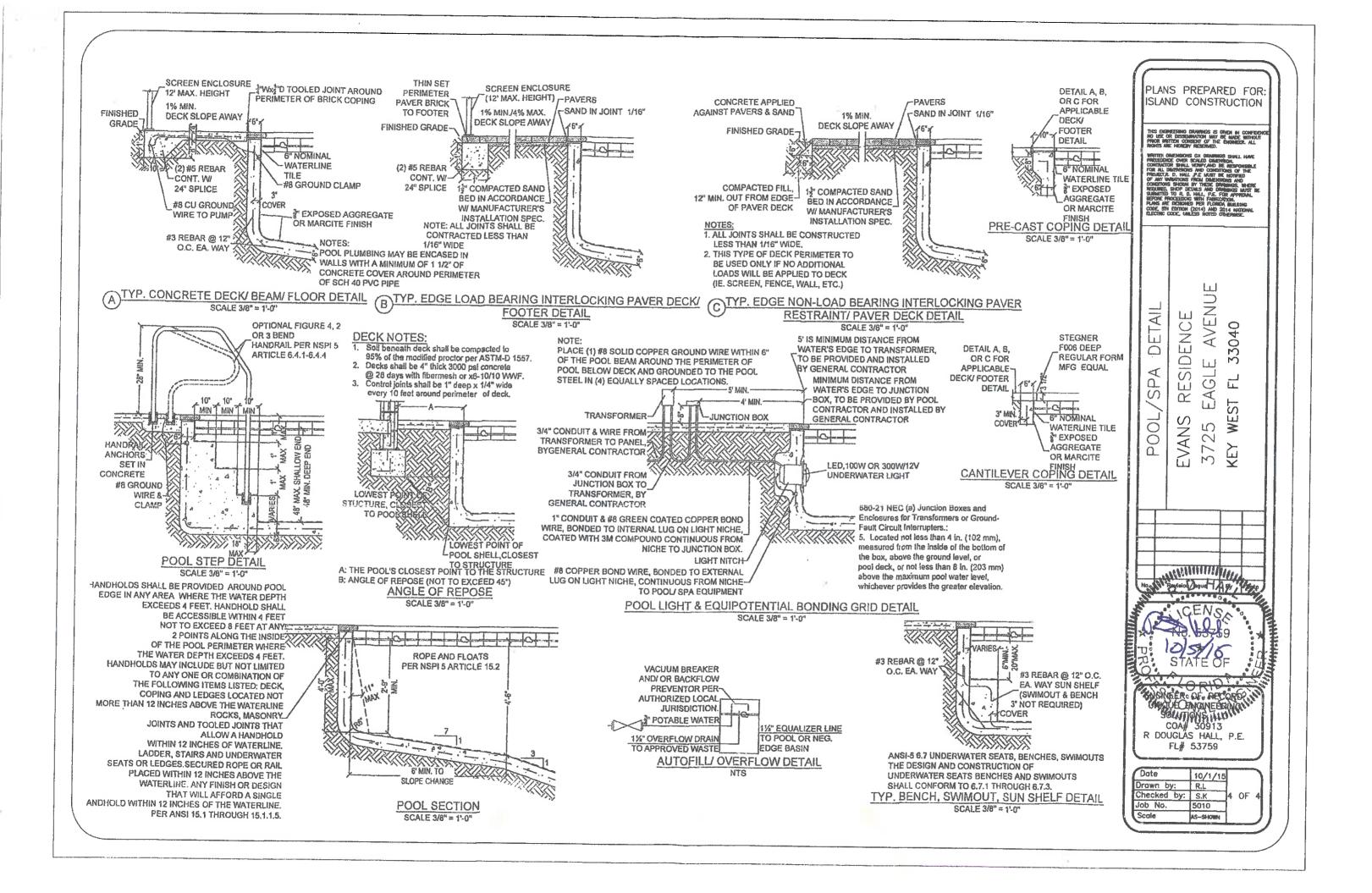
# Pool/Spa General Notes:

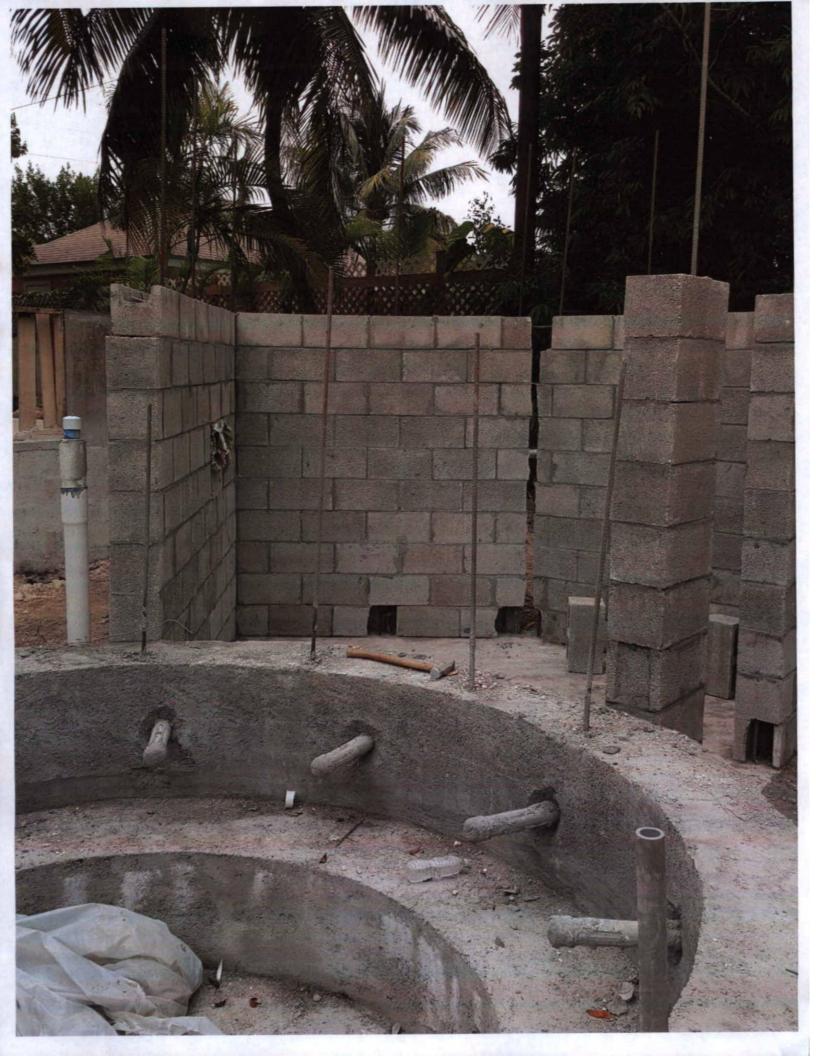
- 1. Design per Florida Building Code 2014 5th Edition, Chapter R4501.3 & ANSI/APSP-7
- 2. Pool/Spa finish is to be exposed aggregate, marcite, tile or manufacturer approved finish.
- 3. Shot-crete or Gunite shall be 3,500 psi min. @ 28 days.
- 4. Reinforcing shall be #3 rebar @ 12" o.c. ASTM A615 Grade 40 with 18" lap splice UNO.
- 5. Verify all elevations and locations with architectural elevation.
- 6. All soil beneath Pool/Spa structure is to have a minimum bearing capacity of 2,000 PSF.
- 7. Pool/Spa structure shall be backfilled with clean soil free of organics in 8" lifts and compacted to 95% of the modified proctor per ASTM-D 1557.
- 8. No fill will intrude into the velocity zone.
- 9. Pipe bending must be greater than 30° minimum bend to be 5 times the diameter of the pipe's o.d., excessive burn marks and creasing of pipe is not allowed.
- 10. Glass within 5 ft. of water's edge shall be tempered.

# **Equipment General Notes:**

- 1. All equipment below static water elevation is to have positive valve shut off for service.
- 2. All electrical per NEC 2008
- 3. All pumps, heaters, deck, handrails, ladders, lights, screen and metal shall be bonded per NEC 2008.







8:47:19 AM 12/11/2015

# Licensee Details

# **Licensee Information**

Name: **BODZIAK, SCOTT EDMUND** (Primary Name)

DANIEL'S DEVELOPMENT CO OF SW FLORIDA (DBA Name)

Main Address: PO BOX 7926

ST. PETERSBURG Florida 33734

**PINELLAS** County:

727 - 400 - 7233 License Mailing:

12/11/2015 · 9am - notified Scott of SWO. - PAW LicenseLocation:

License Information

**Certified General Contractor** License Type:

Rank: Cert General License Number: CGC059051

Status: Current, Active Licensure Date: 04/30/1997

Expires: 08/31/2016

Special Qualifications **Qualification Effective** 

**Construction Business** 11/09/2012

**Alternate Names** 

**View Related License Information View License Complaint** 

1940 North Monroe Street, Tallahassee FL 32399 :: Email: Customer (

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Island tools

# **Complaint Details**

Below is a listing of public complaints regarding the person or entity selected. This may not reflect all public complaints filed with the Department; for example, all against Community Association Managers (CAMs) are available to the public, regardless of whether any appear below, and may be requested directly from the De The Department is also precluded from disclosing any complaints which are confidential pursuant to Florida Statutes.

If you would like a full list of public complaints against an individual or entity or to make a public records request for complaints listed please visit our Public Rec

You can search for public records pertaining to unlicensed activity complaints through an additional database by visiting our <u>Search Unlicensed Activity Compl.</u>
For more information about CAM complaints, please visit the <u>CAMs page</u>.

# Name: BODZIAK, SCOTT EDMUND

The Status and Discipline Description below is only the status of a complaint. To see the status of this license select the "Back" button to return to the Licensee D

Number	Class	Incident Date	Status	Disposition	Disposition Date	Discipline Date - Description
2010059273	Licensed Activity	01/25/2010	Closed	Final Order	01/23/2012	01/23/2012 - Fine 01/23/2012 - Education 01/23/2012 - Cost

1940 North Monroe Street. Tallahassee FL 32399 :: Email: Customer Contact Center :: Customer Contact Center: 850.487.1395

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# CITY OF KEY WEST Special Notes Display

10/29/15 10:16:36

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Misc info

Source code Note Date
LAND BPCM \*\*\*\*\* ALERT - HARC REQUIRED \*\*\*\*\* 4/10/03

Press Enter to continue. F3=Exit F12=Cancel



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OCT 19 2015

Engineering Dept.

# UTILITY BOARD OF THE CITY OF KEY WEST, FLORIDA MAIN OFFICE: Phone (305)295-1000 \* Customer Service fax (305)295-1085

Customer Service Representative: CN		Date: 10/19/2015
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