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02/24/22

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ISSUED 02/04/22

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FLORIDA LICENSURE

AR: 0011049 ID: 0003618

SITE PLAN DRAINAGE PLAN

ALL POOLS AND SPAS SHALL CONFORM WITH THE 2017 FLORIDA BUILDING CODE, THE 2017 FLORIDA STATUTES, CHAPTER 515 RESIDENTIAL SWIMMING POOL SAFETY ACT, THE 'VIRGINIA GRAEME BACKER POOL & SPA SAFETY ACT ALONG WITH ALL APPLICABLE COUNTY OR CITY CODES AND

ALL SUCTION OUTLETS SHALL BE PROVIDED WITH A COVER THAT HAS BEEN TESTED AND ACCEPTED BY A RECOGNIZED TESTING FACILITY AND COMPLYING WITH ANSI/ASME A112.19.8 PERFORMANCE STANDARD.

ALL POOLS AND SPAS SHALL BE REQUIRED TO HAVE A BACKUP SYSTEM WHICH SHALL PROVIDE VACUUM RELIEF SHOULD THE GRATE COVERS BE MISSING, ALTERNATE VACUUM DEVICES INCLUDE: APPROVED VENT PIPING

APPROVED VACUUM RELEASE SYSTEM. OTHER APPROVED MEANS OR DEVICES.

ALL POOL PIPING SHALL BE TESTED AND PROVED TIGHT TO THE SATISFACTION OF THE ADMINISTRATIVE AUTHORITY, UNDER A STATIC WATER OR PRESSURE TEST OF NOT LESS THAN 35 PSI FOR 15 MIN.

OUTDOOR SWIMMING POOLS SHALL BE PROVIDED WITH A BARRIER COMPLYING WITH THE 2017 FLORIDA STATUTES CHAPTER 515, RESIDENTIAL POOL AND SAFETY ACT, AND SECTION R4101.17 OF THE 2017 RESIDENTIAL FLORIDA BUILDING CODE.

APPROVED MANUFACTURED INLET FITTINGS FOR THE RETURN OF RECIRCULATING POOL WATER SHALL BE PROVIDED ON THE BASIS OF AT LEAST ONE PER 300 SQUARE FEET OF SURFACE AREA AND ONE FOR EVERY 20 GPM OF THE RECIRCULATED RATE, SUCH INLET FITTINGS SHALL BE DESIGNED AND CONSTRUCTED TO INSURE THE ADEQUATE SEAL TO THE POOL STRUCTURE AND SHALL INCORPORATE A CONVENIENT MEANS OF SEALING FOR PRESSURE TESTING OF THE PIPING WHERE MORE THAN ONE INLET IS REQUIRED, THE SHORTEST DISTANCE BETWEEN ANY TWO REQUIRED INLETS SHALL BE AT LEAST 10 FEET.

ALL MATERIALS, PIPING, VALVES, EQUIPMENT OR APPLIANCES ENTERING INTO THE CONSTRUCTION OF SWIMMING POOLS OR PORTIONS THEREOF SHALL BE A TYPE COMPLYING WITH THE BUILDING 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.

ALL DIMENSIONS SHOWN FOR THE NEW POOL ARE TO THE EXTERIOR OF THE POOL CONSTRUCTION

CONTRACTOR SHALL OBTAIN AND COMPLY WITH APPROVED C.C.C.L. PERMIT FINAL ORDER FROM THE F.D.E.P. FOR SWMMING POOL CONSTRUCTION, AS

NO VEGETATION IS EXISTING IN THE AREA OF THE PROPOSED SWIMMING POOL, THIS CONSTRUCTION WILL NOT RESULT IN THE LOSS OF STABILIZING

FILL FROM POOL EXCAVATION TO BE USED FOR THE PAVER DECK AND PAVER DRIVEWAY OR BE RELOCATED ON NEARBY PROPERTY SEAWARD OF THE COASTAL CONSTRUCTION CONTROL LINE.

ALL SUCTION OUTLET COVERS SHALL BE COMPLIANT WITH ASME/ANSI A112.19-2007. IF DUAL MAIN DRAINS ARE USED EA. DRAIN COVER SHALL BE RATED FOR 100% OF THE SYSTEM FLOW RATE. IF UN-BLOCKABLE CHANNEL DRAINS ARE USED THE MANUFACTURERS LISTED SUMP MUST BE USED.

ALL POOL PIPING SHALL BE SCH. 40 PVC WITH NSF APPROVED STAMP FOR

ALL REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS, SPLICE LOCATIONS SHALL BE STAGGERED WITH BARS LAPPED 15" MINIMUM.

ALL ELECTRICAL WIRING AND EQUIPMENT SHALL COMPLY WITH CHAPTER 27 OF THE FBC 2017 AND NFPA 70 2014, ARTICLE 680 (N.E.C.), PROVIDE BONDING OF ALL EQUIPMENT, HANDRAILS AND LIGHTS TO POOL REINFORCING.

ADDITIONAL NOTES

POOL INSTALLATION SHALL BE BY A QUALIFIED AND LICENSED (APPROVED BY LOCAL BUILDING DEPARTMENT) POOL CONTRACTOR, THE INSTALLATION SHALL CONFORM TO A LOCAL BUILDING CODES, ie, PERMITS SPECIFICATIONS, CODES, RULES, RULES, INSPECTION, WORKMANSHIP, ETC.

STEPS OR A LADDER SHALL BE PROVIDED AT THE SHALLOW END OF THE

FINAL ELECTRICAL AND BARRIER CODE INSPECTIONS SHALL BE COMPLETED PRIOR TO FILLING THE POOL WITH WATER.

ELECTRICAL REQUIREMENTS:

INSTALL LOW VOLTAGE LIGHT AS PER NEC 680.

FLORIDA BUILDING CODE FBC 2017 2020

NO OUTLET OR OVERHEAD POWER WITHIN 10" IF WITHIN 15" PROTECT BY GFI, TRANSFORMER MIN. 10" FROM POOL, 8" ABOVE WATER, J BOX 4" FROM

AN EQUIPOTENTIAL BONDING GRID MUST COVER THE CONTOUR OF THE AN EQUIPOTENTIAL BONDING GRID MUST COVER THE CONTROL OF A UNDER THE DECK. AN UNDERGROUND BONDING CONDUCTOR MADE OF A SINGLE #8 AWG BARE COPPER WIRE BURIED TO A MINIMUM DEPTH OF 4 TO 6 INCHES BELOW SUBGRADE, AND 18 TO 24 INCHES FROM THE INSIDE OF THE WALL OF A SWIMMING POOL OR SPA, AND BONDED TO THE POOL STEEL WITH #8 AWG BARE COPPER WIRE AT FOUR FOUAL PLACES ALONG THE PERIMETER OF

ALL PUMPS AND ALL METALLIC PARTS WITHIN 5 FEET OF POOL MUST BE

TIME CLOCKS SHALL BE INSTALLED ON PRIVATE POOLS SO THAT THE PUMP CAN BE SET TO RUN DURING OFF-PEAK ELECTRICAL DEMAND PERIODS AND CAN BE SET FOR THE MAXIMUM TIME NECESSARY TO MAINTAIN THE WATER IN A CLEAR AND SANITARY CONDITION IN KEEPING WITH APPLICABLE HEALTH

MOUNTED FOR EASY ACCESS TO ALLOW THE HEATERS TO BE SHUT OFF WITHOUT ADJUSTING THE THERMOSTAT SETTING, AND TO ALLOW RESTARTING WITHOUT RELIGHTING THE PILOT LIGHT.

LIGHTING SCHEDULE					
FIXTURE	QUANTITY	BULB TYPE & LUMENS	MOUNT	MOUNTING HEIGHT	
PENTAIR AMERILITE, #78438100, 300 WATT, 12 VOLT UNDERWATER LIGHT, WITH STAINLESS STEEL RIM	1	300 WATT, 12 VOLT, INCANDESCENT FLOODLAMP (5,000 LUMENS)	PENTAIR LARGE STAINLESS STEEL NICHE FOR FIBERGLASS INSTALLATION	18" MINIMUM BELOW POOL WATER LEVER	

INTERIOR SWIMMING POOL LIGHTS SHALL BE TURNED OFF WHILE THE POOL IS NOT IN USE DURING SEA TURTLE NESTING SEASON (MAY 1 THROUGH OCTOBER 31). THE USE OF AN AUTOMATIC TIMER IS ACCEPTABLE.

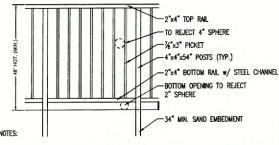
DIRECT OR INDIRECT CONNECTIONS SHALL NOT BE MADE BETWEEN ANY STORM DRAIN, SEWER, DRAINAGE SYSTEM, SEEPAGE PIT, UNDERGROUND LEECHING PIT, OR SUBSOIL DRAINAGE LINE, AND ANY LINE CONNECTED TO THE SWMMMING POOL, UNLESS APPROVED BY THE ADMINISTRATIVE AUTHORITY

- THE ENGINEER SHALL NOT BE HELD LIABLE FOR:

 FAULTY MATERIALS AND CONSTRUCTION

 INADEQUATE OR IMPROPER SUPERVISION OF CONSTRUCTION

 IMPROPER POOL MAINTENANCE AFTER CONSTRUCTION.



- COVERS USED TO SATISFY RESIDENTIAL SWIMMING BARRIER REQUIREMENTS MUST
- COMPLY WITH ASTM F 1346.
 THE OUTSIDE BARRIER SHALL NOT CONTAIN ANY PROTRUSIONS, HAND AND FOOTHOLDS
 OR ANY OTHER DISTINGUISHING FEATURE TO ALLOW OR AID IN CLIMBING.
 ACCESS GATES SHALL BE SELF CLOSING AND EQUIPPED WITH A SELF LATCHING
- LOCKING DEVICE AT A HEIGHT OF MINIMUM 54". ACCESS GATE SHALL OPEN OUTWARD AWAY FROM POOL.
- ALL FIRST FLOOR DOORS AND WINDOWS LESS THAN 48" ABOVE FINISHED FLOOR PROVIDING DIRECT ACCESS TO THE POOL FROM HOME SHALL BE EQUIPPED WITH AN EXIT ALARM COMPLYING WITH UL 2017.

TYPICAL BARRIER DETAIL

WIRING AND BONDING AND ALL ELECTRICAL TO COMPLY WITH CHAPTER 27,

POOL, BRASS TO J BOX OR TRANSFORMER WHICH EVER IS FIRST EXCEPT WHERE PVC IS APPROVED.

THE POOL. FOR POOL WATER BONDING SEE 2014 NEC 680,26-C

GROUNDED TO THE POOL STEEL WITH #8 COPPER GROUND WIRE.

ALL POOL AND SPA HEATERS SHALL BE EQUIPPED WITH AN ON/OFF SWITCH

LISTED SUCTION COVER-- HYDROSTATIC RELIEF

COLUMN OF HOUSE

FOUNDATION OF HOUSE

POOL SHELL NOT TO

OF REPOSE

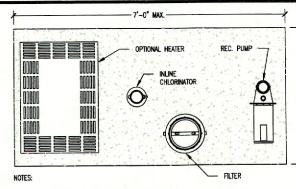
ANGLE OF REPOSE DETAIL

ENCROACH UPON ANGLE

NOT TO SCALE

MAY OMIT IF LISTED COVER DOCUMENTATION SPECIFICALLY STATES NO CLEARANCE TO SUCTION PIPE REQUIRED

FIELD BUILD SUMPS MEETING THESE CRITERIA REQUIRED WHEN MANUFACTURED POTS NOT USED



CONCRETE PAD TO BE 4" THICK (2,500 PSI MIN.)
POOL EQUIPMENT SHALL NOT BE WITHIN A 4 FOOT RADIUS OF POOL BARRIER FENCE TOP.

ALL EQUIPMENT SHALL COMPLY WITH ANSI/NSF 50.
HEATER SHALL HAVE A READILY ACCESSIBLE ON-OFF SWITCH, MOUNTED ON THE OUTSIDE AND CAN BE USED WITHOUT CHANGING THE THERMOSTAT SETTING.

TYPICAL FILTER LAYOUT

NOT TO SCALE

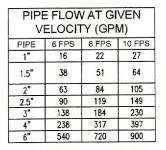


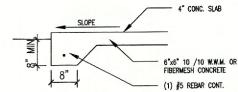
HYDROSTATIC RELIEF

-LISTED SUCTION COVER

FIELD BUILT SUMP DETAILS

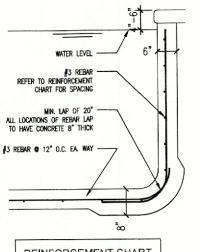
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- IF FIBERMESH CONCRETE IS USED FOR POOL DECK THEN A
- DECK TOPPING IS REQUIRED
 ALL REINFORCING STEEL TO COMPLY WITH ASTM 615 GRADE 40
 FOOTER SIZE MAY VARY FOR SCREEN ENCLOSURES

DECK FOOTER DETAIL



WALL HGT.	VERT. REBAR	HORIZ. REBAR
4'-0"	#3 0 12" O.C.	#3 0 12" O.C.
5'-0"	#3 0 12" O.C.	#3 0 12" O.C.
6'-0"	#3 0 8" O.C.	#3 0 12" O.C.
7'-0"	#4 0 8" O.C.	4 0 12° 0.C.
8'-0"	#4 0 8" O.C.	#4 0 12° 0.C.

REINFORCEMENT DETAIL

NOT TO SCALE



Digitally signed by Derek W Newcor DN: c=US, o=APEX CONSULTING ENGINEERS.

ou=A01410C0000016FECC0651C000 D155, cn=Derek W Newcomer Date: 2022.04.11 14:38:10 -04'00'

"THIS ITEM HAS BEEN **ELECTRONICALLY SIGNED** AND SEALED BY DEREK W. NEWCOMER, PE USING A SHA-1 AUTHENTICATION CODE AND DOES NOT INCLUDE "E" SHEET(S). PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPY"



ENGINEERING AND 2022

BLDG. PERMIT PLANS COPY OF RECORD

Qo

TOWN OF LONGBOAT KEY Planning, Zening & Building

Reviewer: PATRIFICE For Amor Anis