

CONSTRUCTION CODE REQUIREMENTS

THESE PLANS WERE PREPARED AND SHALL COMPLY WITH THE

- a. FLORIDA STATE:
 - 2020 FLORIDA BUILDING CODE 7th EDITION, RESIDENTIAL, CHAPTER NO. 45, SECTION: E4501
 - 2020 FLORIDA BUILDING CODE 7th EDITION, ENERGY CONSERVATION, CHAPTER NO. 4
 - SECTION: R403.10 POOLS AND PERMANENT SPA ENERGY CONSUMPTION (MANDATORY)
 - SECTION: R403.11 PORTABLE SPA (MANDATORY)
 - SECTION: R403.12 RESIDENTIAL POOL AND PERMANENT SPA
 - 2020 FLORIDA STATUTES, CHAPTER NO. 515 RESIDENTIAL SWIMMING POOL SAFETY ACT

- b. FEDERAL GOVERNMENT:
 - 2014 ANSI/APSP/ICC-3: AMERICAN NATIONAL STANDARD FOR PERMANENTLY INSTALLED RESIDENTIAL SPAS SWIM SPAS R4501.6.1
 - 2011 ANSI/APSP/ICC-5: AMERICAN NATIONAL STANDARD FOR RESIDENTIAL INGROUND SWIMMING POOLS R4501.6.1
 - 2013 ANSI/APSP-7: AMERICAN NATIONAL STANDARD FOR SUCTION ENTRAPMENT AVOIDANCE IN SWIMMING POOLS, WADING POOLS, SPAS, HOT TUBS AND CATCH BASINS R4501.6.1, R4501.6.3, R4501.6.6
 - 2013 ANSI/ASHRAE-15: SAFETY STANDARDS FOR REFRIGERATION SYSTEMS.
 - 2012 ANSI/APSP/ICC 4-12 AMERICA NATIONAL STANDARD FOR ABOVE-GROUND/ ON-GROUND RESIDENTIAL SWIMMING POOLS R4501.6.1.
 - 2013-ANSI/APSP/ICC 6-13 AMERICA NATIONAL STANDARD FOR RESIDENTIAL PORTABLE SPAS AND SWIM SPAS
 - 2017 NATIONAL ELECTRICAL CODE (NEC)ARTICLE NO. 680

IMPORTANT NOTE:

POOL CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO ALL ABOVE LISTED CODE REQUIREMENTS AS WELL AS ANY ADDITIONAL REQUIREMENTS PER LOCAL MUNICIPALITY THAT MAY BE MORE STRINGENT THAN THE ABOVE LISTED CODES REQUIREMENTS.

GENERAL POOL / SPA REQUIREMENTS:

- THE POOL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL DETAIL DESIGN REQUIREMENTS FOR EACH INDIVIDUAL POOL IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, AND ALL CONSTRUCTION SHALL MEET ALL APPLICABLE CODES INCLUDING PLUMBING, ELECTRICAL AND GAS.
- SEE ANSI/NSPI-5 FOR DIVING WATER ENVELOPS.
- SLIDERS SHALL ALSO MEET THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
- LADDER OR STAIRS ARE TO BE PROVIDED. ENTRY/EXIT REQUIRED AT THE SHALLOW END AND DEEP END IF OVER 5 FEET DEEP ACCEPTABLE ARE STAIRS (10" MINIMUM TREAD WITH 240 SQUARE INCH MINIMUM AREA, 12" RISER WITH INTERMEDIATE TREADS AND RISERS UNIFORM), LADDERS, UNDERWATER SEATS, AND SWIM-OUTS (MAXIMUM 20" BELLOW WATERLINE
- OUTDOOR SWIMMING POOLS ARE TO HAVE BARRIERS THAT COMPLY WITH THE FLORIDA BUILDING CODE.
- ALL WALL SURROUNDING INDOOR SWIMMING POOLS SHALL COMPLY WITH THE FLORIDA BUILDING CODE.
- FINAL ELECTRICAL, AND BARRIER CODE, INSPECTIONS SHALL BE COMPLETED PRIOR TO FILING THE POOL WITH WATER.

SPECIAL SPA REQUIREMENTS:

- MAXIMUM WATER DEPTH 4', MAXIMUM SEAT DEPTH 28".
- FLOOR SLOPE 1:12
- MIN. TREAD 10" X 12" MAX. RISER.
- INTERMITTENTLY THE SPA SHALL HAVE A ONE HOUR TURNOVER, IF CONTINUOUS A SIX HOUR TURN OVER.
- MAXIMUM TEMPERATURE 104 DEGREES.

GENERAL STRUCTURAL NOTES:

1. TILE MINIMUM CONCRETE COVER FOR #3 REBAR IS TO BE 2".
2. CONTINUOUS #3 REBAR SPLICES SHALL BE 18" (40 BAR DIAMETERS) MINIMUM LAP, STEEL TO BE BENT, LAPPED, AND PLACED IN CONFORMANCE WITH A.C.J. STANDARDS AND SPECS.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF NOT LESS THAN 3000 PSI AT 28 DAYS.

ELECTRICAL REQUIREMENTS:

- WIRING AND BONDING AND ALL ELECTRICAL SHALL CONFORM TO NEC ARTICLE 680 (2017).
- NO OUTLET OR OVERHEAD POWER WITHIN 10', IF WITHIN 15' PROJECT WITH GFI.
- BRASS FITINGS TO J-BOX OR TRANSFORMER WHICHEVER IS FIRST WHICHEVER IS FIRST, EXCEPT WHERE PVC IS APPROVED.
- BONDING GRID PER NEC 2017 680, 26
- OR
- NEC 2017, 680, 26 (B) (2) (b) ALTERNATE MEANS EQUIPOTENT BONDING CONDUCTOR MUST FOLLOWING REQUIREMENTS:

- (1) 8 AWS BARE SOLID COPPER BONDING CONDUCTOR
- (2) THE BONDING CONDUCTOR MUST FOLLOW THE CONTOUR OF THE PERIMETER SURFACE
- (3) LISTED SPLICING DEVICES
- (4) BONDING CONDUCTOR MUST BE 18 TO 24 INC. FROM THE INSIDE WALLS OF THE POOL
- (5) BONDING CONDUCTOR MUST BE WITHIN OR UNDER THE PERIMETER SURFACE 4 TO 6 IN. BELOW THE SUBGRADE.

- ALL CONTROL ENCLOSURES (INCLUDING ACCESSORY ELECTRONIC EQUIPMENT WITH METAL ENCLOSURES), PUMP MOTORS, HEATERS, LIGHTS, LIGHT TRANSFORMERS, HANDRAIL AND LADDER DECK ANCHORS, WINDOW AND DORRR FRAMES WITHIN 5 FEET OR LESS OF THE WATER'S EDGE ARE TO BE GROUNDED IN ACCORDANCE WITH ARTICLE 680 OF THE 2017 NEC.

- ALL POOL PUMP MOTOR(S) TO HAVE GFCI PROTECTION (NEC 680.22 (B), FBC SECTION 27), AND FRC 4101.16 (EXCEPTION FOR SINGLE FAMILY DWELLING IS REMOVED FROM THE 2020 FBC).

VELOCITY AND FLOW RATE NOTES:

- WATER VELOCITY IN FIELD-FABRICATED PIPING IS BASED ON THE MAXIMUM SYSTEM FLOW RATE. MAXIMUM WATER VELOCITY IN BRANCH SUCTION PIPING (SHOWN IN FIGURE 1) SHALL BE LIMITED TO 6 FEET PER SECOND (FPS) WHEN ONE OF A PAIR IS BLOCKED. IN NORMAL OPERATION THEN, THE BRANCH SUCTION PIPING VELOCITY IS 3 FEET PER SECOND. ALL OTHER SUCTION PIPING VELOCITIES SHALL BE 8 FPS FOR RESIDENTIAL POOLS.

- THE MAXIMUM SYSTEM FLOW RATE SHALL BE DETERMINED BY ONE OF THE FOLLOWING:

TDH CALCULATION FOR THE CIRCULATION SYSTEM OF EACH PUMP, OR A SIMPLIFIED TDH CALCULATION. DETERMINES THE MAXIMUM SYSTEM NOW RATE USING THE SHORTEST DISTANCE BETWEEN THE POOL AND THE PUMP, OMITTING THE CALCULATIONS FOR FIT LINGS/ VALVES, AND USING THE BEST PERFORMANCE RATINGS FOR FILTERS AND HEATERS: OR

THE MAXIMUM FLOW CAPACITY OF THE PUMP, WHICH SHALL BE LIMITED BY THE CRITERIA OF ANSI/ APSP-7-4.4 (NOTE ABOVE).

FILTERS

FILTER SIZE TO BE DETERMINED BASED ON CALCULATED FLOW RATE (GPM) DIVIDED BY THE FOLLWING FILTER CAPACITY (PER APSP -15):

- A. CARTRIDGE = 0.375
- B. SAND = 15
- C. D.E. = 2

-FILTER BACKWASH VALVE (WHEN USED) MUST BE 2" (MIN.)

OR DIAMETER OF THE RETURN PIPE, WHICHEVER IS GREATER.

EQUIPMENT/PIPING REQUIREMENTS:

- THE MAXIMUM SYSTEM FLOW RATE "SEE TDH CALCULATIONS FOR NOTES".
- EQUIPMENT FOUNDATIONS AND ENCLOSURES ALL POOL MOTORS AND EQUIPMENT SHALL BE INSTALLED IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ACCESSIBILITY AND CLEARANCE, EQUIPMENT SHALL BE SO INSTALLED AS TO PROVIDE READY ACCESSIBILITY FOR CLEANING, OPERATING, MAINTENANCE AND SERVICING.
- CIRCULATION SYSTEMS, COMPONENTS AND EQUIPMENT SHALL COMPLY WITH NSF 50.
- THE MAXIMUM TURNOVER RATE IS 12 HOURS.
- ALL FILTERS SHALL HAVE AN AIR RELEASE AND PRESSURE GAUGE.
- SURFACE SKIMMERS SHALL MEET NSF 50 AND THERE SHALL BE ONE FOR EVERY 800 SQUARE FEEL OR SURFACE AREA ANDA 25 GPM MINIMUM EACH.
- RETURN INLETS SHALL BE A MINIMUM OF ONE FOR EVERY 300 SQUARE FEET, RETURN VELOCITY 10FT/S, SPACING OF 10 FEET MINIMUM APART, EXCEPT THERAPY JETS AND SWIM JETS.
- HYDROSTATIC RELIEF DEVICE, IN AREAS OF ANTICIPATED WATER TABLE AN APPROVED HYDROSTATIC REFIEF DEVICE SHALL BE INSTALLED. VALVES SHALL BE APPROVED BY THE FLORIDA BUILDING CODE.
- HEATER SHALL MEET ANSE-Z21.56 OR UL 1261 OU UL 559 AND ANSI/APSP.
- DISINFECTANT EQUIPMENT SHALL COMPLY WITH NSF-50 ANSI/NSPI-4-12 AND ANSI/NSPI-5 2011 BYPASS ON HEATERS.
- PRIMER AND GLUE ON EXPOSED ABOVE-GROUND ARE PIPING NOT REQUIRED TO BE COLORED.
- PIPING SHALL BE SCHEDULE 40 PVC, NSF-PW, MAXIMUM PRESSURE VELOCITY 10 FT/S, AND SUCTION 8 FT/S.
- MAIN DRAINS ARE OPTIONS "SEE TDH CALCULATIONS" OF THIS SET FOR DETAILS AND SPECIFICATIONS.
- VACCUUM CLEANER SUCTION FITTINGS SHALL BE PROTECTED BY A PERMANENTLY SELF-CLOSING FLAPPER VALVE MEETING ANSI/ASME A112.12.8M AND ANSI/APSP-7.
- ALL RETURN INLETS MUST BE DIRECTIONAL INLET FITTINGS.
- THE FOLLOWING SHALL BE LABELED AT THE CIRCULATION EQUIPMENT LOCATION:
 - PIPE
 - VALVES
 - PUMP(S) OFF SWITCH
- WHERE REQUIRED MEET FBC 2020 GAS AND MECHANICAL CODES (OR CODES CURRENTLY ENFORCER WITH MUNICIPALITY)

ENTRAPMENT PROTECTION FOR SUCTION INLETS:

- ENTRAPMENT PROTECTION FOR SUCTION OUTLETS SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF ANSI/PPS-7-13

PUMPS:

- HAIR AND LINT STRAINERS ARE TO BE USED WITH RECIRCULATION SYSTEMS.
- FILTRATION PUMPS TO BE SIZED (BASED ON CALCULATED FLOW RATE IN GPM) TO TURNOVER POOL VOLUME IN SIX (6) HOUR MINIMUM OR 36 GPM (MIN.) WHICHEVER IS GREATER.
- FILTER COMPONENTS SHALL HAVE SUFFICIENT CAPACITY TP PROVIDE A COMPLETE TURNOVER OF POOL WATER IM TWELVE (12) HOUR OR LESS.
- RECIRCULATION PUMPS LESS THAN ONE HORSEPOWER (1 HP) SHALL BE TWO OR MORE PUMPS WITH ADEQUATE CONTROLLER. THE DEFAULT CIRCULATION MUST BE THE RESIDENTIAL FILTRATION (SLOWER) SPEED. THE SIMPLIFIED TOTAL DYNAMIC HEAD SHEET TO BE CALCULATED AND PLUMBING SIZE DETERMINED BASED ON (HIGHER) SPEED. THE HIGHER SPEED OVERRIDE IS NOT TO EXCEED ONE NORMAL DAY'S CYCLE OR 24 HOURS, WHICHEVER IS LESS I.E.: CONTROLLER RESETS PUMP TO SLOWER SPEED AT THE START OF THE NEXT CIRCULATIONS CYCLE.
- PUMPS THAT ARE USED FOR CIRCULATION ONLY (WITHOUT FILTRATION). SPA THERAPY PUMPS OR WATER FEATURE PUMPS ARE "EXEMPT" FROM THIS REQUIREMENT.
- POOL FILTRATION PUMPS SUCTION LINE (BEFORE PUMP) SHALL HAVE A STRAIGHT LENGHT OF PIPE (4 PIPE DIAMETERS MIN.) I.E.: 2" SUCTION LINE SHOULD HAVE (4 X 2" DIA.) 8" OF STRAIGHT PIPE FOM SUCTION INLET TO THE FIRST PVC FITTING.

SUCTION TYPE - SKIMMER / VACUUM NOTES:

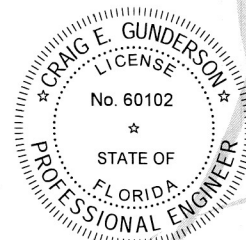
- MAIN DRAINS ARE NOT REQUIRED. WHEN MAIN DRAINS ARE NOT INCLUDED THE SKIMMER OR SURFACE OVERFLOW MUST BE HYDRAULICALLY DESIGNED TO THE MAXIMUM FLOW RATE OF THE POOL. SKIMMERS SHALL BE VENTED TO ATMOSPHERE THROUGH OPENINGS IN THE LID, OR THROUGH A SEPARATE VENT PIPE, DESIGNED IN ACCORDANCE WITH ANSI-APSP-7 7.2, OR INCORPORATE AN EQUALIZER LINE. (SEE FIGURE ON SHEET 04). SKIMMER EQUALIZER LINES, WHEN USED SHALL BE LOCATED ON THE WALL.
- WITH THE CENTER NO MORE THAN 18 INCHES (457 MM) BELOW THE MAXIMUM OPERATING LEVEL. IT SHALL BE PROTECTED BY A LISTED SUCTION OUTLET COVER/ GRATE WITH A HOW RATING EQUAL TO THE MAXIMUM SYSTEM SLOW DIVIDED BE THE NUMBER OF SKIMMERS WHEN PIPED THROUGH A COMMON SUCTION LINE, OR THE MAXIMUM FLOW RATING OF THE SKIMMER, WHICHEVER IS GREATER (SEE FIGURE ON SHEET 04).
- WALL VACUUM FITTING (S). WHEN USED, VACUUM CLEANER FITTING(S) SHALL BE LOCATED IN AN ACCESSIBLE POSITION(S) AT LEAST 6 INCHES (152 MM) AND NO GREATER THAN 18 INCHES (457 MM) BELOW THE WATER LEVEL AND THE SELF-CLOSING, SELF-LATCHING FITTING SHALL COMPLY WITH IAPMO SPS.
- SPECIAL USE SUCTION FITTING FOR SWIMMING POOLS, SPAS AND HOT TUBS (FOR SUCTION SIDE AUTOMATIC SWIMMING POOL CLEANERS). IN ADDITION, THE VACUUM PIPING SHALL BE EQUIPPED WITH A VALVE TO REMAIN IN THE CLOSED POSITION WHEN NOT IS USE.

SUCTION TYPE - MAIN DRAIN / SUCTION OUTLET NOTES:

- DUAL OUTLETS, I.E., TWO LISTED SUCTION OUTLETS, ARE PIPED TO A SINGLE, COMMON SUCTION LINE TO THE PUMPS(S). THE TEE FEEDING FROM THE COMMON LINE BETWEEN THE SUCTION OUTLETS, TO THE PUMPS(S) SHALL BE LOCATED APPROXIMATELY MIDWAY.
- BETWEEN THE OUTLETS WITH NOW OUT OF THE BRANCH OF THE TEE. SEE FIGURES ON SHEET 04. THE FLOW RATING OF EACH COVER/ GRATE SHALL BE AT LEAST EQUAL TO THE SYSTEMS MAXIMUM FLOW RATE.
- DUAL OUTLETS SHALL BE SEPARATED BY A MINIMUM OF 3 FEET (914 MM) MEASURED FROM CENTER TO CENTER OF THE SUCTION PIPES (SEE FIGURES ON SHEET 04) OR LOCATED ON TWO (2) DIFFERENT PLANES, I.E. ONE (1) ON THE BOTTOM AND ONE (1) ON THE VERTICAL WALL, OR ONE (1) EACH ON TWO (2) SEPARATE VERTICAL WALLS. (SEE SHEET 04).
- THREE OR MORE LISTED SUCTION OUTLETS ARE PIPED IN PARALLEL TWO OF THE OUTLETS SHALL BE PIPED WITH THE TEE FEEDING THE SUCTION LINE TO THE PUMP(S) LOCATED APPROXIMATELY MIDWAY BETWEEN THE TWO OUTLETS. THE ADDITIONAL OUTLET (S) SHALL BE PERMITTED WHEN PIPED ACCORDING TO FIGURES ON SHEET 04.
- A SINGLE LISTED CHANNEL OUTLET SHALL BE CONSIDERED ACCEPTABLE IF THE SIZE OF THE PERFORATED AREA IS 3" OR GREATER IN WIDTH AND 31" OR GREATER IN LENGTH.
- SINGLE OUTLET SWIM-JET SYSTEMS CONSIST OF A COMBINATION FITTING THAT INCORPORATES A SUCTION OUTLET AND INLET IN A SINGLE HOUSING THAT IS DESIGNED TO MOVE A LARGE VOLUME OF WATER AT HIGH VELOCITY IN A SINGLE DIRECTION. SUCH SYSTEMS SHALL BE TESTED AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AS CONFORMING TO THE MOST RECENT EDITION OF ASME/ ANSI 112.19.8 AND INCLUDE A PERMANENTLY MARKED FLOW RATING TESTED TO PREVENT HAIR ENTRAPMENT. THEY ARE NOT GOVERNED BY THE VELOCITY LIMITATIONS OF ANSIFAPSP-7-4.4.

BLDG. PERMIT PLANS
FILE COPY OF RECORD

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Digitally signed
by Craig E Gunderson
Date:
2023.08.03
15:03:48 -04'00'

FLORIDA ENGINEERING LLC
4161 TAMiami TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
Orders@FLEng.com

CA CERT. #30762

PROJECT NO. 2318896 -R

PSPS
Permit # ~~23-0045~~
REVIEWED FOR CODE COMPLIANCE
LONGBOAT KEY BUILDING DEPT.

Reviewer: _____

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AUG 16 2023
TOWN OF LONGBOAT KEY
Planning, Zoning & Building

SHEET NO.	DRAWING INDEX
S/01	GENERAL NOTES
S/02	PLAN/ ELEVATIONS
S/03	DETAILS
S/04	DETAILS

BLDG. PERMIT PLANS
FILE COPY OF RECORD

CONTRACTOR:

WATER LILY POOL & SPA
6906 34TH AVE W
BRADENTON, FL 34209

PROJECT ADDRESS:

JEWFISH HOLDINGS LLC
7147 LA LENAIRE DR,
LONGBOAT KEY FL 34228

DESIGN DATE: 07/12/2023

REVISION 1: 08/01/2023

REVISION 2: DATE

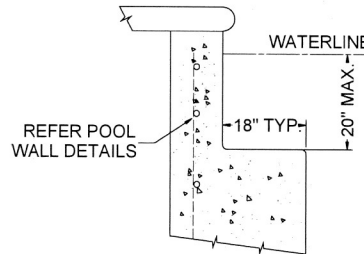
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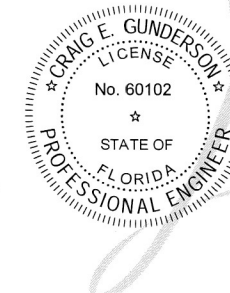
**SCOPE OF WORK:
RESIDENTIAL SWIMMING POOL ENGINEERING
(POOL NOT DESIGNED FOR DIVING)**

POOL PLAN

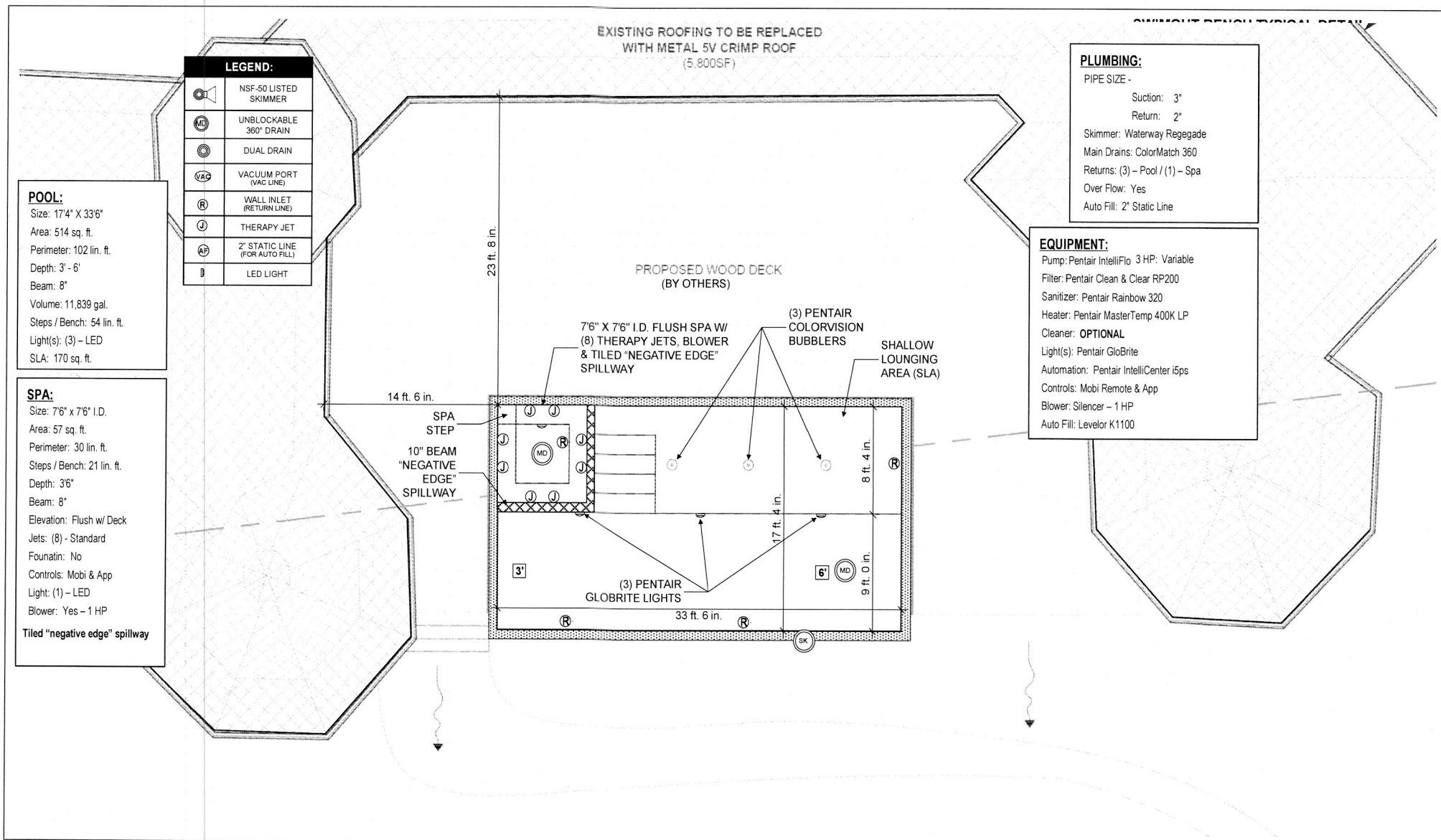


NOTE:
1) WHEN PROVIDED SHALL BE AT 20" MAX. BELOW THE WATERLINE AS SHOWN, AND SHALL BE VISUALLY SET APART FROM THE POOL.
2) MIN. UNOBSTRUCTED WALKING SURFACE OF 240 SQ. INCHES.

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Date: 2023.08.03 15:03:51 -04'00'



POOL:
Size: 17'4" X 33'6"
Area: 514 sq. ft.
Perimeter: 102 lin. ft.
Depth: 3' - 6'
Beam: 8"
Volume: 11,839 gal.
Steps / Bench: 54 lin. ft.
Light(s): (3) - LED
SLA: 170 sq. ft.

SPA:
Size: 7'6" x 7'6" I.D.
Area: 57 sq. ft.
Perimeter: 30 lin. ft.
Steps / Bench: 21 lin. ft.
Depth: 3'6"
Beam: 8"
Elevation: Flush w/ Deck
Jets: (8) - Standard
Fountain: No
Controls: Mobi & App
Light: (1) - LED
Blower: Yes - 1 HP
Tiled "negative edge" spillway

LEGEND:

	NSF-50 LISTED SKIMMER
	UNBLOCKABLE 360° DRAIN
	DUAL DRAIN
	VACUUM PORT (VAC LINE)
	WALL INLET (RETURN LINE)
	THERAPY JET
	2" STATIC LINE (FOR AUTO FILL)
	LED LIGHT

PLUMBING:
PIPE SIZE -
Suction: 3"
Return: 2"
Skimmer: Waterway Regegrade
Main Drains: ColorMatch 360
Returns: (3) - Pool / (1) - Spa
Over Flow: Yes
Auto Fill: 2" Static Line

EQUIPMENT:
Pump: Pentair IntelliFlo 3 HP; Variable
Filter: Pentair Clean & Clear RP200
Sanitizer: Pentair Rainbow 320
Heater: Pentair MasterTemp 400K LP
Cleaner: **OPTIONAL**
Light(s): Pentair GloBrite
Automation: Pentair IntelliCenter i5ps
Controls: Mobi Remote & App
Blower: Silencer - 1 HP
Auto Fill: Levelor K1100

ENTRY/ EXIT REQUIRED AT THE SHALLOW END AND DEEP END IF OVER 5 FEET DEEP. ACCEPTABLE ARE STAIRS (10" MINIMUM TREAD WITH 240 SQUARE INCH MINIMUM AREA, 12" RISER (MAX.) WITH INTERMEDIATE TREADS AND RISERS UNIFORM), LADDERS, UNDERWATER SEATS, AND SWIM-OUTS (MAXIMUM 20" BELOW WATERLINE).

ANY GLAZING WITHIN 5 FT. OF POOL SHALL BE SHALL CONFORM TO FBC R308.4.5.

EQUIPOTENTIAL BONDING SHALL CONFORM TO 2017 NEC SECTION 680.26.

ENTRAPMENT PROTECTION FOR SUCTION OUTLETS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/APSP/ICC-7 & 2020 FBC R4501.6.6.

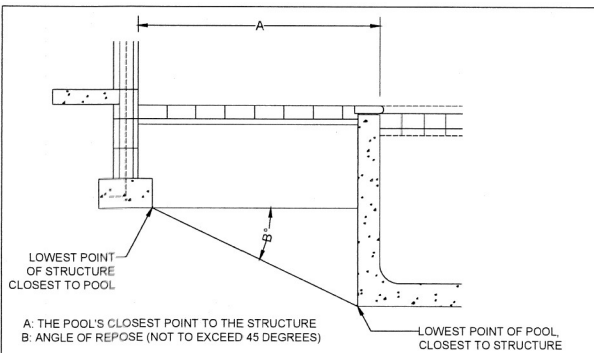
THE NUMBERS OF RETURN INLETS SHALL BE BASED ON A MINIMUM OF (1) RETURN INLET PER 300 SQ. FT. OF POOL SURFACE AREA OR FRACTION THEREOF.

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 SQUARE FEET (74 M2) OF SURFACE AREA OR FRACTION THEREOF, AND SHALL BE DESIGNED FOR A FLOW RATE OF AT LEAST 25 GALLONS PER MINUTE (GPM) (1.6 L/S) PER SKIMMER.

FOR ALL WALKING SURFACES LOCATED MORE THAN 30" ABOVE GRADE, GUARDS SHALL BE PROVIDED PER 2020 R312.

OUTDOOR RESIDENTIAL SWIMMING POOLS SHALL BE PROVIDED WITH A BARRIER COMPLYING WITH 2020 FBC R4501.17.1.1 THROUGH R4501.17.1.14.

WHERE A WALL OF DWELLING SERVES AS PART OF THE BARRIER, ONE OF THE FOLLOWING SHALL APPLY:
1) ALL DOORS AND WINDOWS PROVIDING DIRECT ACCESS FROM THE HOME/ DWELLING TO THE POOL SHALL BE EQUIPPED W/ AN EXIT ALARM COMPLYING W/ UL 2017
2) ALL DOORS PROVIDING DIRECT ACCESS FROM THE HOME TO THE POOL MUST BE EQUIPPED W/ A SELF-CLOSING, SELF-LATCHING DEVICE W/ POSITIVE MECHANICAL LATCHING/ LOCKING INSTALLED A MIN. OF 54 INCHES ABOVE THE THRESHOLD, WHICH IS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
3) A SWIMMING POOL ALARM THAT COMPLIES TO ASTM STANDARD F2208.

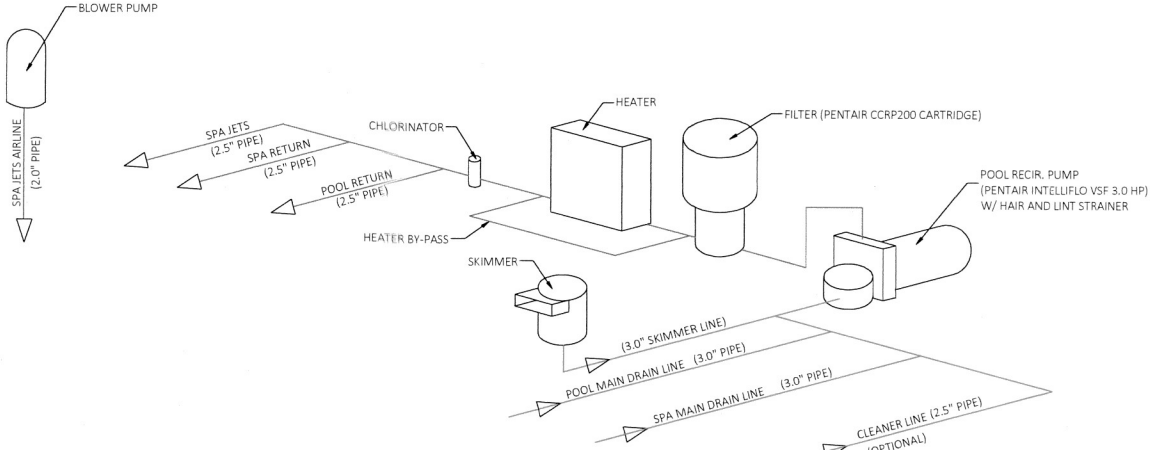


HYDROSTATIC RELIEF DEVICE, IN AREAS OF ANTICIPATED WATER EXCAVATION FOR ANY PURPOSE SHALL NOT REDUCE VERTICAL OR LATERAL SUPPORT FOR ANY FOUNDATION OR ADJACENT FOUNDATION WITHOUT FIRST UNDERPINNING OR PROTECTING THE FOUNDATION AGAINST DETERMINANT LATERAL OR VERTICAL MOVEMENT, OR BOTH.

FBC 1804.1 EXCAVATION NEAR FOUNDATIONS:
EXCAVATION FOR ANY PURPOSE SHALL NOT REDUCE VERTICAL OR LATERAL SUPPORT FOR ANY FOUNDATION OR ADJACENT FOUNDATION WITHOUT FIRST UNDERPINNING OR PROTECTING THE FOUNDATION AGAINST DETERMINANT LATERAL OR VERTICAL MOVEMENT, OR BOTH.

POOL IN FLOOD HAZARD AREAS (WHEN APPLICABLE, CONTRACTOR TO VERIFY):
A) 2020 FBC R322.1.6 PROTECTION OF MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS, ELECTRICAL SYSTEMS, EQUIPMENT AND COMPONENTS: HEATING, VENTILATING, AIR CONDITIONING, PLUMBING APPLIANCES AND PLUMBING FIXTURES, DUCT SYSTEMS, AND OTHER SERVICE EQUIPMENTS SHALL BE LOCATED AT OR ABOVE THE ELEVATION REQUIRED IN SECTION R322.2 OR R322.3.
EXCEPTION (2020 FBC 1612.4.2): EQUIPMENT FOR POOLS, SPAS AND WATER FEATURES SHALL BE PERMITTED BELOW THE ELEVATION REQUIRED IN TABLE 7-1, PROVIDED IT IS ELEVATED TO THE EXTENT PRACTICAL, IS ANCHORED TO PREVENT FLOATATION AND RESIST FLOOD FORCES, AND IS SUPPLIED BY BRANCH CIRCUITS THAT HAVE GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION.
B) 2020 FBC R322.2.1 ELEVATION REQUIREMENTS:
BUILDINGS AND STRUCTURES IN FLOOD HAZARD AREAS, INCLUDING FLOOD HAZARD AREAS DESIGNATED AS COASTAL A ZONES, SHALL HAVE THE LOWEST FLOORS ELEVATED TO OR ABOVE THE BASE FLOOD ELEVATION PLUS 1 FOOT (305 MM), OR THE DESIGN FLOOD ELEVATION, WHICHEVER IS HIGHER.

PLUMBING SCHEMATIC DIAGRAM



NOTE:
1) MAIN DRAIN BRANCH LINE = 3.0"
2) POOL EQUIP. 100'-0" AWAY FROM POOL

TOWN OF LONGBOAT KEY
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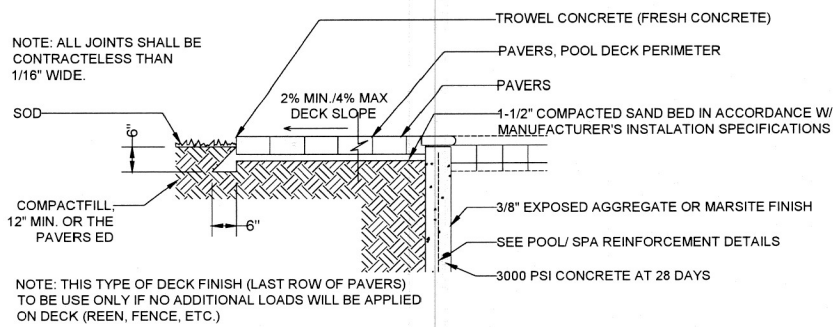
FLORIDA ENGINEERING LLC
4161 TAMiami TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
Orders@FLEng.com
PROJECT NO. 2318896 -R
CA CERT. #30762

CONTRACTOR: WATER LILY POOL & SPA
6906 34TH AVE W
BRADENTON, FL 34209

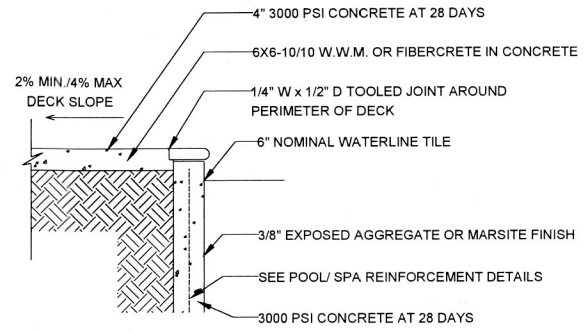
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7147 LA LENAIRE DR,
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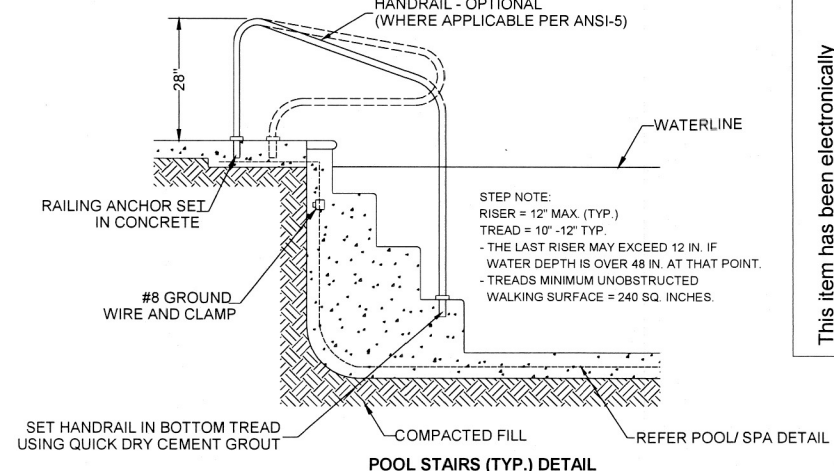
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INTERLOCKING PAVERS, FOOTING AND TYP. DECK DETAIL

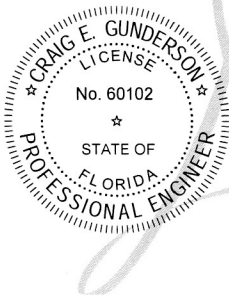


POOL/ SPA CONC. DECK (TYP.) DETAIL

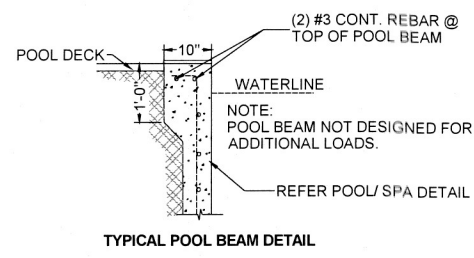


POOL STAIRS (TYP.) DETAIL

This item has been electronically signed and sealed by Craig E. Gunderson, P.E. on date below using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



Digitally signed by Craig E Gunderson
 Date: 2023.08.03 15:03:54 -04'00'



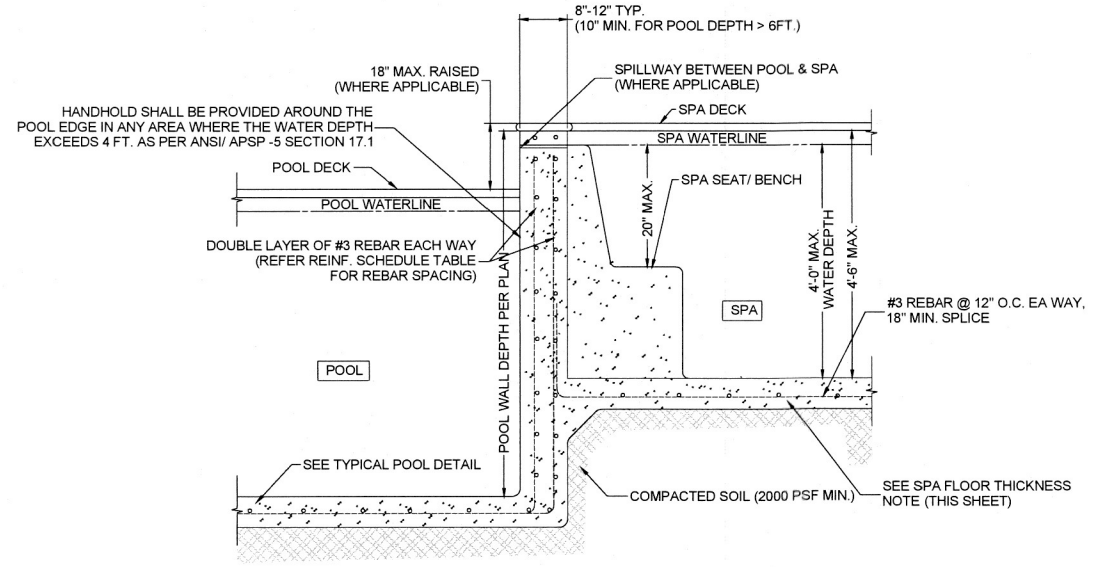
TYPICAL POOL BEAM DETAIL

MAXIMUM AVERAGE WALL DEPTH	REINFORCEMENT SPACING (O.C. EACH WAY)	
	#3 REBAR (18" MIN. SPLICE)	#4 REBAR (24" MIN. SPLICE)
5'-8"	12"	18"
6'-7"	10"	18"
6'-10"	9"	16"
7'-1"	8"	14"
7'-5"	6"	12"

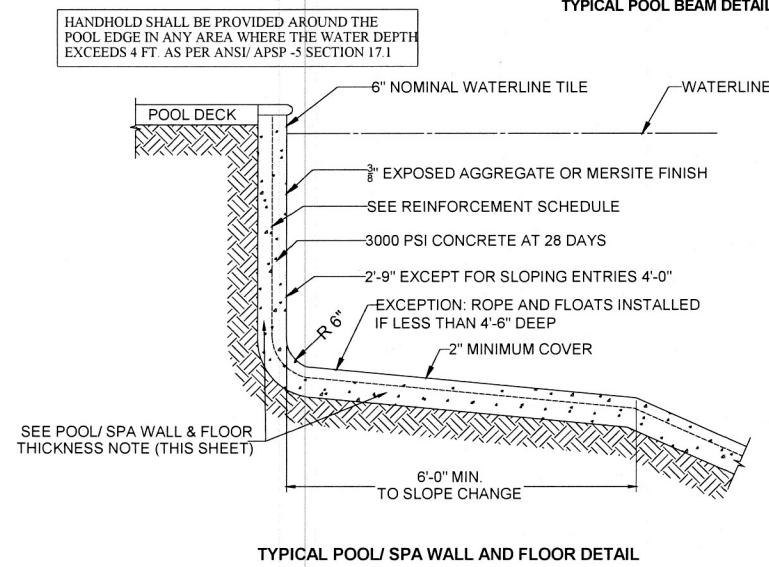
TABLE: REINFORCEMENT SCHEDULE

POOL/ SPA FLOOR & WALL THICKNESS NOTE:
 6" THICK (MIN.) POOL/ SPA WALL & FLOOR FOR POOL NOT IN THE FLOOD HAZARDS AREA UNLESS NOTED OTHERWISE. SEE NOTES BELOW IF POOL/ SPA TO BE INSTALLED ON FLOOD HAZARDS AREA. (CONTRACTOR TO VERIFY)

POOL/ SPA IN FLOOD HAZARD AREAS OTHER THAN COASTAL HIGH HAZARDS AREAS AND COASTAL A ZONES:
 1) PROVIDE 8" THICK (MIN.) POOL/ SPA WALL & FLOOR UNLESS NOTED OTHERWISE.
 2) REFER SHEET 02 FOR FLOOD HAZARDS AREA NOTES.
 [ABOVE DETAIL VALID ONLY WHEN THE ELEVATION OF THE ACCOMPANYING POOL/ SPA DECK OR GRADE IS AT OR ABOVE (BFE + 1 FT) OR DFE WHICHEVER GREATER; FOR OTHER CONDITIONS, CONTACTOR SHALL CONSULT WITH THE ENGINEER]



TYP. POOL-SPA SECTION



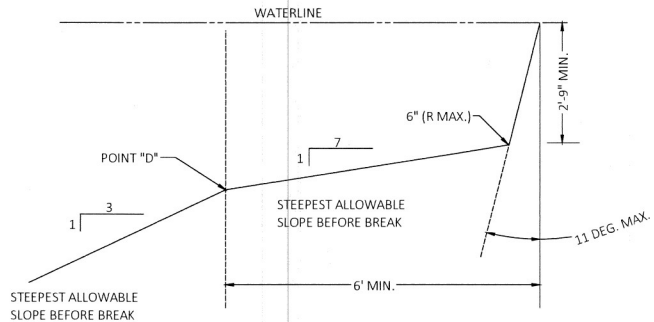
TYPICAL POOL/ SPA WALL AND FLOOR DETAIL

POOL FLOOR SLOPES NOTE (ANSI/ APSP/ ICC -5)

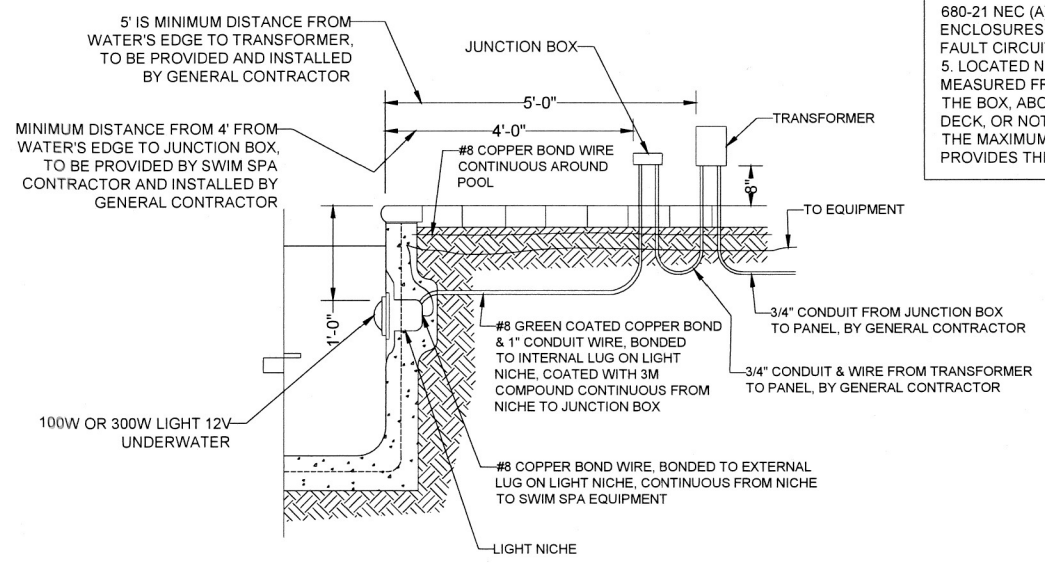
- THE SLOPE OF THE FLOOR FROM THE SHALLOW END WALL TOWARDS THE DEEP AREA SHALL NOT EXCEED A 1:7 INCLINE TO THE POINT OF THE FIRST SLOPE CHANGE.
 - CHANGES IN THE SLOPE BETWEEN SHALLOW AND DEEP AREAS SHALL BE AT A MINIMUM WATER DEPTH OF 2 FT. 9 IN. AND BE AT LEAST 6 FT. FROM SHALLOW END, EXCEPT AS SPECIFIED IN PARA. 6.3 ANSI/APSP/ICC-5 "SHALLOW END DETAIL FOR BEACH AND SLOPING ENTRIES".
 - THE SLOPE OF THE FLOOR SHALL NOT EXCEED A 1:3 INCLINE FOR DEEPER AREA AFTER 1:7 INCLINATION.

ANSI/ APSP-5 SECTION 17.2 ROPE AND FLOAT:

- IN POOLS WHERE THE POINT OF FIRST SLOPE CHANGE (POINT D, FIGURE BELOW) OCCURS IN WATER DEPTHS LESS THAN 4'-6", A ROPE AND FLOAT ASSEMBLY SHALL BE INSTALLED ACROSS THE WIDTH OF THE POOL GENERALLY PARALLEL TO, AND AT A MIN. OF 1 FT. AND A MAX. OF 2 FT. ON THE SHALLOW SIDE OF THE CHANGE IN FLOOR SLOPE.

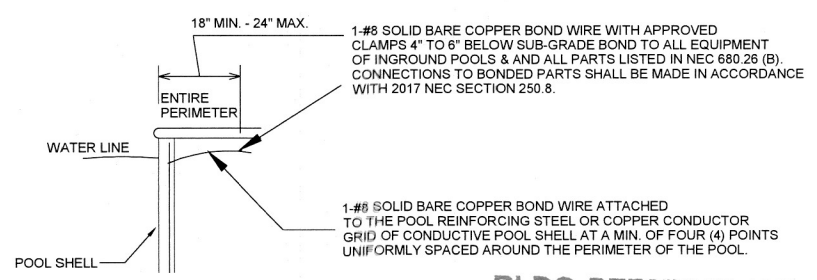


ALLOWABLE POOL FLOOR & WALL GEOMETRY

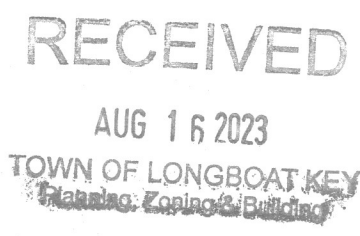


POOL LIGHT & EQUIPOTENT BONDING

680-21 NEC (A) JUNCTION BOXES AND ENCLOSURES FOR TRANSFORMERS OR GROUND-FAULT CIRCUIT INTERRUPTERS:
 5. LOCATED NOT LESS THAN 4 IN. (102 MM), MEASURED FROM THE INSIDE OF THE BOTTOM OF THE BOX, ABOVE THE GROUND LEVEL, OR POOL DECK, OR NOT LESS THAN 8 IN. (203 MM) ABOVE THE MAXIMUM POOL WATER LEVEL, WHICHEVER PROVIDES THE GREATER ELEVATION



EQUIPOTENTIAL BONDING DETAIL (2017 NEC SEC 680.26 (E) 2(b))



FLORIDA ENGINEERING LLC
 4161 TAMiami TRAIL, UNIT 101
 PORT CHARLOTTE, FLORIDA 33952
 (941) 391-5980
 FLEng.com
 Orders@FLEng.com

PROJECT NO. 2318896 -R

CA CERT. #30782

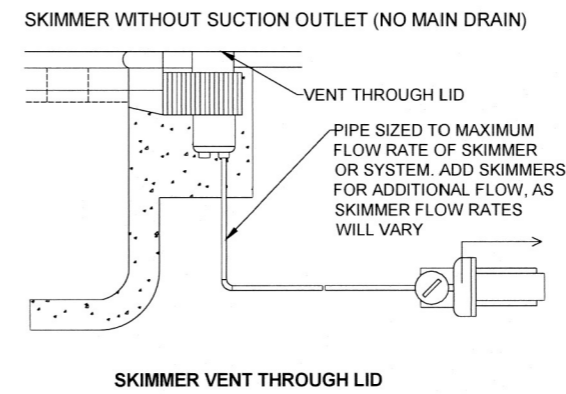
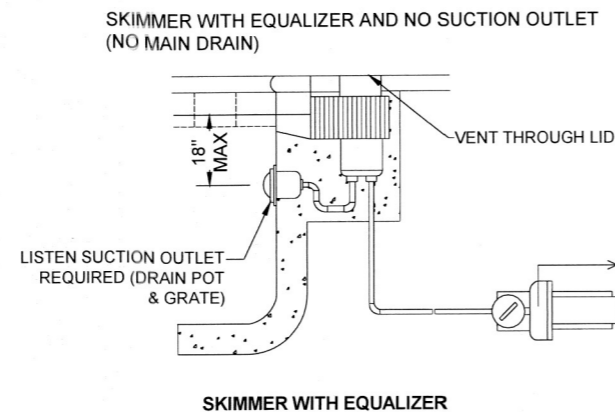
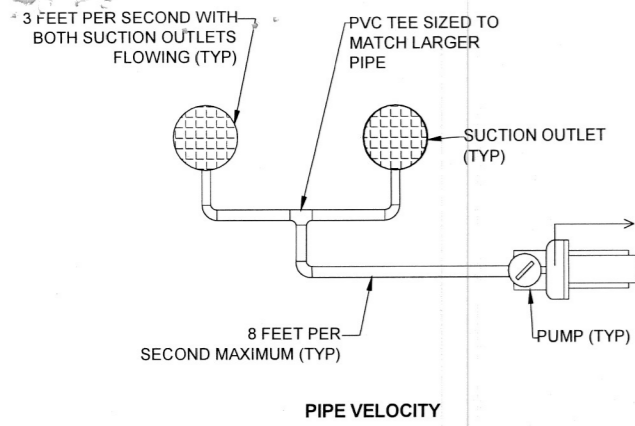
CONTRACTOR:
 WATER LILY POOL & SPA
 6906 34TH AVE W
 BRADENTON, FL 34209

PROJECT ADDRESS:
 JEWISH HOLDINGS LLC
 7147 LA LENAIRE DR,
 LONGBOAT KEY FL 34228

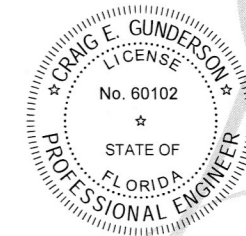
DESIGN DATE: 07/12/2023
 REVISION 1: 08/01/2023
 REVISION 2: DATE
 DRAWN BY: PD
 SCALE: NTS

BLDG. PERMIT PLANS
 FILE COPY OF RECORD

SHEET : 03

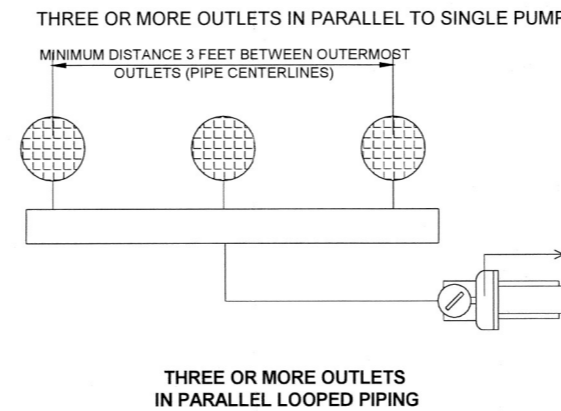
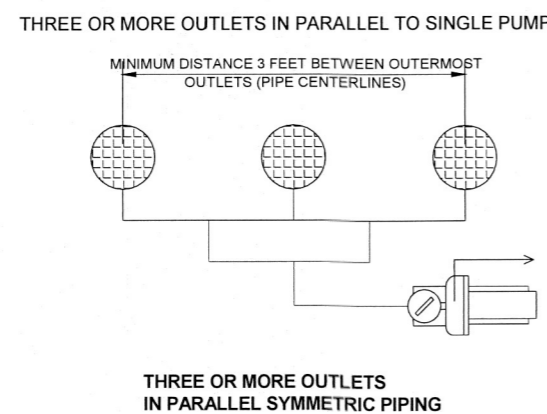
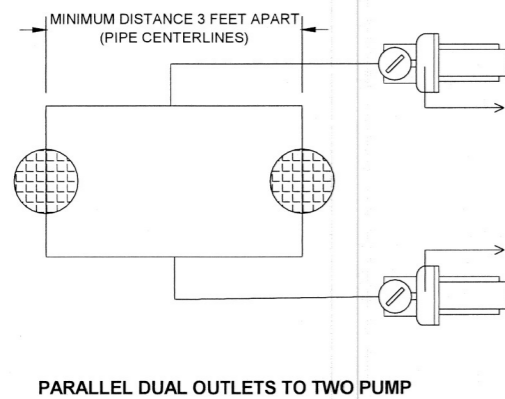
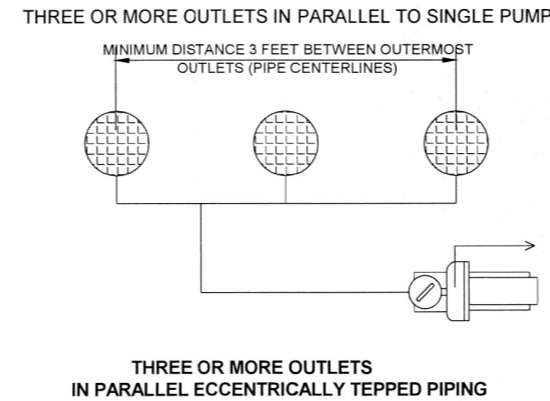
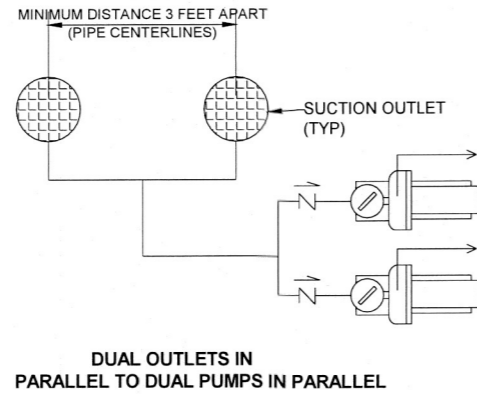
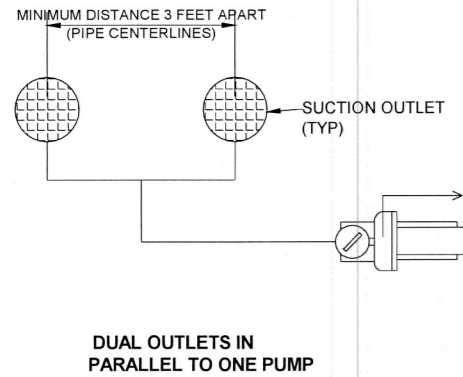


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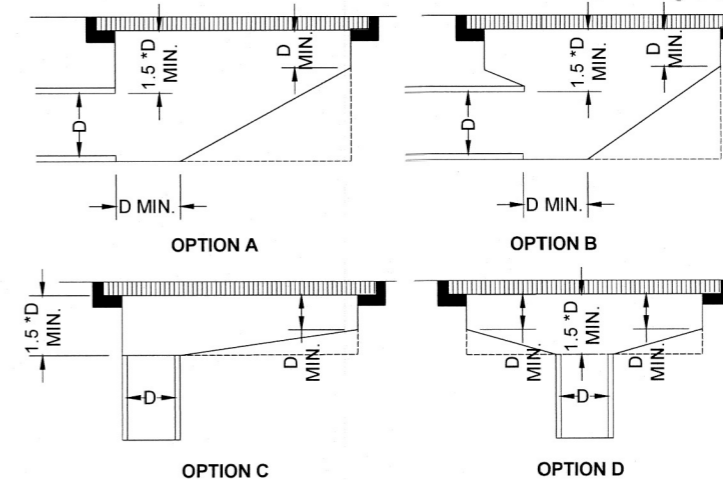
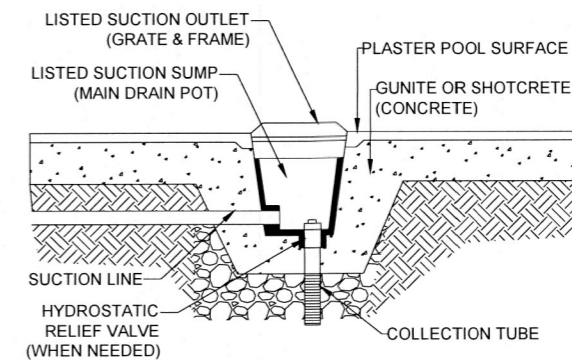
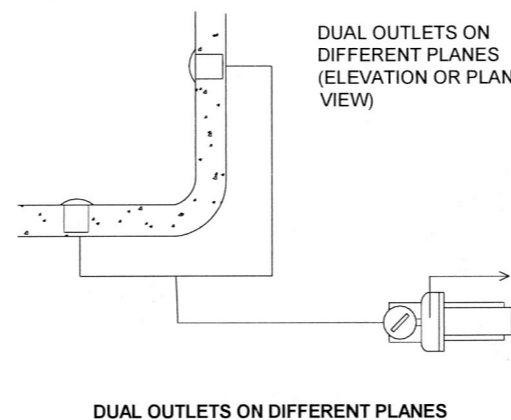
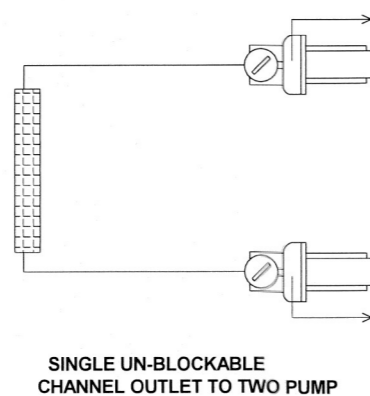
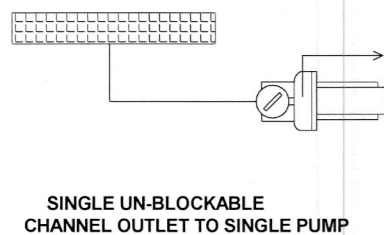


Digitally signed by Craig E Gunderson
Date: 2023.08.03 15:03:57 -04'00'

MAIN DRAINS PLUMBING METHODS:



A SINGLE LISTED CHANNEL OUTLET SHALL BE CONSIDERED ACCEPTABLE IF THE SIZE OF THE PERFORATED AREA IS 3" OR GREATER IN WIDTH AND 31" OR GREATER IN LENGTH.

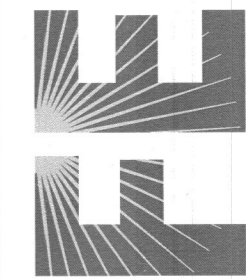


GENERAL NOTES:
(a) D= INSIDE DIAMETER OF PIPE
(b) ALL DIMENSIONS SHOWN ARE MINIMUMS
(c) A BROKEN LINE (---) INDICATES SUGGESTED STP CONFIGURATION

RECEIVED

AUG 16 2023
TOWN OF LONGBOAT KEY
Planning, Zoning & Building

FLORIDA ENGINEERING LLC
4161 TAMiami TRAIL, UNIT 101
PORT CHARLOTTE, FLORIDA 33952
(941) 391-5980
FLEng.com
Orders@FLEng.com



CA CERT. #30782
PROJECT NO. 2318896 -R

CONTRACTOR:
WATER LILY POOL & SPA
6906 34TH AVE W
BRADENTON, FL 34209

PROJECT ADDRESS:
JEWFISH HOLDINGS LLC
7147 LA LENAIRE DR,
LONGBOAT KEY FL 34228

DESIGN DATE:	07/12/2023
REVISION 1:	08/01/2023
REVISION 2:	DATE
DRAWN BY:	PD
SCALE:	NTS

BLDG. PERMIT PLANS
FILE COPY OF RECORD

SHEET :
04

BLDG PERMIT PLANS
FILE
Copy of Record

RECEIVED
SEP 01 2023
TOWN OF LONGBOAT KEY
Planning, Zoning & Building

**HALFLANTS
+ PICHETTE**
www.halflantspichette.com
1000 SW 5th St, Fort Lauderdale, FL 33304 | (954) 566-1837 | Design: AIA 0001-200

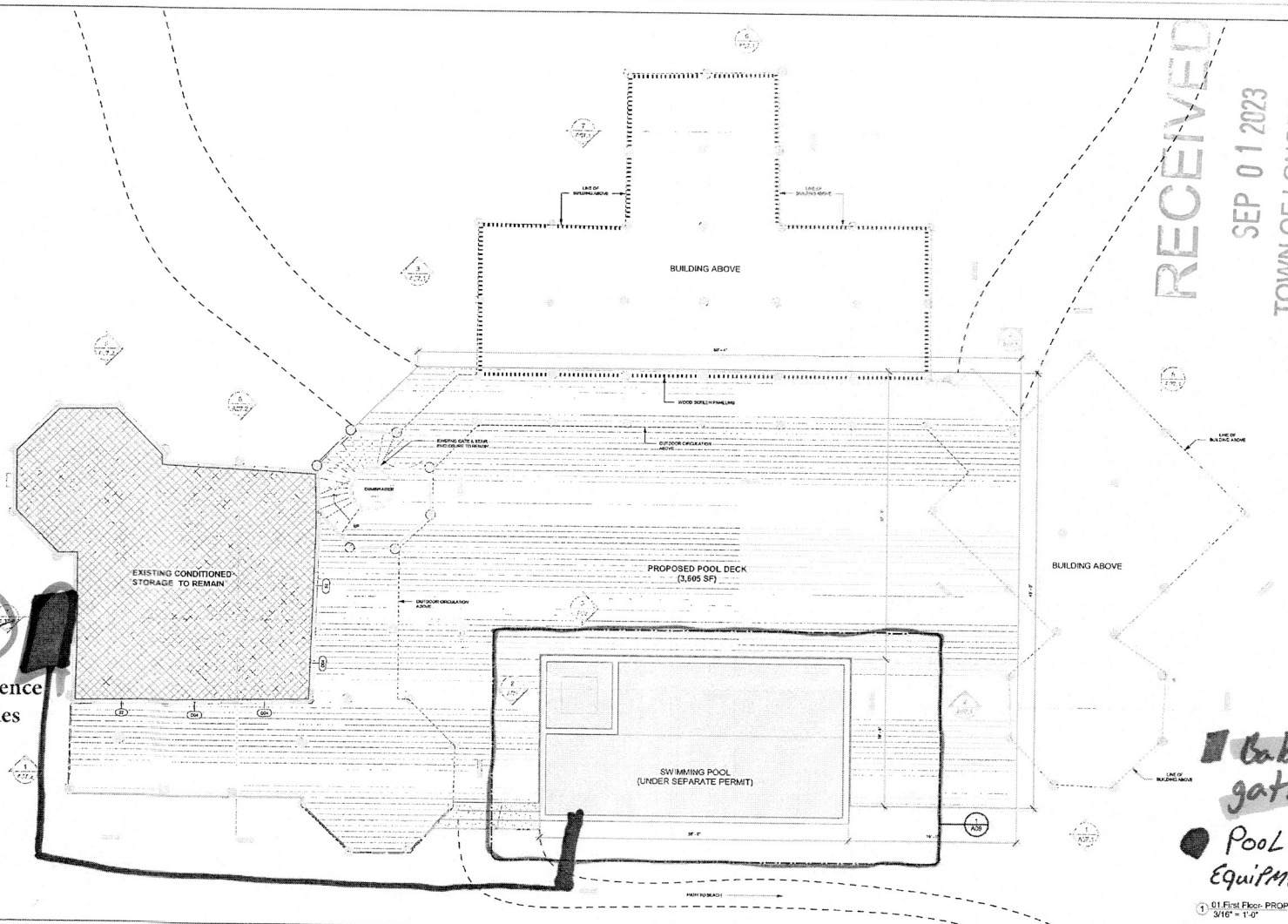
**MINCBERG
RENOVATION**
7147 LA LENAIRE DRIVE,
LONGBOAT KEY, FL 34228

Revision Schedule	Description
No.	Date



DATE: 05.13.2022
SCALE: As indicated
DRAWN: EM
PHASE: C.D.
SHEET NO.:
A03.1
FIRST FLOOR
PROPOSED

PERMIT SET



GENERAL CONSTRUCTION NOTES

- CONTRACTOR SHALL BE RESPONSIBLE TO FULLY ACCQUANT MYSELF WITH THE DRAWINGS AND SPECIFICATIONS CONCERNING OTHER TRADES AND SUB CONTRACTS AND SHALL COORDINATE ALL SUBCONTRACT WORK TO INSURE PROPER SEQUENCING OF WORK AND SCHEDULING OF TRADES TO AVOID CONFLICT WITH HIS WORK.
- ITEMS, MATERIALS OR EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS AS FURNISHED BY OWNER AND INSTALLED IN THE CONTRACT SHALL BE UNPACKED, UNCRATED, ASSEMBLED, INSTALLED AND CONNECTED BY THE CONTRACTOR AND SHALL BE COMPLETE AND PLACED IN OPERATING ORDER.
- BEFORE ORDERING MATERIAL OR STARTING ANY WORK, THE CONTRACTOR SHALL IN ALL CASES VERIFY THE MEASUREMENTS AT THE SITE OR PREMISES AND CHECK SAME AGAINST DRAWINGS. ANY DISCREPANCY FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL INSPECT AND VERIFY THE SCOPE OF WORK. ANY ADDITIONAL WORK NOT SPECIFICALLY NOTED ON THE DRAWINGS BUT YET APPARENT TO FIELD INSPECTION OR NECESSARY TO SATISFY APPLICABLE CODES IN ORDER TO OBTAIN A CERTIFICATE OF OCCUPANCY SHALL BE CONSIDERED AS PART OF THIS CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR OMISSIONS.
- THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
- ALL PRODUCT AND MATERIAL INSTALLATIONS SHALL MEET OR EXCEED MANUFACTURER'S RECOMMENDED STANDARDS AND SHALL BE EFFECTIVELY WARRANTED TO OWNER.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLIANCE WITH THE LABOR LAWS OF FLORIDA AND WITH ALL OTHER APPLICABLE ORDINANCES, CODES, AND LEGAL REQUIREMENTS BY STATE OR LOCAL AUTHORITIES AS THEY MAY APPLY TO THE PROJECT.
- IN CASE OF DISCREPANCY CONCERNING QUALITY AND OR QUANTITY WITHIN THE DOCUMENTS, THE CONTRACTOR SHALL INCLUDE THE BETTER QUALITY AND OR THE GREATER QUANTITY UNLESS OTHERWISE DETERMINED IN WRITING BY THE ARCHITECT.
- THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL ITEMS IDENTIFIED IN THE SUBMITTAL SCHEDULE TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- ALL SURFACES INCLUDING THOSE HIDDEN FROM VIEW OR MATERIALS OR ITEMS SHALL BE PAINTED. MATERIALS AND ITEMS TO BE PAINTED INCLUDE BUT ARE NOT LIMITED TO: THOSE INDICATED.
- ALL CONSTRUCTION SHALL BE PERFORMED IN CONFORMANCE WITH THE FLORIDA BUILDING CODE 2010 AND LOCAL JURISDICTIONS.

FINISH SCHEDULE

SYMBOL: FLOOR SCHEDULE BY COUNT	SYMBOL: BASE BOARD	SYMBOL: CEILING FINISH
[Pattern] EXISTING TILE TO REMAIN	#1 HARDWOOD - PAINTED	C1 GYP. BD. LIGHT ORANGE PEEL - PAINTED
[Pattern] PROPOSED TILE FLOOR TRG	#2 TILE BASE BOARD	C2 EXTERIOR CEMENT PLASTER - SMOOTH
[Pattern] WOOD FLOORING		C3 EXISTING WOOD CEILING TO REMAIN
F1 EXISTING TILE TO REMAIN		
F2 NEW PORCELAIN TILE		
F3 WOOD FLOORING (4,888 SF)		
	SYMBOL: WALL FINISH	SYMBOL: CEILING FINISH
	W1 GYP. BD. LIGHT ORANGE PEEL - PAINTED	C1 GYP. BD. LIGHT ORANGE PEEL - PAINTED
	W2 T&S WALL FINISH	C2 EXTERIOR CEMENT PLASTER - SMOOTH
	W3 EXTERIOR CEMENT PLASTER - SMOOTH	C3 EXISTING WOOD CEILING TO REMAIN
	W4 EXTERIOR COMPOSITE WOOD SIDING	
		SYMBOL: CEILING FINISH
		C1 GYP. BD. LIGHT ORANGE PEEL - PAINTED
		C2 EXTERIOR CEMENT PLASTER - SMOOTH
		C3 EXISTING WOOD CEILING TO REMAIN
		SYMBOL: CEILING FINISH
		C1 GYP. BD. LIGHT ORANGE PEEL - PAINTED
		C2 EXTERIOR CEMENT PLASTER - SMOOTH
		C3 EXISTING WOOD CEILING TO REMAIN

WALL TYPES

GRAPHIC SYMBOLS

[Pattern]	WOOD STUD FRAMED WALL (STUDS AT 16" O.C.) REF. STRUCTURAL FOR STUD SIZE.
[Pattern]	EXISTING WALL TO REMAIN (REPAIR WHERE NEEDED)

JOB INFORMATION:

Client: Mr. Michael Mincberg
 Address: 7147 La Lenaire Dr
 City: Longboat Key
 State: FL Zip: 34228
 Subdivision: La Lenaire Isle
 Lot No.: 10 & 11
 Parcel ID: 7761600059

POOL:

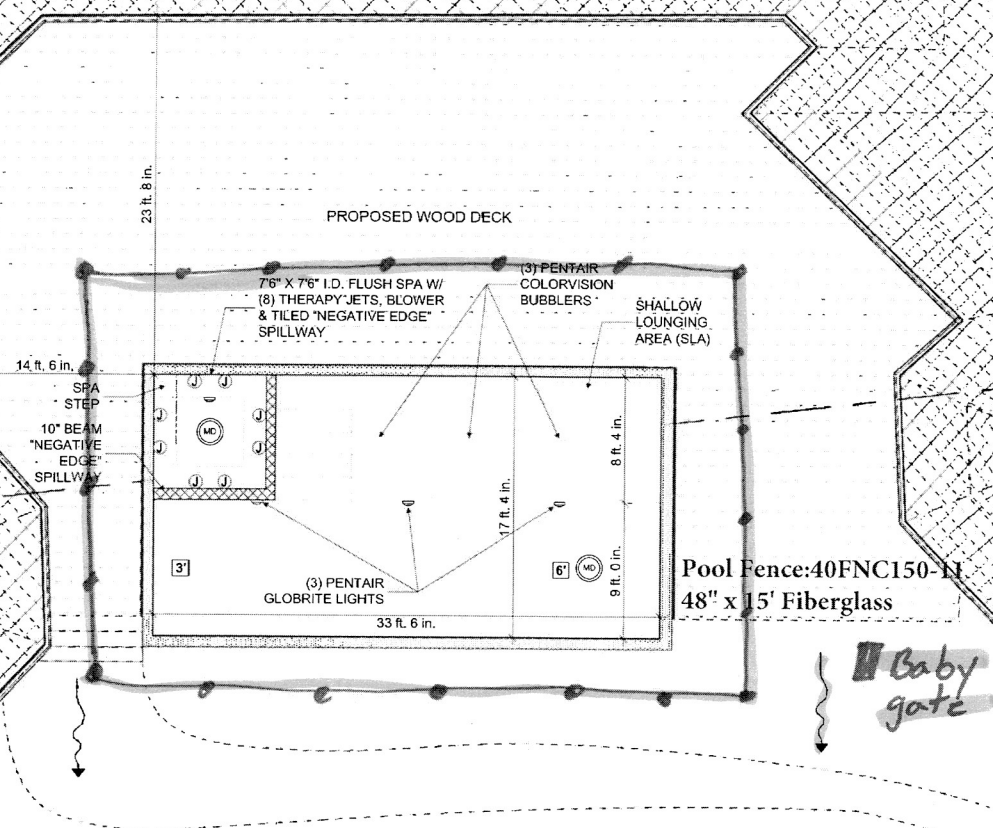
Size: 17'4" X 33'6"
 Area: 514 sq. ft.
 Perimeter: 102 lin. ft.
 Depth: 3' - 6'
 Beam: 8"
 Volume: 11,839 gal.
 Steps / Bench: 34 lin. ft.
 Light(s): (3) - LED
 SLA: 170 sq. ft.

SPA:

Size: 7'6" x 7'6" I.D.
 Area: 57 sq. ft.
 Perimeter: 30 lin. ft.
 Steps / Bench: 21 lin. ft.
 Depth: 3'6"
 Beam: 8"
 Elevation: Flush w/ Deck
 Jets: (8) - Standard
 Fountain: No
 Controls: Mobi & App
 Light: (1) - LED
 Blower: Yes - 1 HP
 Tiled "negative edge" spillway

EXISTING ROOFING TO BE REPLACED
 WITH METAL 5V CRIMP ROOF
 (5,800SF)

BID PERMITS
 FILE
 Copy of Record



PLUMBING:
 PIPE SIZE -
 Suction: 3"
 Return: 2"
 Skimmer: Waterway Regegade
 Main Drains: ColorMatch 360
 Returns: (3) - Pool / (1) - Spa
 Over Flow: Yes
 Auto Fill: 2" Static Line

EQUIPMENT:
 Pump: Pentair IntelliFlo HP: Variable
 Filter: Pentair Clean & Clear RP200
 Sanitizer: Pentair Rainbow 320
 Heater: Pentair MasterTemp 400K LP
 Cleaner: OPTIONAL
 Light(s): Pentair GloBrite
 Automation: Pentair IntelliCenter i5ps
 Controls: Mobi Remote & App
 Blower: Stencer - 1 HP
 Auto Fill: Levelor K1100

MATERIAL SELECTIONS:
 Pool Waterline: TBD
 Spa Waterline: TBD
 Waterline Grout: White
 Brick Coping: TBD
 Brick Grout: Match Coping
 Step & Bench Tile: None
 Pebble Tech: Level One (TBD)
 Fittings: TBD
 Pavers: TBD
 Paver Pattern: TBD
 Deco Drain: n/a
 Cage: n/a

LEGEND:

	NSF-50 LISTED SKIMMER
	UNBLOCKABLE 360° DRAIN
	DUAL DRAIN
	VACUUM PORT (VACUUM LINE)
	WALL INLET (RETURN LINE)
	THERAPY JET
	2" STATIC LINE (FOR AUTO FILL)
	LED LIGHT

POOL PLAN DISCLAIMER:

This plan does not make any changes or alter the Hafflants + Pichette house plans in any way. This plan is for the pool, items pertaining to the pool and the pool contractors scope of work. Any other changes not limited to; tooters, stem walls, decking, planters, walkways, railings, steps, lanais, cabanas, outdoor living spaces and equipment pad size / surround wall, will not be implemented unless a change order is issued by your general contractor and approved by you, the owner.

INTERIOR FINISH/TILE AND DECK DISCLAIMER:

Interior finishes are composed of natural materials which have certain inherent characteristics, a certain amount of shading, or color variation is a natural occurrence and should not be construed as a defect. Interior finishes are hand applied and as a result will appear rippled - pool lighting will intensify this effect. Concrete decks and ceramic/glass tiles are not warranted against cracking, checking, settling, minor water pockets, color variations and or discoloration.

I, _____, have reviewed, understand and agree to the terms & specifications contained herein.

(Print Name)
 Signature: _____ Date: _____

Any changes to this plan after its approval, that results in a re-review fee or requires additional engineering, will be charged to the owner. Owner will be responsible for any and all costs incurred including but not limited to any additional construction costs as a result of the change order. Any changes may delay permitting and/or construction.

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Customer agrees that dimensions are approximate and may vary during construction. Trend Pools LLC reserves the right to add, delete or change, substitute and/or alter specifications, features, dimensions, designs and equipment due to code requirements, job site conditions, and conditions beyond its control. The final construction drawing showing any changes can be requested by owner prior to commencement of construction. All Dimensions 5% tolerances.

SEP 01 2023
 TOWN OF LONGBOAT KEY
 Planning, Zoning & Building

THE MINCBERG RESIDENCE
 7147 LA LENAIRE DR.
 LONGBOAT KEY, FL 34228
 POOL / SPA PLAN

Plans prepared by:
 THE WATERWORKS COMPANY
 DATE: 05.19.2023
 DWG BY: MSR
 REV. DATE:
 CKD BY:

SCALE: 1/8" = 1'

SHEET
 1
 SHEET 1 OF 1