EXCEPTION: ROPE AND FLOATS INSTALLED IF LESS THAN 4'-6" SB2836, 6-20-07 FOR BONDING AND GROUNDING SYSTEMS FOR SWIMMING POOLS, THE USE OF AN UNDERGROUND BONDING CONDUCTIOR MADE OF #8 AWG. BARRE SOLLD COPPER WIRE BURIED TO A MINIMUM DEPTH OF 4 INCHES TO 6 INCHES BELOW SUBGRADE, AND 18 TO 24 INCHES FROM INSIDE WALL OF A SWIMMING POOL OR SPA, IS DEEMED A PERMISSIBLE ALTERNATIVE OR EQUIVALENT TO COMPLIANCE WITH s. 680.26(c) OF THE NATIONAL ELECTRICAL CODE. - OPTIONAL 12V LIGHT W/TRANS ¾" BRASS OR PVC (SEE NOTES) SWIM-OUT OR LADDER REQUIRED (GR/#8 CU) WHERE DEPTH OVER 5' DEEP (SEE NOTES) GENERAL POOL PLAN POOL SECTION DETAIL 2'-9" Min. EXCEPT FOR SLOPING ENTRIES. 4'-0" Max N.T.S. NO LIMITATIONS TO SHAPE EXCEPT FOR DIVING FLOW THRU SPA NO SKIMMER 8' Min. TO SLOPE CHANGE å 0) ENTRY REQUIRED (SEE NOTES) SKIMMER HANDHOLDS REBAR, 2' OUT WITH #8 CU TO PUMP ■ 11.0° Max. OPTIONAL DECK W/ 1 ½" PITCH IN 10'

RAIL OPTIONAL STEPS OPTIONAL CIRCULATION LINE SKIMMER REQUIRED
FOR SPA WITH
INDEPENDENT
FILTRATION SYSTEM > LIGHTING & BONDING SAME AS POOL > NO LIMITATIONS ON SHAPE MAIN DRAIN REQUIRE (TAMPER PROOF/SEE NOTES)

GENERAL SPA PLAN

FLORIDA BUILDING CODE R4501

AS

-MAXIMUM WATER DEPTH 4', MAXIMUM SEAT DEPTH
28", MAX
-FLOOR SLOPE 1:12
-STEPS: MIN. TREAD 10" X 12", 7" MIN. RISER, 12" MAX
RISER EXCEPT THE BOTTOM STEP MAY BE 14" IF IT IS
THE SEAT. INTERMEDIATE TREADS AND RISERS TO
BE UNIFORM. IF THE SPA IS OPERATED
INTERMITIENTLY IT SHALL HAVE A ONE HOUR
TURNOVER, IF CONTINUOUS A SIX HOUR TURNOVER
-MAXIMUM TEMPERATURE 104 DEGREES.
-MEET ANSINSPI ARTICLE XVII, SAFETY
INSTRUCTION/SA/TETY SIGNS.
-PRESSURE TEST PIPING AT 35 PSI FOR 15 MINUTES OR
MEET LOCAL CODE IF GREATER.

VIIN. TREAD 10" X 12", 7" MIN. RISER, 12" MAX. EXCEPT THE BOTTOM STEP MAY BE 14" IF IT IS EAT. INTERMEDIATE TREADS AND RISERS TO IFORM. IF THE SPA IS OPERATED

UM WATER DEPTH 4', MAXIMUM SEAT DEPTH XX

SPECIAL SPA REQUIREMENTS:

PIPES, VALVES, PUMP(S) OFF SWITCH. MUST BE DESIGNED FOR A MINIMUM 25 gpm. THE FOLLOWING SHALL BE LABELED WITH LABEL MARKER TAPE AT THE FILTER LOCATION:

-WIRING AND BONDING AND ALL ELECTRICAL TO COMPLY WITH CHAPTER 42, FLORIDA BUILDING CODE 6TH EDITION-RESIDENTIAL AND NEC 2014.

-NO OUTLET OR OVERHEAD POWER WITHIN 10' IF WITHIN 15' PROTECT BY GFI, TRANSFORMER MIN. 10' FROM POOL, S' ABOVE WATER, J BOX 4' FROM POOL, BRASS TO J BOX OR TRANSFORMER WHICH EVER IS FIRST EXCEPT WHERE PVC IS APPROVED.

SAMPLE ONLY. EACH APPLICATION FOR PERMIT SHALL BE BASED ON A TOTAL DYNAMIC HEAD OF 60 ft.

Minimum Flow Rate Required: 35gpm per skimmer (Required: 1 Skimmer per 800 sf) Determine System Flow Rate:

gallons

sq. ft x 4

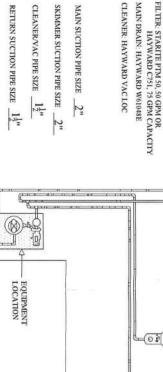
Turnover Time in Hours: 6
Flow Rate: 15,000 gallons / 4 ave depth x 7.481 gal/cf = 15,000 hours x 60 min/hr = 360 minutes 360 minutes = 42 gpm

PIPE SIZING CHART (MAXIMUN)

FOOTING OPTIONAL

PAVERS OR 4" DECK 3,000 psi (Min.) CONC W/ #3 BAR, 30" O.C.

PER CONTRACT (NON-SLIP)



Compliance

COPY

SAMUEL A. LIBERATORE P.E. #55740

MAY 20, 2020

POOL/SPA, DECK, BEAM, WALL, FLOOR

6" Min. WALL & FLOOR THICKNESS. 3,000 psi (MIN.) CONC. #3 BARS ON 12" CENTERS EITHER WAY, TIE ALT. INTERSECTIONS 15" MIN. OVERLAP. 2" MIN. COVERAGE ON STEEL W/CONC. TO ASTM A15. A16. ASTM A30-5

OR (1) #5 BAR

FINISH 3/8"
MARCITE OR
EXPOSED
AGGREGATE

8" X 8" FOOTING W/(2) #3 BARS

BEAM & "7" BAR OPTIONAL

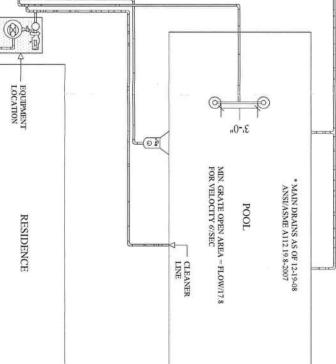
POOL FINISH PER CONTRACT

TURNOVER RATE = 6 HOURS = 360 MINS.

PUMP: STARITE P6E6DL OR HAYWARD SUPERII ½ HP 42 GPM 60' TURN

OR POOLS WITH VOLUME = 15,000 GALS.

Structural subject to suitable soil conditions.



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 A SHALL MEET ALL APPLICABLE CODES INCLUDING PLUMBING, ELECTRICAL AND GAS. PIPING SHALL BE SCH. 40 PVC, NSFpw, MAX. PRESSURE VELOCITY 10 FPS, SUCTION 6 FPS. THE POOL PLAN SHALL SHOW THE DESIGN PLUMBING AS PER THE SAMPLE WITH THE INFORMATION REQUIRED SHOWN. MAIN DRAIN PLUMBING AS PER THE SAMPLE WITH THE INFORMATION REQUIRED SHOWN. MAIN DRAIN PLUMBING SHALL BE TWO DRAINS SEPARATED BY 3° WITH APPROVED ANSI/ASME A112.19 8.2009 COVERS. AS AN ALTERNATE THE APPROVED DRAINS MAY BE PLACED ON DIFFERENT PLANES. THE TWO DRAINS SHALL HAVE A COMMON SUCTION LINE. SUCTION GRAITES MAY BE USED IF APPROVED A ANAXIMUM GRAITES MAY BE USED IF APPROVED AN AMAXIMUM OF 1 ½ FPS AND THE SUCTION PIPING IS RECESSED FROM THE GRATE THE DISTANCE EQUAL TO THE SUCTION PIPE SIZE. SKIMMERS DO NOT REQUIRE PROTECTION AND

ELECTRICAL REQUIREMENTS:

PROVIDED

LATION REQUIREMENTS. LS WHETHER PUBLIC OR PRIVATE SHALL BE D WITH A LADDER OR STEPS IN THE SHALLOW

END WHERE THE WATER DEPTH EXCEEDS 24 INCHES (610 MA), IN PRIVATE POOLS WHERE WATER DEPTH EXCEEDS 5 FEET (1524 MM) THERE SHALL BE LADDERS, STARS OR UNDERWATER BEXCHES/SWIM-OUTS IN THE DEEP END. WHERE MANUFACTURED DIVING EQUIPMENT IS TO BE

NCHES OR SWIM-OUTS SHALL BE RECESSED OR

-CIRCULATION SYSTEMS, COMPONENTS AND EQUIPMENT SHALL COMPLY WITH NSF 50. THE MAXIMUM TURNOVER RATE IS 12 HOURS FILTERS SHALL HAVE AN AIR RELEASE ANDPUMPS 3 HP AND LESS SHALL MEET ANSI/UL1081

CORROSION RESISTANT WITH STRAINER AND MEET THE REQUIRED FLOW. -SURFACE SKIMMERS SHALL MEET NSF 50 AND THERE SHALL BE ONE FOR EVERY 800 SQUARE FEET

E SKIMMERS SHALL MEET NSF 50 AND SHALL BE ONE FOR EVERY 800 SQUARE FEET

PROVIDED ON THE BASIS OF AT ILAST ONE PER 300
SQUARE FEET (28 m2) OF SURFACE AREA. SUCH INLET
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. WHEN MORE THAN ONE INLET IS
REQUIRED, THE SHORTEST DISTANCE BETWEEN ANY TWO
REQUIRED INLETS SHALL BE AT LEAST 10 FEET (3048 MM).
-HEATER SHALL MEET ANSI-Z21.56 OR UL 1261 OR
UL 559
-DISINFECTANT EQUIPMENT SHALL COMPLY WITH
NSF 50.
-PRESSURE TEST PIPING AT 35 PSI FOR 15 MINUTES OR
MEET LOCAL CODE IF GREATER. OF RECIRCULATED POOL WATER SHALL BE DON THE BASIS OF AT LEAST ONE PER 300 ED MANUFACUTRED INLET FITTINGS FOR THE

-WASTE DISPOSAL TO COMPLY WITH SECTION 454.2.10 TIAL SWIMMING BARRIER REQUIREMENTS TO

IT HAS BEEN CERTIFIED THAT THESE DESIGN
REQUIREMENTS ARE IN COMPLIANCE WITH THE
FLORIDA BUILDING CODE R4501, 6TH EDITON 454.2-2017,
ANSI/APSP/ICC 3,
ANSI/APSP/ICC 4, ANSI/APSP/ICC 5, AND ANSI/APSP/ICC 15. VICC 4, ANSI/APSP/ICC 5, AND ANSI/APSP/ICC 6 AND VICC 3-XSSAPSP/ICC 14, ANSI/APSP/ICC 15.

Received

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-DESIGN, CONSTRUCTION AND WORKMANSHIP SHALL BE IN CONFORMITY WITH THE REQUIREMENTS OF APSP/ICC 3, APSP/ICC 4, APSP/ICC 5, AND APSP/ICC 6 AND APSP/ICC 7 BASED ON THE POOL TYPE.

-SEE NSPI FOR DIVING WATER ENVELOPES.
-SLIDES SHALL MEET THE MANUFACTURE'S INSTALLATION REQUIREMENTS.

GENERAL DESIGN REQUIREMENTS

(727)-442-8443

HYDRO FUN POOLS

Standard Residential Pool and/or Spa Design

AQUATIC ENGINEERING CONSULTANTS 300 ALTERNATE 19 NORTH, SUITE A PALM HARBOR, FLORIDA 34683 gb_collins@verizon.net