

EXCEPTION: ROPE AND FLOATS INSTALLED IF LESS THAN 4'-6" POOL SECTION DETAIL 8' Min. TO SLOPE CHANGE ■ 11.0° Max

Pool Volume: 500 sq. ft x 4 ave depth x 7.481 gal/cf = 15,000

Turnover Time in Hours: 6 hours x 60 min/hr = 360 minutes

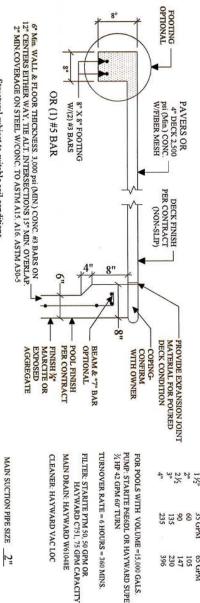
Flow Rate: 15,000 gallons / 360 minutes = 42 gpm

gallons

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

SAMPLE ONLY. EACH APPLICATION FOR PERMIT SHALL BE BASED ON A TOTAL DYNAMIC HEAD OF 60 $\hat{\pi}$.

WITH s. 680.26(c) OF THE NATIONAL ELECTRICAL CODE.



POOL/SPA, DECK, BEAM, WALL, FLOOR

RETURN SUCTION PIPE SIZE 12" CLEANER/VAC PIPE SIZE 12" SKIMMER SUCTION PIPE SIZE 2"

Structural subject to suitable soil conditions.

SB836, 6-20-07
FOR BONDING AND GROUNDING SYSTEMS FOR SWIMMING POOLS, THE USE OF FOR BONDING AND GROUNDING CONDUCTOR MADE OF #8 AWG. BARE SOLID AN UNDERGROUND BONDING CONDUCTOR MADE OF #8 AWG. BARE SOLID 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 SPA, IS DEEMED A PERMISSIBLE ALTERNATIVE OR EQUIVALENT TO COMPLIANCE

PIPE

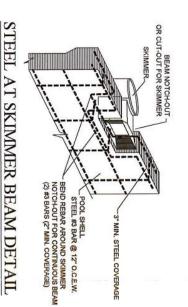
SUCTION

PRESSURE

35 GPM 60 90 135 235

65 GPM 105 147 230 396

PIPE SIZING CHART (MAXIMUN)



SKIMMER REQUIRED FOR SPA WITH INDEPENDENT FILTRATION SYSTEM > LIGHTING & BONDING SAME AS POOL MAIN DRAIN REQUIRE (TAMPER PROOF/SEE NOTES) SUCTION PIPE SIZE. SKIMMERS DO NOT REQUIRE

STEPS OPTIONAL

CIRCULATION-LINE

RAIL OPTIONAL

PLUMBING SHALL BE TWO DRAINS SEPARATED BY 3'
WITH APPROVED ANSI/ASME A112.19 & 2009 COVERS. AS
AN ALTERNATE THE APPROVED DRAINS MAY BE
PLACED ON DIFFERENT PLANES. THE TWO DRAINS
SHALL HAVE A COMMON SUCTION LINE. SUCTION
GRATES MAY BE USED IF APPROVED AT A MAXIMUM
OF 1 ½ FPS AND THE SUCTION PIPING IS RECESSED
FROM THE GRATE THE DISTANCE EQUIAL TO THE CONSTRUCTION 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 INFORMATION REQUIRED SHOWN. THE POOL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL DETAIL DESIGN REQUIREMENTS FOR EACH INDIVIDUAL POOL IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, AND ALL

-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 INTERMITTENTLY IT SHALL HAVE A ONE HOUR TURNOVER, IF CONTINUOUS A SIX HOUR TURNOVER.
-MAXIMUM TEMPERATURE 104 DEGREES.
-MEET ANSINSPI ARTICLE XVII, SAFETY
INSTRUCTION/SAFETY SIGNS.
-PRESSURE TEST PIPING AT 35 PSI FOR 15 MINUTES OR MEET LOCAL CODE IF GREATER.

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ITTENTLY IT SHALL HAVE A ONE HOUR 'ER, IF CONTINUOUS A SIX HOUR TURNOVER. A TEMPERATURE 104 DEGREES.

FLORIDA BUILDING CODE R4501

SPECIAL SPA REQUIREMENTS:

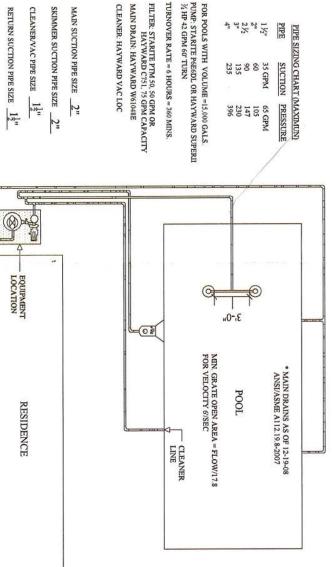
PROTECTION AND
MUST BE DESIGNED FOR A MINIMUM 25 gpm.
THE FOLLOWING SHALL BE LABELED WITH
LABEL MARKER TAPE AT THE FILTER LOCATION:
PIPES, VALVES, PUNP(S) OFF SWITCH.

GENERAL SPA PLAN

> NO LIMITATIONS ON SHAPE

-WIRING AND BONDING AND ALL ELECTRICAL TO COMPLY WITH CHAPTER 27, 2023 FLORIDA BUILDING CODE 8TH EDITION-RESIDENTIAL AND NEC 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 POOL, BRASS TO J BOX OR TRANSFORMER WHICH EVER IS FIRST EXCEPT WHERE PVC IS APPROVED.

ELECTRICAL REQUIREMENTS:



GENERAL DESIGN REQUIREMENTS

-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

OR DIVING WATER ENVELOPES.

ALL MEET THE MANUFACTURE'S

INSTALLATION REQUIREMENTS.

ALL POOLS WHETHER PUBLIC OR PRIVATE SHALL BE PROVIDED WITH A LADDER OR STEPS IN THE SHALLOW END WHERE THE WATER DEPTH EXCEEDS 24 INCHES (610 MM). IN PRIVATE POOLS WHERE WATER DEPTH EXCEEDS 5 FEET (1524 MM) THERE SHALL BE LADDERS, STAIRS OR UNDERWATER BENCHES/SWIM-OUTS IN THE DEEP END.

WHERE MANUFACTURED DIVING EQUIPMENT IS TO BE USED, BENC LOCATED IN -CIRCULATI HES OR SWIM-OUTS SHALL BE RECESSED OR

-PUMPS 3 HP AND LESS SHALL MEET ANSI/UL1081 CORROSION RESISTANT WITH STRAINER AND MEET THE REQUIRED FLOW. -SURFACE SKIMMERS SHALL MEET NSF 50 AND ION SYSTEMS, COMPONENTS AND INT SHALL COMPLY WITH NSF 50. MUM TURNOVER RATE IS 12 HOURS. HALL HAVE AN AIR RELEASE AND KIMMERS SHALL MEET NSF 50 AND IALL BE ONE FOR EVERY 800 SQUARE FEET

THERE SHALL BE ONE FOR EVERY 800 SQUARE FEET
OF SURFACE AREA.

-APPROVED MANUFACUTRED INLET FITTNGS FOR THE
RETURN OF RECIRCULATED POOL WATER SHALL BE
PROVIDED ON THE BASIS OF AT LEAST 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, THE SHORTEST DISTANCE BETWEEN ANY TWO
REQUIRED INLETS SHALL BE AT LEAST 10 FEET (3048 MM).
-HEATER SHALL MEET ANSI-221.56 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.
-RESIDENTIAL SWIMMING BARRIER REQUIREMENTS TO
MEET SECTONS 450.17

WASTE DISPOSAL TO COMPLY WITH SECTION 454.2.10

IT HAS BEEN CERTIFIED THAT THESE DESIGN
REQUIREMENTS ARE IN COMPLIANCE WITH THE
2023 FLORIDA BUILDING CODE 8TH EDITION, R4501,
ANSI/APSP/ICC 3, ANSI/APSP/ICC 4, ANSI/APSP/ICC 5, AND
ANSI/APSP/ICC 6 AND ANSI/APSP/ICC 7, ANSI/APSP/ICC 14,
ANSI/APSP/ICC 15. R403.10 (MANDATORY)
POOLS & PERMANENT SPA ENERGY CONSUMPTION
- THE ENERGY CONSUMPTION OF POOLS AND PERMANENT
SPAS SHALL BE IN ACCORDANCE WITH SECTIONS R403.10.1
THROUGH R403.10.5.

COMPLIES WITH 2023 FLORIDA BUILDING CODE, 8TH EDITION

AQUASCAPE POOLS

G.B. COLLINS ENGINEERING P.A. CERTIFICATE OF AUTHORIZATION 27934

> AQUATIC ENGINEERING CONSULTANTS 32707 US HIGHWAY 19 NORTH PALM HARBOR, FLORIDA 34684 GB_COLLINS@VERIZON.NET (727)-442-8443

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AND/OR SPA DESIGN

STANDARD RESIDENTIAL POOL