

FLORIDA BUILDING CODE R4591

SPECIAL SPA REQUIREMENTS:

- MAXIMUM WATER DEPTH 4'; MAXIMUM SEAT DEPTH 28" MAX.
- FLOOR SLOPE 1:12
- STEPS: MIN. TREAD 10" X 12"; MIN. RISSER 12" MAX.
- SEAT: MIN. TREAD 10" X 12"; MIN. RISSER 12" MAX.
- 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 ANSI/SPRIFC 7, ANSI/SPRIFC 14, ANSI/SPRIFC 15.
- MEET LOCAL CODE IF GREATER.

GENERAL DESIGN REQUIREMENTS

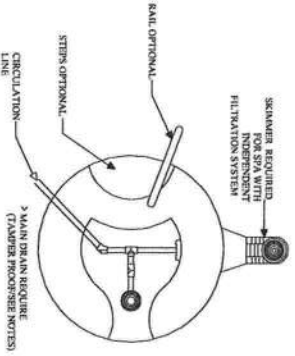
- DESIGN, CONSTRUCTION AND WORKMANSHIP REQUIREMENTS OF ASR/SPIC 3, ASR/SPIC 4, ASR/SPIC 5, AND ASR/SPIC 6 AND ASR/SPIC 7 BASED ON THE POOL TYPE.
- SEE NSR FOR DIVING WATER ENVELOPES.
- SLIDES SHALL MEET THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
- LADDERS FOR PRIVATE SPAS SHALL BE PROVIDED WITH A 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 SWING-OUTS IN THE DEEP END.
- WHERE MANUFACTURED DIVING EQUIPMENT IS TO BE USED, BENCHES OR SWING-OUTS SHALL BE RECESSED OR RECESSED INTO THE POOL DECK.
- CIRCULATION SYSTEMS, COMPONENTS AND EQUIPMENT SHALL COMPLY WITH NSR 50.
- THE MAXIMUM TURNOVER RATE IS 12 HOURS.
- FILTERS SHALL HAVE AN AIR RELEASE AND PRESSURE GAGE.
- PUMPS 1 HP AND LESS SHALL MEET ANSI/UL081.
- PUMPS GREATER THAN 1 HP SHALL MEET THE REQUIRED HOUSING WITH STAINLESS AND MEET SLURRY ACE SKIMMERS SHALL MEET NSR 50 AND THERE SHALL BE ONE FOR EVERY 800 SQUARE FEET OF SURFACE AREA.
- APPROVED MANUFACTURED INLET FITTINGS FOR THE RETURN OF RECIRCULATED POOL WATER SHALL BE PROVIDED ON THE BASIS OF AT LEAST ONE PER 300 SQUARE FEET OF SURFACE AREA.
- 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 INLETS SHALL BE 12 INCHES (305 MM) OR GREATER. HEATER SHALL MEET ANSI-Z21.56 OR UL 1201 OR UL 555.
- DISINFECTANT EQUIPMENT SHALL COMPLY WITH NSR 50.
- PRESSURE TEST PIPING AT 35 PSI FOR 15 MINUTES OR MEET LOCAL CODE IF GREATER.
- MEET LOCAL CODE IF GREATER.
- MEET SECTION 450.17.
- WASTE DISPOSAL TO COMPLY WITH SECTION 454.2.10.

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.

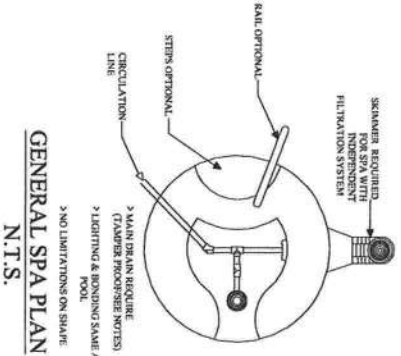
IT HAS BEEN CERTIFIED THAT THESE DESIGN REQUIREMENTS ARE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 7TH EDITION, R4591, ANSI/SPRIFC 3, ANSI/SPRIFC 4, ANSI/SPRIFC 5, AND ANSI/SPRIFC 6 AND ANSI/SPRIFC 7, ANSI/SPRIFC 14, ANSI/SPRIFC 15.

COMPLIES WITH FLORIDA BUILDING CODE 7TH EDITION (2002)

GENERAL SPA PLAN N.T.S.



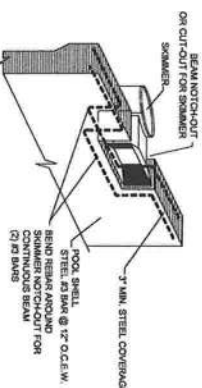
GENERAL POOL PLAN N.T.S.



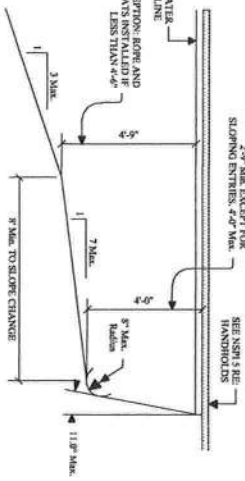
ELECTRICAL REQUIREMENTS:

- WIRING AND BONDING AND ALL IS ELECTRICAL TO COMPLY WITH CHAPTER 27 FLORIDA BUILDING CODE 7TH EDITION-RESIDENTIAL AND NEC 2017.
- NO OUTLET OR OVERHEAD POWER WITHIN 10' IF WITHIN 12' PROTECT BY GEL TRANSFORMER MIN. 10' FROM POOL, 8" ABOVE WATER, 1 BOX 4" FROM POOL, BEARS TO BOX OR TRANSFORMER WHICH EVER IS FIRST EXCEPT WHERE PVC IS APPROVED.

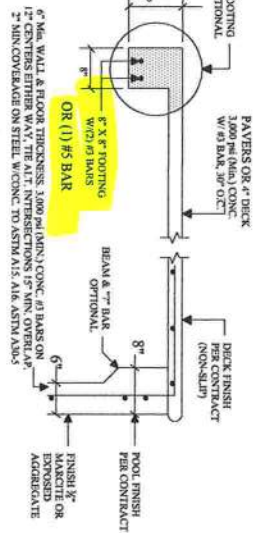
STEEL AT SKIMMER BEAM DETAIL N.T.S.



POOL SECTION DETAIL N.T.S.



SRR36, 6-20-07
FOR BONDING AND GROUNDING SYSTEMS FOR SWIMMING POOLS, THE USE OF 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 WITH 1, 680.23(6) OF THE NATIONAL ELECTRICAL CODE.



POOL/SPA, DECK, BEAM, WALL, FLOOR N.T.S.

Structural subject to suitable soil conditions.



LAUREN L. GANSKOP
736 SW ARBOR LANE
LAKE CITY, FL 32024

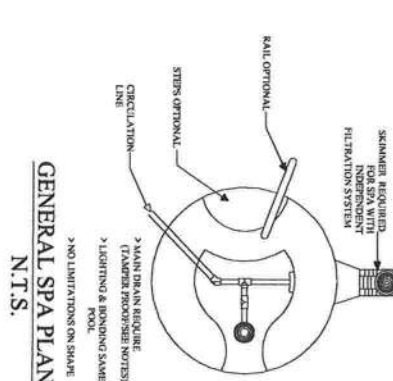
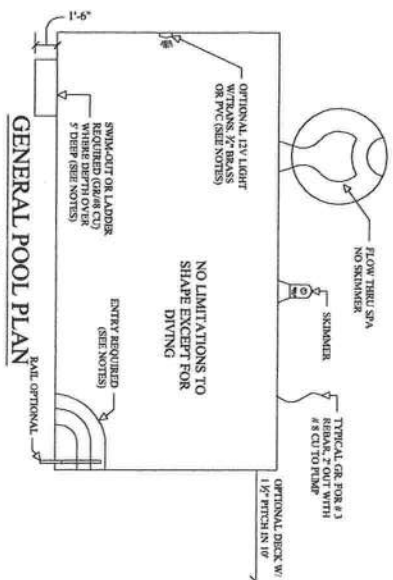
Standard Residential Pool
and/or Spa Design

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

AQUATIC ENGINEERING CONSULTANTS
300 ALTERNATE 19 NORTH, SUITE A
PALM HARBOR, FLORIDA 34683
gb_collins@verizon.net
(727)-442-8443



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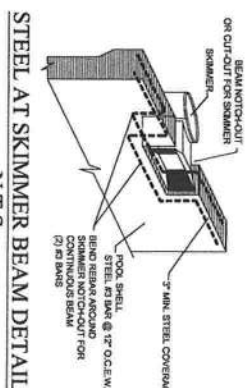


FLORIDA BUILDING CODE R4501

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 MECHANICAL. THE POOL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE POOL. THE POOL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE POOL. THE POOL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE POOL.

ELECTRICAL REQUIREMENTS:

WIRING AND BONDING AND ALL ELECTRICAL TO COMPLY WITH CHAPTER 22, FLORIDA BUILDING CODE 7TH EDITION, RESIDENTIAL AND NEC 2017. NO OUTLET OR OVERHEAD POWER WITHIN 10' IF WITHIN 15' PROTECT BY GFI, TRANSFORMER, MIN. 10' FROM POOL, 6" ABOVE WATER, 1 BOX 4" FROM POOL, BRASS TO BOX OR TRANSFORMER WHICH EVER IS FIRST EXCEPT WHERE PVC IS APPROVED.



N.T.S.

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

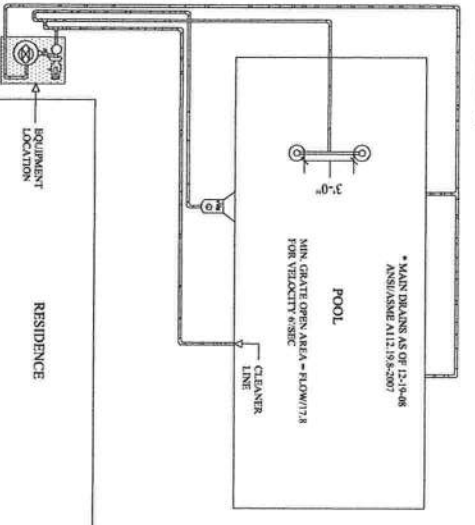
Determine System Flow Rate:
Minimum Flow Rate Required: 35gpm per skimmer (Required: 1 Skimmer per 800 sq ft)
Pool Volume: 500 sq ft x 4' ave depth x 7.481 gal/ft³ = 15,000 gallons
Turnover Time in Hours: 6 hours x 60 min/hr = 360 minutes
Flow Rate: 15,000 gallons / 360 minutes = 42 gpm

PIPE SIZE (CHART MAXIMUM)	SECTION	PRESSURE
1 1/2"	35 GPM	65 GPM
2"	60	105
2 1/2"	105	145
3"	135	210
4"	225	396

FOR POOLS WITH VOLUME < 15,000 GALS. PUMP STARTS PUMP ON 30 GPM ON MAIN DRAIN. PUMP ON 30 GPM ON MAIN DRAIN. PUMP ON 30 GPM ON MAIN DRAIN.

FILTER: STARTS PUMP ON 30 GPM ON MAIN DRAIN. PUMP ON 30 GPM ON MAIN DRAIN. PUMP ON 30 GPM ON MAIN DRAIN.

MAIN SUCTON PIPE SIZE: 2"
SKIMMER SUCTON PIPE SIZE: 2"
CLEANER/VAC PIPE SIZE: 1 1/2"
RETURN SUCTON PIPE SIZE: 1 1/2"



SPECIAL SPA REQUIREMENTS:

-MAXIMUM WATER DEPTH 4'; MAXIMUM SEAT DEPTH 20" MAX.
-FLOOR SLOPE 1:12
-STEPS: MAX. RISE 10" X 12" 7" MIN. RISE, 12" MAX. RISE. MAX. RISE 10" X 12" 7" MIN. RISE, 12" MAX. RISE. MAX. RISE 10" X 12" 7" MIN. RISE, 12" MAX. RISE.

GENERAL DESIGN REQUIREMENTS

-DESIGN, CONSTRUCTION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 7TH EDITION, RESIDENTIAL AND NEC 2017. AND ASP/ICC 6 AND ASP/ICC 7 BASED ON THE POOL TYPE.
-SEE NSF FOR DIVING WATER ENVELOPES, SLIDES SHALL MEET THE MANUFACTURERS INSTALLATION REQUIREMENTS.
-ALL POOLS SHALL BE PROTECTED BY A PERMANENTLY LOCATED AND MAINTAINED 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 SWING-OUTS IN THE DEEP END. WHERE WATERSIDE BENCHES SWING-OUTS IN THE DEEP END, UNDERWATER BENCHES SWING-OUTS SHALL BE RECESSED OR USED. BENCHES OR SWING-OUTS SHALL BE RECESSED OR USED. BENCHES OR SWING-OUTS SHALL BE RECESSED OR USED.

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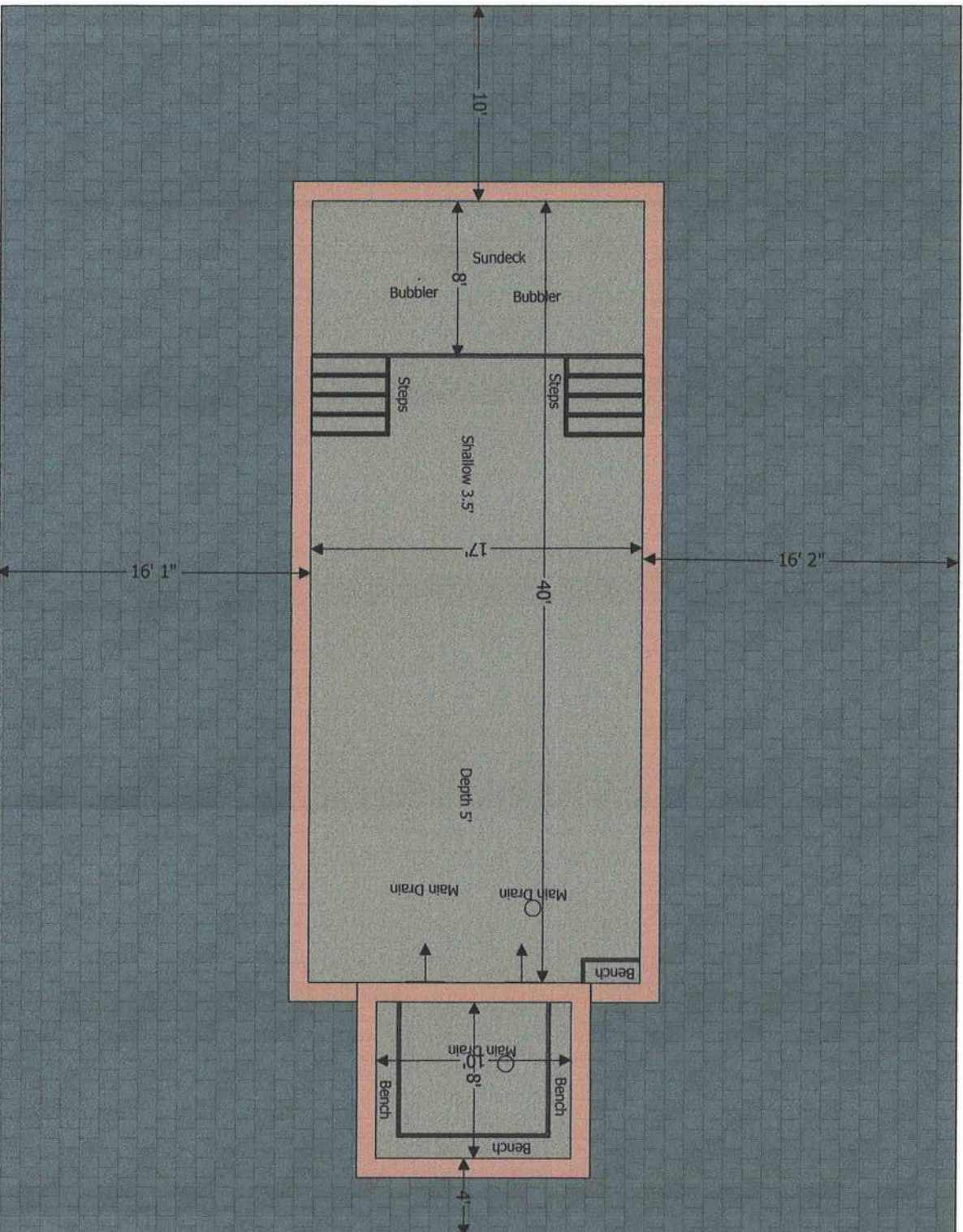
Samuel A
Liberatore
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Samuel A. Liberatore
October 8, 2021

Owner:
Lauren L Ganskop
736 SW Arbor Lane
Lake City, FL 32024

Company:
North Florida Pools and Spas LLC
709 Duval ST NW
Live Oak, Florida 32064
CPC 1459321



Scale: 1/8" = 1 ft