DESIGN DIMENSIONS SHALL COMPLY WITH SPECIFICATION IN ANSI/NSPI 5, ANSI/NSPI 6, AND ANSI/APSP 7, ANSI/APSP/ICC 14, ANSI/APSP/ICC15. RESIDENTIAL INGROUND SWIMMING POOLS BASED ON THE POOL TYPE AND NSPI 3

PERMANENTLY INSTALLED RESIDENTIAL SPA. SEE ANSI/NSPI 5 ANSI/NSPI 6. AND ANSI/APSP 7FOR DIVING

WATER ENVELOPES REQUIREMENTS. SLIDES SHALL MEET THE MANUFACTURER'S INSTALLATION REQUIREMENTS.

ENTRY/EXIT: SHALL COMPLY WITH ANSI/NSPI 5 AND NSPI 3. LADDERS, UNDERWATER SEATS, AND SWIMMOUTS

(MAX.20" BELOW WATER) CIRCULATION SYSTEM, COMPONENTS AND EQUIPMENT

SHALL COMPLY WITH NSF 50. THE MAXIMUM TURNOVER RATE IS 12 HOURS.

FILTERS SHALL HAVE AN AIR RELIEF AND PRESSURE GAGE. 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 THERE SHALL BE ONE FOR EVERY 800 SF OF SURFACE AREA. RETURN INLETS SHALL BE A MINIMUM OF ONE FOR EVERY

600 SF. HEATERS SHALL MEET ANSI-Z21.56 OR UL1261 OR UL559 DISINFECTANT EQUIPMENT SHALL COMPLY WITH NSF 50. PRESSURE TEST PIPING AT 35 PSI FOR 15 MINUTES OR MEET LOCAL CODE IF GREATER.

DOUBLE DRAINS

TAMPER PROOF

REQUIRED

(SEE NOTES)

VENT

	PIPE SIZI	NG CHART (N	MAXIMUN)	
	<u>PIPE</u>	SUCTION	PRESSURE	MAIN SUCTION PIPE SIZE
	1 ½" 2"	35 GPM 60	65 GPM 105	SKIMMER SUCTION PIPE SI
	2 ½ 3" 4"	90 135 235	147 230 396	CLEANER/VAC PIPE SIZE
R P F	VARIABLE OR DUAL SPEED PUMPS ARE REQUIRED IF THE PUMP EXCEEDS 1 HP. PLUMBING WILL BE DESIGN FOR THE MAX. FLOW OF THE PUMP. REFER TO TDH CALCULATIONS FOR VARIABLE OR DUAL SPEED DESIGNS.			RETURN PIPE SIZE

SPA

 $1-\frac{1}{2}$ " 30 GPM

EQUIPMENT LOCATION

PUMP

ADDITIONAL NOTES

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

2. TYPICAL PROPERTIES OF A REINFORCES FIBERGLASS POOL

PICAL PROPERTIES OF A REINFORCES FIBER	OLASS I
GEL COAT/ISO-NPG MIL APPLICATION	25
GLASS CONTENT BY WEIGHT	35%
TENSILE STRENGTH, PSI	16733
TENSILE ELONGATION	1-2%
FLEXURAL STRENGTH, PSI	43123
FLEXURAL MODULUS, PSI (X10 ^ 6)	1.37
COMPRESSIVE STRENGTH, PSI	25300
TYPICAL THICKNESS, INCHES	$\frac{1}{4}$
OL CUELL CHALL DE AD COLLDIDATED CO	TE EDE



3. POOL SHELL SHALL BEAR ON UNDISTURBED SOIL, FREE OF PEAT, MUCK, OR OTHER DELETERIOUS MATERIAL OF ANY SIGNIFICANT AMOUNT.

4. BACKFILL MATERIAL MUST NOT CONTAIN ROCKS OR OTHER MATERIALS THAT COULD DAMAGE POOL WALLS.

INLETS LOW ON THE WALL. 5. POOL TURNOVER SHALL BE 12 HOURS MAXIMUM WITH HI-RATE RAPID SAND FILTER (MIN. 18" DIAMETER OR 1.75 S.F.) AND PROPERLY GROUNDED. APPROVED PUMP (MIN. $\frac{3}{4}$ HP W/29 GPM @ 60 TDH) HAYWARD OR EQUAL

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

7. HANDRAILS REQUIRED ON SOME POOLS.

8. INSTALL LOW VOLTAGE LIGHT AS PER NEC 680.

9. DIVING PLATFORMS OR DIVING BOARDS ARE NOT TO BE INSTALLED ON THESE POOLS EXCEPT FOR "THE BIG BLUE KEY" POOL PLAN. THIS POOL MEETS THE ANSI/NSPI-5, 2003. DIVING POOL REQUIREMENTS FOR TYPE 1 & TYPE 2 POOLS.

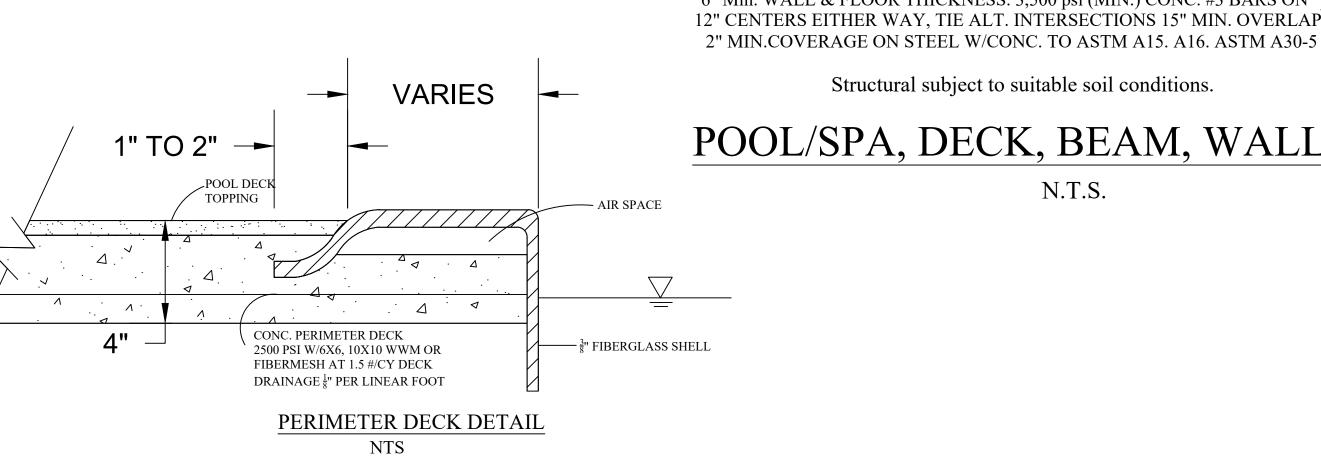
10. DURING A HURRICANE WARNING OR ALERT, THIS POOL SHALL BE FILLED WITH WATER 11. THESE POOL PLANS MEET OR EXCEED THE ANSI/NSPI 5 2003 RESIDENTIAL INGROUND SWIMMING POOL AND ANSI/NSPI 3 1999 PERMANENTLY INSTALLED RESIDENTIAL SPA STANDARDS.

THE FOLLOWING CODES ARE TO BE MET WHERE REQUIRED:

FLORIDA BUILDING CODE, SEVENTH EDITION - BUILDING 2020 FLORIDA BUILDING CODE, SEVENTH EDITION - MECHANICAL 2020 FLORIDA BUILDING CODE, SEVENTH EDITION - PLUMBING 2020 FLORIDA BUILDING CODE, SEVENTH EDITION - FUEL 2020 2017 NATIONAL ELECTRICAL CODE

98-76 BUILDING CONSTRUCTION ADMINISTRATIVE CODE W/2006 REVISIONS ALL APPLICABLE CITY/COUNTY CODES AND ORDINANCES.

LATTICRETE **EQUIVALENT** 6.25" * MAIN DRAINS AS OF 12-19-08 MIN. GRATE OPEN AREA = FLOW/17.8 ANSI/ASME A112.19.8-2007 FOR VELOCITY 6'/SEC CONC. PERIMETER DECK TILE (OPTIONAL) 2500 PSI W/6X6, 10X10 WWM OR FIBERMESH AT 1.5 #/CY POOL OPTIONAL BRICK/PRECAST DETAIL NTS FIBERGLASS SPA MAY BE PERMITTED SEPARATELY



Determine System Flow Rate:

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

Pool Volume: $\underline{500}$ sq. ft x $\underline{4}$ ave depth x 7.481 gal/cf = 15,000Turnover Time in Hours: $\frac{1}{6}$ hours x 60 min/hr = $\frac{3}{60}$ minutes Flow Rate: 15,000 gallons/ 360 minutes = 42 gpm

FLORIDA BUILDING CODE R4101

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. 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. SKIMMERS DO NOT REQUIRE 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, PUMP(S) OFF SWITCH.

NO MAIN DRAIN POOLS MUST HAVE 2 SKIMMERS AND

FOR BONDING AND GROUNDING SYSTEMS FOR

FROM INSIDE WALL OF A SWIMMING POOL OR SPA, IS

TO COMPLIANCE WITH s. 680.26(c) OF THE NATIONAL

ELECTRICAL CODE

DEEMED A PERMISSIBLE ALTERNATIVE OR EQUIVALENT

BRICK/PRE

SPECIAL SPA REQUIREMENTS:

-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 ANSI/NSPI ARTICLE XVII, SAFETY INSTRUCTION/SAFETY SIGNS. -PRESSURE TEST PIPING AT 35 PSI FOR 15 MINUTES OR

ELECTRICAL REQUIREMENTS:

MEET LOCAL CODE IF GREATER.

-WIRING AND BONDING AND ALL ELECTRICAL TO COMPLY WITH CHAPTER 42, FLORIDA BUILDING CODE, SEVENTH EDITION, FBC 2020 AND NEC 2017 -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

3.5" POOL DECK 6.25" CONC. PERIMETER DECK TILE (OPTIONAL) 2500 PSI W/6X6, 10X10 WWM OR FIBERMESH AT 1.5 #/CY

OPTIONAL CANTILEVER DECK OR PATIO DETAIL PAVERS OR 4" DECK 2,500 FOOTING —— **DECK FINISH** psi (Min.) CONC **OPTIONAL** PER CONTRACT W/FIBER MESH (NON-SLIP) **POOL FINISH** PER CONTRACT BEAM & "7" BAR 8" X 8" FOOTING **OPTIONAL** W/(2) #3 BARS FINISH 3/8" OR (1) #5 BAR MARCITE OR **EXPOSED** 6" Min. WALL & FLOOR THICKNESS. 3,500 psi (MIN.) CONC. #3 BARS ON **AGGREGATE** 12" CENTERS EITHER WAY, TIE ALT. INTERSECTIONS 15" MIN. OVERLAP.

Structural subject to suitable soil conditions.

POOL/SPA, DECK, BEAM, WALL, FLOOR

N.T.S.

Residenti Standard

JEANENNE

electronically signed Liberatore PE using a Digital Signature and

2023.07.07

10:02:25 -0400'

considered signed and signature must be verified on any Samuel A Liberatore

NTS

GENERAL POOL PLAN

 $1-\frac{1}{2}$ " 30 GPM POOL CLEANER

CLEANER —

RESIDENCE

LINE

COMPLIES WITH FLORIDA BUILDING CODE, 7TH EDITION (2020)