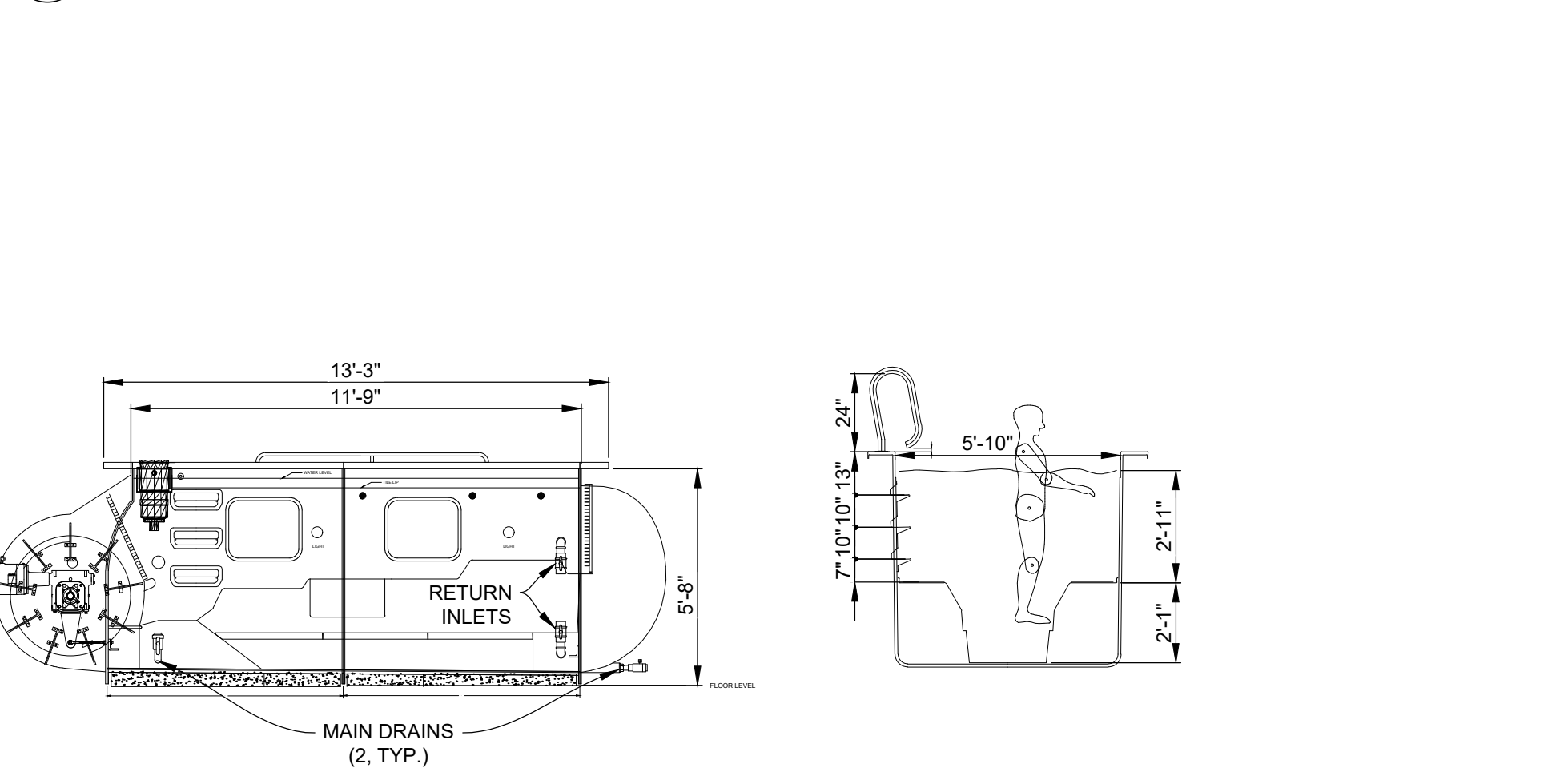


**8 EQUIPMENT SCHEMATIC**  
SCALE: N.T.S.



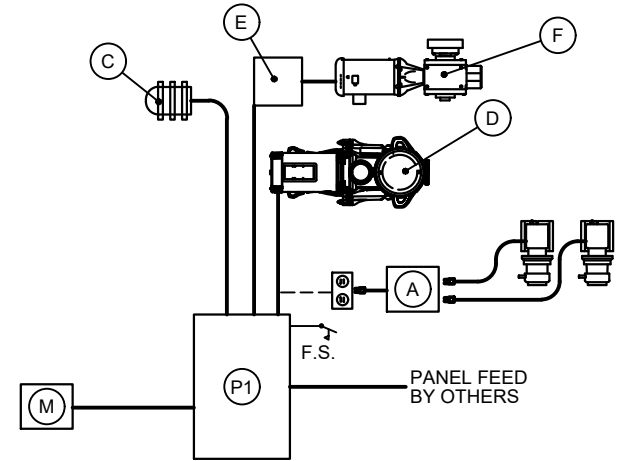
**7 SWIMEX SECTION**  
SCALE: N.T.S.



**5 ELECTRICAL SPECIFICATIONS**  
SCALE: N.T.S.

SWIM SPA EQUIPMENT LIST												
FIXTURE SCHEDULE				CONDUCTORS		PANEL SCHEDULE: 1PH, 3-WIRE, 120/240VAC, INSULATED/BONDABLE NEUTRAL, 25K AAC						
MARK	ITEM	DESCRIPTION	VOLTAGE	PH	N	GRD	CND	CKT	POLE	TRIP	FLA	NOTES
(P)	MAIN LUG BREAKER	SIEMENS 100A	120/240V	(2)	(1)	(1#4)	2"					MIN. REQ. SIZE CONDUCTORS, PANEL FEED BY OTHERS
(A)	ORP CHEM CONTROLLER	HAYWARD CAT 2000	120	(1#12)	(1#12)	(1#12)	1/2"	1	1	15	10	CONNECT STENNERS TO ORP
(C)	SERVICE LIGHT	LED	115V	(1#12)	(1#12)	(1#12)	1/2"	2	1	20	1.5	
(D)	RECIRC. PUMP	PENTAIR INTELLIFLO VS, 3.0 HP	230V*	(2#8)	-	(1#6)	1"	3	2	25	16.0	
(E)	PADDLE WHEEL CONTROLLER	SWIMEX CONTROL BOX	208/240V	(2#4)	-	(1#4)	1"	5	2	70	52.0	
(F)	PADDLE WHEEL MOTOR	SWIMEX 7.5 HP	208/240V	(2#6)	-	(1#6)	3/4"	N/A	N/A	N/A	20.0	INTERLOCKED W/ CKT 5
(M)	HEATER	HAYWARD CSPAX11 5.5 KW ELECTRIC HEATER	240V	(2#10)	-	(1#10)	1 1/2"	9	2	30	23.0	
TOTAL LOAD											92.5	AMPS

NOTE #1: ALL CONDUCTORS AND CONDUIT PROVIDED AND INSTALLED BY OTHERS  
NOTE #2: INSTALL ACCORDING TO NEC REQUIREMENTS & MFG RECOMMENDATIONS  
NOTE #3: GFCI BREAKERS ON SINGLE PHASE PUMP CIRCUITS RATED 15A OR 20A



GATOR SWIM SCHOOL - VARIANCE APPROVAL

- FBC 454.1.8.4.1 - Handrails shall be provided for all sets of steps and shall be anchored in bottom step and in the deck.
- 454.1.8.6.2 - Therapy or jet pumps shall take suction from the collector tank.
- 454.1.2.2.3.1 - Floor slope shall be uniform. The floor slope shall be a maximum 1 unit vertical in 10 units horizontal and a minimum of 1 unit vertical in 60 units horizontal in areas 5 feet deep or less.
- 454.1.8.8 - Spa-type pools shall have a minimum of one turnover every 30 minutes.
- 454.1.2.2.2 - The corner intersections of walls which protrude or angle into the pool water area shall be rounded with a minimum radius of 2 inches.
- 454.1.6.1.3 - Floors of sanitary facilities shall be constructed of concrete or other nonabsorbent materials, shall have a smooth, slip resistant finish, and shall slope to floor drains.
- 454.1.2.5.2 - Recessed treads shall be installed flush with the wall and shall be a minimum 5 inches wide, 10 inches long, with a maximum vertical distance of 12 inches between treads.
- 454.1.2.6 - Underwater seat benches may be installed in areas less than 5 feet deep.
- 454.1.6.1.1 - Pools with 0-2500 square foot surface require at least one unral
- 454.1.6.1.3 - Floors of sanitary facilities shall be constructed of concrete or other nonabsorbent materials, shall have a smooth, slip resistant finish, and shall slope to floor drains.
- 454.1.6.5.3.2.4 - A wall inlet fitting shall be provided directly across from each skimmer
- 454.1.2.1(a) and 454.1.2.4 - Floors and walls shall be white or light pastel and have the characteristics of reflecting rather than absorbing light.

PROVISOS

- Due to the numerous deviations from the safety aspects of the Florida Building Code and Chapter 64E-9 Florida Administrative Code, the swim spa training shall be supervised by a Florida Department of Health (DOH) pool-code-certified swimming instructor at all times when the special purpose pool is in use by a trainee.

EQUIPMENT AREA REQUIREMENTS

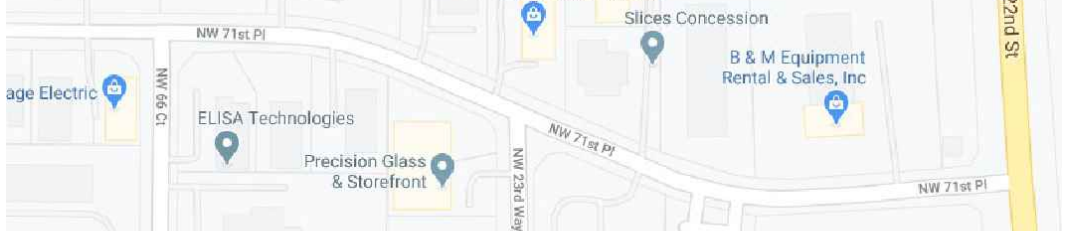
- Equipment designated by the manufacturer for outdoor use may be located in an equipment area, all other equipment must be located in an equipment room or enclosure.
- Plastic pipe subject to a period of prolonged sunlight exposure must be coated to protect it from ultraviolet light degradation.
- An equipment area shall be surrounded with a fence at least 4 ft high on all sides not confined by a building or equivalent structure, using a self-closing and self-latching gate with a locking device shall be provided if necessary for access.
- All fencing or installed gates, shall be at least 4 ft high on all sides & using members spaced that shall not allow passage of a 4 inch diameter sphere.
- An equipment room shall be protected on at least three sides and overhead. The fourth side may be a gate, fence, or open if otherwise protected from unauthorized entrance.
- An equipment enclosure shall be lockable or otherwise protected from unauthorized access. This access security shall be installed on all pool equipment areas.
- The equipment enclosure, area or room floor shall be of concrete or other nonabsorbent material having a smooth slip resistant finish and shall have positive drainage, including a sump pump if necessary.
- Ancillary equipment, such as a heater, not contained in an equipment enclosure or room shall necessitate a fenced equipment area as described above.
- Equipment enclosures or rooms shall have either forced draft or cross ventilation.
- All below grade equipment rooms shall have a stairway access with forced draft ventilation or a fully louvered door and powered intake within 6 inches of the floor.
- Where stairway access is not necessary to carry heavy items into the below grade room or vault, a "ship's ladder" may be used if specified by the design engineer who must consider anticipated workload including equipment removal; and the ladder slope, tread height and width, and construction material of the ladder shall be a minimum of three feet by six feet and shall provide easy access to the equipment.
- A hose bib with vacuum breaker shall be located in the equipment room or area.
- The equipment enclosure, room or area shall provide a minimum 24" clear working space in front of equipment to access & perform routine operations. Contractor to verify the space requirements with mfr. recommendations prior to construction. Conflicts require that the contractor to contact the engineer before proceeding.
- Clearance shall be provided for all equipment as prescribed by the manufacturer to allow normal maintenance operation and removal without disturbing other piping or equipment.
- Equipment enclosures, rooms or areas shall not be used for storage of chemicals emitting corrosive fumes or for storage of other items to the extent that entrance to the room for inspection or operation of the equipment is impaired.
- In rooms with fixed ceilings, the minimum height shall be 7 ft.
- Equipment enclosures, rooms or areas shall be lighted to provide 30 foot candles of illumination at floor level.
- All chemical solution tanks must be clearly labeled to indicate the contents.
- Equipment rooms shall have forced draft or cross ventilation. All below-grade equipment rooms shall have a stairway access with forced draft ventilation or a fully louvered door and powered intake within 6 inches of the floor.

INDOOR POOL LIGHTING NOTES

- Artificial lighting shall be provided at all indoor swimming pools so that all portions of the pool, including the bottom, may be readily seen without glare.
- Overhead lighting shall provide a minimum of 10 foot candles of illumination at the pool water surface and pool deck surface.
- Underwater lighting shall be a minimum of 0.8 watt per square foot of pool water surface area.
- Underwater lighting shall utilize transformers and low voltage circuits with each underwater light being grounded.
- The maximum voltage for each underwater light shall be 15 volts, and the maximum incandescent lamp size shall be 300 watts.
- The location of underwater lights shall be such that the illumination is as uniform as possible and shall not be less than 18 inches below the normal operating water level, see plan suggested light locations.
- All underwater lights which depend upon submersion for safe operation shall have protection from oversatting when not submerged.
- When LED lights are used, the equivalent incandescent watt illumination shall be stated from manufacturer information.

DEPTH MARKERS

- All depth markings shall be tile.
- Depth markings shall indicate depth within 3 inches when measured 3 feet from pool wall at normal water level.
- Depth markings shall be maximum 25 feet in perimeter distance apart.
- Depth markings & "No Diving" signs shall have letters & numbers a min. 4 inches high in contrasting color. "No Entry" markings shall be slip resistant tile w/ 4" letters.
- Wall markings shall be placed at the back of the gutter. With prior approval, marking may be located on the pool wall at the water level.
- A RED 4 inch International "NO DIVING" symbol may be substituted for "NO DIVING" tiles.
- Deck markings shall be within 2 feet of the water.
- Horizontal markings shall have slip resistant finish.



GENERAL NOTES FOR POOL

- This SWIM SPA will serve 100 units for SWIMTECH, GAINESVILLE making application for initial construction permit.
- Code Compliance: 7th Ed. (2020) Florida Building Code, Section 454, Florida Admin Code (2016 64E-9, FAC), Florida Fire Prevention Code (FFPC) 7th Edition, NFPA 1 Fire Code, NFPA 101 Life Safety Code, and current adopted codes.
- Electrical equipment wiring & installation including the grounding of pool components shall conform to the 2017 edition of the NFPA 70, National Electrical Code (NEC) and the 7th Ed. (2020) FBC Building Chapter 27. Written evidence shall be provided from the electrical contractor of compliance with the National Electrical Code.
- Overhead service wiring shall not pass within an area extending a distance of 10 feet horizontally away from the inside edge of the pool walls.
- Floors and walls shall be white or pastel in color and have the characteristics of reflecting rather than absorbing light. The finish coating shall have a dry lightness level (CIE L value) of 80.0 or greater and a wet luminous reflectance value (CIE Y value) of 50.0 or greater, as determined by test results provided by the manufacturer, utilizing testing methodology from American Standard ASTM D4086, ASTM E1477, ASTM E1347.
- Pool wet decks shall have a min. unobstructed width of 4' around the perimeter of the pool, pool curb, ladders, hand rails, & shall be constructed of concrete or other nonabsorbent material having a smooth slip resistant finish. Pits and crevices more than 3/16" deep not allowed.
- The pool wet deck shall be uniformly sloped at a min. of 2% to a max. of 4% away from the pool or to deck drains to prevent standing water. Wet deck finishes shall be designed for such use & installed in accordance with manufacturer's specifications.
- Food or drink service facilities shall not be located within 12' of the water's edge.
- A min. of (1) rinse shower shall be provided on the deck within the perimeter of the pool, spa, or interactive water feature.
- Vertical clearances above the pool deck shall be at least 7 feet.
- Contractor to field route piping & connect to existing using best practices & shortest runs following schematic shown on plans. Where possible eliminate high points in piping, place vent lines only if necessary.
- Contractor to ensure that any landscape irrigation water that wets the wet deck area of the pool, the pool itself, enters the collector tank, or wets an interactive water feature must be potable water from a public water.
- Only NSF60 approved chemicals shall be provided.
- The swim spa shall NOT be open for swimming at night unless the requirements for lighting, as specified in FBC 454.1.4.2, and rule 64E-9.008 (7), FAC, are met.
- If settling or weathering occurs that causes standing water on the pool deck, the original slopes shall be restored and/or corrective drains installed.

IF FIELD CONDITIONS DO NOT ALLOW CONSTRUCTION AS SHOWN ON THESE PLANS, OR THE CONTRACTOR CHOOSES TO USE DIFFERENT EQUIPMENT OR METHODS, CONTACT THE ENGINEER FOR REVIEW & MODIFICATION

- Sanitary facilities shall be provided & labeled for use & must be located within a 20' walking distance of the nearest water's edge of each pool or spa.
- For pools up to 2,500 square feet the min. fixture sets are men's room (1) ea. of a urinal, water closet, & lavatory. The women's restroom shall have (1) water closet & (1) lavatory.
- Outside access to facilities shall be provided for bathers at outdoor pools & if they are not visible from any portion of the pool deck, signs shall be posted showing directions to the facilities.
- Directors to sanitary facilities shall be legible from any portion of the pool deck with letters a min. 1 inch high.
- Sanitary facility floors & all interior access ways or hallways to the facilities shall be concrete or other nonabsorbent material & shall have a smooth slip resistant finish.
- Carpets, duckboards, & footbaths are prohibited.
- Sanitary facility floors shall slope to floor drains.
- A hose bib with vacuum breaker shall be provided within 25' of restrooms to allow for ease of cleaning.
- Intersection of floor & wall must be covered.
- Diaper changing tables shall be provided at facilities that cater to families with small children.
- Restroom doors that do not open outside, shall be within 50 ft of the doors to enter the building.

PROTECTIVE BARRIER / FENCE NOTES

- The fence/barrier must be at least 4 feet high on the outside.
- The fence/barrier may not have any gaps, openings, indentations, protrusions, or structural components that could allow a young child to crawl under, squeeze through, or climb over the barrier.
- The fence/barrier must be placed around the perimeter of the pool deck and must be separate from any fence, wall, or other enclosure surrounding the yard unless the fence, wall, or other enclosure or portion thereof is situated on the perimeter of the pool, is being used as part of the barrier, and meets the barrier requirements of this section.
- Gates that provide access to swimming pools must open outward away from the pool and be self-closing and equipped with a self-latching locking device. The release mechanism must be located on the pool side of the gate and so placed that it cannot be reached by a young child over the top or through any opening or gap (minimum 54" above deck, or 3" below top of gate or pool side).
- A wall of a cabana or equipment room may serve as part of the barrier.
- A barrier may not be located in a way that allows any permanent structure, equipment, or similar object to be used for climbing the barrier.
- Instead of a fence, permanent natural or man-made features such as bulkheads, canals, lakes, navigable waterways, etc., adjacent to a pool may be permitted as a barrier when approved. When evaluating such barrier features, the applicable governing body may perform onsite inspections, and review evidence, such as surveys, aerial photographs, water management agency standards and specifications, and any other similar documentation to verify at minimum, the following: the barrier feature is not subject to natural changes, deviations, or alterations and is capable of providing an equivalent level of protection as that provided by a structure, and the barrier feature clearly impedes, prohibits or restricts access to the pool.

**811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG**  
www.call811online.com

**FBC 454.1.1 MIN. POOL SIZING: TRANSIENT FACILITY**  
UNITS SERVED: 100  
MIN. BATH LOAD: 20 BATHERS MIN.  
MIN. FLOW: 100 GPM MIN.  
MIN. SQ. FT.: 400 SQ. FT. MIN.

SWIMTECH, GAINESVILLE SWIM VOLUME: 3,200 GAL  
SPA: PERIMETER: 33 LF FLOW: 75 GPM  
AREA: 69 SF TURNOVER: 0.7 HRS

- SWIM SPA RECIRCULATION EQUIPMENT:**
- Pool Heater - HAYWARD CSPAX11 5.5 KW ELECTRIC HEATER
  - Flow Meter - 1-1/2" FLOWVIS, 10-30 GPM
  - Recirculation Pump - PENTAIR INTELLIFLO VS 3.0 HP, 140 GPM @ 60 FT TDH
  - Pres. Cartridge Filter - PENTAIR CCP 320, 320 SF @ 120 GPM
  - Acid Feed - STENNER 45M2, 10 GPD, MIN. 5 GAL CROCK
  - Chlorine Feed - STENNER 45M2, 10 GPD, MIN. 5 GAL CROCK
  - Chemistry Controller - HAYWARD CAT 2000
  - Flow Meter - 2" BLUE WHITE, F-30200, 20-120 GPM.
  - Flow Switch - STENNER, SW VVK 301
  - Pressure Gauges - 2" FACE
  - Transformer - IN LINE
  - Main Drain Cover - WATERWAY 640358XV SPC-3
  - Skimmers - WATERWAY 540-8400
  - Wall Return Fittings - WATERWAY 400-14100B

- Spa Sign - "SPA REGULATIONS" SEE NOTES
- Test Kit - TAYLOR K-2006 COMPLETE (FAS-DPD CHLORINE)

1 SPECIFICATIONS

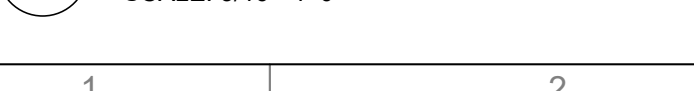
THESE PLANS COMPLY WITH 7TH ED. (2020) FBC SECTION 454.1

SWIMTECH, GAINESVILLE  
7010 NW 23RD WAY B  
GAINESVILLE, FL  
SWIM SPA

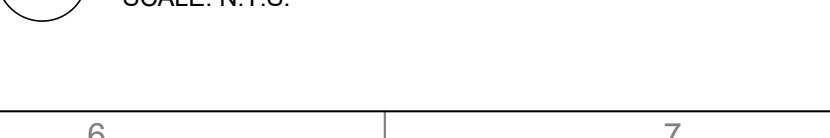
SHEET  
**1**  
SHEET 1 OF 1

NOT FOR CONSTRUCTION WITHOUT DEPARTMENT APPROVAL ON PLANS

6 PROPOSED SITE PLAN  
SCALE: 3/16"=1'-0"



3 REQUIRED POOL SIGNAGE  
SCALE: N.T.S.



- RESTROOM SIGN DETAILS**
- All letters shall be minimum 1" high.
  - Sign shall be legible from all pool areas.

4 EXAMPLE OF RESTROOM SIGN  
SCALE: N.T.S.

**RESTROOMS**

**Swim Spa Rules**

- No food or beverages in pool or on wet deck.
- No glass or animals within fenced pool area (or 50' from unfenced pool).
- Bathing Load: 2 persons. Trainee must be supervised by Swim Coach
- Shower before entering pool.
- DO NOT SWALLOW THE POOL WATER.

**NO DIVING**

- POOL REGULATIONS SIGN DETAILS**
- All letters shall be a MIN. of 1" in height except "NO DIVING" shall be 4" high.
  - Sign shall be legible from the pool deck.
  - The pool shall NOT be open for swimming at night unless the requirements for lighting, as specified in FBC 454.1.4.2, and rule 64E-9.008 (7), FAC, are met.
  - The sign shall contain at a minimum information in FBC 454.1.2.3.5 and rule 64E-9.008 (6), FAC.

Missing or invalid reference  
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Sheet: 1

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PROJ. NO.: 20088.0  
DWG BY: JDC  
CHK BY: JJK  
CDD BY: JJK  
DRAWING: 06-JAN-21  
PRINTED: 25-JAN-21  
SCALE: AS NOTED

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**KIMES ENGINEERING**

Professional Engineer  
No. 83878  
State of Florida

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