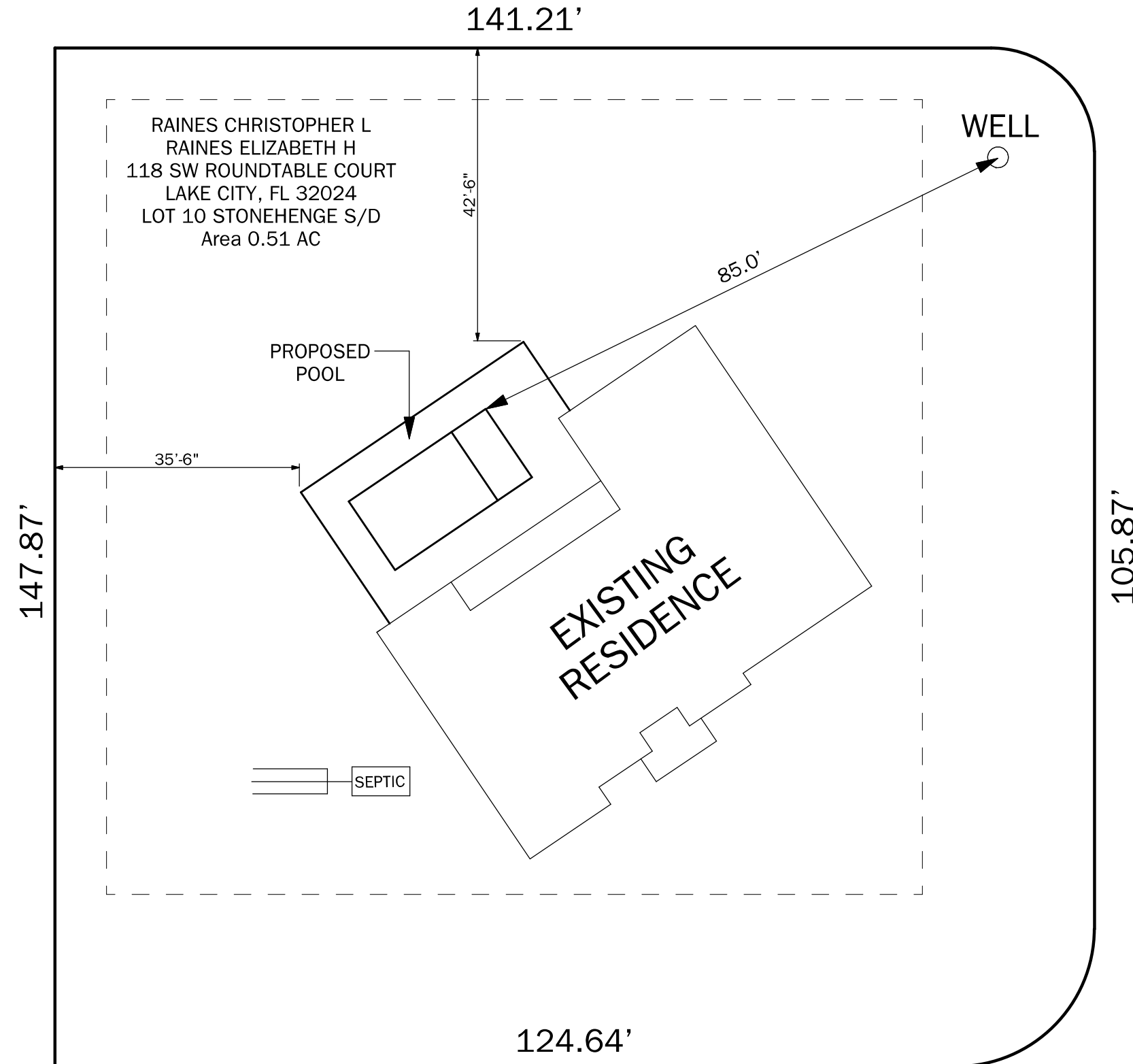
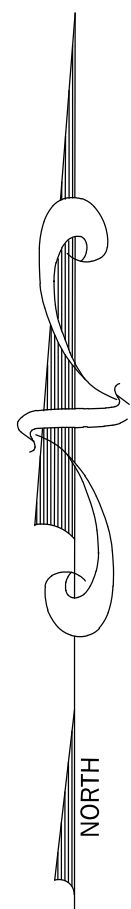


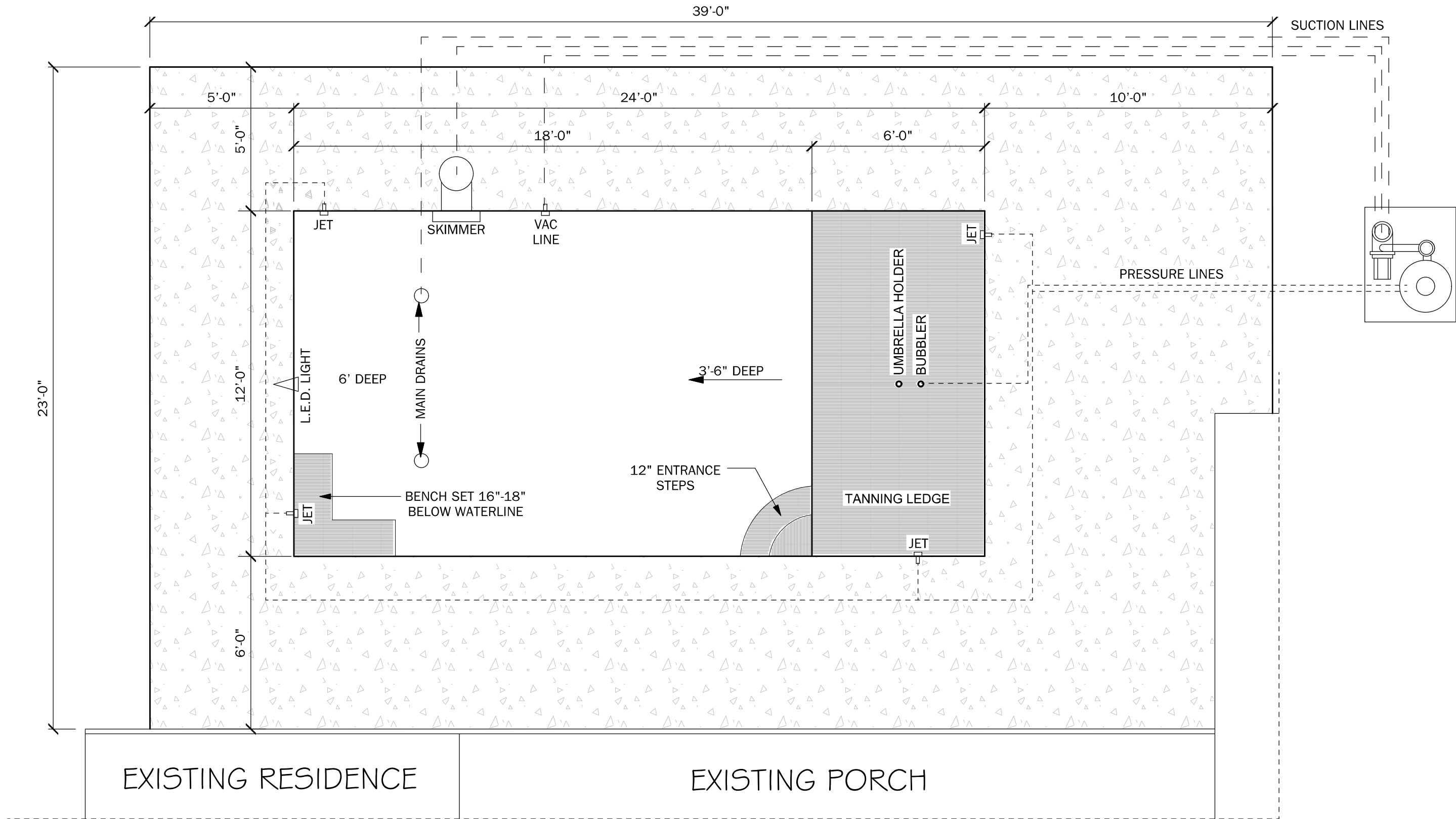


S.W. ROUNDTABLE CT.



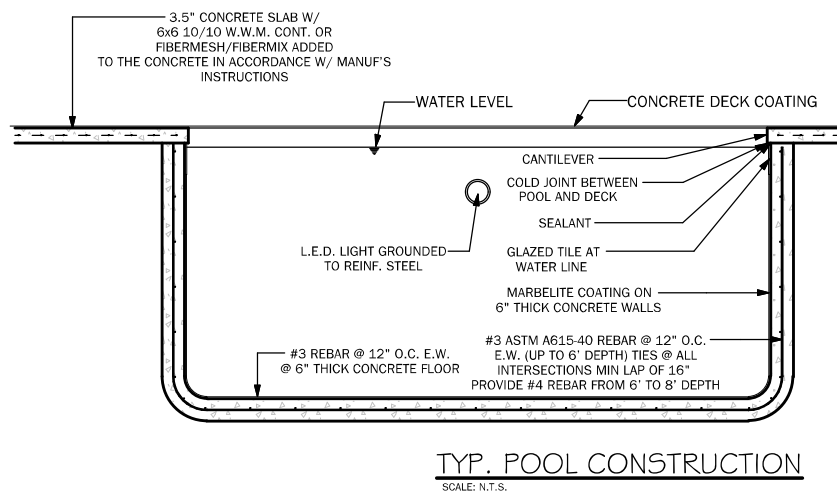
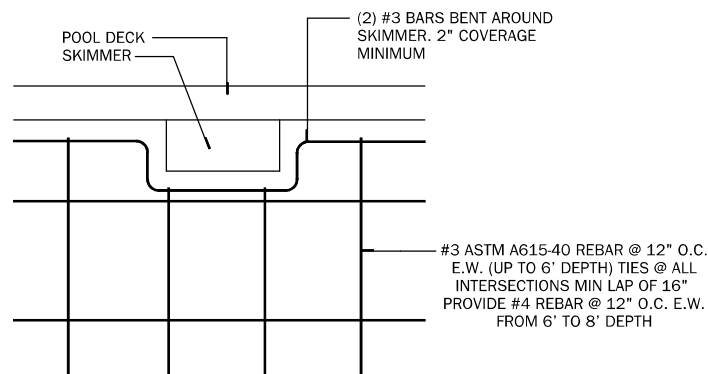
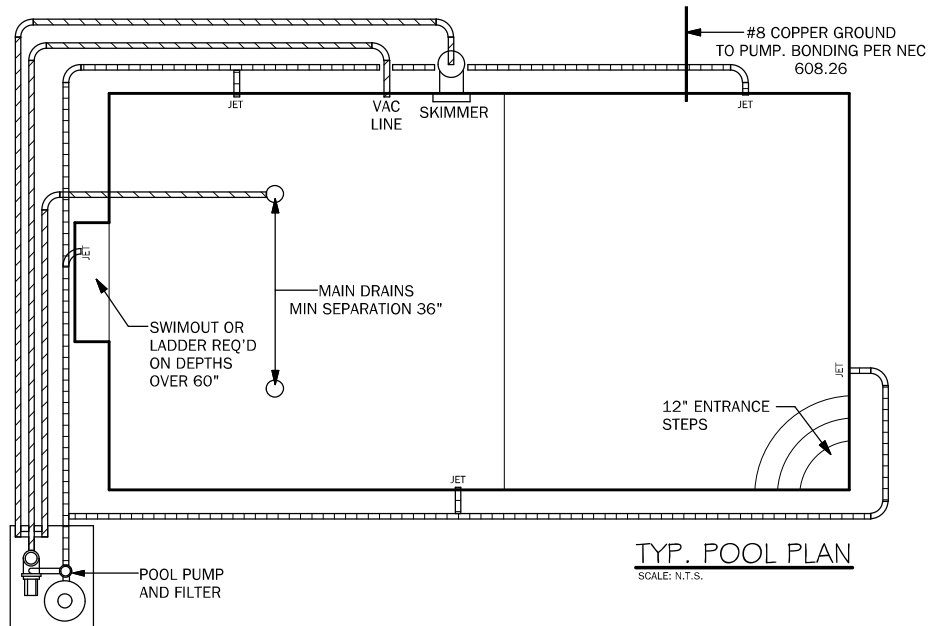
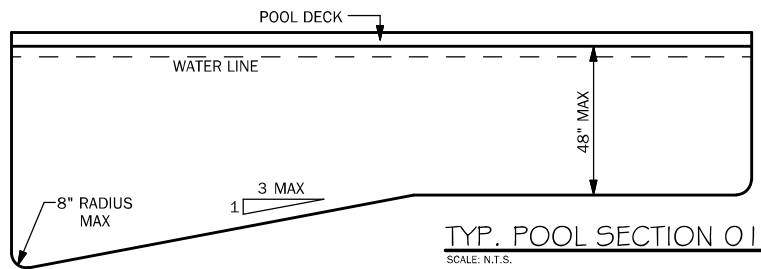
GRAPHIC SCALE

SITE PLAN  
SCALE: N.T.S.



POOL LAYOUT

SCALE: N.T.S.



## GENERAL NOTES

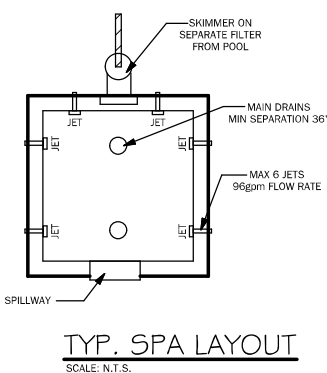
- 1 Design, construction and workmanship shall be in conformity with the requirements of ANSI/APSP/ICC3; ANSI/APSP/ICC 4; ANSI/APSP/ICC 5; ANSI/APSP/ICC 6; and ANSI/APSP/ICC 7.
- 2 Every swimming pool shall be equipped complete with approved mechanical equipment consisting of filter, pump, piping valves and component parts.
- 3 Pools installed in flood hazard areas established in Section R322 shall comply with Section R322.2.4 (A Zones) or R322.3.3.1 in coastal high-hazard areas (V Zones).
- 4 Pool piping shall be designed so the water velocity will not exceed 10 feet per second (3048 mm/s) for pressure piping and 8 feet per second (2438 mm/s) for suction piping, except that the water velocity shall not exceed 8 feet per second (2438 mm/s) in copper tubing. Main suction outlet velocity must comply with ANSI/APSP/ICC 7.
- 5 Entrapment protection for suction outlets shall be installed in accordance with requirements of ANSI/APSP/ICC 7.
- 6 Pumps shall have design capacity at the following heads:
  - 1.1. Pressure Diatomaceous Earth-At least 60 feet (18 288 mm).
  - 2.2. Vacuum Diatomaceous Earth-20-inch (508 mm) vacuum on the suction side and 40-foot (12 192 mm) total head.
  - 3.3. Rapid Sand-At least 45 feet (13 716 mm).
  - 4.4. High Rate Sand-At least 60 feet (18 288 mm).
- 7 All pool piping shall be tested and proved tight to the satisfaction of the administrative authority, under a pressure test of 35psi for 15 minutes.

All drain and waste piping shall be tested by filling with water to the point of overflow and all joints shall be tight. Drain piping serving gravity overflow gutter drains and deck drains shall be installed to provide continuous grade to point of discharge.

Swimming pool water heating equipment shall conform to the design, construction and installation requirements in accordance with accepted engineering practices and shall bear the label of a recognized testing agency, and shall include a consideration of combustion air, venting and gas supply requirements for water heaters.
- 8 Residential swimming pool barriers shall comply with Sections R4501.17.1 through R4501.17.3.

Where a wall of a dwelling serves as part of the barrier, one of the following shall apply:

  1. All doors and windows providing direct access from the home to the pool shall be equipped with an exit alarm complying with UL 2017 that has a minimum sound pressure rating of 85 dBA at 10 feet (3048 mm). Any deactivation switch shall be located at least 54 inches (1372 mm) above the threshold of the access. Separate alarms are not required for each door or window if sensors wired to a central alarm sound when contact is broken at any opening.
  2. All doors providing direct access from the home to the pool must be equipped with a self-closing, self-latching device with positive mechanical latching/locking installed a minimum of 54 inches (1372 mm) above the threshold, which is approved by the authority having jurisdiction.
  3. A swimming pool alarm that, when placed in a pool, sounds an alarm upon detection of an accidental or unauthorized entrance into the water. Such pool alarm must meet and be independently certified to ASTM Standard F2208, titled "Standard Safety Specification for Residential Pool Alarms," which includes surface motion, pressure, sonar, laser, and infrared alarms. For purposes of this paragraph, the term "swimming pool alarm" does not include any swimming protection alarm device designed for individual use, such as an alarm attached to a child that sounds when the child exceeds a certain distance or becomes submerged in water.
- 9 All pools whether public or private shall be provided with a ladder or steps in the shallow end where 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/swimouts in the deep end. Where manufactured diving equipment is to be used, benches or swimouts shall be recessed or located in a corner.
- 10 Components shall have sufficient capacity to provide a complete turnover of pool water in 12 hours or less.
- 11 Approved surface skimmers are required and shall be installed in strict accordance with the manufacturer's installation instructions. Skimmers shall be installed on the basis of one per 800 square feet (74 m2) of surface area or fraction thereof, and shall be designed for a flow rate of at least 25 gallons per minute (gpm) (1.6 L/s) per skimmer. An approved main outlet, when provided, shall be located on a wall or floor at or near the deepest point in the pool for emptying or circulation, or both, of the water in the pool.
- 12 In areas of anticipated water table an approved hydrostatic relief device shall be installed.
- 13 Equipment shall be so installed as to provide ready accessibility for cleaning, operating, maintenance and servicing.
- 14 Pool and SPA Energy Consumption to comply with IECC R403.10.1 Through R403.10.3



## SPA NOTES

1. HANDRAIL OPTIONAL
2. STEPS OPTIONAL
3. LIGHTING SAME AS POOL
4. ELEC. BONDING SAME AS POOL
5. BENCH SEAT NOT TO EXCEED 28" DEPTH
6. MOUNT DRAIN ON SIDE WALL IF MIN. SEPARATION CAN'T BE ACHIEVED IN FLOOR

## FLOW CALCULATION & PIPE SIZING

$$\text{Pool Volume} = \text{S.F.} * \text{Avg. Depth} * 7,481$$

288 S.F. x 4' Avg. Depth x 7.481 = 8,618 Gallons

$$\text{Turnover Rate} = 6 \text{ Hours} * 60 \text{ Minutes/Hour} = 360$$
$$\text{Flow Rate} = \text{Gallons} / 360 = \text{GPM}$$

$$8,618 \text{ Gallons} / 360 = 24 \text{ gpm}$$

| Size   | Pressure GPM | Suction GPM |
|--------|--------------|-------------|
| 1-1/2" | 65           | 35          |
| 2"     | 105          | 60          |
| 2-1/2" | 140          | 90          |

**PROJECT:**

PROJECT: Raines Pool Engineering  
118 SW Roundtable Ct  
Lake City, Fl  
Columbia County

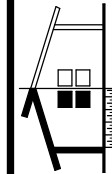
SHEET NO.

1  
OF  
1

02-14 PM

TEST PILOT DATE: 1999-03-20CCE

**TCCS, llc**



**A** **B** **D** <sup>©</sup>

**RANDOLPH WIGGINS, P.E.**

31 E. Wade Street, Suite B Trenton, FL 32693  
STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE  
2023 FLORIDA RESIDENTIAL BUILDING CODE.  
SIGNATURE/SEAL ON ANY SHEET IS VALID ONLY  
FOR THE STRUCTURAL DESIGN

RANDOLPH WIGGINS, P.E. FL # 15721  
DATE: June 02, 2025

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED USING A DIGITAL SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ANY