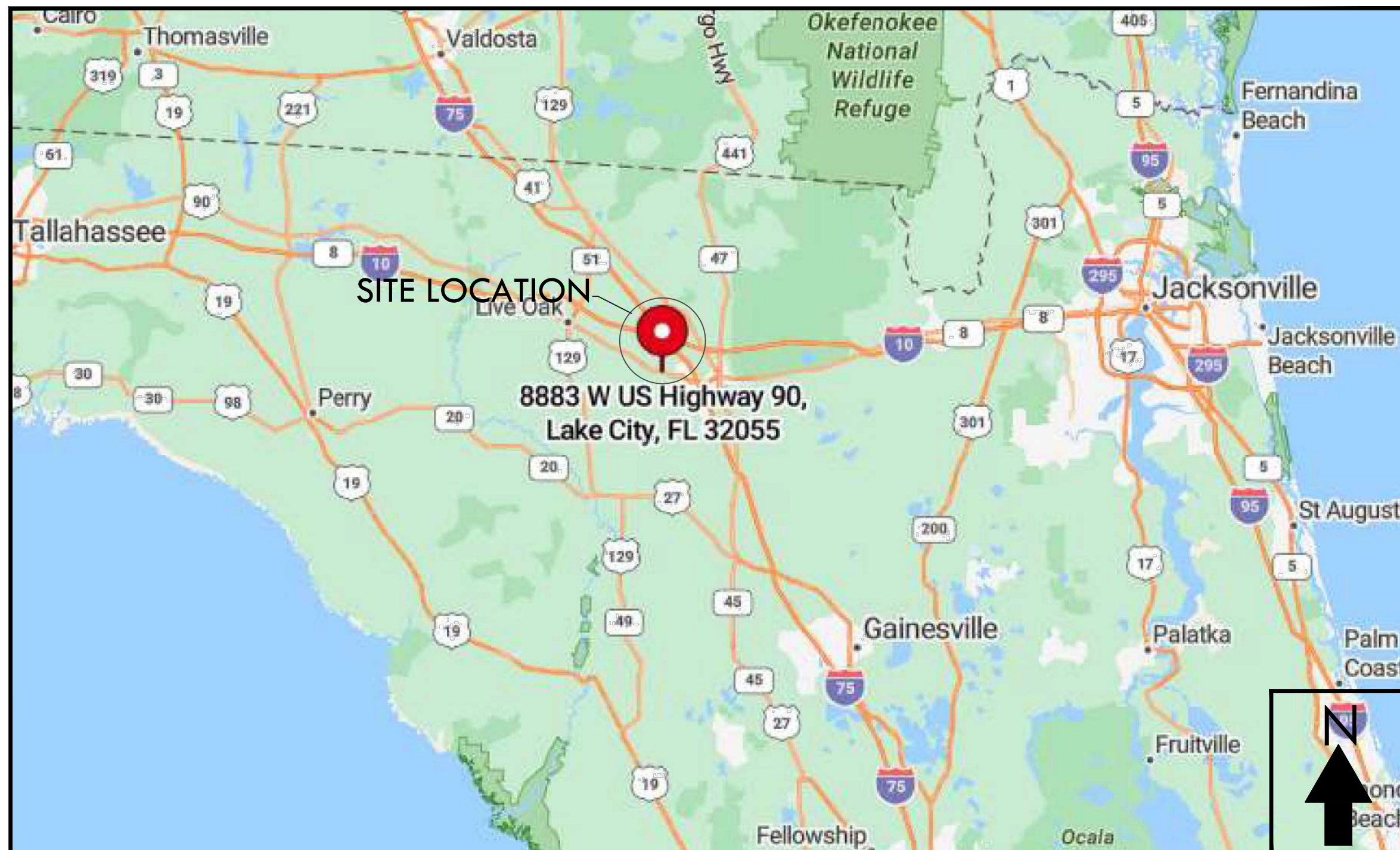


AMENITY POOL

8883 HIGHWAY 90W
LAKE CITY, FL 32055
COLUMBIA COUNTY



Project Vicinity Map
Not to scale



Project Location Map
Not to scale

INDEX OF DRAWINGS	
SHEET #	SHEET NAME
SP - 1	COVER SHEET
SP - 2	NOTES & SPECIFICATIONS
SP - 3	SITE PLAN
SP - 4	POOL PLUMBING PLAN
SP - 5	POOL LAYOUT PLAN
SP - 6	POOL DETAILS
SP - 7	POOL PROFILES & SECTIONS
SP - 8	POOL EQUIPMENT DETAILS
SP - 9	POOL BONDING PLAN

THE POOL, DECK AND EQUIPMENT SHOWN ARE DESIGNED TO MEET THE REQUIREMENTS OF THE FOLLOWING APPLICABLE CODES:
DEPARTMENT OF HEALTH (DOH) 64E-9 FLORIDA ADMINISTRATIVE CODE
FLORIDA STATUTES, CHAPTER 514
FLORIDA BUILDING CODE, 8TH EDITION (2023)
FLORIDA PLUMBING CODE, 2023
NATIONAL ELECTRIC CODE (NEC) 2020
NATION FIRE PROTECTION ASSOCIATION 2021 (NFPA) 70 (Update)
NATION FIRE PROTECTION ASSOCIATION 2021 (NFPA) 101
FLORIDA FIRE PREVENTION CODE, 8TH EDITION 2023

REV.	DESCRIPTION	DATE
DRAWN		CHECKED
JP		SAL
DATE		SCALE
4-3-2024		AS SHOWN
GCE PROJECT #: 2024-03-0076		
SP - 1	SHEET <u>1</u> OF <u>8</u>	

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 CERTIFICATE OF AUTHORIZATION 27934

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PALM HARBOR, FLORIDA 34684
GB_COLLINS@VERIZON.NET
(727)-442-8443

For: QUALITY POOLS

DREAMIN N DRIFTIN RV
AMENITY POOL

COVER SHEET

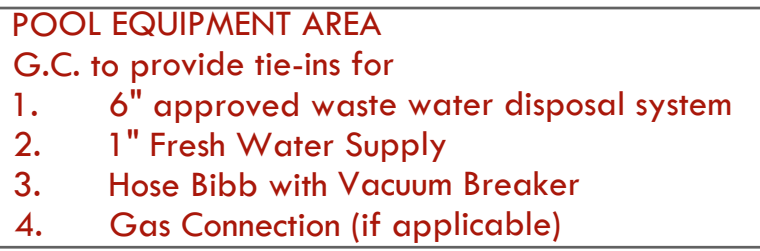


Samuel A Liberatore
2024.04.17 13:15:10
-04'00'

SAMUEL A. LIBERATORE, P.E.
#55740

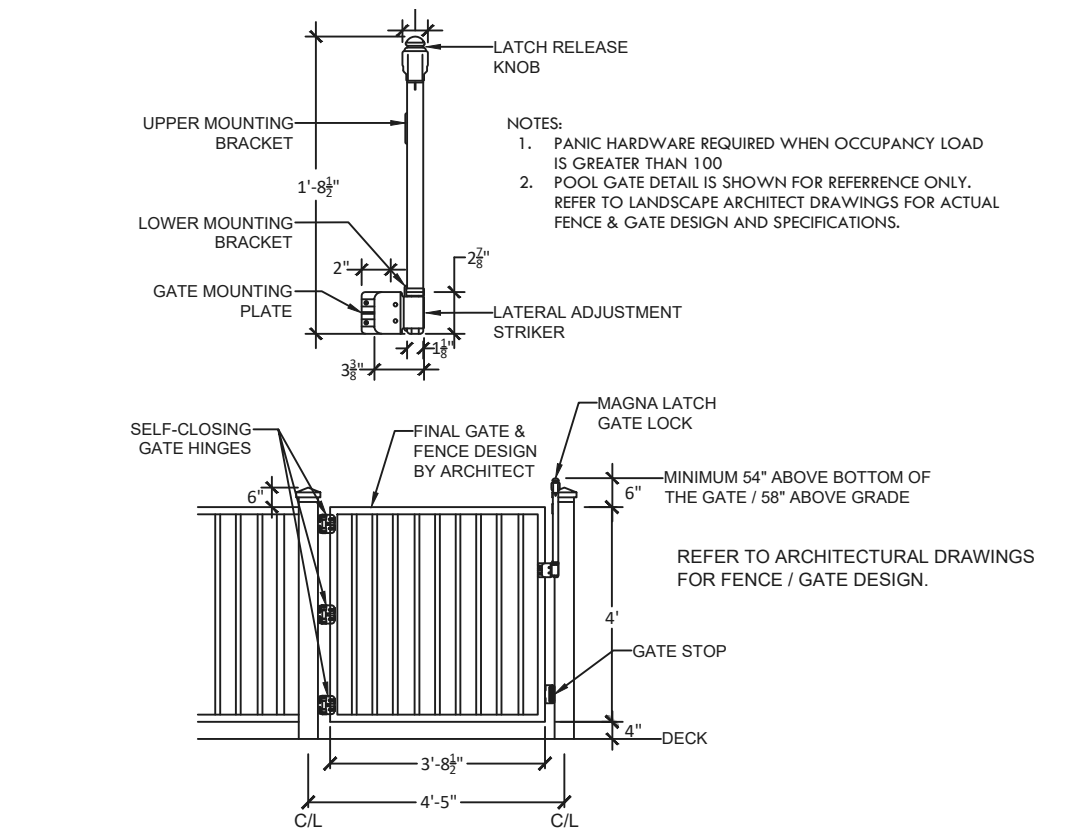
This item has been electronically signed and sealed by Sam Liberatore PE using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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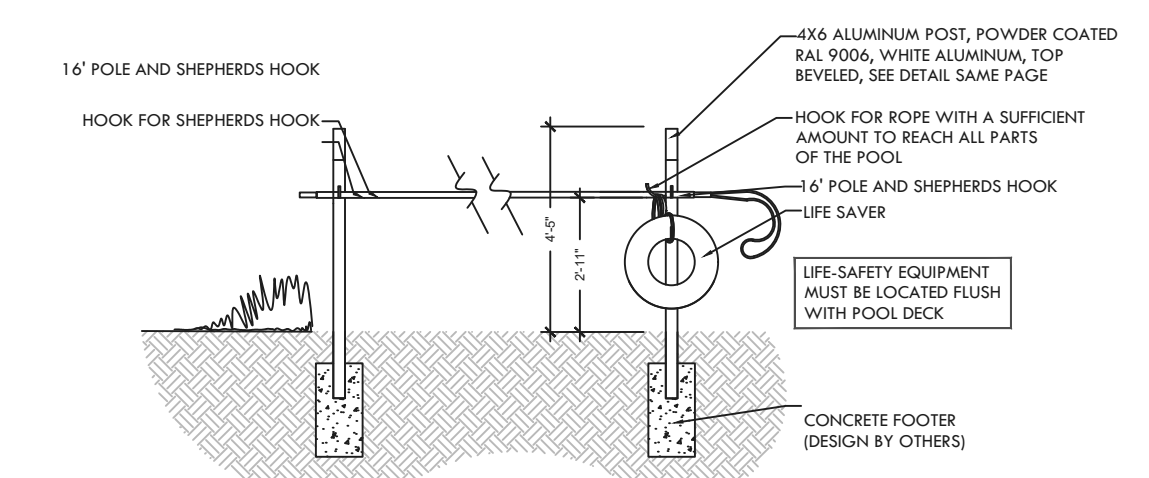
SITE PLAN NOTES:

1. RINSE SHOWER SHALL BE PROVIDED ON THE POOL DECK WITHIN THE PERIMETER OF THE FENCE.
2. HOSE BIBB WITH VACUUM BREAKER REQUIRED ON DECK.
3. WASTE TO STORM COLLECTION SYSTEM WITH AIR GAP, MEET LOCAL CODES, PAINT EXPOSED PVC. EACH WASTE LINE SHALL HAVE A UNIQUE AIR GAP.
WASTE LINES FROM DIFFERENT SOURCES SHALL NOT BE TIED TOGETHER, BUT MAY DISCHARGE INTO A COMMON SUMP OR RECEPTACLE AFTER AIR GAP. (CONTRACTOR TO PROVIDE)
4. CONFIRM LOCATIONS AND ELEVATIONS WITH THE OWNER AND LANDSCAPE CONTRACTOR.
5. NO FOOD OR DRINK FACILITIES WITHIN 12 FEET OF POOL
6. PROVIDE A HOSE BIBB WITHIN 25 FEET OF THE RESTROOMS
7. PROVIDE DIRECTIONAL SIGNS TO RESTROOMS
8. NO RECLAIMED WATER SHALL BE USED AS AN IRRIGATION SOURCE FOR THE PLANTER AREAS ALONG THE POOL DECK
9. PAINT ALL EXPOSED PVC.
10. OUTDOOR POOL DECK TO HAVE A MINIMUM OF 2% AND A MAXIMUM OF 4% UNIFORM SLOPE AWAY FROM POOL OR TO DECK DRAINS.
11. CONTRACTOR TO PROVIDE A MINIMUM 48" OF CLEARANCE AROUND THE POOL PERIMETER. THIS CLEARANCE DISTANCE NEEDS TO BE PROVIDED AND MEASURED FROM THE OUTSIDE FACE OF ANY STEP RAILS AND LADDER ANCHORS.
12. CONTRACTOR TO VERIFY ELEVATION LOCATION AND CONFIRM ALL ELEVATIONS AND SITE DRAINAGE.



TYPICAL GATE DETAIL

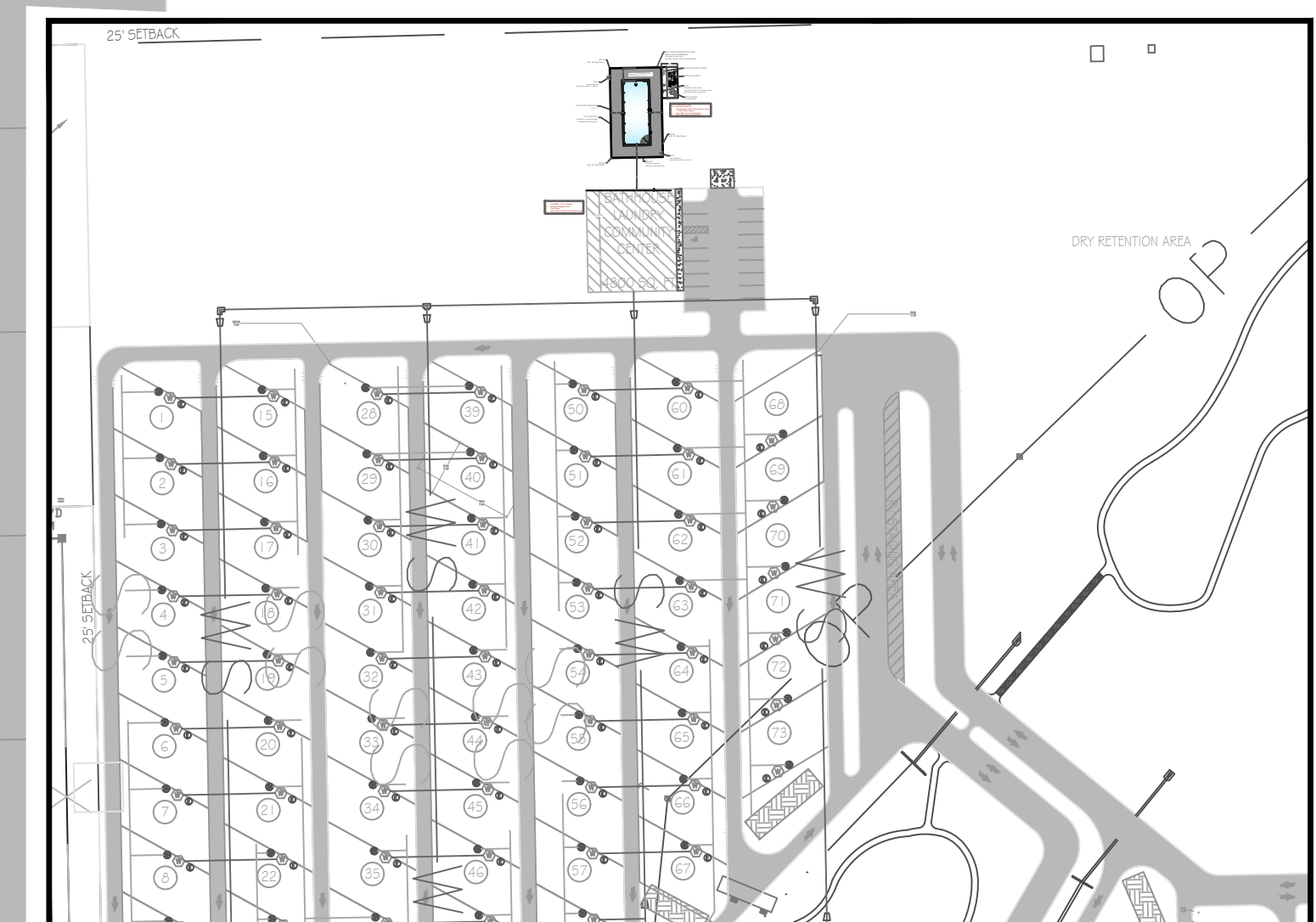
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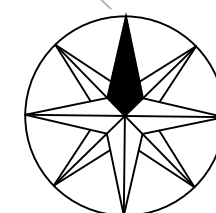
LIFE SAFETY EQUIPMENT

SCALE: N.T.S.

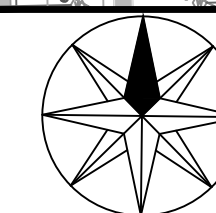
- RESTROOMS TO INCLUDE:**
1. Hose Bibb w/ Vac. Breaker
 2. Diaper Changing Tables
 3. Floor Drains
 4. See chart on sheet 2 for min. fixture count
 5. See Hardscape plans for additional info.



LEGEND	
E	ELECTRICAL SUPPLY
S	WASTE LINE
P	POTABLE WATER SUPPLY
G	GAS CONNECTION



Site Plan
Scale: 1/8" = 1'-0"



Overall Site Plan
Scale: 1/128" = 1'

For: QUALITY POOLS

DREAMIN N DRIFTIN RV
AMENITY POOL

Amenity Site Plan

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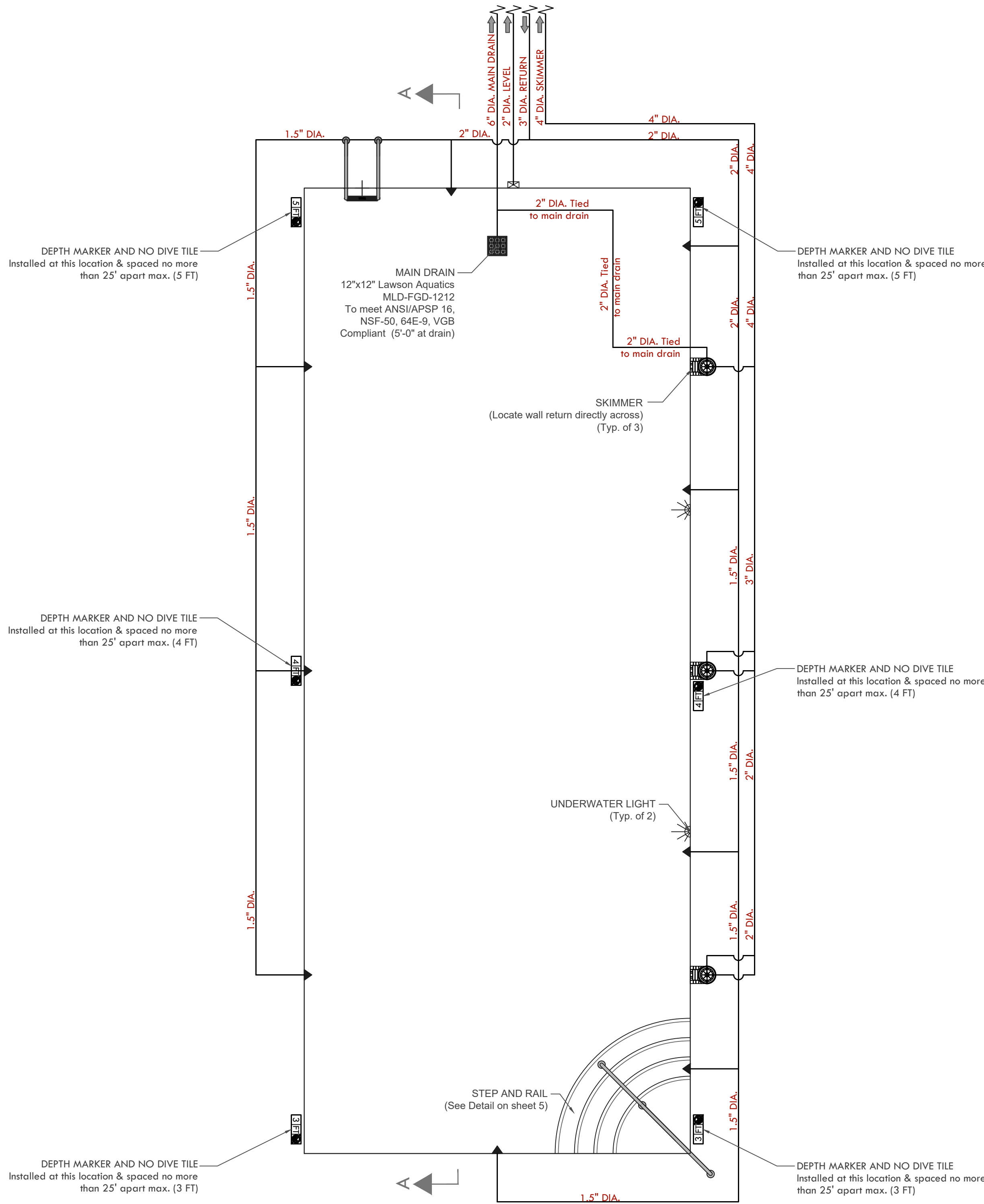
MAXIMUM FLOW VELOCITIES (GPM)			
PIPE DIAMETER	¹ GRAVITY	² SUCTION	³ PRESSURE
1.5	17	33	55
2.0	29	59	98
3.0	66	132	220
4.0	117	235	392
6.0	264	529	881
8.0	470	940	1,567

¹ GRAVITY, MAXIMUM FLOW, IN GPM, AT 3.0 FPS
² SUCTION, MAXIMUM FLOW, IN GPM, AT 6.0 FPS
³ PRESSURE, MAXIMUM FLOW, IN GPM, AT 10.0 FPS

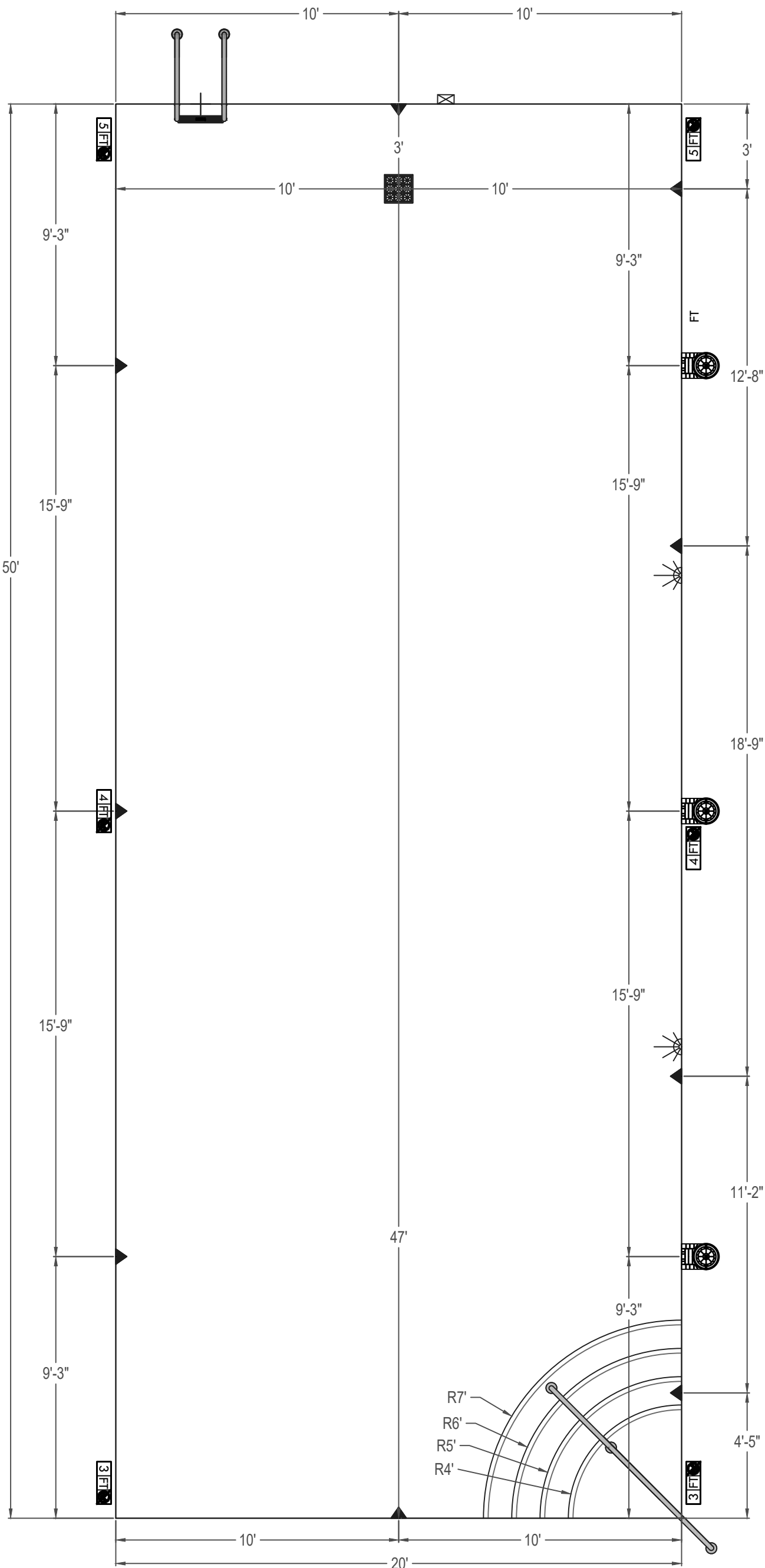
FITTING LOCATIONS AND PIPE ROUTING ARE SHOWN IN SCHEMATIC FORM TO ILLUSTRATE DESIGN AND INTENT. INFORMATION NOT SPECIFIED OR DETAILED IS ABLE TO BE ADJUSTED BY THE POOL CONTRACTOR TO FACILITATE INSTALLATION OR ADJUST TO FIELD CONDITIONS

POOL MAIN DRAIN COVER - 1.5 FPS
MAX. FLOW LAWSON MLD-FGD-1212,
12"x12" VGB COMPLIANT MAIN DRAIN
COVER WITH 81.03 IN OPEN AREA; 365
GPM AT 1.5 FPS.

HYDRAULIC DESIGN MEETS 2023
FLORIDA BUILDING CODE, 8TH EDITION



Pool Plumbing Plan
Scale: 1/4" = 1'-0"



Pool Layout Plan
Scale: 1/4" = 1'-0"

LEGEND		
SYMBOL	QTY.	ITEM
	2	UNDERWATER LIGHTS - Pentair 5G LED
	1	MAIN DRAIN - 12" x 12" Lawson
	6	DEPTH MARKER TILE
	6	NO DIVE TILE
	9	REC. WALL RETURNS Hayward SP1419E
	3	SKIMMER - Hayward SP10712
	1	LEVEL - Hayward SP1019
	1	LADDERS - S.R. Smith, LFB-36B
		BENCH & STAIR TILE

- NOTES:
- DEPTH MARKERS TO INDICATE ACTUAL DEPTH WITHIN 3 INCHES.
 - ALL CORNERS TO HAVE A MINIMUM 2" RADIUS.
 - 15' MINIMUM AND 20' MAXIMUM POOL WIDTH.
 - RETURNS MUST BE LOCATED DIRECTLY ACROSS FROM ALL SKIMMERS.
 - WALL RETURNS SHALL BE SPACED EVERY 20' OR LESS AROUND PERIMETER.
 - ONE SKIMMER MUST BE INSTALLED IN THE SUN SHELF AREA (IF APPLICABLE)

TOTAL POOL VOLUME & CALCULATIONS

- Area.....1,000 Sq. Ft.
- Perimeter.....140' Ln. Ft.
- Volume.....28,000 Gallons
- Turnover.....3.1 Hours
- Flow Rate.....150 GPM
- Unit Count.....100 Transient
- Bather Load.....30 Bathers

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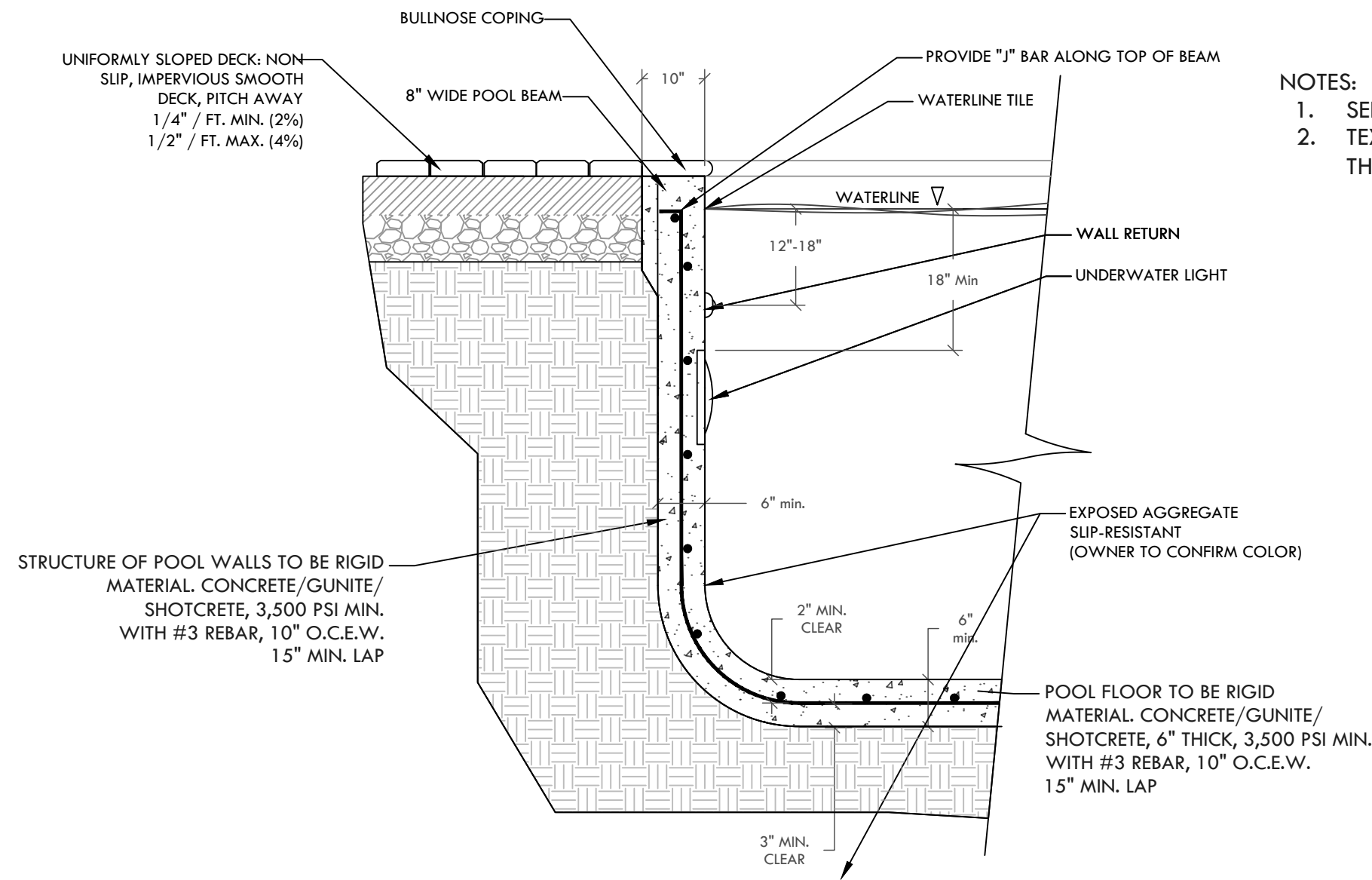
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#55740
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For: QUALITY POOLS

DREAMIN N DRIFTIN RV
AMENITY POOL

POOL PLUMBING & LAYOUT PLAN

REV.	DESCRIPTION	DATE
DRAWN		CHECKED
JP		SAL
DATE		SCALE
4-3-2024		AS SHOWN
GCE PROJECT #: 2024-03-0076		
SP - 4	SHEET <u>4</u> OF <u>8</u>	



- NOTES:
- SEE HARDSCAPE PLANS FOR ALL TILE, COPING, DECK AND POOL FINISHES
 - TEXTURED DECK FINISHES THAT PROVIDE PITTED OR CREVICES OF MORE THAN 3/16" ARE PROHIBITED.

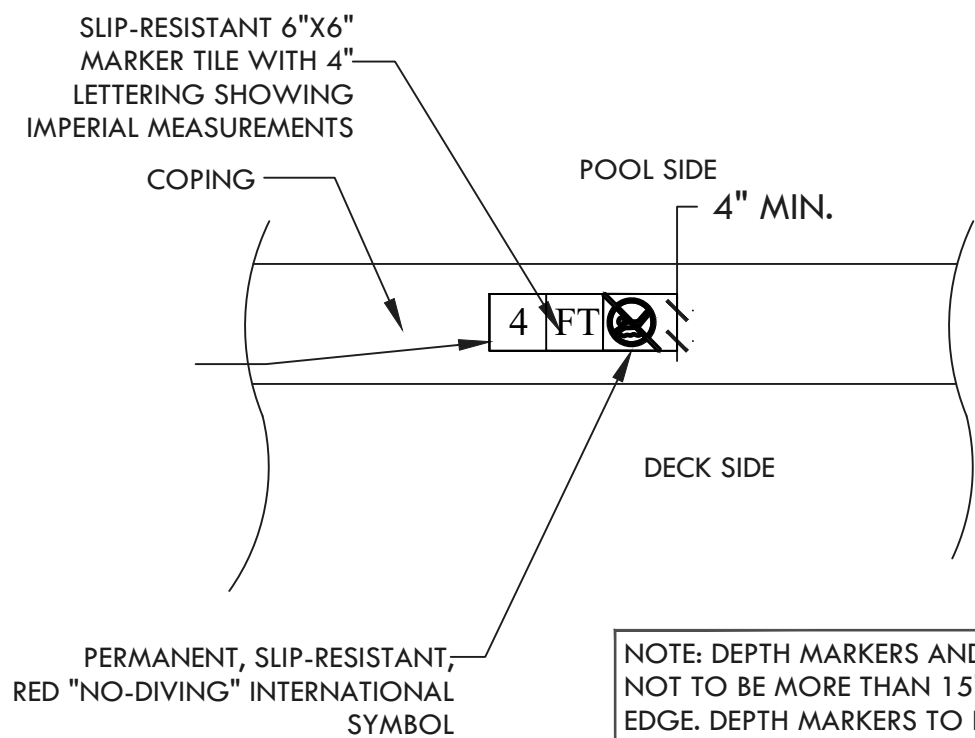
IF SETTLING OR WEATHERING OCCURS THAT WOULD CAUSE STANDING WATER, THE ORIGINAL SLOPES SHALL BE RESTORED OR CORRECTIVE DRAINS INSTALLED.

POOL SUBBASE TO BE COMPACTED TO 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-1557

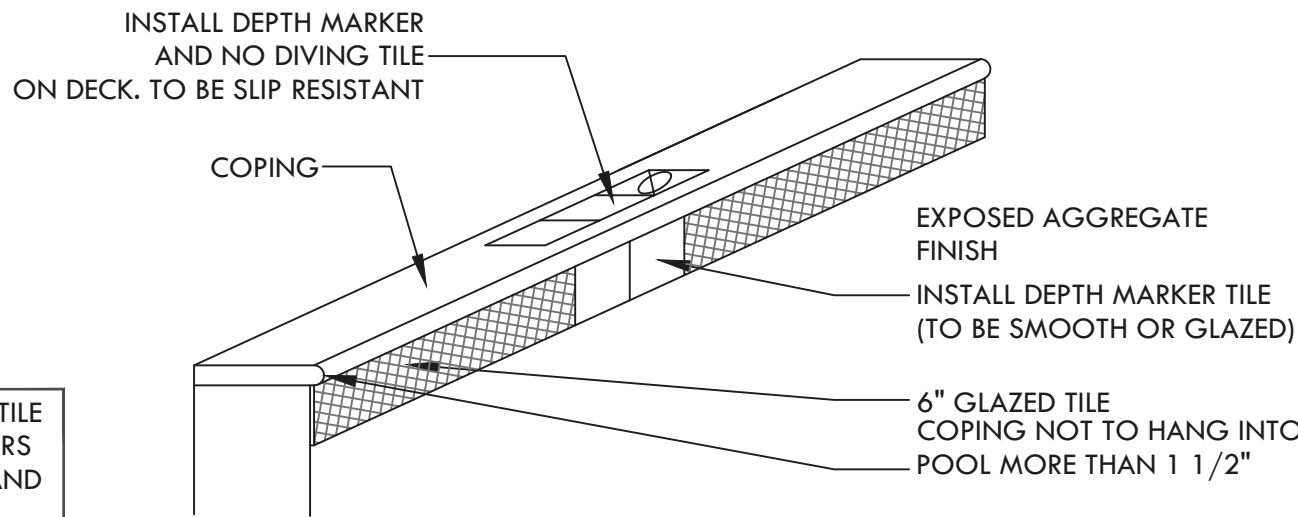
STRUCTURAL SUBJECT TO SUITABLE SOIL CONDITIONS. THE AREA OF THE POOL CONSTRUCTION SHALL BR PROBED AT THE TIME OF CONSTRUCTION TO VERIFY THE PRESENCE OF SUITABLE EXISTING SOILS. ALL ORGANIC MATERIAL WILL NEED TO BE OVER-EXCAVATED AND REPLACED PER GEOTHECNICAL RECOMMENDATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER DEWATERING MEASURES DURING CONSTRUCTION. HYDROSTATIC RELIEF VALVES NEED TO BE PROPERLY INSTALLED AND VERIFIED THAT THEY ARE WORKING PROPERLY.

TYPICAL WALL & FLOOR SECTION

SCALE: N.T.S.



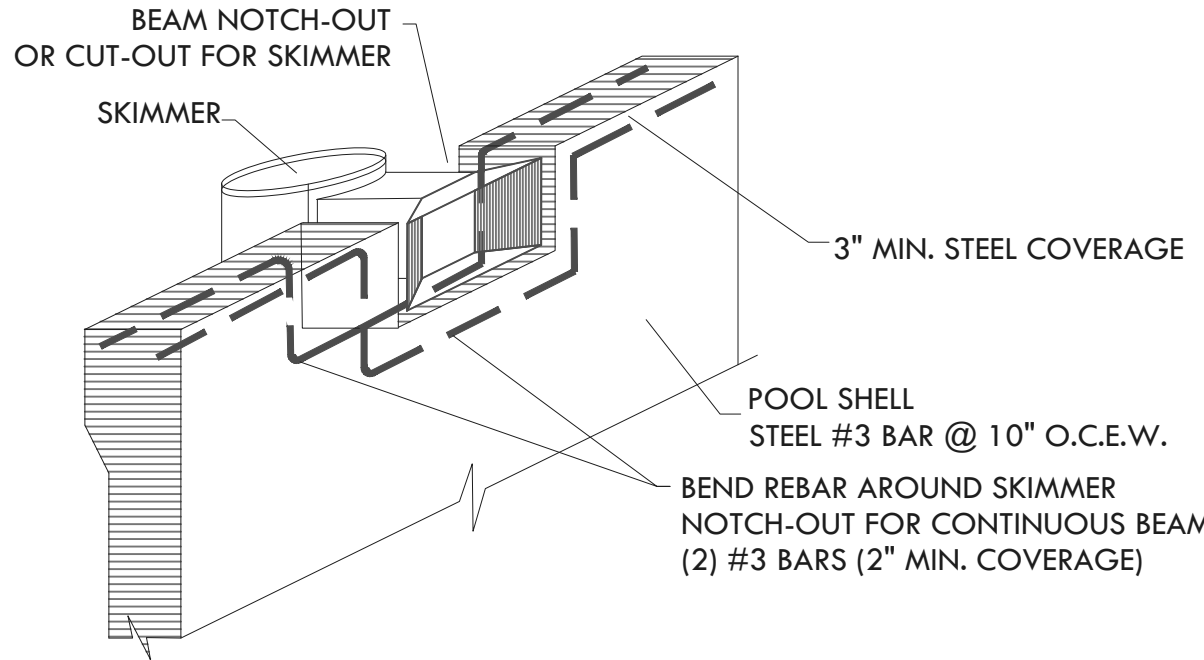
NOTE: DEPTH MARKERS AND NO DIVING TILE NOT TO BE MORE THAN 15" FROM WATERS EDGE. DEPTH MARKERS TO BE ON DECK AND INSIDE POOL AT WATER LINE.



SKIMMER DETAIL

SECTION

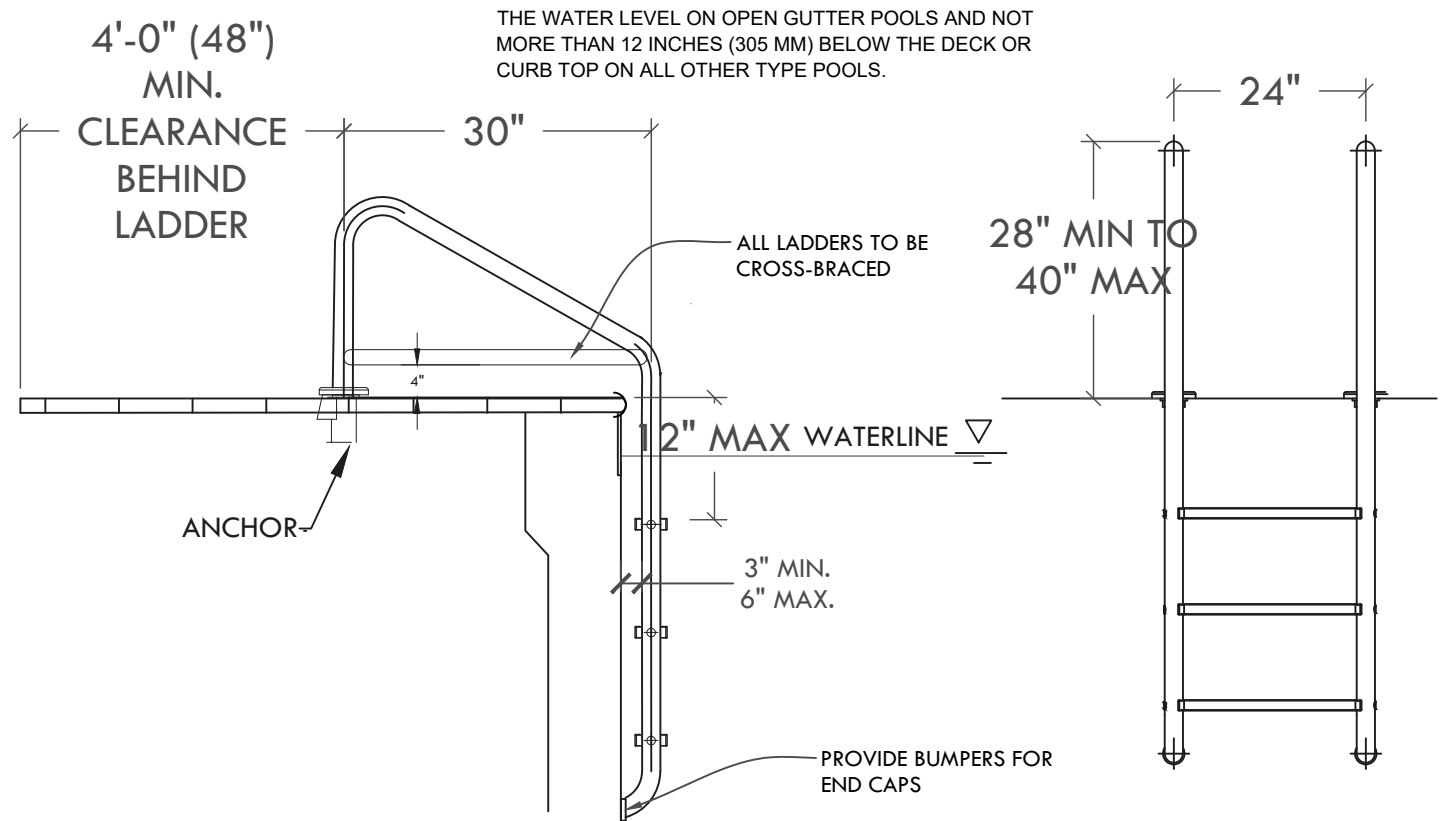
SCALE: N.T.S.



DEPTH MARKER DETAIL

SECTION

SCALE: N.T.S.

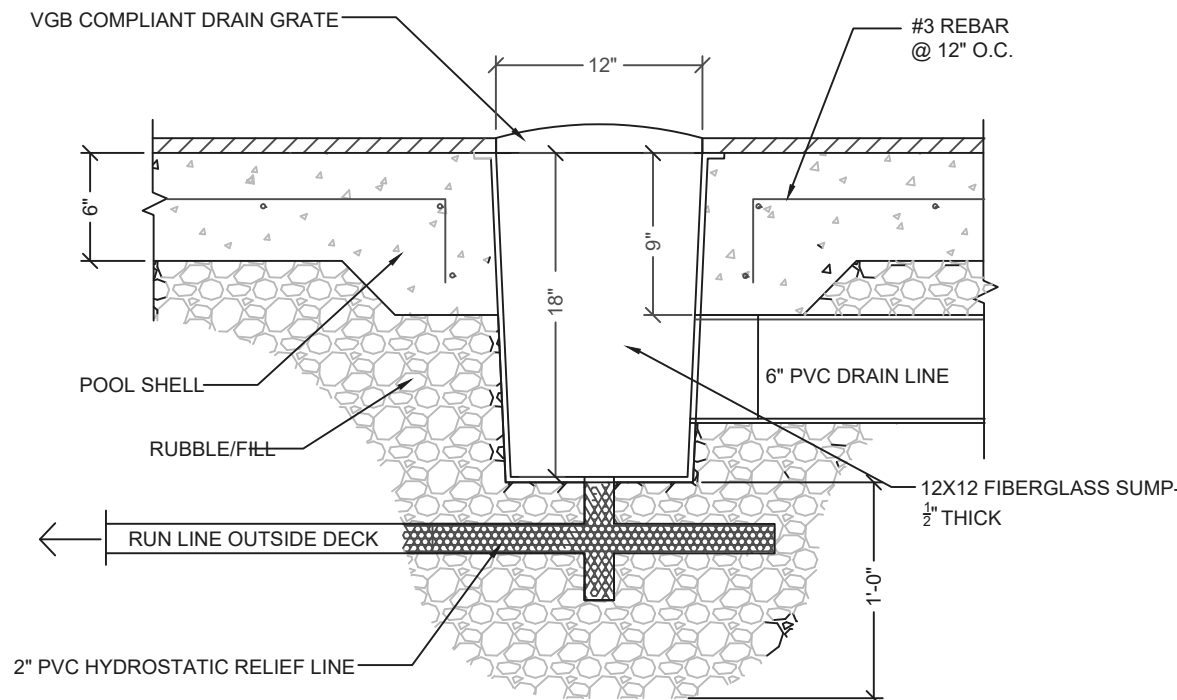


CUSTOM LADDER: SR SMITH CUSTOM, STAINLESS STEEL
TREAD: 6" MAX. FROM WALL, 3" MIN. FROM WALL
CROSS BRACED, SLIP-RESISTANT TREADS, 28" MIN.
36" MAX. ABOVE DECK. FRAME, 1.90" OD X .065",
TYPE 304 STAINLESS STEEL, WITH WHITE RUBBER
BUMPERS. STEPS, ACRYLIC PLASTIC AND HAVE
SLIP-RESISTANT TOP SURFACE. ESCHUTEON
(#EP-100P) STAINLESS STEEL
ANCHOR ASSEMBLY: AS-100B (SEE SPEC SHEET FOR
SRS-90B)



SKIMMER STEEL & BEAM DETAIL

SCALE: N.T.S.



LADDER DETAIL

SECTION

SCALE: N.T.S.

PORTABLE VAC SYSTEM

SECTION

SCALE: N.T.S.

MAIN DRAIN DETAIL

SECTION

SCALE: N.T.S.

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For: QUALITY POOLS

DREAMIN N DRIFTIN RV
AMENITY POOL

POOL DETAILS

REV.	DESCRIPTION	DATE

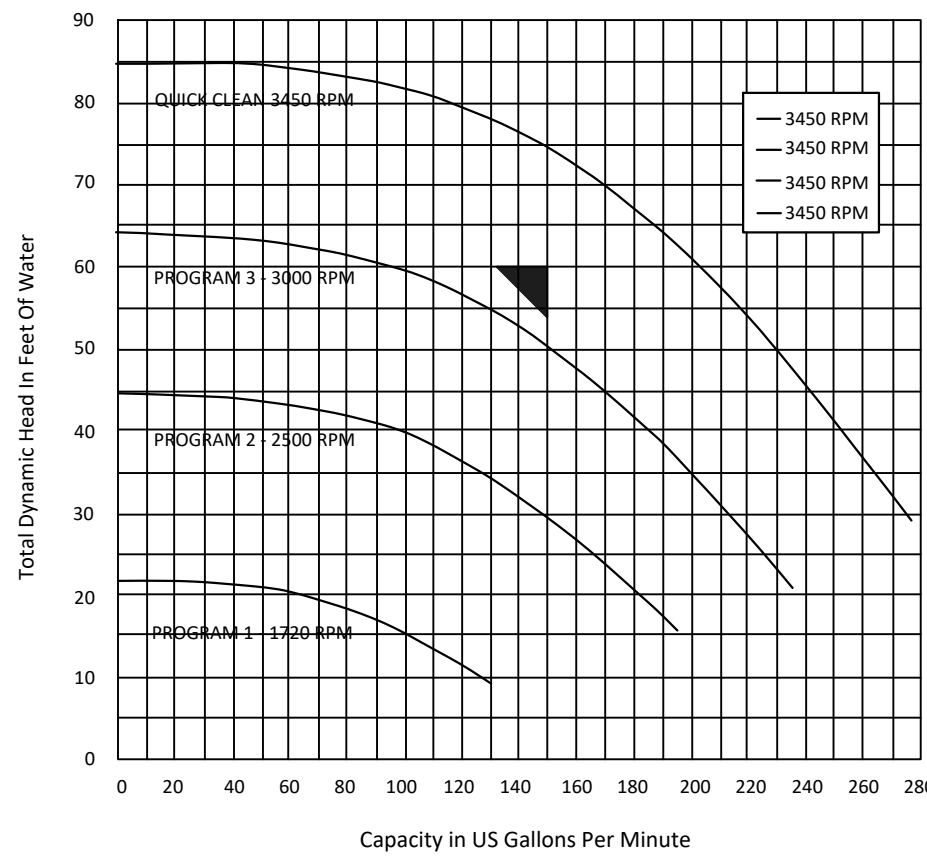
DRAWN	CHECKED
JP	SAL
DATE	SCALE
4-3-2024	AS SHOWN
GCE PROJECT #: 2024-03-0076	
SP - 5	SHEET 5 OF 8



POOL SECTIONS & PROFILES

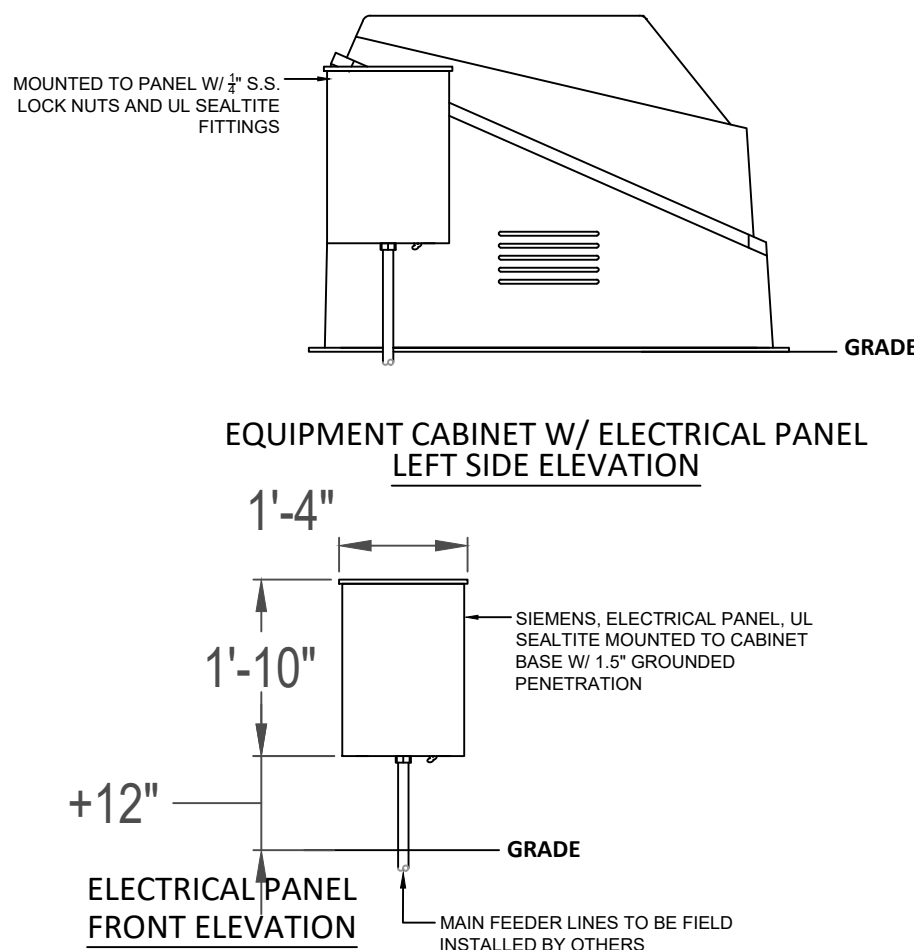
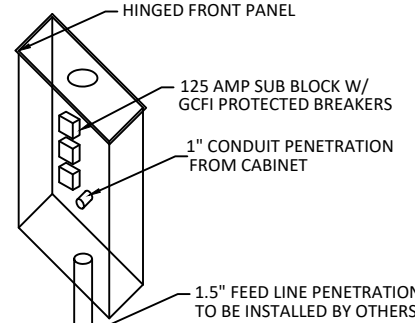
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PROFORMANCE CURVES-MAX-E-PRO XF VS COMMERCIAL PUMP

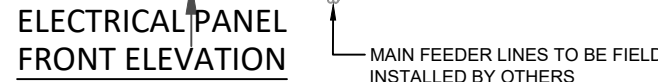


RECIRCULATION PUMP CURVE

ELECTRICAL PANEL ISOMETRIC

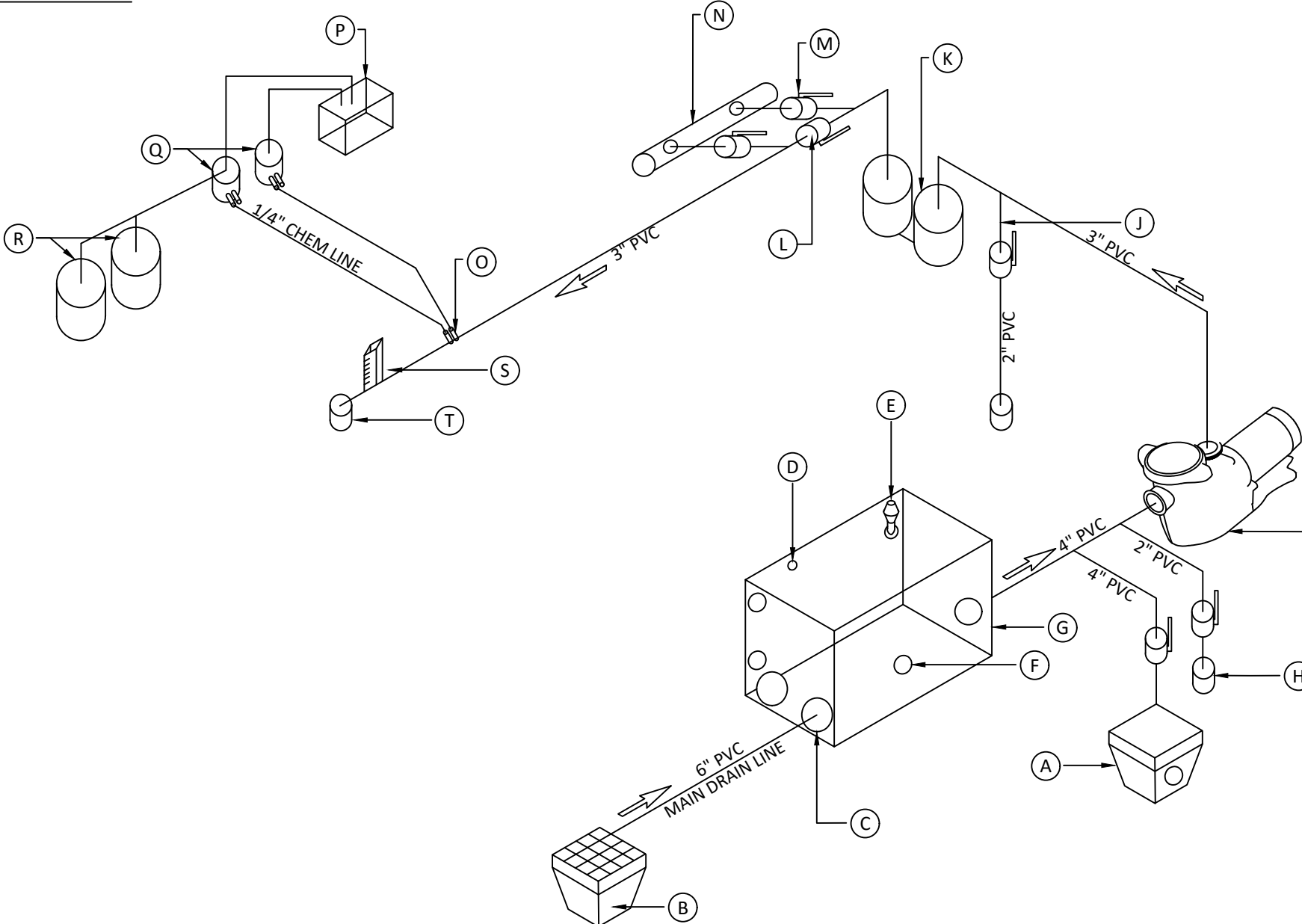


ELECTRICAL PANEL FRONT ELEVATION

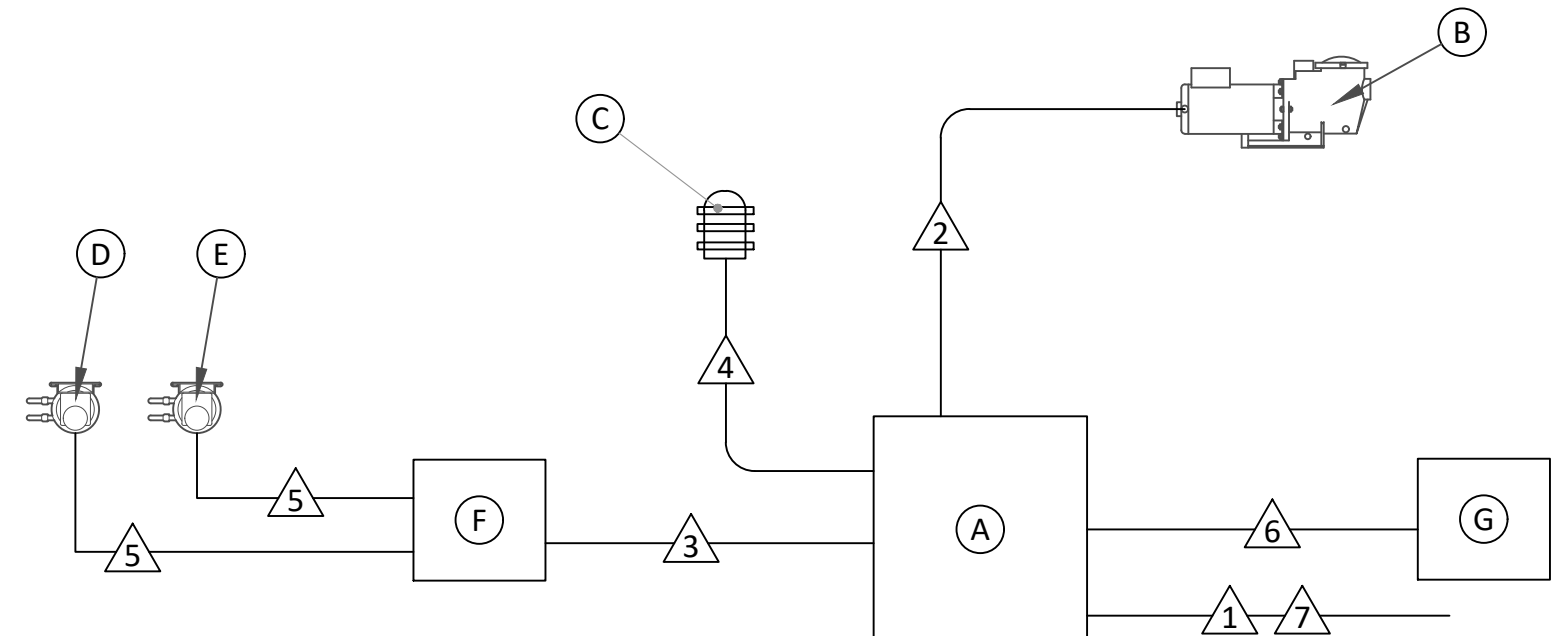


ISOMETRIC RISER DIAGRAM KEY

A	POOL SKIMMER (TYP)
B	MAIN DRAIN FROM POOL
C	INDIVIDUALLY VALVED GRAVITY LINES
D	1" FRESH WATER INLET TO TANK
E	2" OVERFLOW WITH CHECK VALVE
F	2" STATIC LINE
G	250 GALLON COLLECTOR TANK
H	2" TANK DRAIN
I	RECIRCULATION PUMP
J	2" PUMP TO WASTE
K	CARTRIDGE FILTER (2)
L	3" BALL VALVE BYPASS
M	2" BALL VALVE (TYP OF 4)
N	HEATER (OPTIONAL)
O	CHEMICAL INJECTION POINTS
P	AUTOMATED CHEMISTRY CONTROLLER (REQUIRED)
Q	LIQUID CHLORINE & ACID STENNERS
R	CHEMICAL RESERVOIR
S	3" FLOWMETER
T	3" RECIRC RETURN TO POOL



PLUMBING RISER DIAGRAM ISOMETRIC (N.T.S.)



ELECTRICAL FEEDER & CIRCUIT DIAGRAM N.T.S.

FIXTURE SCHEDULE:

MARK	DESCRIPTION	VOLTAGE	MANUFACTURER & MODEL NO.
A	MAIN LUG BREAKER PANEL (16 CIRCUIT)	120/240V	SIEMENS, PW1624L1125CU
B	RECIRCULATION PUMP	230V	PENTAIR WHISPERFLO XF VS, 022035, 5 HP
C	100 WATT SERVICE LIGHT FIXTURE	115V	INTERMATIC, VPKG11GCI 100W
D	CHLORINE FEEDER PUMP	115V	STENNER, 45M5
E	ACID FEEDER PUMP	115V	STENNER, 45M2
F	GFI	115V	PASS & SEYMOUR
G	GFI	115V	PASS & SEYMOUR

ELECTRICAL NOTES:

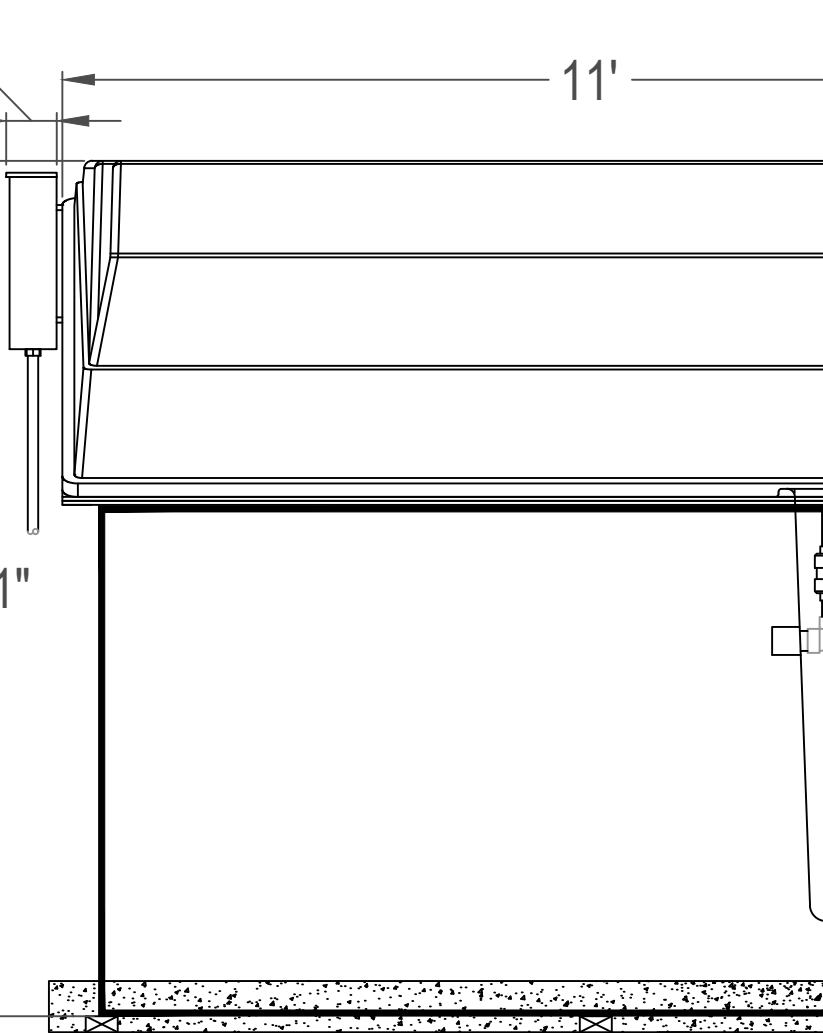
- All pool pumps and breakers to be GFCI protected.
- Feeders to be wired with failure proof interlock with the recirculation pump.
- Electrical Contractor shall verify sizes, phases, Voltages, and all electrical specifications.
- Wiring methods shall be done per NEC 680.14(b) Corrosive Environment.
- All Electrical Equipment shall comply & installed according to NEC 680.4, 110.3(b).
- See plans prepared by Electrical Engineer for additional details.
- Contact Electrical Engineer with any questions regarding the electrical design.

FEEDER & CIRCUIT SCHEDULE:

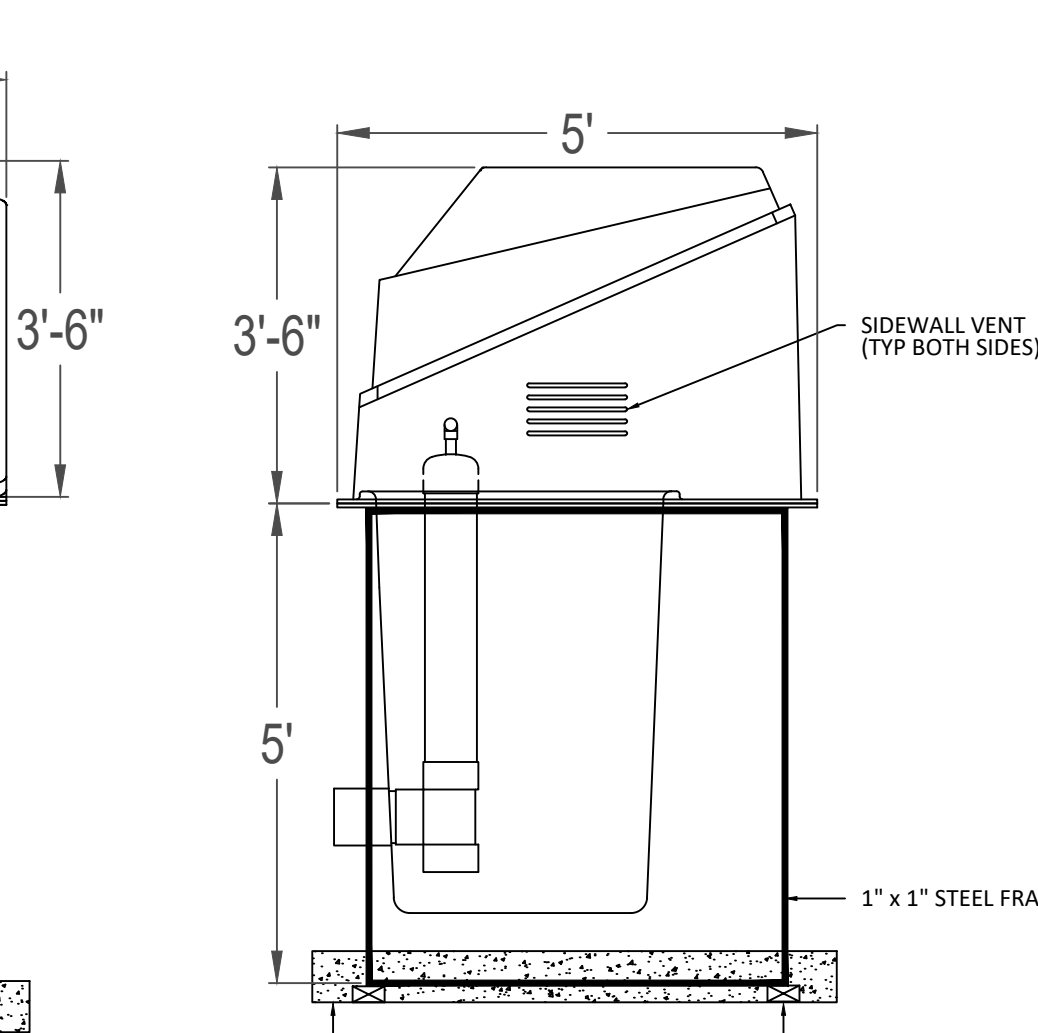
MARK	PHASE	CONDUCTORS NEUTRAL	GROUND	CONDUIT	REMARKS
1					PANEL FEED
2	2 - #8		1 - #8	1/2"	UL SEALTITE
3	1 - #12	1 - #12	1 - #12	1/2"	SEALTITE TO PANEL
4	1 - #12	1 - #12	1 - #12	1/2"	SEALTITE TO LIGHT
5	1 - #12	1 - #12	1 - #12	1/2"	SEALTITE TO PANEL
6	1 - #12	1 - #12	1 - #12	1/2"	SEALTITE TO PANEL
7	CONDUCTORS AND CONDUIT INSTALLED BY OTHERS				

PANEL SCHEDULE:

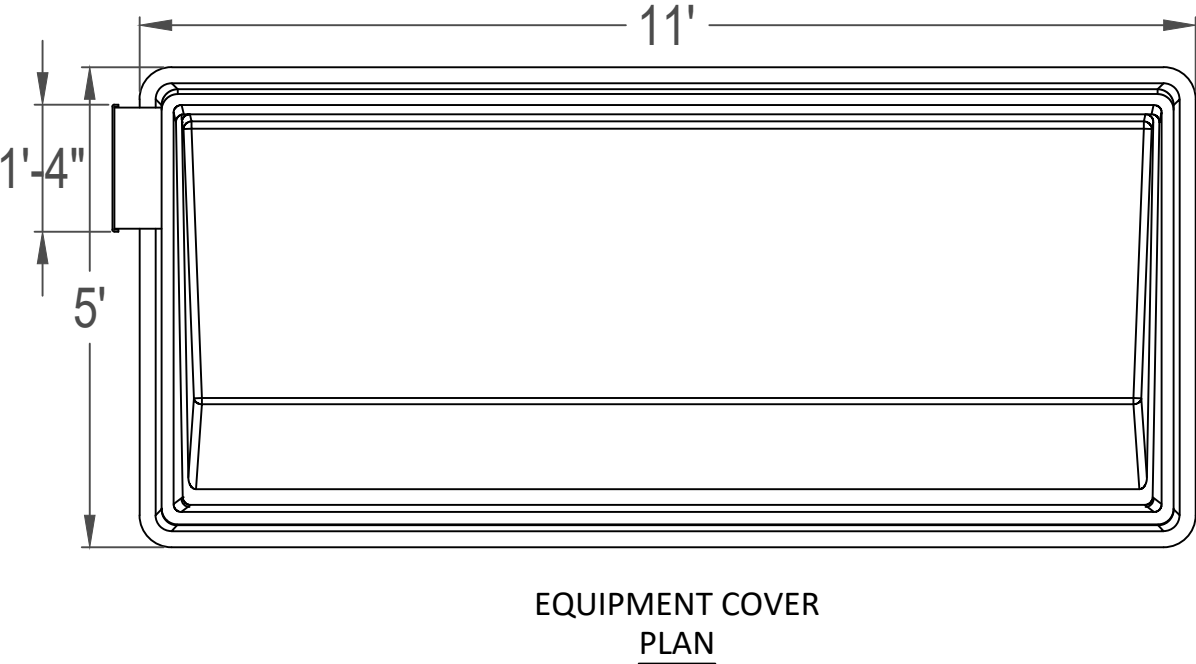
SINGLE PHASE, 3-WIRE -- 208Y/120 VAC OR 240 VAC INSULATED/BONDABLE NEUTRAL					
CURRENT WITHSTAND RATING MAX. RMS. SYM. 10,000A 12/240V					
CIRCUIT	POLE	TRIP	LOAD	AMPS	
1-2	2	40A GFI	RECIRC. PUMP W/ (2) INTERLOCKED CHEM. CONT	25.4	
3	1	20A	SERVICE LIGHT	1.5	
4	1	20A	GFCI	3.0	
5-20			SPARE		
TOTAL MAXIMUM LOAD				29.9	



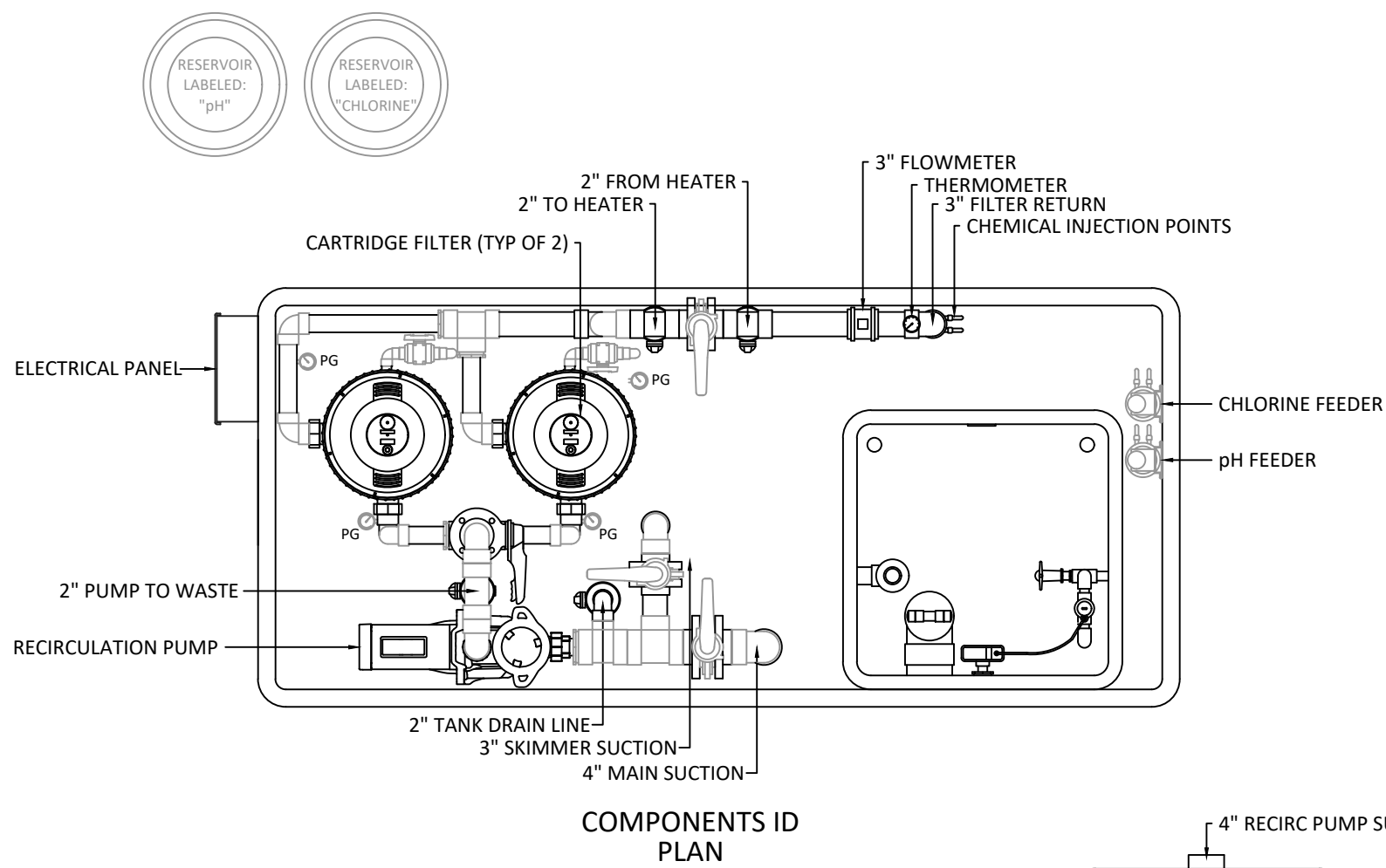
EQUIPMENT COVER FRONT ELEVATION



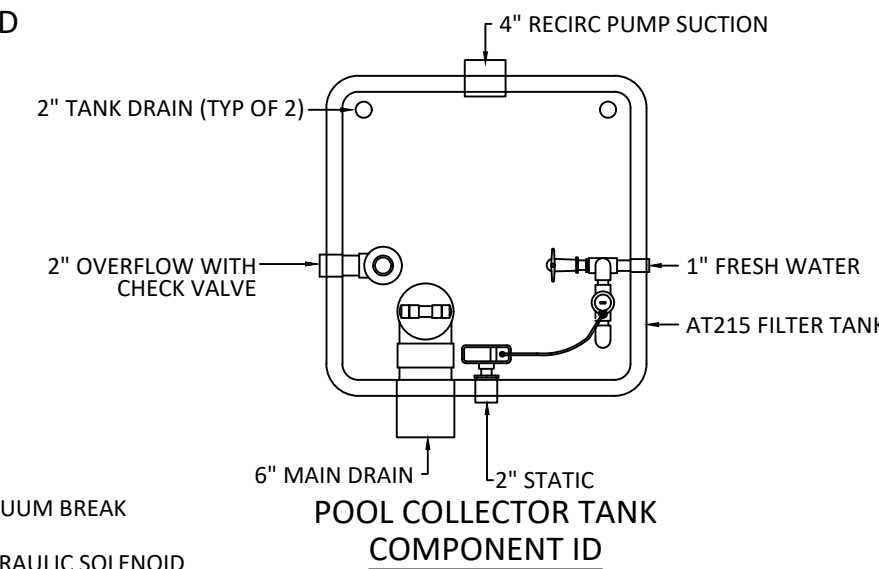
EQUIPMENT COVER SIDE ELEVATION



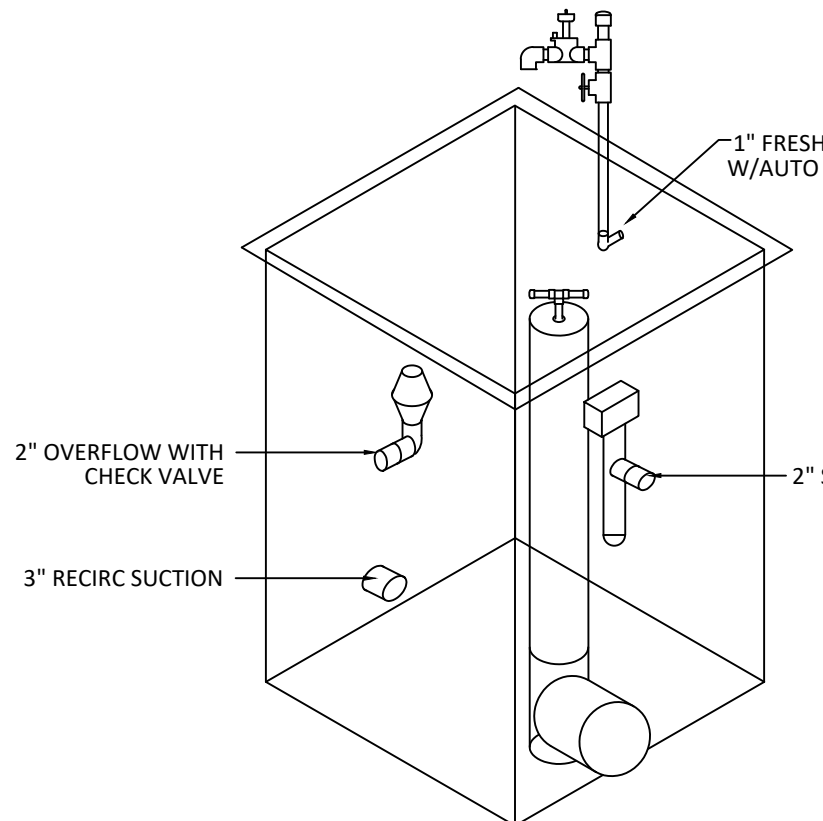
EQUIPMENT COVER PLAN



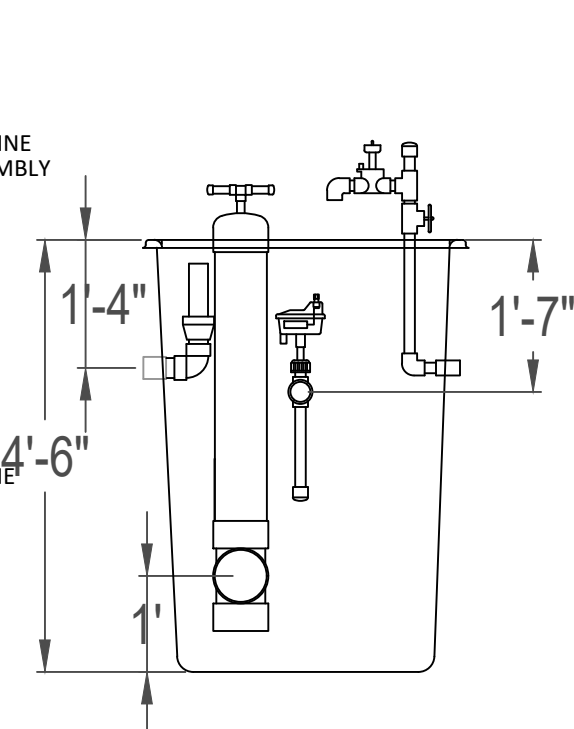
COMPONENTS ID PLAN



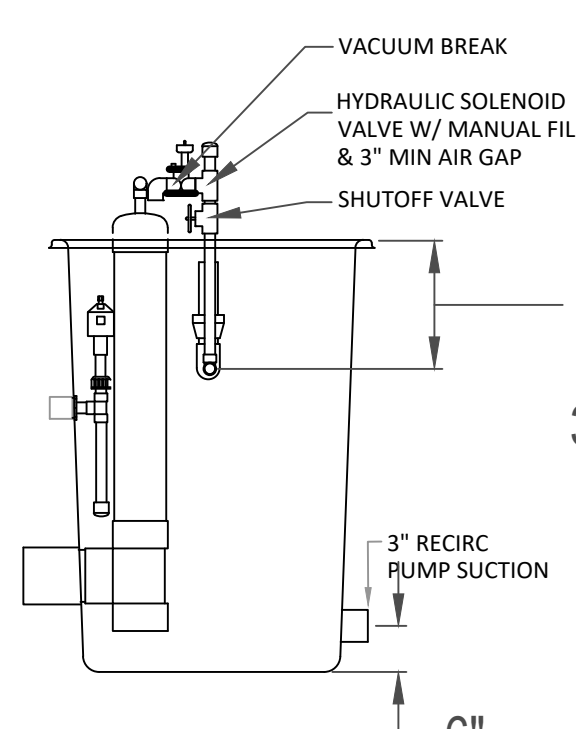
POOL COLLECTOR TANK COMPONENT ID



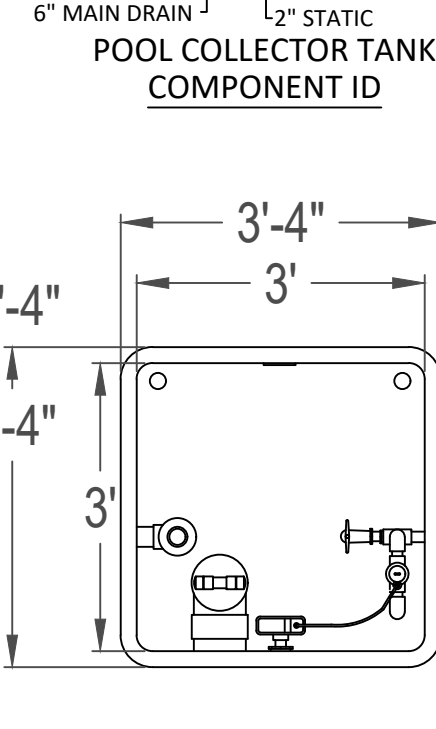
POOL COLLECTOR TANK ISOMETRIC



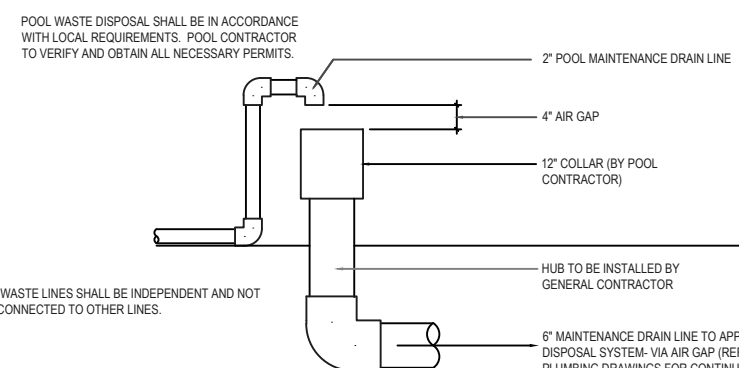
POOL COLLECTOR TANK FRONT ELEVATION



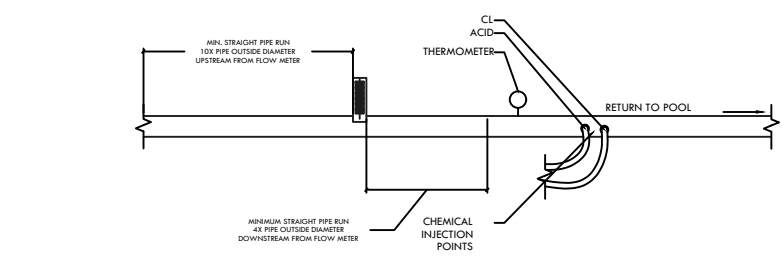
POOL COLLECTOR TANK SIDE ELEVATION



POOL COLLECTOR TANK PLAN



POOL MAINTENANCE DRAIN DETAIL SECTION



CHEMICAL INJECTION DETAIL SECTION

NOTES:

- PLUMBING - ALL PIPE & FITTINGS SHALL BE SCHEDULE 40 PVC PER ASTM D1785 AND N.S.F. APPROVED AND STAMPED FOR POTABLE WATER APPLICATIONS. JOINTS TO BE SOLVENT WELDED PER ASTM D2855. ALL PLUMBING AND MATERIALS TO CONFORM TO FLORIDA BUILDING CODE 2023 - EIGHTH EDITION.
- ELECTRICAL - ALL ELECTRICAL EQUIPMENT WIRING, INSTALLATION AND GROUNDINGS OF POOL COMPONENTS SHALL CONFORM TO NATIONAL FIRE PROTECTION ASSOC. 70, NATIONAL ELECTRICAL CODE (N.E.C.) LATEST EDITION AND ALL APPLICABLE LOCAL CODES. CHEMICAL FEED PUMPS TO BE INTERLOCKED WITH THE RECIRCULATION PUMP.
- EQUIPMENT - ALL PUMPS, FILTERS AND DISINFECTION EQUIPMENT SHALL BE TESTED AND APPROVED BY THE PERTINENT MANUFACTURER USING THE NSF/ANSI STANDARD 50 AND LISTED AS APPROVED BY THE NSF.
- THE FILTER ROOM FLOOR IS SLIP RESISTANT AND SLOPED TO FLOOR DRAIN.
- ALL PLASTIC PIPING SUBJECT TO PROLONGED SUNLIGHT EXPOSURE MUST BE COATED TO PROTECT IF FROM ULTRAVIOLET LIGHT DEGRADATION.
- EACH WASTE LINE SHALL HAVE A UNIQUE AIR GAP. WASTE LINES FROM DIFFERENT SOURCES (E.G. POOL, SPA, OVERFLOW, SUMP PUMP) SHALL NOT BE TIED TOGETHER BUT MAY DISCHARGE INTO A COMMON SUMP OR RECEPTACLE.
- THE WASTE LINE MUST BE CONNECTED TO AN APPROVED WASTE DISPOSAL SYSTEM ACCORDING TO LOCAL OR STATE CODES.
- ALL COLLECTOR TANKS SHALL HAVE COVER INTERSECTIONS AND SLOPE TO THE TANK DRAIN.
- AN AUTOMATIC AND MANUAL WATER MAKEUP CONTROL MUST BE PROVIDED TO MAINTAIN THE WATER LEVEL AT THE UP OF THE OVERFLOW GUTTER OR AT THE MOUTH OF THE RECESSED AUTOMATIC SKIMMERS AND MUST DISCHARGE THROUGH AN AIR GAP INTO A FILL PIPE OR COLLECTOR TANK. OVER THE RIM FILL SPOUTS ARE PROHIBITED.
- A RATE OF FLOW INDICATOR, READING IN GPM, SHALL BE INSTALLED ON THE FILTER RETURN LINE. THE RATE OF FLOW INDICATOR SHALL BE PROPERLY SIZED FOR THE DESIGN FLOW RATE AND SHALL BE CAPABLE OF MEASURING FROM ONE HALF TO AT LEAST ONE-AND-ONE-HALF TIMES THE DESIGN FLOW RATE. THE CLEARANCES UPSTREAM AND DOWNSTREAM FROM THE RATE OF FLOW INDICATOR SHALL COMPLY WITH THE MANUFACTURER'S INSTALLATION SPECIFICATIONS.
- THESE PLANS HAVE BEEN PREPARED IN COMPLIANCE WITH THE 2023 FLORIDA BUILDING CODE - EIGHTH EDITION

PIPE AND VALVES CHART

LINE FUNCTION	SIZE
MAIN DRAIN	6"
SKIMMER SUCTION	4"
STATIC LINE	2"
FRESH WATER FILL	1"
OVERFLOW	2"
RECIRCULATION PUMP SUCTION	4"
RECIRCULATION RETURN	3"
TANK DRAIN LINE	2"
PUMP TO WASTE	2"
TO HEATER	2"
FROM HEATER	2"

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

AQUATIC ENGINEERING CONSULTANTS
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SAMUEL A. LIBERATORE, P.E.
#55740

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For: QUALITY POOLS

DREAMIN N DRIFTIN RV
AMENITY POOL

POOL EQUIPMENT DETAILS

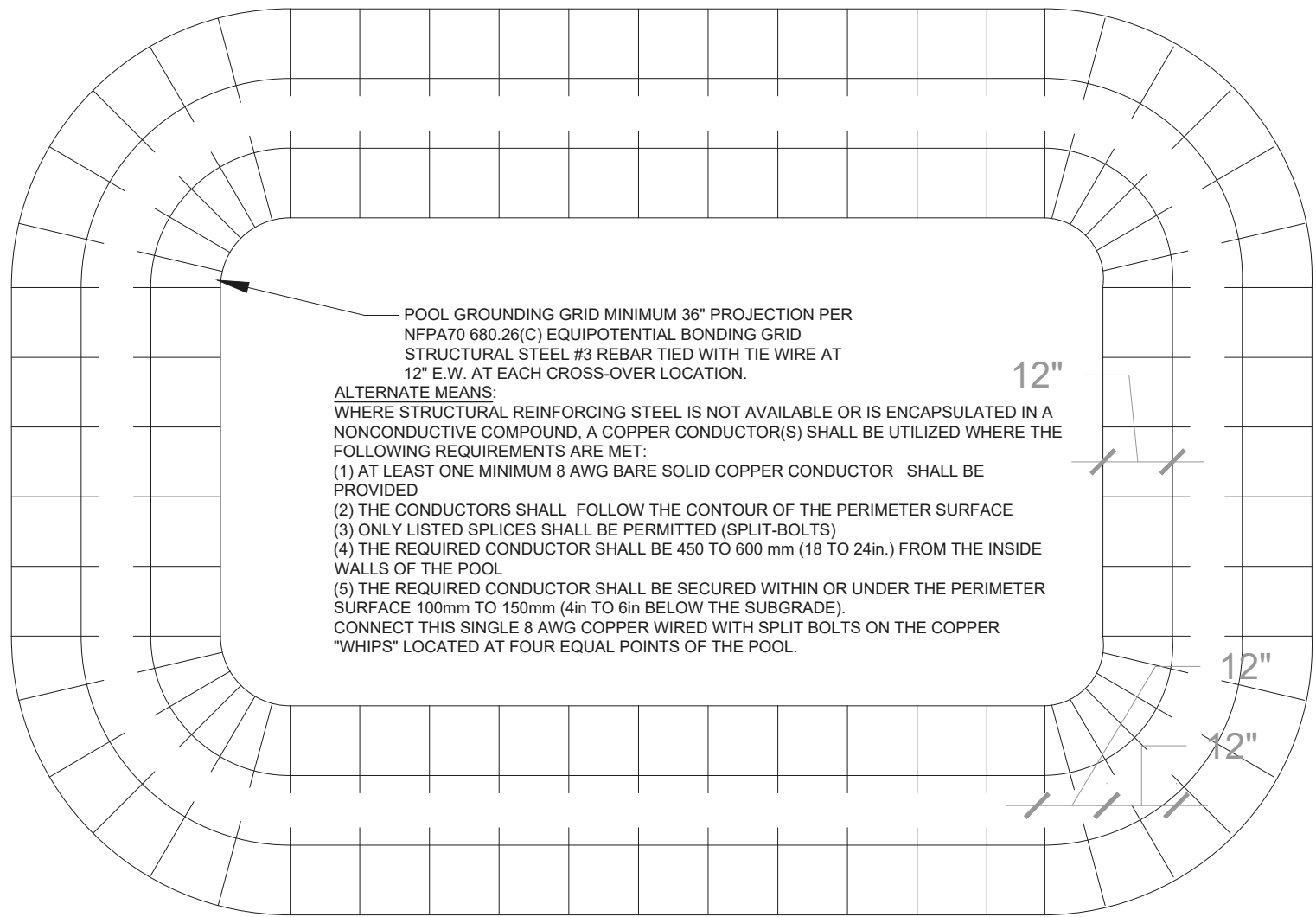
REV.	DESCRIPTION	DATE

DRAWN	CHECKED
JP	SAL
DATE	SCALE
4-3-2024	As SHOWN
GCE PROJECT #: 2024-03-0076	
SP - 8	SHEET 8 OF 8

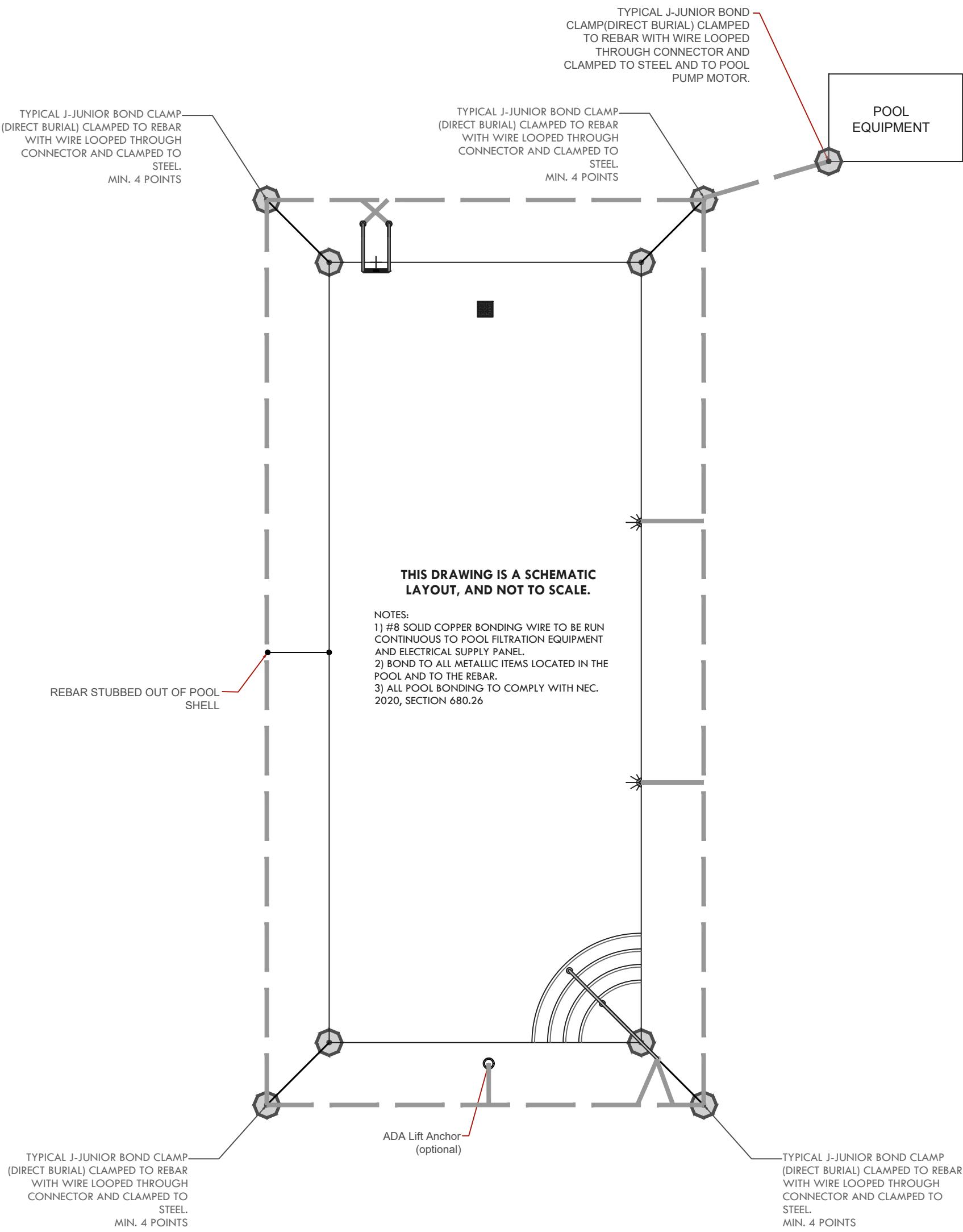


10601 OAK STREET N.E.
ST. PETERSBURG, FL 33716
(888) 426-8511

AWPC150
150 GPM PRESSURE CARTRIDGE POOL FILTER



Pool Equipotential Grid Requirement
Scale: Not to scale



Pool Bonding Plan
Scale: Not to scale

SECTION I. Installing light fixture
during new pool construction.

A. Preparatory steps which must be completed by the electrician before light fixture is installed.

1. Verify that the pool meets the current requirements of the National Electric Code and all local codes and ordinances. A licensed or certified electrician must install the electrical system to meet or exceed those requirements before the underwater light is installed. Some of the requirements of the National Electric Code which the pools electrical system must meet are listed below.

a. The lighting circuit must have a Ground Fault Circuit Interceptor (GFCI), and an appropriately rated circuit breaker.

b. The Junction Box, or for the 12 volt models, the low voltage transformer, must be located at least 8 inches above water level, 4 inches above ground level, and at least 48 inches from the edge of the pool.

c. The light fixture and all metal items within 5 feet of the pool must be properly electrically bonded.

d. The wet niche must be properly installed so that the top edge of the lens on the underwater light is at least 18 inches below the surface of the water in the pool.

e. The wet niche must be properly electrically bonded and grounded via the No. 8 AWG ground connector located at the rear of the nice.

2. To be certain that the pools electrical system meets all applicable requirements, the electrician should also consult the local building department.

3. Use only Pentair Pool Products wet niches to insure proper bonding and grounding connections.

B. Steps to perform after the electrical system requirements are met.

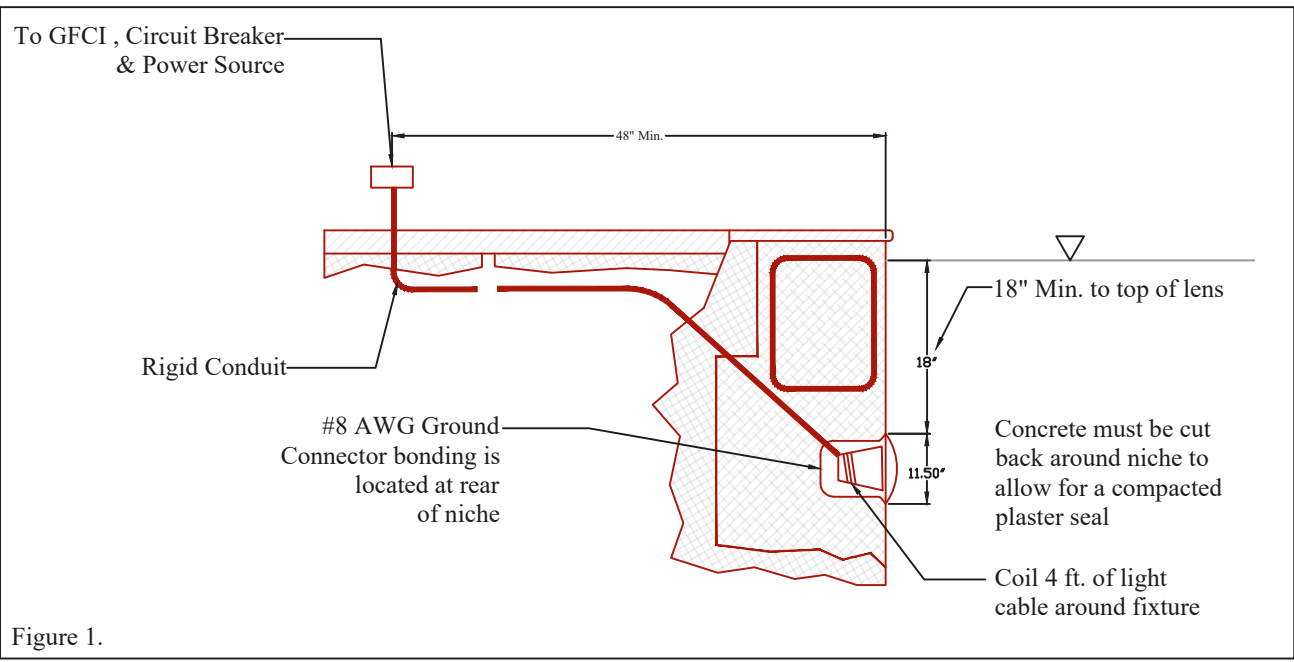
1. Feed cord through conduit to Junction Box, leaving at least 4 feet of cord at the light fixture to coil around the light. This 4 feet of cord around the light allows the light to be serviced after this pool is filled with water.

2. Cut the cord at the Junction Box, leaving at least 6 inches of cord to make connections.

3. Strip 6 inches of the outer cord jacket to expose the three insulated wires. Be careful not to damage the insulation on the three inner wires.

4. Connect all three wires to the corresponding circuit wires in the Junction Box (black wire to power, white wire to common, and green wire to ground) and secure the Junction Box cover in place.

5. Replace the light assembly into niche and tighten special pilot screw.



NOTE:
The pool or spa electrical system can be verified with a Pool and Spa Electrical Qualification Test Kit. The test kit is available from Pentair Pool Products. The electrical system inspection using this kit must be performed by a trained and certified personnel

WARNING:
Never operate this underwater light for more than 10 seconds unless it is totally submerged in water. Without total submersion, the light assembly will get extremely hot, which may result in serious burns or breakage of the lamp or lens. This may result in serious injury to pool users, installers, or bystanders, or in damage to property.

TECHNICAL NOTES
-680.26 Equipotential Bonding* (Summarized)

(A) **Performance.** Equipotential bonding is intended to reduce voltage gradients in the area around permanently installed pools, outdoor spas, or outdoor hot tubs by the use of a common bonding grid in accordance with 680.26(B) and (C).

(B) **Bonded Parts.** The parts of a permanently installed pool, outdoor spa, or outdoor hot tub listed in (B)(1) through (B)(7) shall be bonded together with a solid copper conductor not smaller than 8 AWG with listed pressure connectors, terminal bars, exothermic welding, or other listed means [250.8(A)]. Equipotential bonding is not required to extend to or be attached to any panelboard, service equipment, or grounding electrode.

(1) **Conductive Pool, Outdoor Spa, and Outdoor Hot Tub Shells.**

(a) Structural Reinforcing Steel. Unencapsulated structural reinforcing steel secured together by steel tie wires is considered bonded.

(2) **Perimeter Surfaces.** An equipotential bonding grid shall extend 3 ft horizontally beyond the inside walls of a pool, outdoor spa, or outdoor hot tub, including unpaved, paved, and poured concrete surfaces. The bonding grid shall comply with (a) or (b) and be attached to the conductive pool reinforcing steel at a minimum of four points uniformly spaced around the perimeter of the walls of a pool, outdoor spa, or outdoor hot tub.

(a) Structural Reinforcing Steel. Structural reinforcing steel [680.26(B)(1)(a)]. *Author's Comment:* The 2017 NEC does not provide any guidance on the installation requirements for structural reinforcing steel when used as a perimeter equipotential bonding grid.

(b) Alternate Means. Equipotential bonding conductor meeting the following:

- 1) 8 AWG bare solid copper bonding conductor.
- 2) The bonding conductor shall follow the contour of the perimeter surface.
- 3) Listed splicing devices.
- 4) Bonding conductor shall be 18 to 24 in. from the inside walls of the pool.
- 5) Bonding conductor shall be secured within or under the perimeter surface 4 to 6 in. below the subgrade.

(3) **Metallic Components.** Metallic parts of the pool, outdoor spa, or outdoor hot tub structure shall be bonded to the equipotential grid.

(4) **Underwater Metal Forming Shells.** Metal forming shells and mounting brackets for luminaires and speakers shall be bonded to the equipotential grid.

(5) **Metal Fittings.** Metal fittings sized 4 in. and larger that penetrate into the pool, outdoor spa, or outdoor hot tub structure, such as ladders and handrails shall be bonded to the equipotential grid.

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For: QUALITY POOLS

DREAMIN N DRIFTIN RV
AMENITY POOL

POOL BONDING PLAN

REV.	DESCRIPTION	DATE

DRAWN	CHECKED
JP	SAL
DATE	SCALE
4-3-2024	AS SHOWN

GCE PROJECT #: 2024-03-0076

SP - 8 SHEET 8 OF 8

Note: All pool bonding to comply with Florida Building Code 2023 8th Edition & NEC 2020, Section 680.26