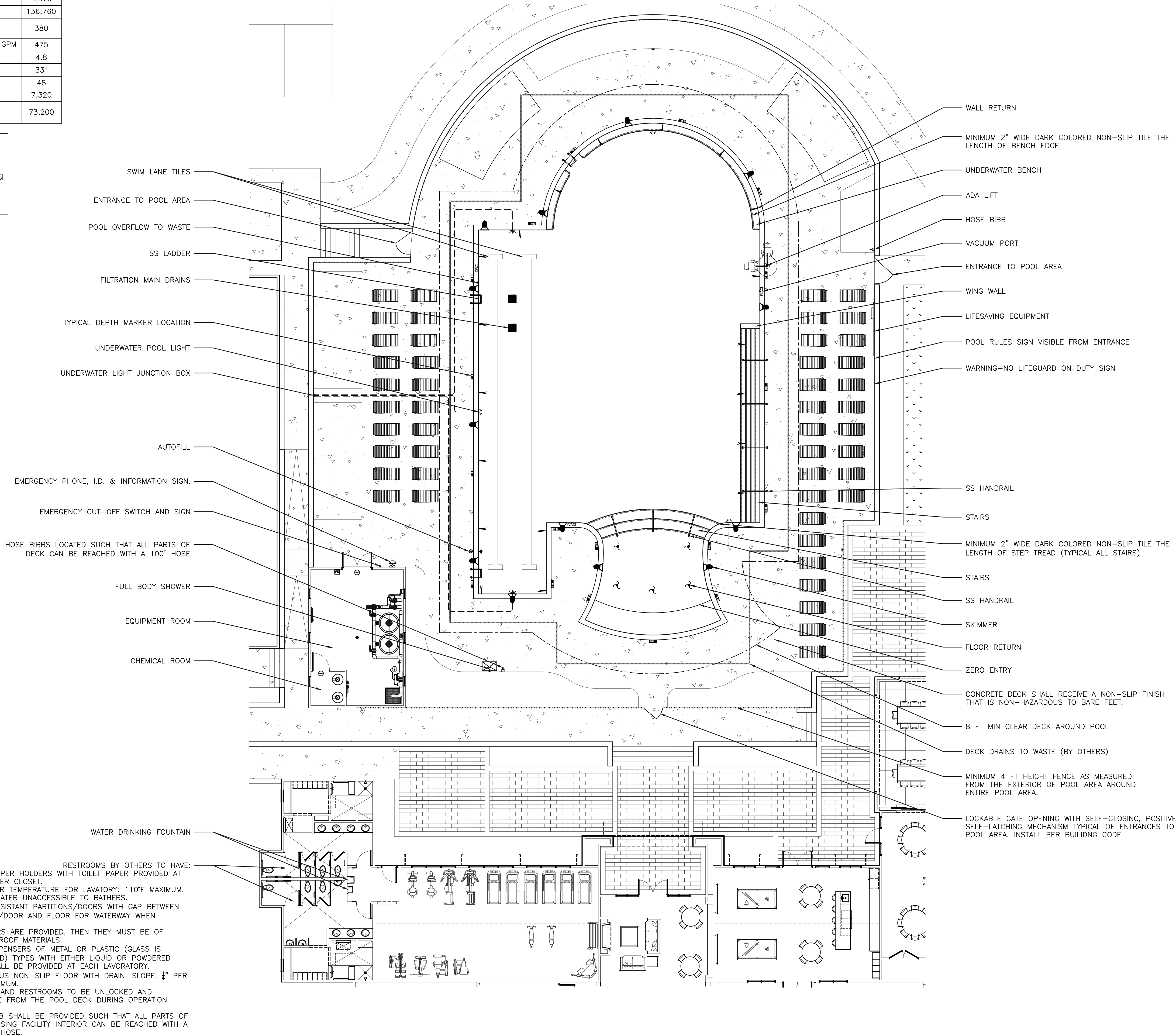


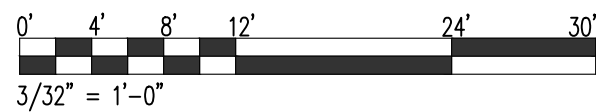
| OUTDOOR POOL DATA | |
|---|---------|
| NORTH CAROLINA POOL TYPE | PUBLIC |
| PERIMETER AT WATER'S EDGE, LN FT | 337 |
| WATER SURFACE AREA, SQUARE FEET | 4,979 |
| WATER VOLUME, GALLONS | 136,760 |
| POOL MINIMUM REQUIRED PUMP FLOW RATE 6 HR TURNOVER, GPM | 380 |
| DESIGN PUMP FLOW RATE @ 65 FEET TOTAL DYNAMIC HEAD, GPM | 475 |
| TURNOVER TIME, HOURS | 4.8 |
| POOL BATHER LIMIT, PERSONS | 331 |
| CHEMICAL STORAGE ROOM SIZE, MIN SQ FT | 48 |
| DECK AREA, SQUARE FEET | 7,320 |
| DECK LIGHTING IF NIGHT SWIMMING IS ALLOWED 10 FOOT CANDLES (10 LUMENS/SQ FT) | 73,200 |

- NOTE:
- POOL TO BE CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 18A.2500 AND ASME/ANSI A112.19.8-2007
 - SUCTION OUTLETS WILL BE INSTALLED IN ACCORDANCE WITH 3109.5 ENTRAPMENT AVOIDANCE AND ANSI/APSP-7 AND ICC/ANSI A117.1-2009
 - HANDICAP LIFT IS IN ACCORDANCE WITH NCBC CHAPTER 11 ACCESSIBILITY AND ICC/ANSI 117.1-209

NO NIGHT SWIMMING ALLOWED

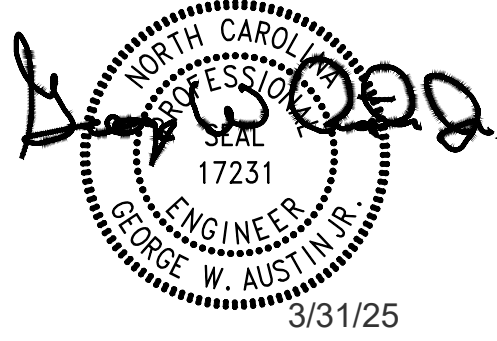


1 OVERALL LAYOUT
SP-1 SCALE: 3/32" = 1'-0"



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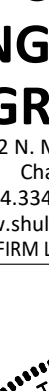

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POOL COVER SHEET

DATE: 01.21.25
DRAWN BY: TDE CHECKED BY: GWA
PROJECT ID: 1074

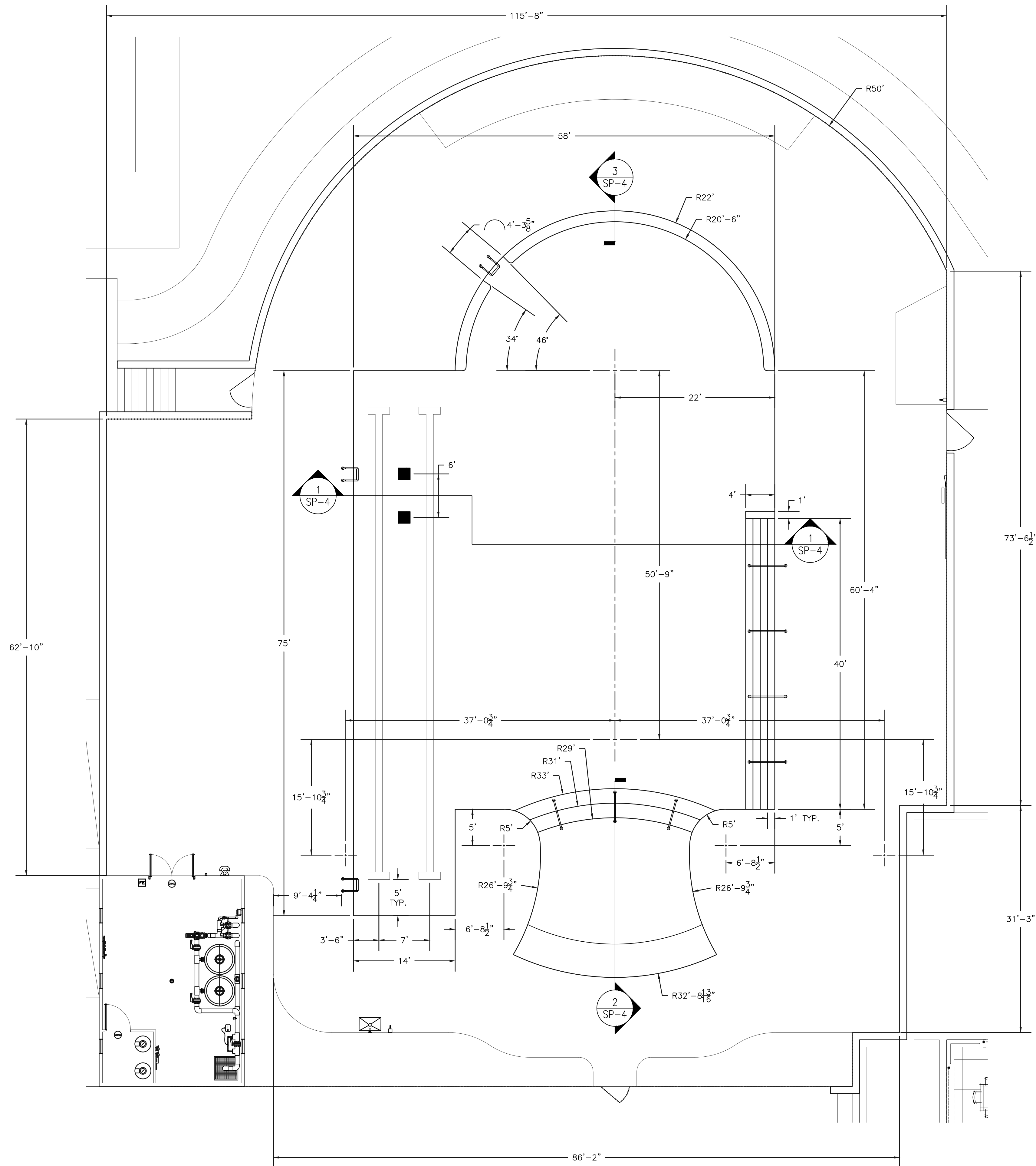
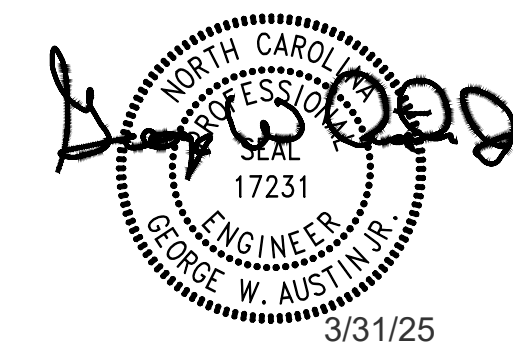
SP-1

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|---|------------------|-----------------|-----|--|
|  <i>George W. Austin II</i> 3/31/25 | | | | |
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| Altis Serenity Harnett, NC | | | | |
| POOL PARTS LIST & GENERAL SPECIFICATIONS | | | | |
| DATE: 01.21.25 | | | | |
| DRAWN BY: TDE | | CHECKED BY: GWA | | |
| PROJECT ID: 1074 | | | | |
| SP-2 | | | | |

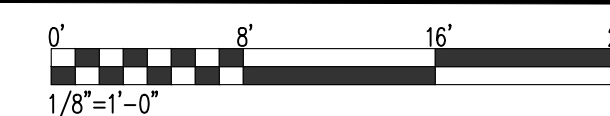


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1 POOL DIMENSIONS
SP-3 SCALE: 1/8" = 1'-0"



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POOL
DIMENSIONS

DATE: 01.21.25
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PROJECT ID: 1074

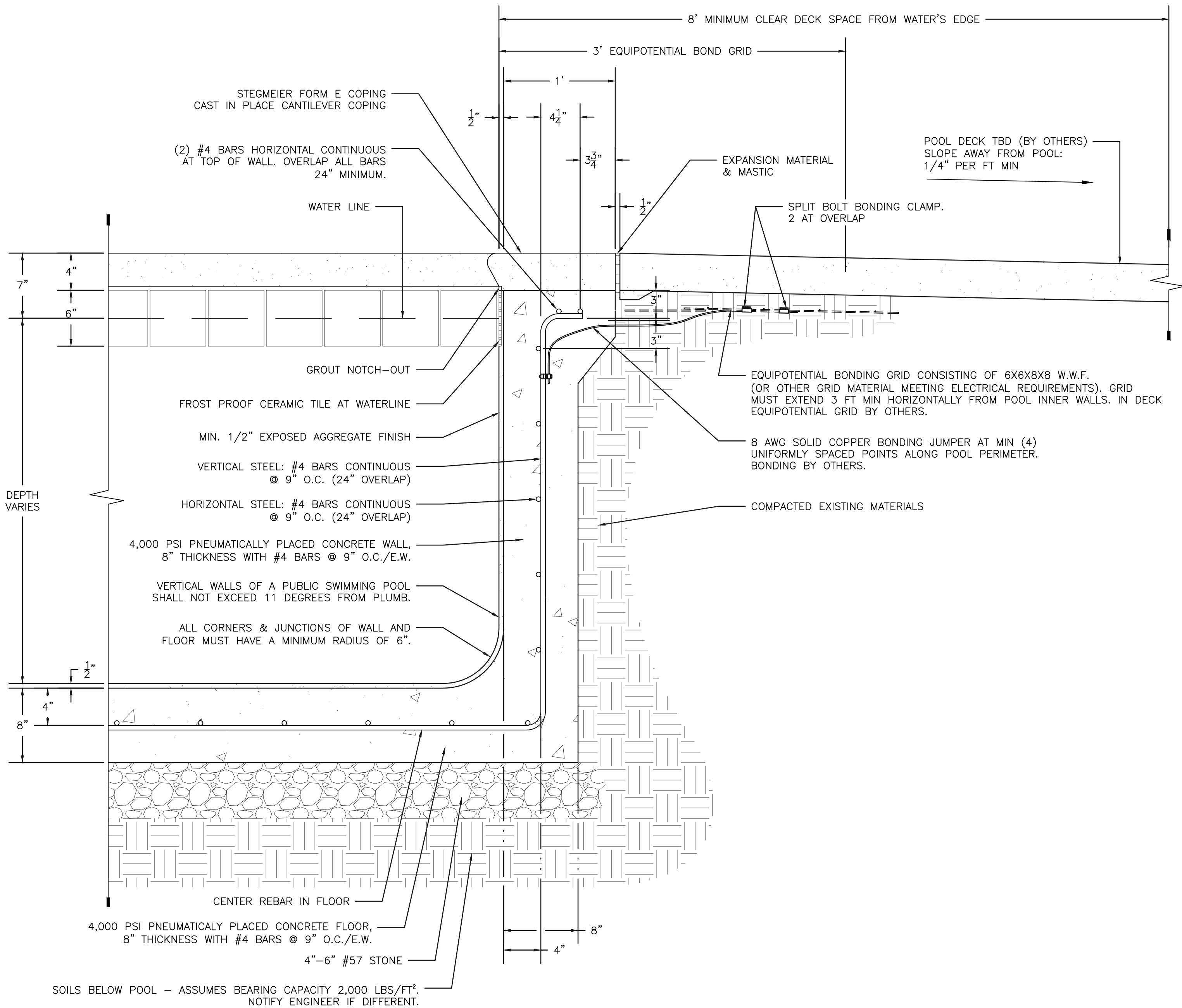
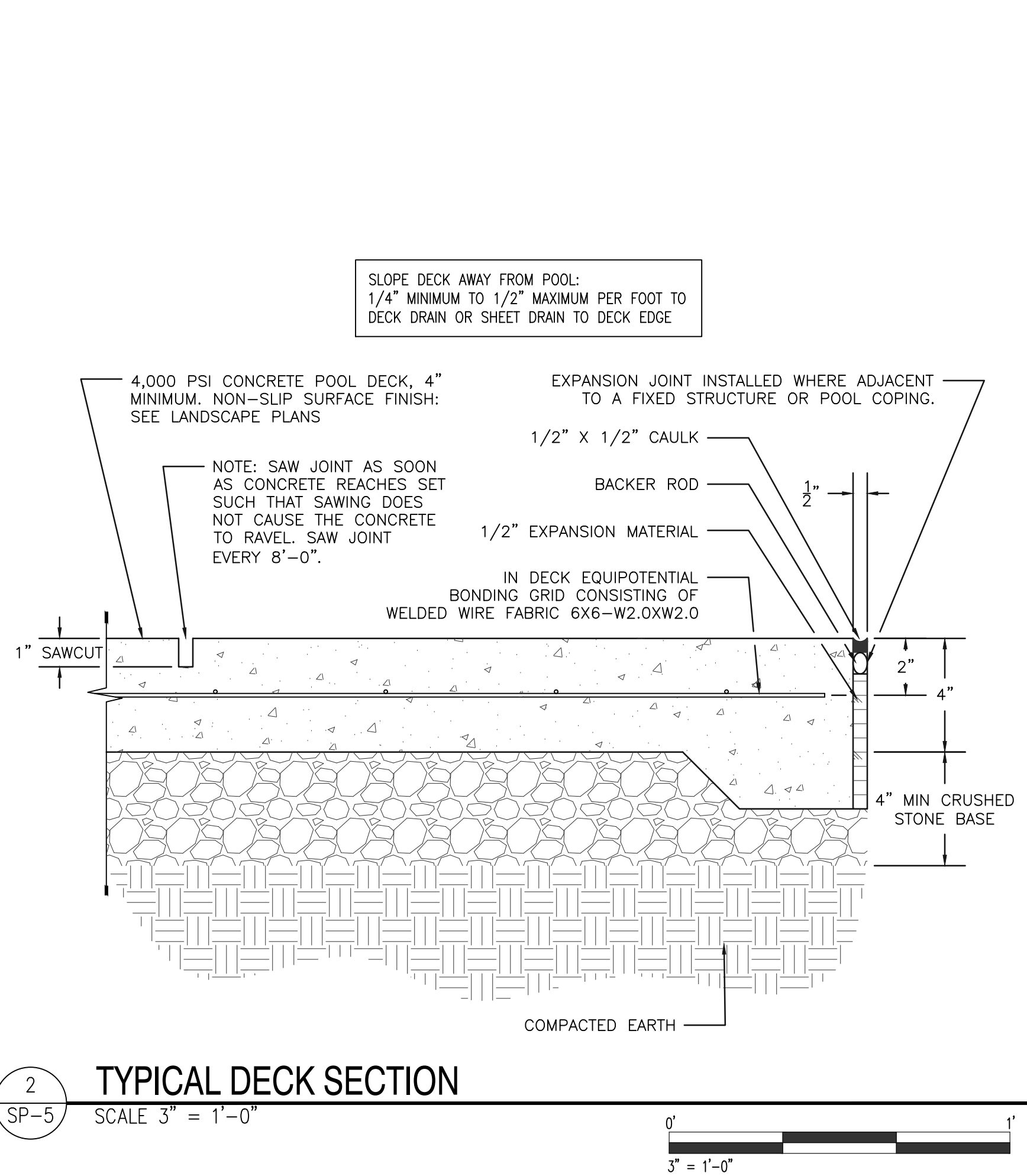
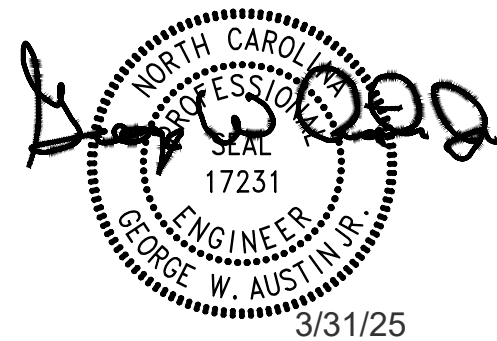
SP-3

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| Altis Serenity Harnett, NC | |
| POOL SECTIONS | |
| DATE: 01.21.25 | |
| DRAWN BY: TDE | CHECKED BY: GWA |
| PROJECT ID: 1074 | |
| SP-4 | |



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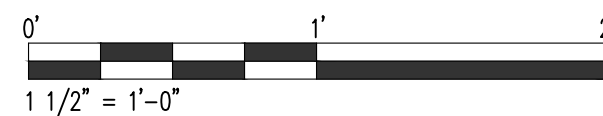
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1
SP-5

TYPICAL WALL DETAIL

SCALE 1 1/2" = 1'-0"



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POOL SECTIONS

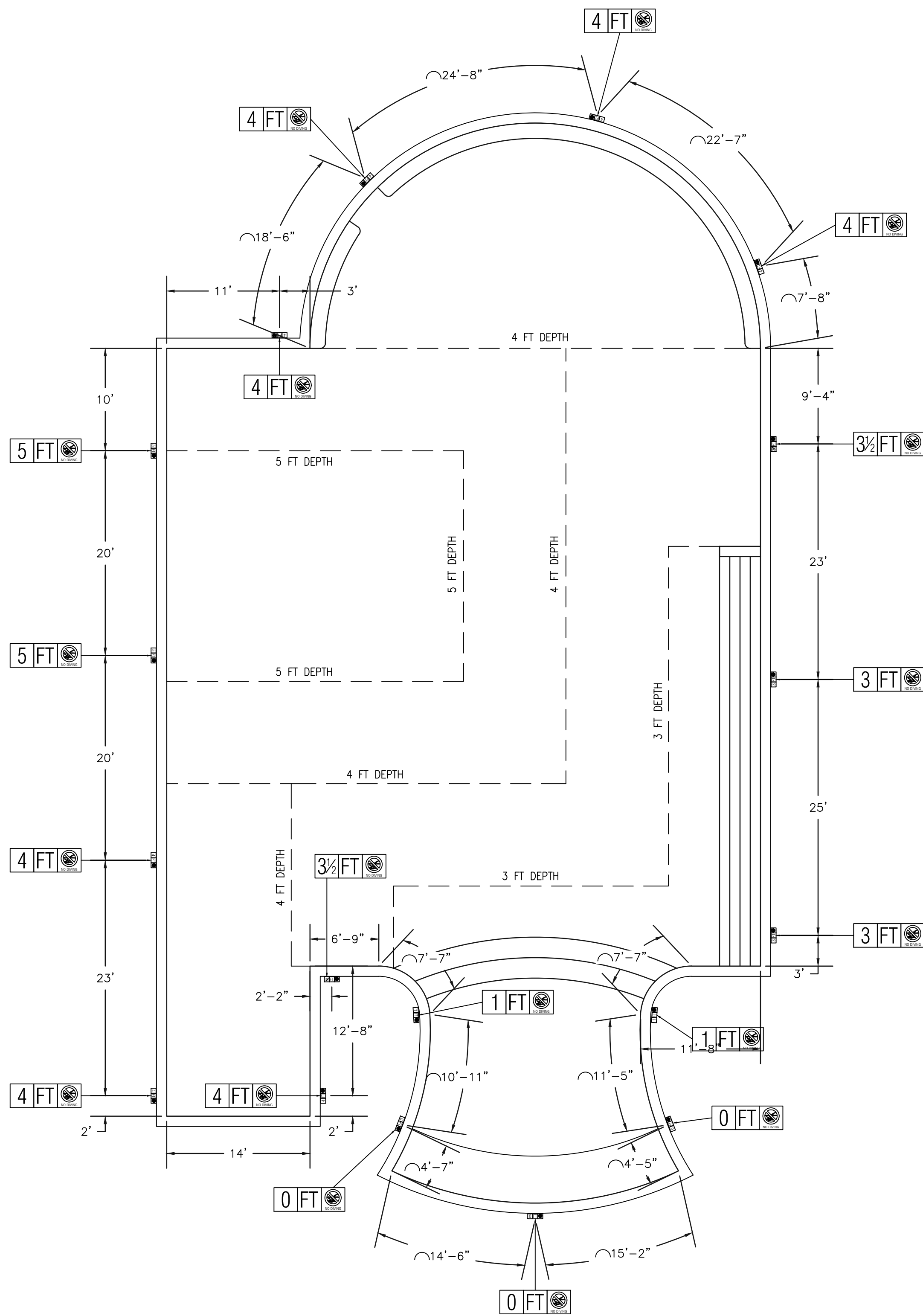
DATE: 01.21.25

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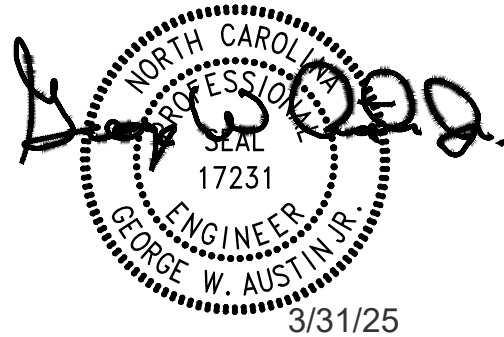
SP-5

NOTE:
DEPTH MARKERS MUST BE SPACED AT
NOT MORE THAN TWENTY FIVE (25) FEET
INTERVALS ON CENTER, AS MEASURED
AROUND THE PERIMETER OF THE POOL.



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POOL DEPTH
MARKERS

DATE: 01.21.25

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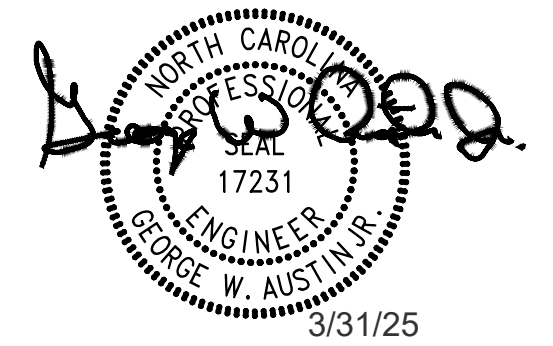
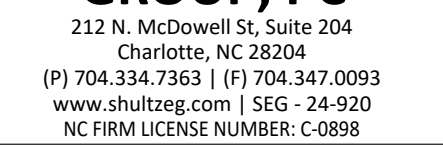
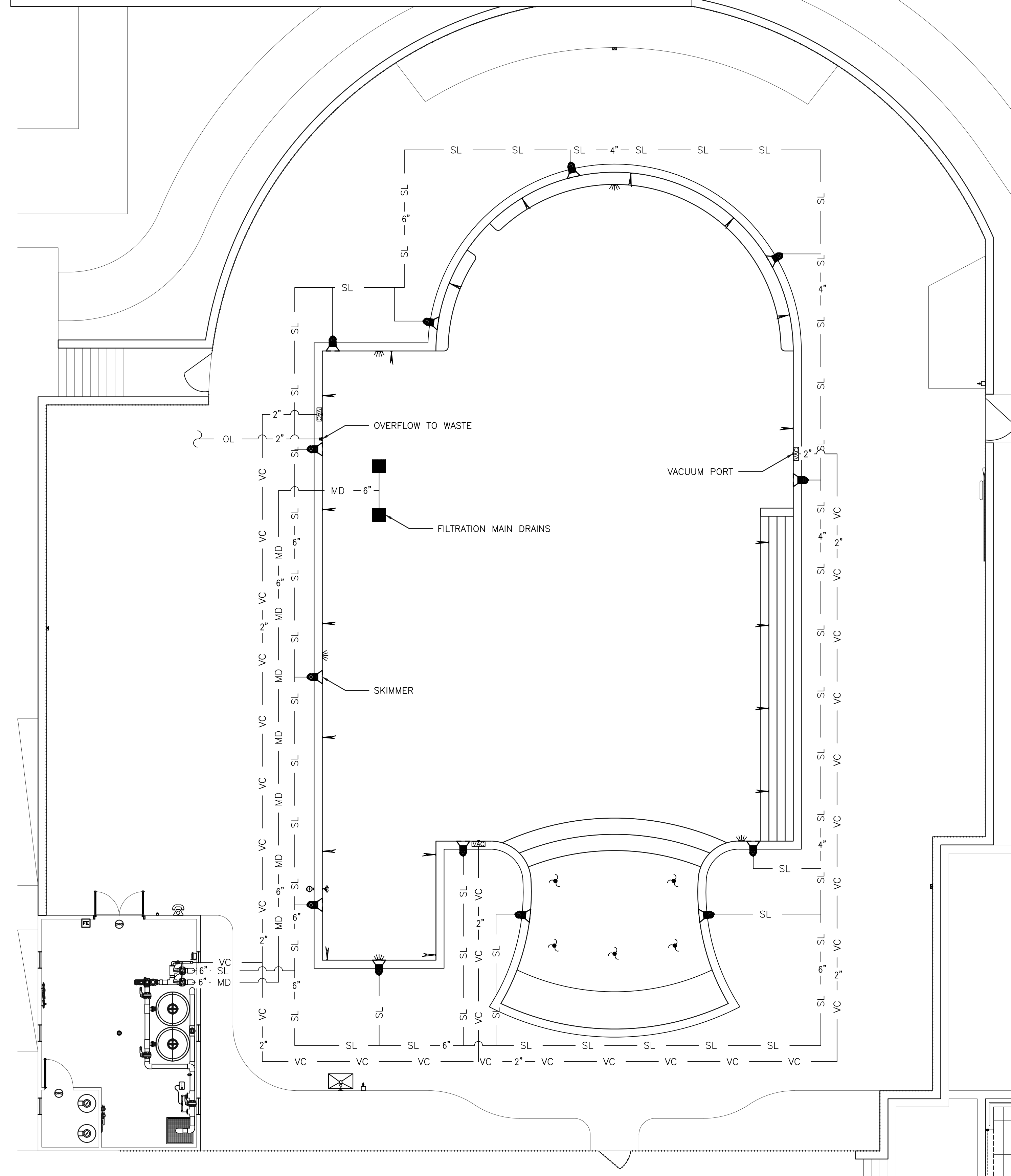
PROJECT ID: 1074

SP-6

| | |
|---|------------------------------|
| _____ MD _____ MD _____ MD _____ MD _____ | POOL MAIN DRAIN SUCTION LINE |
| _____ SL _____ SL _____ SL _____ SL _____ | POOL SKIMMER SUCTION LINE |
| _____ VC _____ VC _____ VC _____ VC _____ | POOL VACUUM SUCTION LINE |
| _____ OL _____ OL _____ OL _____ OL _____ | POOL OVERFLOW LINE |

- ALL SCHEDULE 40 PVC PRESSURE RATED PIPING UNLESS NOTED OTHERWISE.
- ONLY SDR 26 (CLASS 160) AND SDR 21 (CLASS 200) PVC PIPE MEETING ASTM STANDARD D1785 OR D2241 ARE ACCEPTABLE IN SIZES 12" & SMALLER. NO HEAT BENDING OF PVC PIPE IS ALLOWED.
- CPVC PIPE SHALL BE USED FOR CONNECTING TO HEATERS.

TO AVOID ENTRAPMENT, ALL SUCTION
OUTLETS SHALL BE DESIGNED AND INSTALLED
IN ACCORDANCE WITH ANSI/APSP-7



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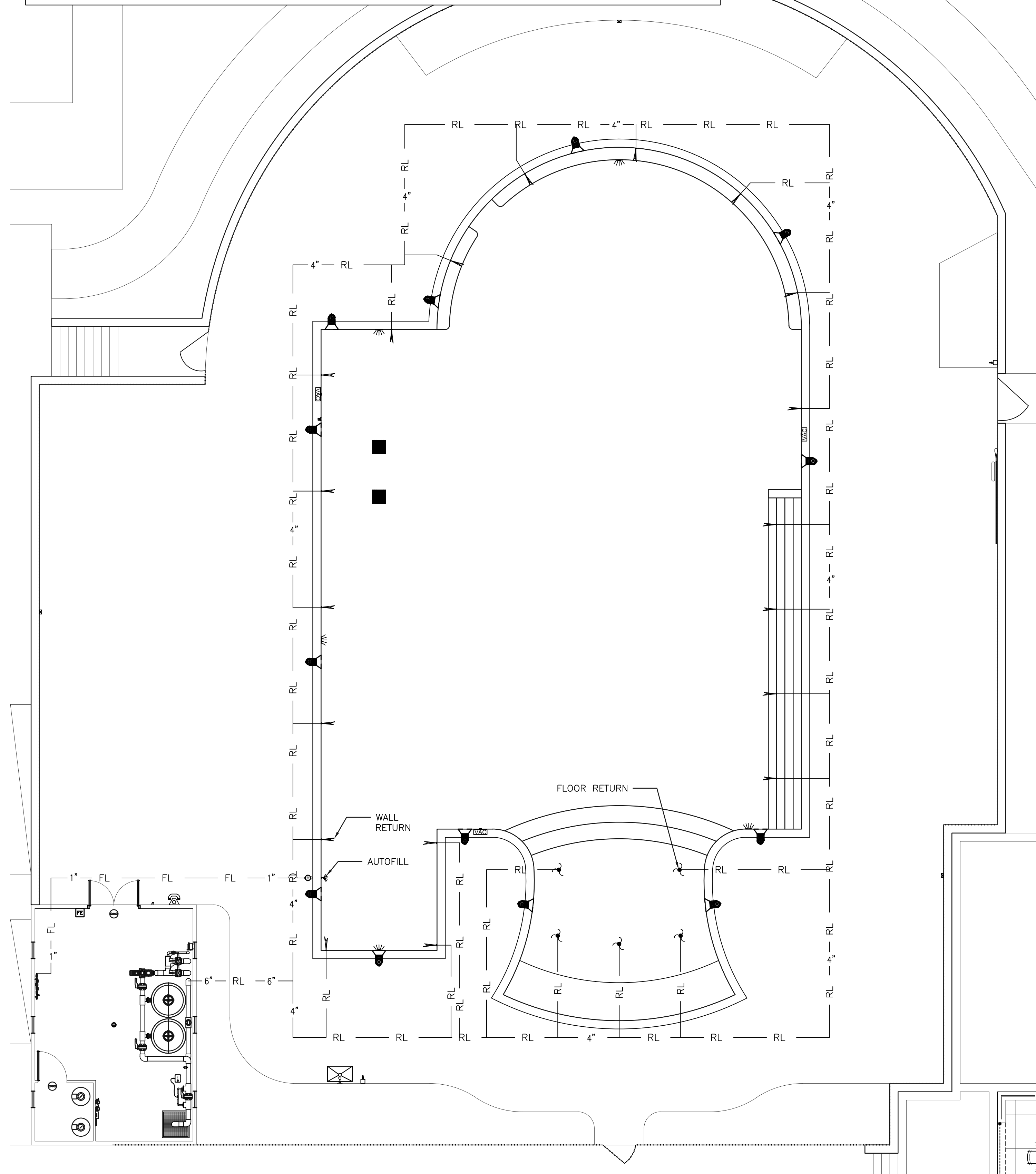
SP-7

KEY

— RL — RL — RL — RL — FILTRATION RETURN LINE
— FL — FL — FL — FL — AUTOFILL LINE

NOTE:

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- CPVC PIPE SHALL BE USED FOR CONNECTING TO HEATERS.



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SP-8

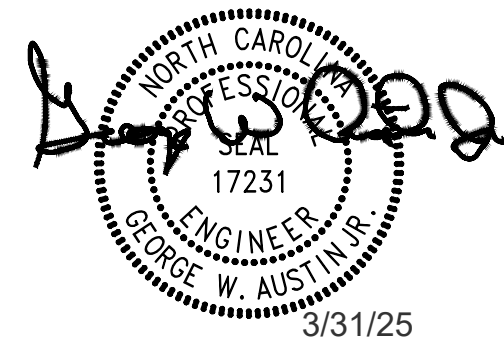
RETURN PIPING DIAGRAM

SCALE: 1/8" = 1'-0"



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POOL RETURN PIPING
SCHEMATIC

DATE: 01.21.25

DRAWN BY: TDE

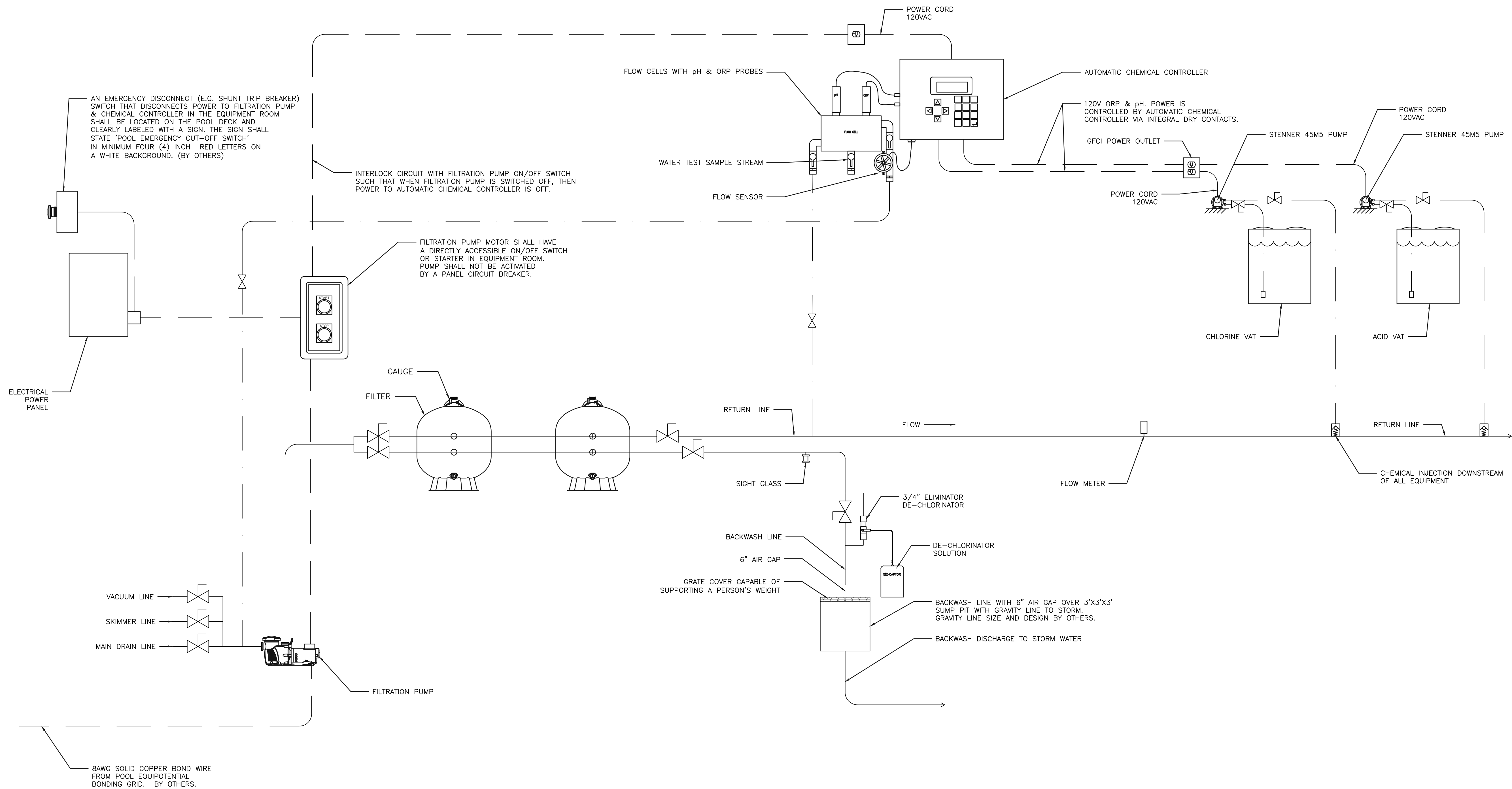
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PROJECT ID: 1074

SP-8

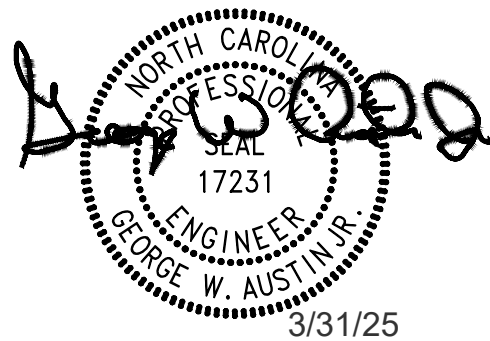
- NOTE:
- ALL SCHEDULE 40 PVC PRESSURE RATED PIPING UNLESS NOTED OTHERWISE.
 - ONLY SDR 26 (CLASS 160) AND SDR 21 (CLASS 200) PVC PIPE MEETING ASTM STANDARD D1785 OR D2241 ARE ACCEPTABLE IN SIZES 12" & SMALLER. NO HEAT BENDING OF PVC PIPE IS ALLOWED.
 - CPVC PIPE SHALL BE USED FOR CONNECTING TO HEATERS.

ELECTRICAL AND MECHANICAL NOTES ARE SHOWN FOR COORDINATION PURPOSES ONLY – ALL ELECTRICAL, MECHANICAL, FRESH WATER AND SANITARY DESIGN TO BE SHOWN ON BUILDING PME DOCUMENTS INCLUDING E-STOP LOCATED ON THE POOL DECK AND POOL EQUIPOTENTIAL BONDING PLAN.



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PIPING SCHEMATIC

DATE: 01.21.25

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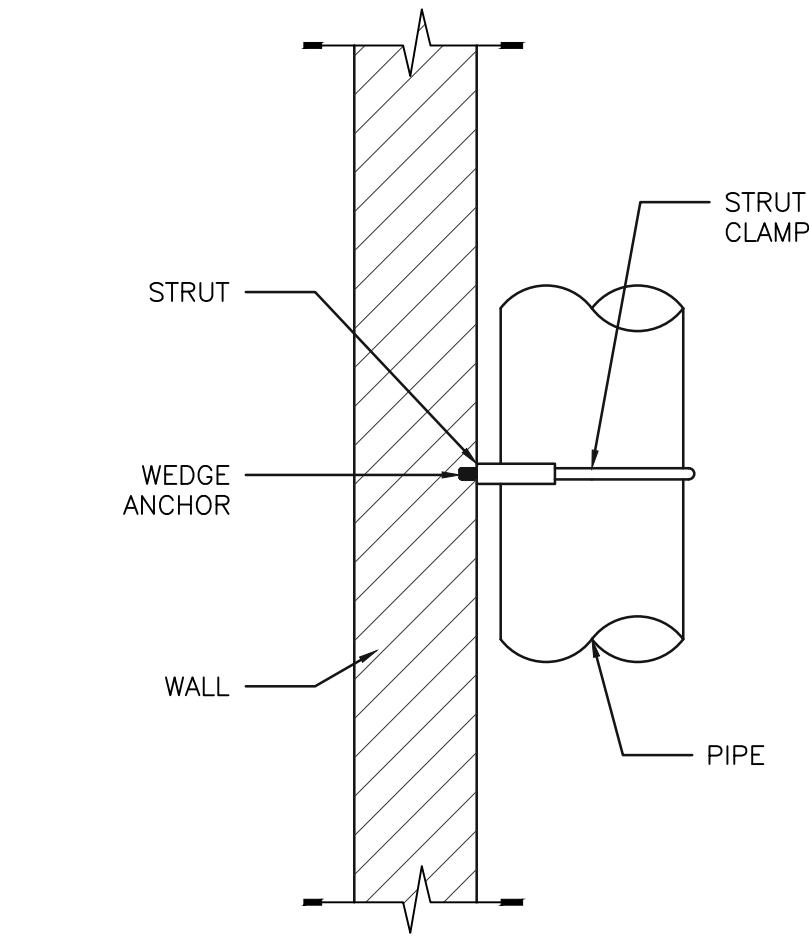
PROJECT ID: 1074

SP-9

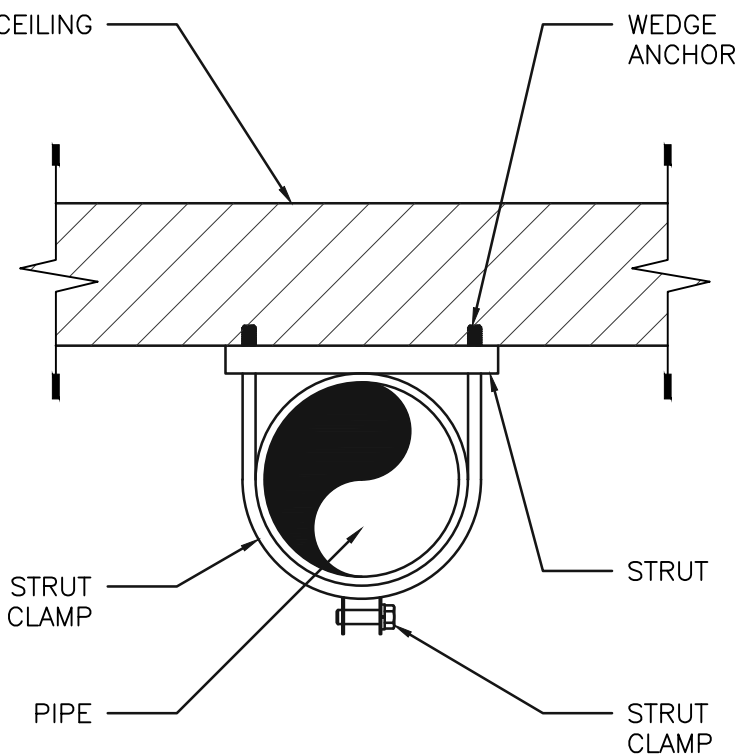
| POOL ELECTRICAL REQUIREMENTS | | | |
|------------------------------|---|---|--|
| QTY | EQUIPMENT | ELECTRICAL | NOTES (WORK BY OTHERS) |
| 1 | 12.5 HP FILTRATION PUMP | 230/460V, 3PH, 31.6/15.8A | RUN POWER TO DISCONNECT IN EQUIPMENT ROOM |
| 2 | 1/30 HP PUMP, CHEMICAL | 120-220V, 1.7/0.9A | POWER CORD TO WATER CHEMISTRY CONTROLLER CONTACT, CHEMISTRY CONTROLLER CONTROLS PUMP POWER |
| 1 | AUTOMATIC CHEMISTRY CONTROLLER | 120V, 15A, 60HZ | INTERLOCK WITH FILTRATION PUMP. IN THE EVENT THE PUMP SHUTS OFF, THEN CONTROLLER SHUTS OFF |
| 5 | LED, 500 W EQUIV UNDERWATER POOL LIGHTS | 12V, 31 WATT | POWER FROM POOL EQUIPMENT ROOM GFCI CIRCUITS TO TRANSFORMER/JUNCTION BOXES ON POOL DECK |
| 1 | POOL EQUIPOTENTIAL BONDING GRID | MINIMUM 8 AWG SOLID COPPER BONDING WIRE | EQUIPOTENTIAL BOND GRID AT POOL PERIMETER AND CONTINUOUS #8 COPPER WIRE TO POOL EQUIPMENT ROOM |
| 1 | EMERGENCY CUT-OFF SWITCH | CONNECT TO ALL PUMPS | LOCATED ON POOL DECK |

ANY MECHANICAL OR ELECTRICAL NOTES ARE SHOWN ONLY FOR COORDINATION PURPOSES. MECHANICAL AND ELECTRICAL DESIGN WILL BE BY PME ENGINEER AND THEIR DESIGN MAY DIFFER FROM OUR NOTES: EXHAUST REQUIREMENTS, ELECTRICAL WIRING REQUIREMENTS, BONDING REQUIREMENTS, ETC....

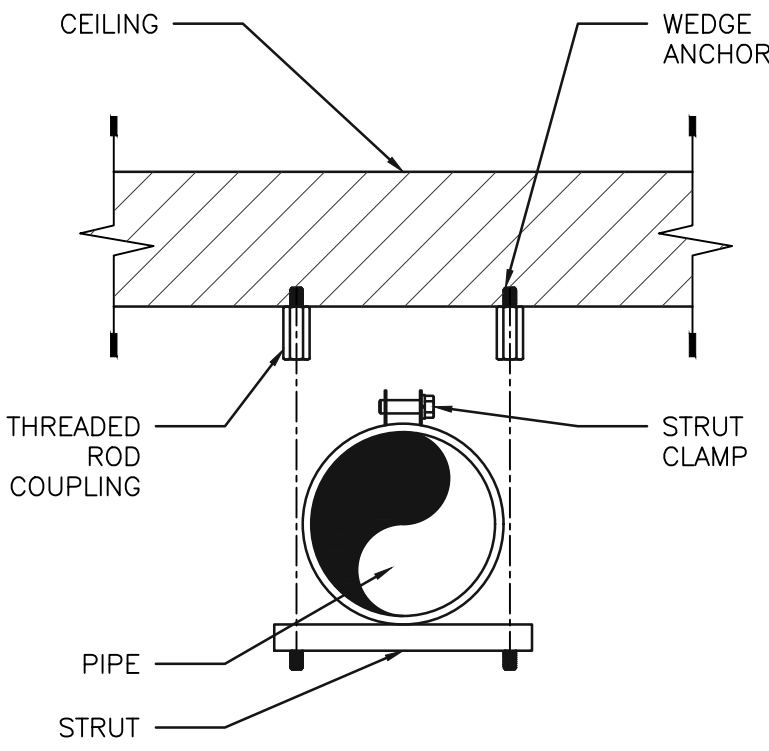
- NOTE:
- ALL SCHEDULE 40 PVC PRESSURE RATED PIPING UNLESS NOTED OTHERWISE.
 - ONLY SDR 26 (CLASS 160) AND SDR 21 (CLASS 200) PVC PIPE MEETING ASTM STANDARD D1785 OR D2241 ARE ACCEPTABLE IN SIZES 12" & SMALLER. NO HEAT BENDING OF PVC PIPE IS ALLOWED.
 - CPVC PIPE SHALL BE USED FOR CONNECTING TO HEATERS.



2 PIPE WALL SUPPORT
SCALE: NTS



3 PIPE CEILING SUPPORT
SCALE: NTS

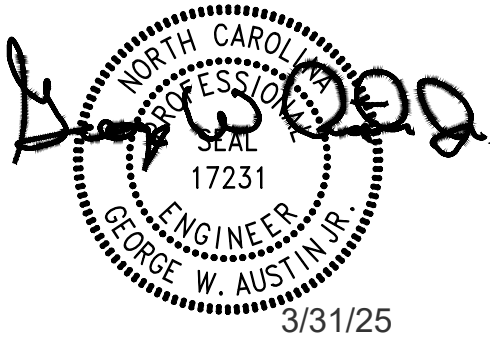


4 PIPE CEILING SUPPORT
SCALE: NTS

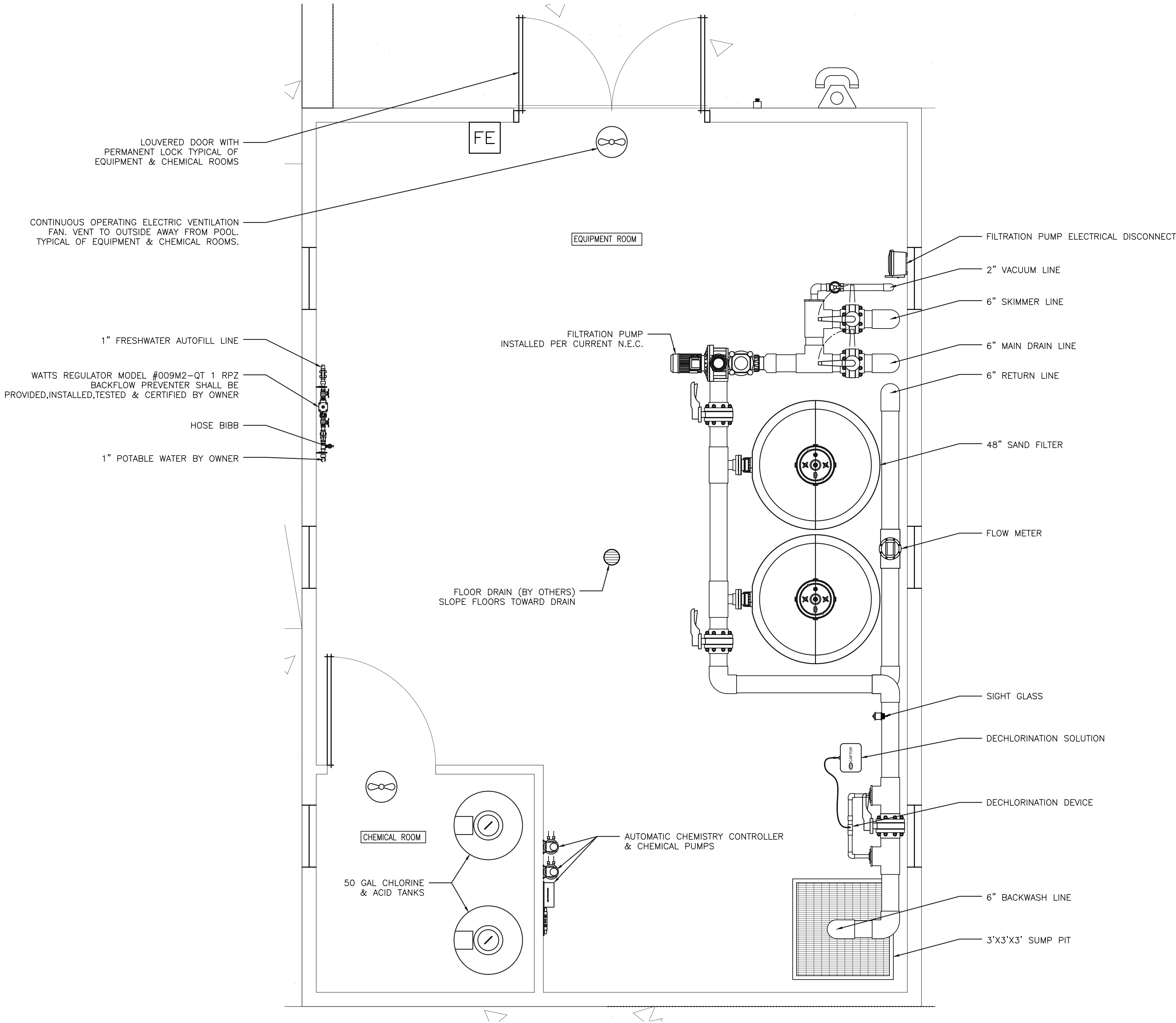


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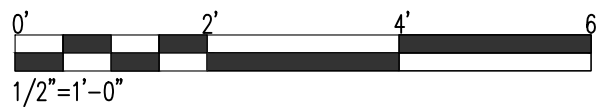
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3/31/25



1 EQUIPMENT ROOM
SCALE: 1/2" = 1'-0"



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EQUIPMENT ROOM
DETAILS

DATE: 01.21.25

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PROJECT ID: 1074

SP-10

POOL RULES:

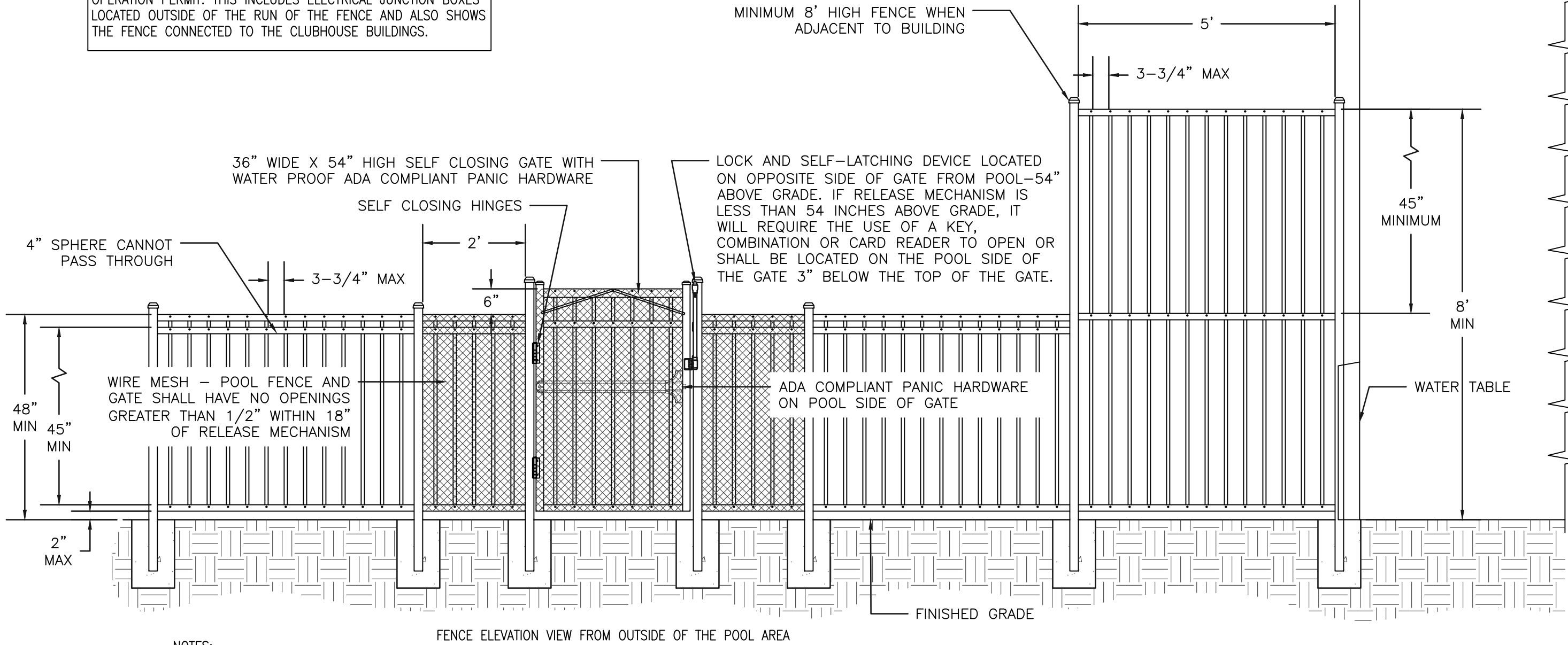
• SHOWER BEFORE ENTERING POOL.

• NO PETS OR GLASS CONTAINERS ALLOWED IN THE POOL AREA.

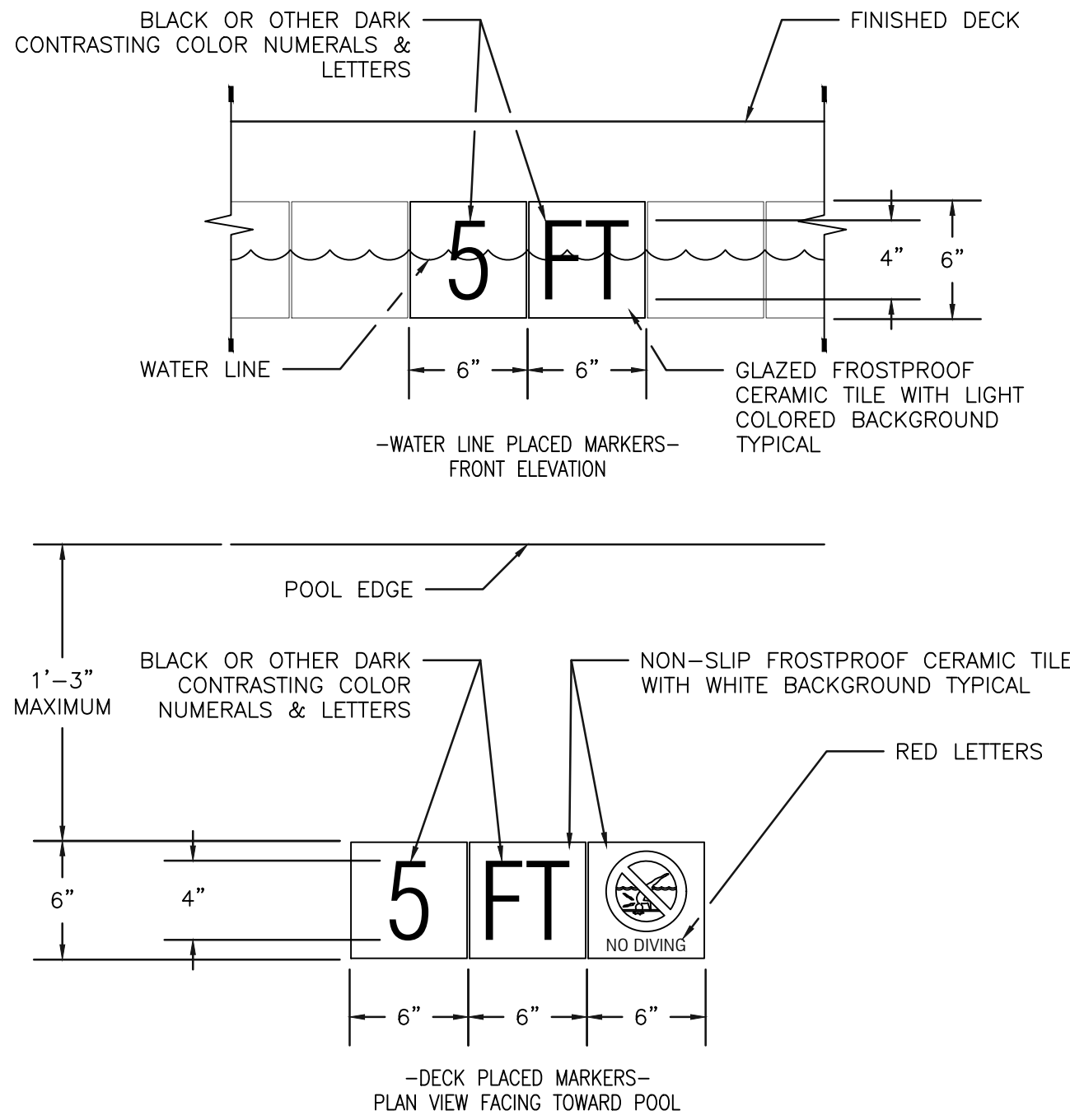
• CHILDREN SHOULD NOT USE THE SWIMMING POOL WITHOUT ADULT SUPERVISION.

• ADULTS SHOULD NOT SWIM ALONE.

NOTE:
THE FENCE WILL BE EVALUATED DURING CONSTRUCTION AND ANY POTENTIAL EXTERIOR HANDHOLDS/FOOTHOLDS WILL NEED TO BE ADDRESSED AND CORRECTED FINAL TO THE ISSUANCE OF THE OPERATION PERMIT. THIS INCLUDES ELECTRICAL JUNCTION BOXES LOCATED OUTSIDE OF THE RUN OF THE FENCE AND ALSO SHOWS THE FENCE CONNECTED TO THE CLUBHOUSE BUILDINGS.



- NOTES:
1. FENCE AND GATE TO MEET 15A NCAC 18A.2528 FENCES STANDARDS.
 2. PEDESTRIAN ACCESS GATES SHALL OPEN OUTWARD AWAY FROM THE POOL AND SHALL BE SELF-CLOSING AND HAVE A SELF LATCHING DEVICE.
 3. ADA COMPLIANT PANIC BAR RELEASE MECHANISM SHALL BE MOUNTED ON THE POOL SIDE OF THE GATE.
 4. ACCESS TO THE POOL DECK MAY REQUIRE THE USE OF A KEY OR CARD READER AND SHALL BE ADA COMPLIANT.
 5. SIZE AND SPACING OF VERTICAL FENCE POST PER FENCE MANUFACTURER'S SPECIFICATIONS FOR POOL SAFETY FENCE.
 6. FOOTINGS TO BE SPECIFIED BY MANUFACTURER.
 7. IF FENCE IS CHAIN LINK, THEN THE MAXIMUM MESH SIZE IS 2.25 INCH SQUARE.
 8. CONTRACTOR TO SUBMIT SHOP DRAWINGS PRIOR TO CONSTRUCTION.
 9. FINAL DESIGN AND COLOR TO BE DETERMINED.



4 POOL RULES SIGN
SP-11 SCALE: NTS

8 DEPTH MARKERS
SP-11 SCALE: 1 1/2"=1'-0"

POOL CLOSED

3 POOL CLOSED SIGN
SP-11 SCALE: NTS

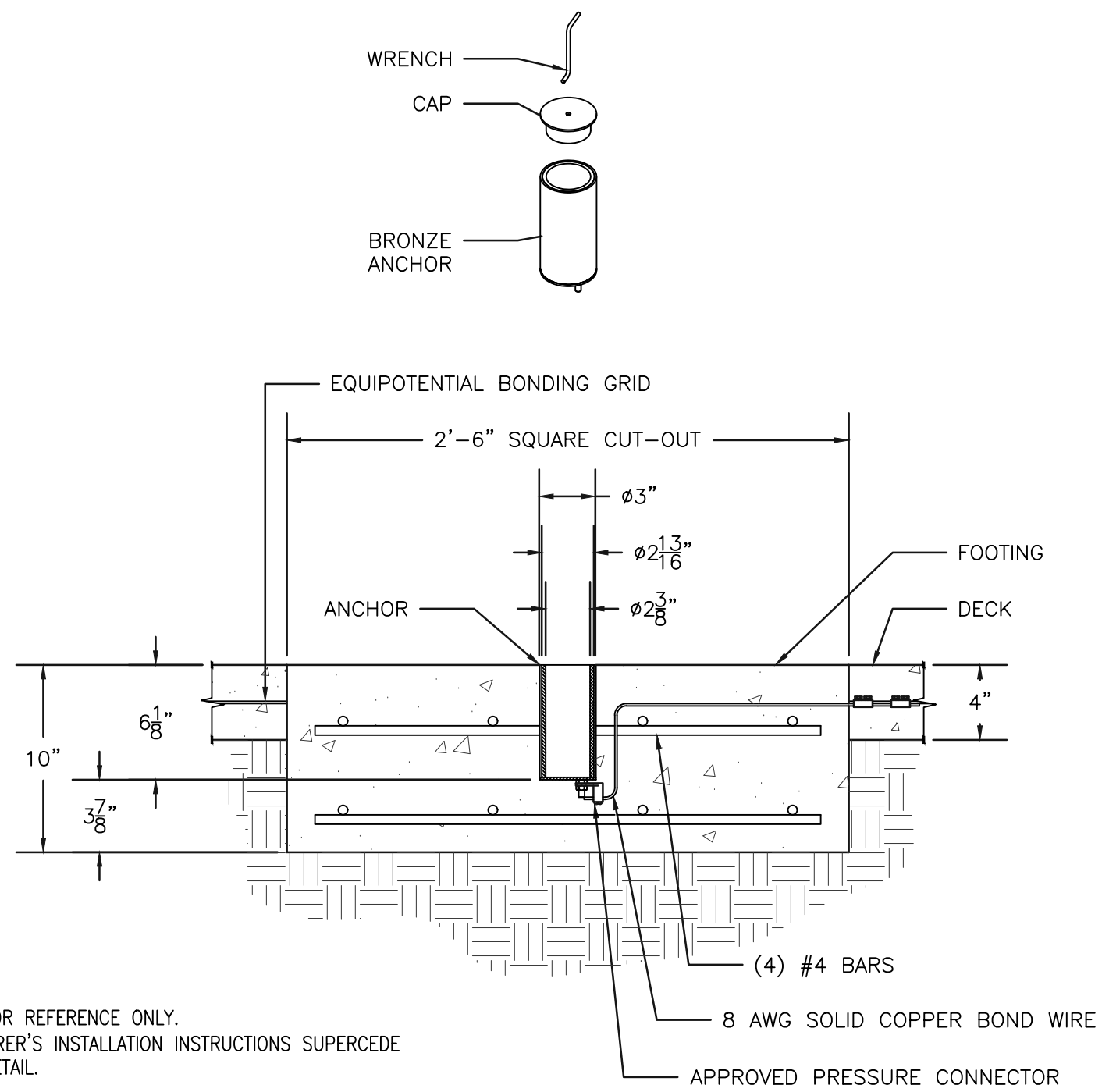
WARNING —
NO LIFEGUARD
ON DUTY

2 NO LIFEGUARD ON DUTY SIGN
SP-11 SCALE: NTS

EMERGENCY
PHONE
DIALING INSTRUCTIONS
FACILITY ADDRESS
FACILITY PHONE NUMBER

1 EMERGENCY PHONE SIGN
SP-11 SCALE: NTS

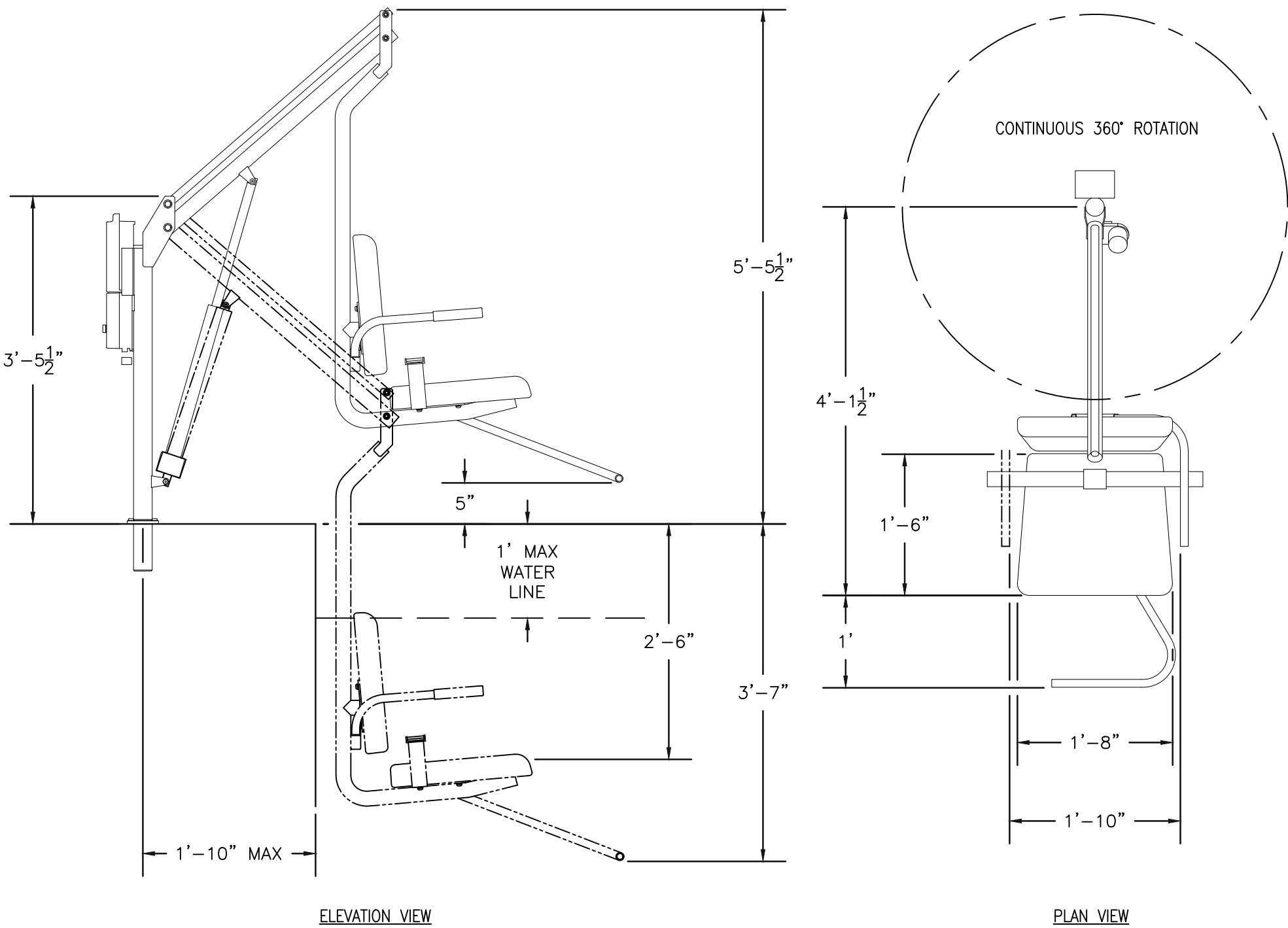
5 FENCE DETAIL
SP-11 SCALE: NTS



NOTE:
DRAWING FOR REFERENCE ONLY.
MANUFACTURER'S INSTALLATION INSTRUCTIONS SUPERCEDE
DRAWING DETAIL.

6 ADA LIFT ANCHOR DETAIL
SP-11 SCALE: 1 1/2"=1'

NOTE:
ADA CHAIR LIFT TO BE REVIEWED
BY LOCAL BUILDING INSPECTIONS
DEPT

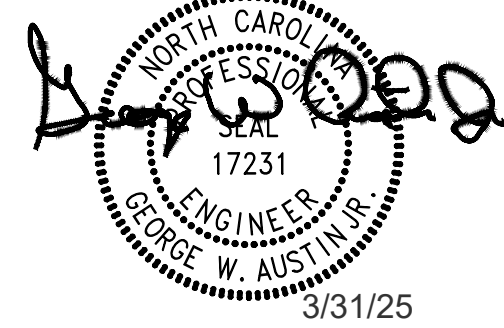


7 ADA LIFT DETAIL
SP-11 SCALE: 3/4"=1'-0"



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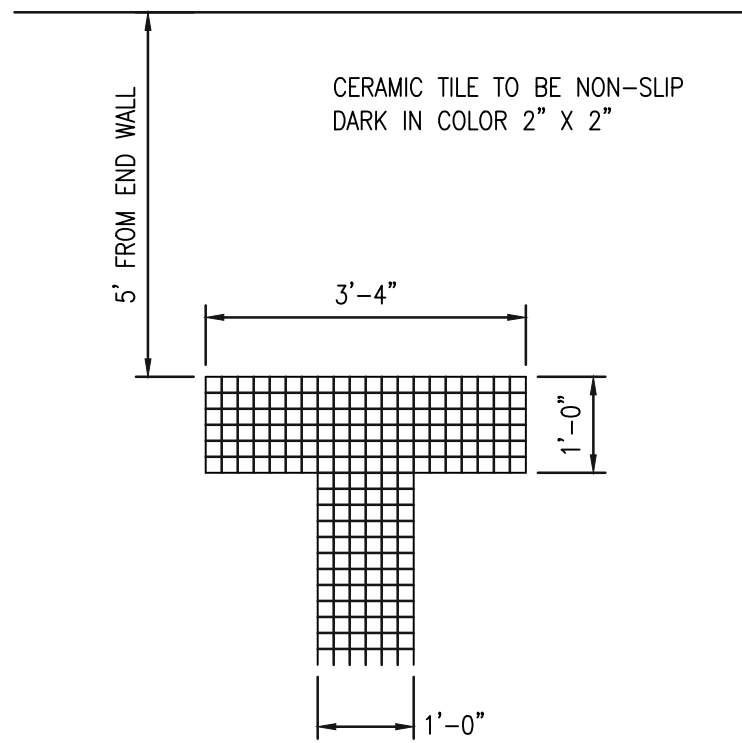
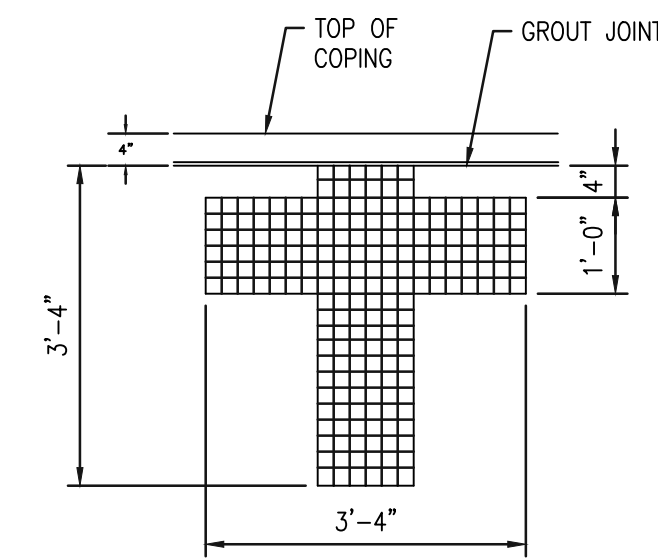
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POOL DETAILS

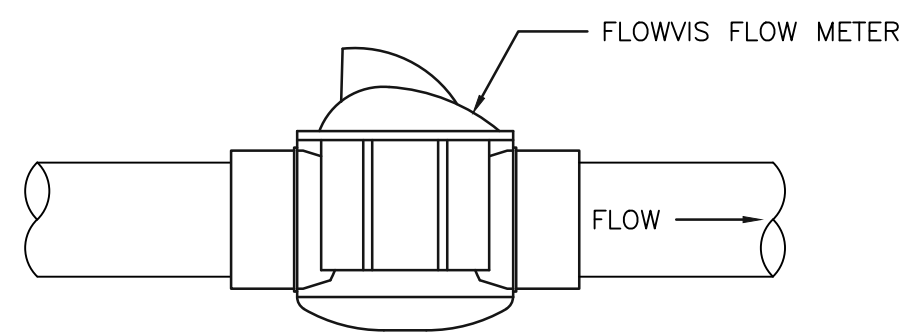
DATE: 01.21.25
DRAWN BY: TDE CHECKED BY: GWA
PROJECT ID: 1074

SP-11

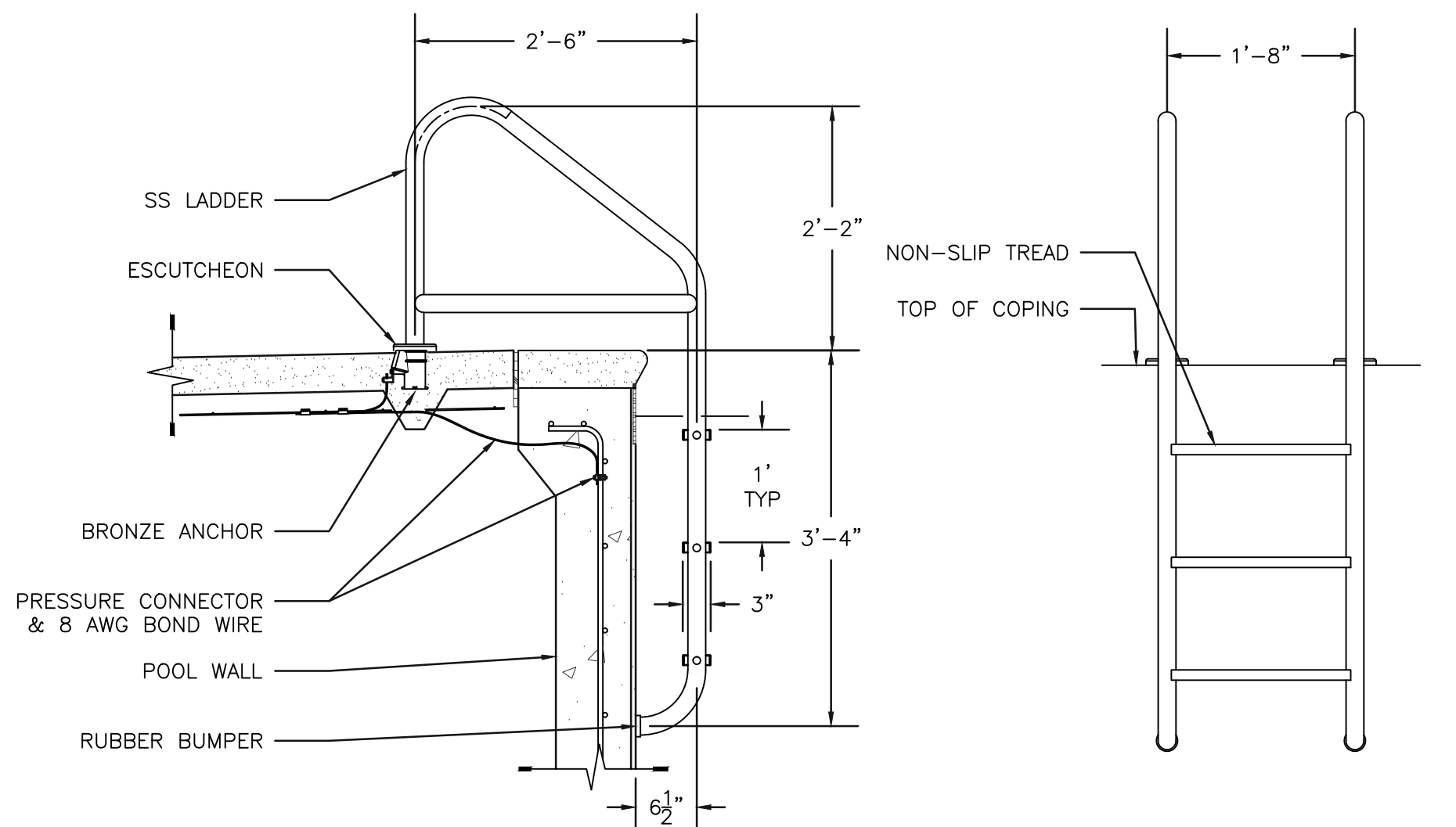


5 **END WALL AND FLOOR RACE TILES**
SP-12 SCALE: NTS

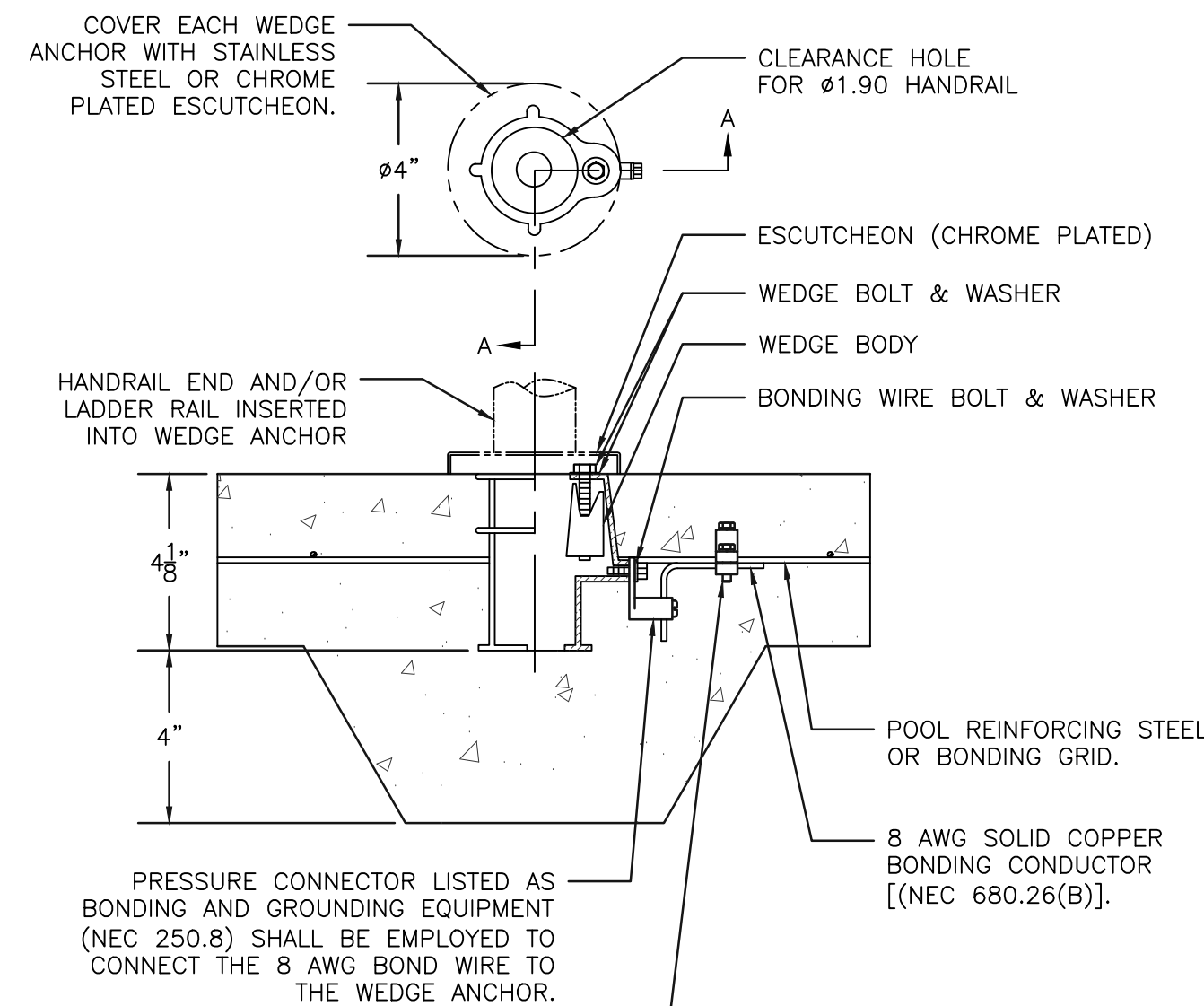
AT LEAST 33" STRAIGHT HORIZONTAL PIPE BEFORE, AND 0" STRAIGHT PIPE AFTER THE FLOWIS (6" SCH80 PIPE), TEE FITTING TYPE, WORKING PRESSURE IS 50 PSI, OPERATING RANGE IS 300-1000 GPM, AVERAGE ACCURACY IS 98.1%



4 **DIGITAL FLOW METER**
SP-12 SCALE: 3" = 1'-0"

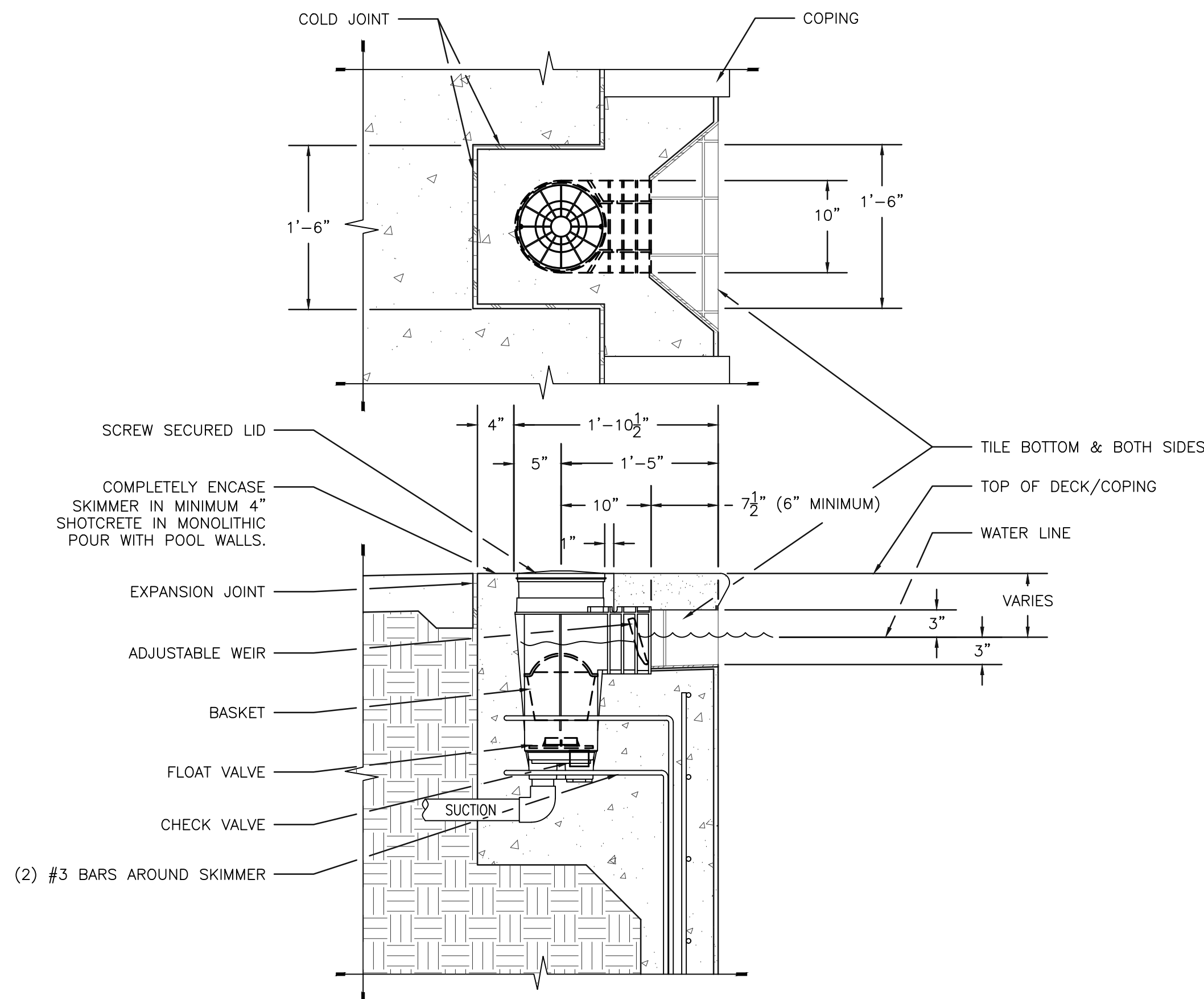


3 **LADDER**
SP-12 3/4"=1'
0' 1' 2' 3'
3/4"=1'-0"

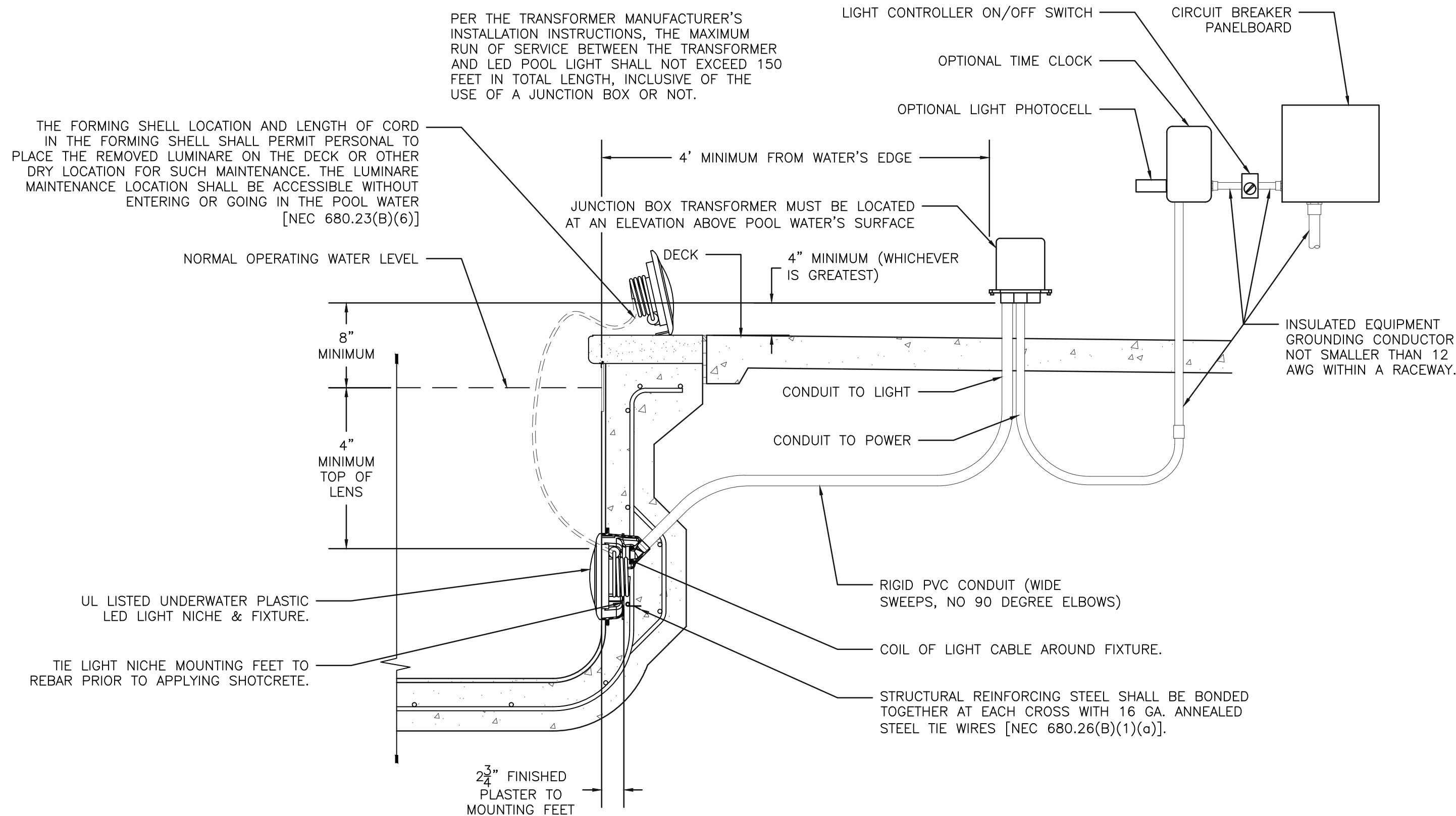


PRESSURE CONNECTOR LISTED AS BONDING AND GROUNDING EQUIPMENT (NEC 250.8) SHALL BE EMPLOYED TO CONNECT THE 8 AWG BOND WIRE TO THE WEDGE ANCHOR.

2 **WEDGE ANCHOR AS-100B**
SP-12 SCALE: 3"=1'
0' 1' 2' 3'
3"=1'-0"



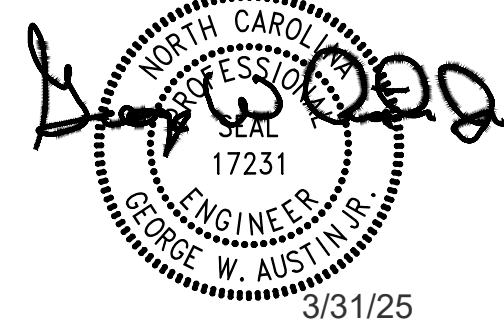
6 **SKIMMER WITHOUT EQUALIZER**
SP-12 SCALE: 1"=1'-0"



1 **UNDERWATER LIGHT**
SP-12 SCALE: NTS



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www.shultzeg.com | SEG - 24-920
NC FIRM LICENSE NUMBER: C-0898



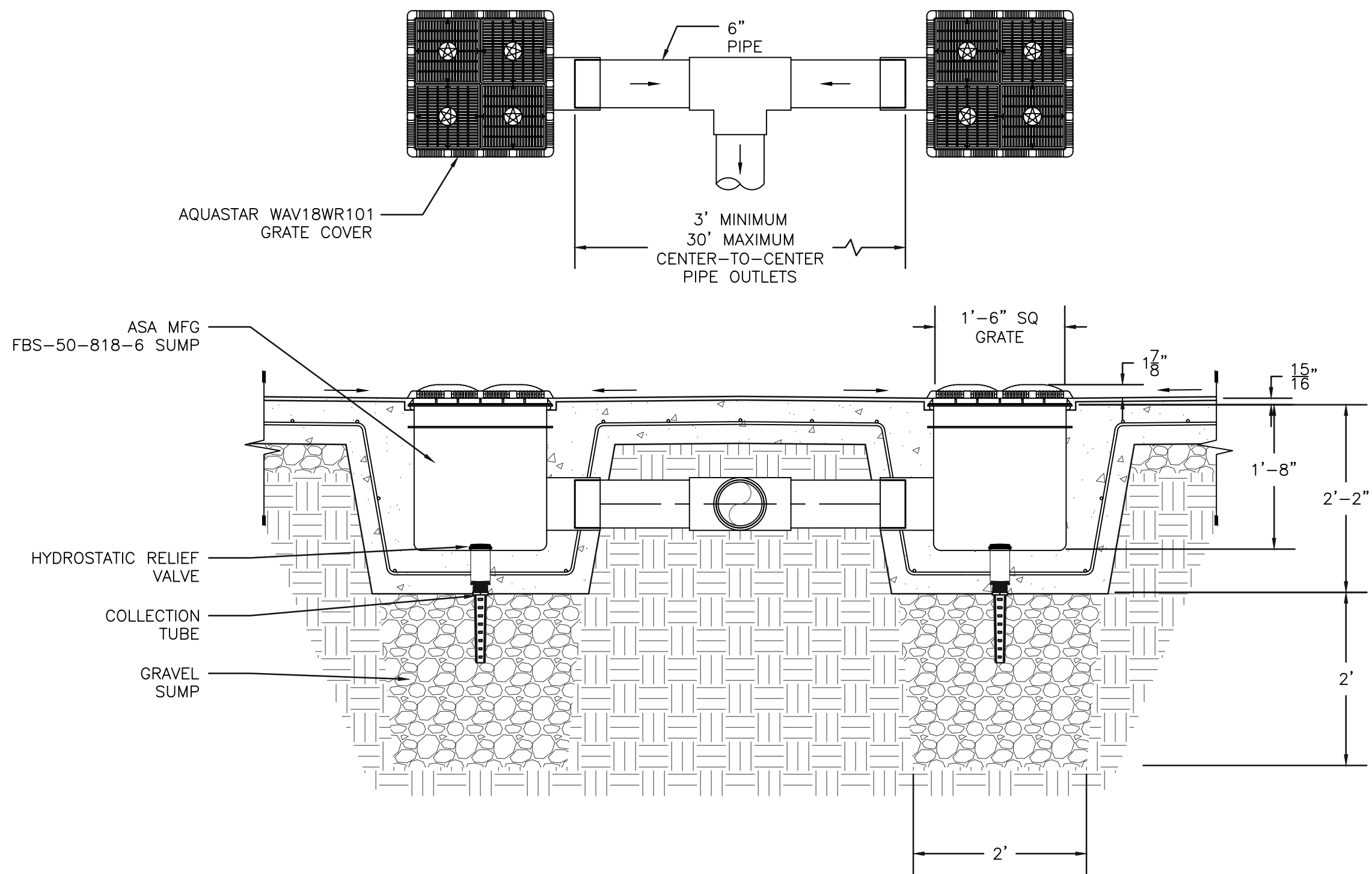
| 0 | ISSUE FOR PERMIT | 3.31.25 | GWA |
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| A | ISSUE FOR REVIEW | 02.13.25 | GWA |
| NO. | REVISION | DATE | BY |

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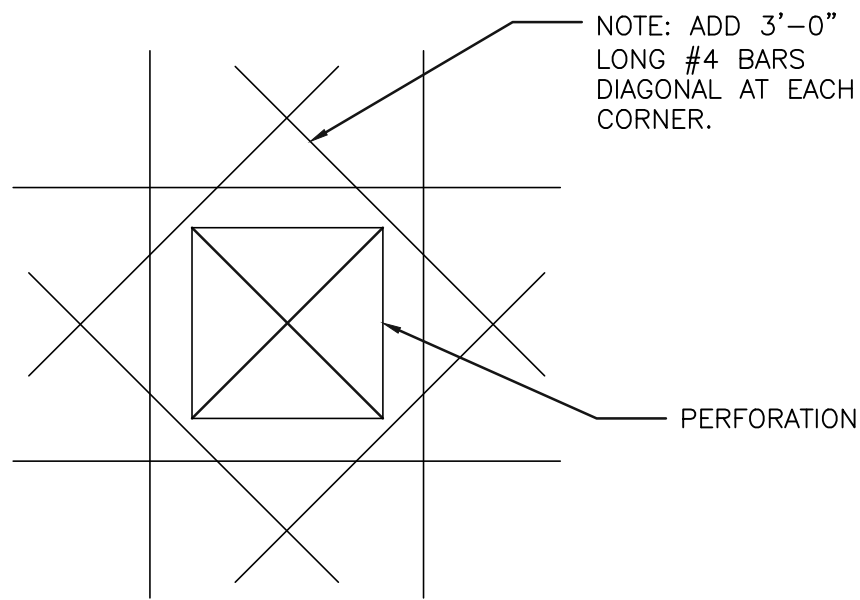
POOL DETAILS

DATE: 01.21.25
DRAWN BY: TDE CHECKED BY: GWA
PROJECT ID: 1074

SP-12

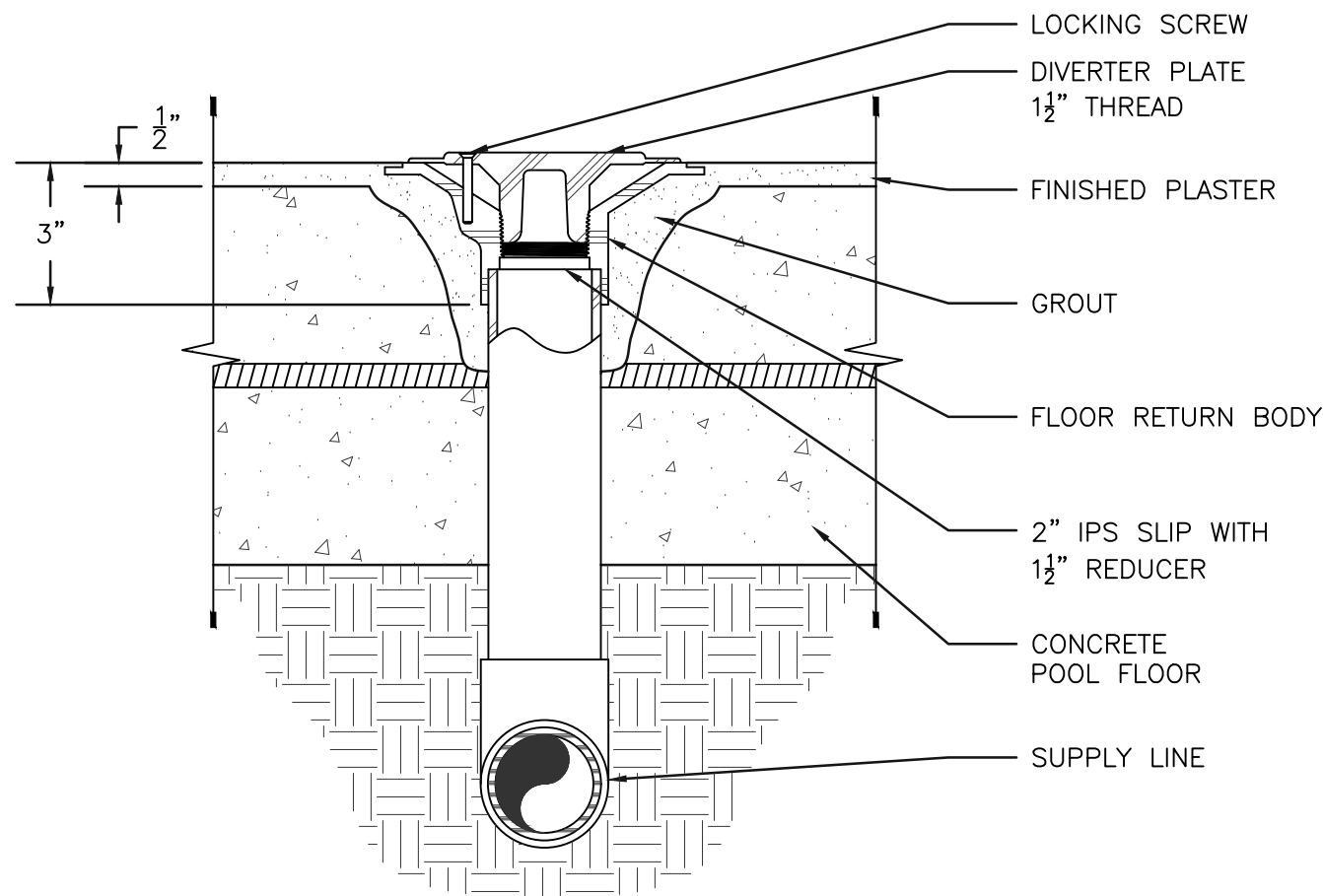


6 POOL FILTRATION DRAINS
SCALE: 3/4"=1'

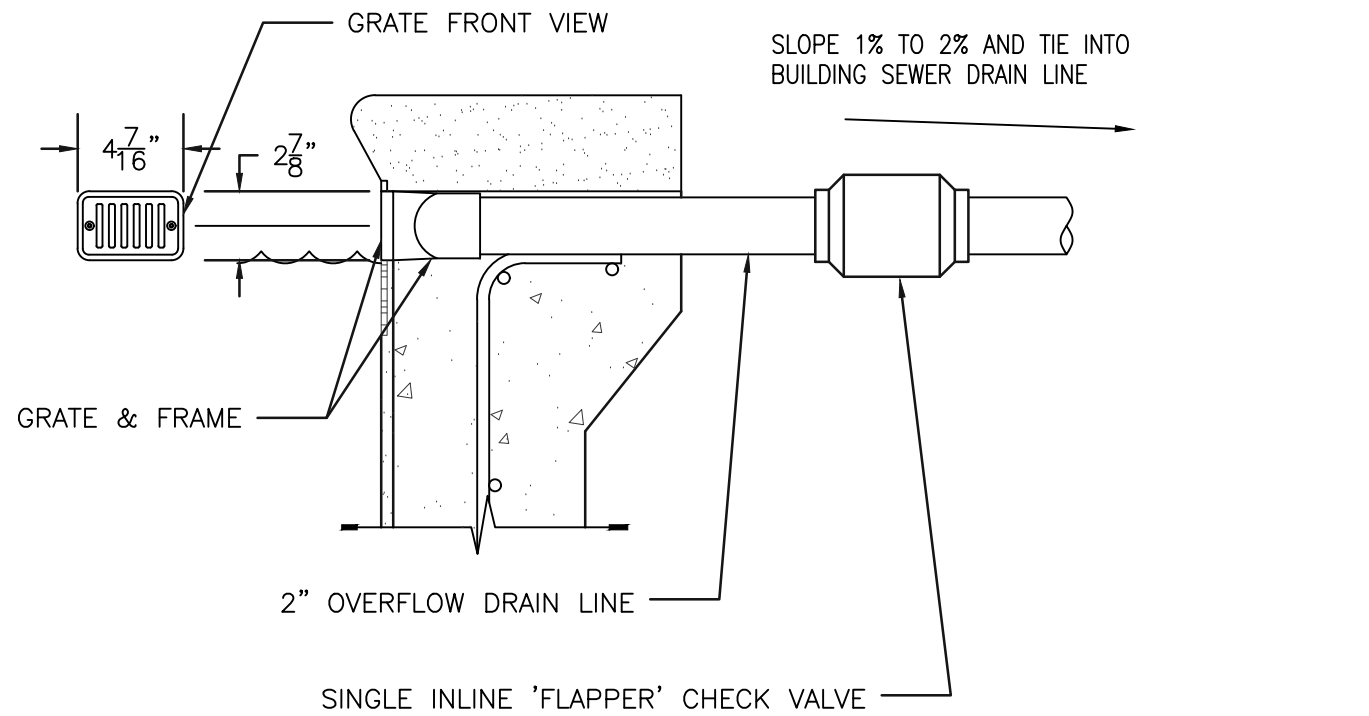


2 DIAGONAL BARS
SCALE: NTS

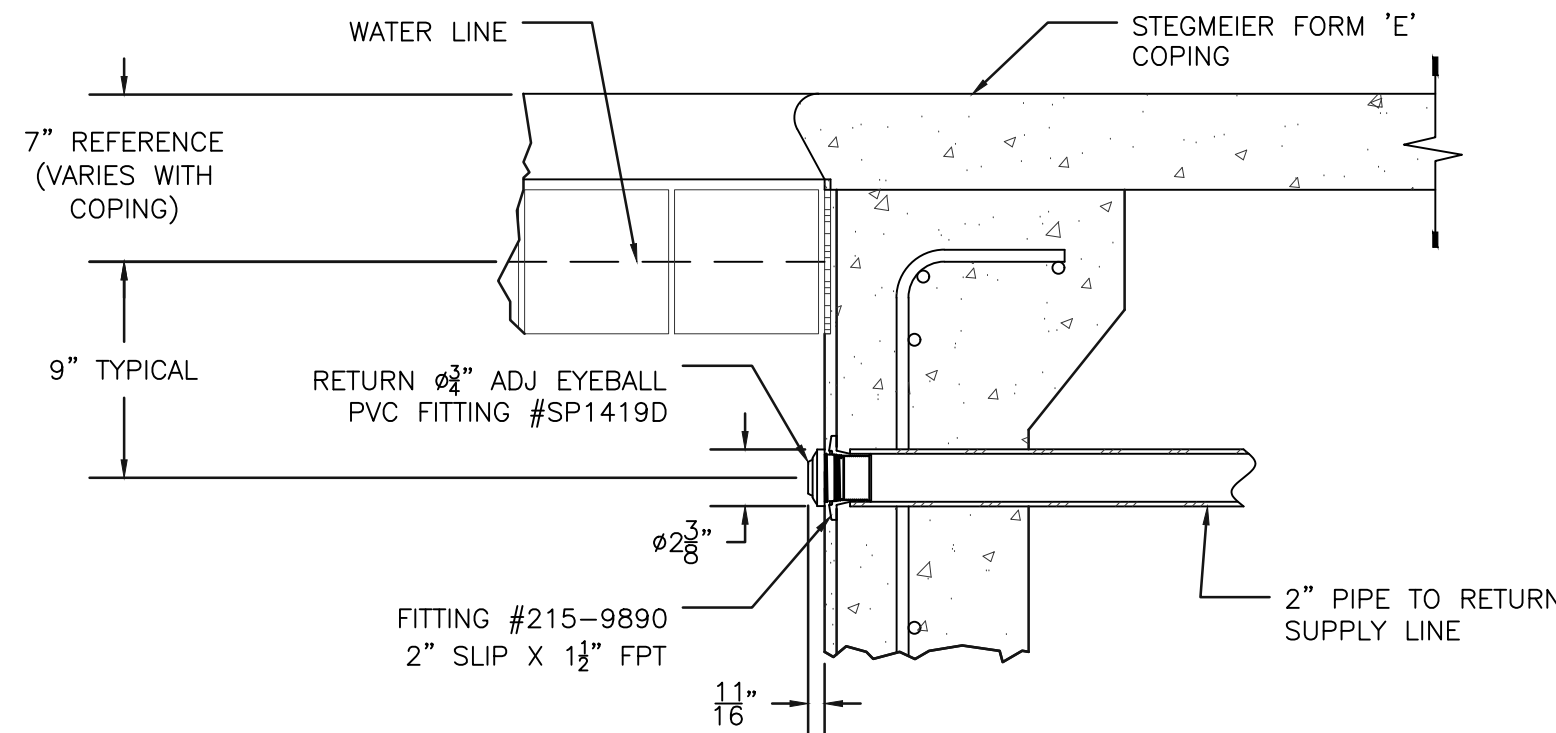
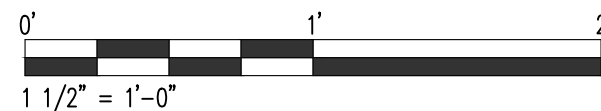
NOTE: FLOOR INLET SHALL BE INSTALLED SO THAT IT DOES NOT PROTRUDE ABOVE THE POOL FLOOR. ALL INLETS SHALL BE INSTALLED SO AS NOT TO PRESENT OR CONSTITUTE SHARP EDGES OR PROTRUSION HAZARDS TO BATHERS.



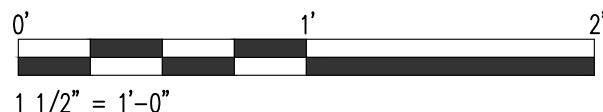
3 FLOOR RETURN DETAIL
SCALE: 3"=1'-0"



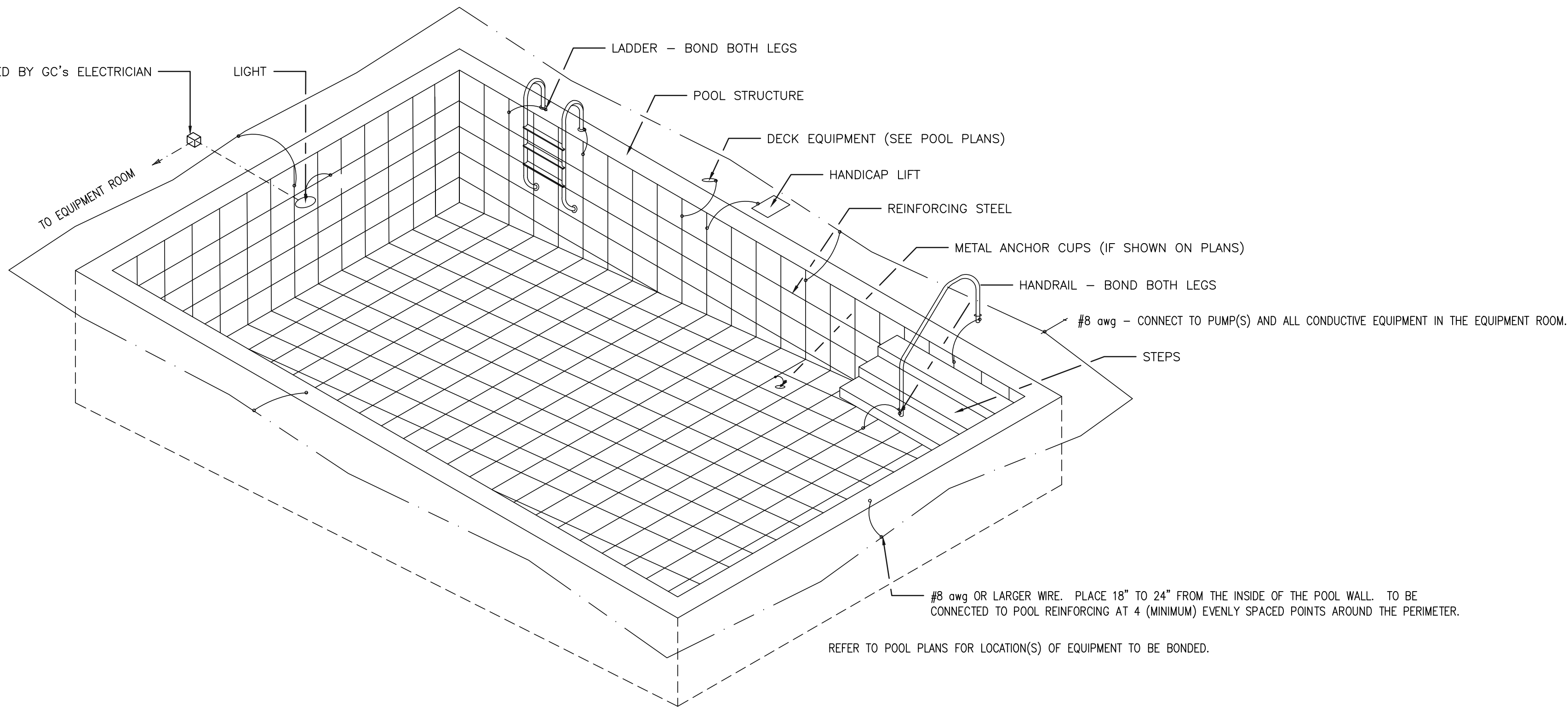
1 OVERFLOW DETAIL
SCALE: 1 1/2"=1'-0"



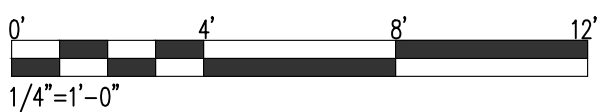
4 WALL RETURN
SCALE: 1 1/2"=1'



| BONDING NOTES: | |
|----------------|---|
| 1. | BONDING WIRE TO BE #8 awg OR LARGER. PLACE 18" TO 24" FROM INSIDE OF POOL WALLS. |
| 2. | BONDING WIRE TO BE CLAMPED TO POOL STEEL IN 4 (MINIMUM) EVEN SPACES AROUND THE POOL PERIMETER. |
| 3. | ALL BONDING TO MEET SECTION 680 OF THE CURRENT NEC CODE. BONDING WIRE TO BE #8 awg OR LARGER TO MEET THE REQUIREMENTS OF NEC SECTION 680.26(2). |
| 4. | BONDING LUG TO BE PANDUIT COPPER PLN-4C OR EQUIV |
| 5. | GROUNDING WIRE TO BE #8 awg OR LARGER. |
| 6. | ANY OVERLAPS IN GROUNDING WIRES SHALL BE CLAMPED IN TWO PLACES. |
| 7. | ALL METAL AND CONDUCTIVE EQUIPMENT SHALL BE CLAMPED TO THE BONDING GRID. LIGHT(S), NICHE(S) ABS JUNCTION BOX(ES) SHALL BE CLAMPED TO THE BONDING GRID PER CURRENT NEC CODE. |
| 8. | ALL CONDUCTIVE EQUIPMENT IN THE POOL'S EQUIPMENT ROOM SHALL BE CLAMPED TO THE GRID PER CURRENT NEC. CODES. |
| 9. | ALL BONDING TO BE VERIFIED AND CONNECTED BY GC'S ELECTRICIAN. |
| 10. | VERIFY ALL BONDING REQUIREMENTS WITH LOCAL CODE OFFICIALS PRIOR TO CONSTRUCTION. |
| 11. | GC'S ELECTRICIAN TO FURNISH, LOCATE AND INSTALL ALL J-BOXES. |
| 12. | BONDING INCLUDES PERIMETER SURFACES EXTENDING 36" HORIZONTALLY BEYOND THE INSIDE POOL WALL. (PER NEC 680.26) |

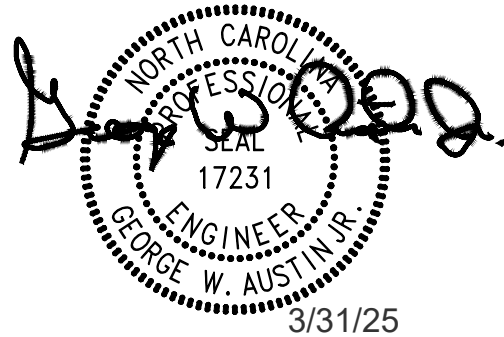


5 TYPICAL BONDING DETAIL
SCALE: 1/4"=1'-0"



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SP-13

