

GENERAL NOTES - POOL

STRUCTURE

1. PROVIDE A NON-SLIP FINISH TO THE POOL BOTTOM.
2. THE SLOPE OF THE POOL BOTTOM (LESS THAN 5 FEET DEEP) SHALL BE NO GREATER THAN 1" PER FOOT AND NOT LESS THAN .2" PER FOOT.
  - EXCEPTION: IN POOLS SMALLER THAN 800 SQUARE FEET, THE SLOPE OF THE FLOOR IN THE SHALLOW PORTION SHALL NOT EXCEED 1 FOOT IN 12 FEET.
3. THE FRONT SLOPE OF THE DEEP END OF THE POOL BOTTOM (GREATER THAN 5 FEET DEEP) SHALL BE NO GREATER THAN 4" PER FOOT. OTHER SLOPES OF THE DEEP END OF THE POOL SHALL NOT EXCEED 1" PER FOOT.
4. PROVIDE COVE RADIUS AT POOL WALLS OF 1" MINIMUM UP TO THE MAXIMUM ALLOWED BY THE APPLICABLE CODES.

PLASTER

1. PROVIDE SOUTHERN GROUTS AND MORTARS, INC / SGM DIAMOND BRITE (TM) EXPOSED AGGREGATE FINISH, MADE WITH 100% QUARTZ AGGREGATE AND POLYMER MODIFIED CEMENT.
2. COLOR TO BE SUPER BLUE.
3. INSTALL PLASTER SYSTEM PER MANUFACTURERS REQUIREMENTS BY AN EXPERIENCED INSTALLER.

WALKWAYS & DECKS

1. PROVIDE A CLEAR, UNOBSTRUCTED WALK OR DECK AROUND THE ENTIRE PERIMETER OF THE POOL.
2. SLOPE DECK AWAY FROM THE POOL WITH A SLOPE NO LESS THAN 1% (1/8" PER FOOT) AND NO MORE THAN 2% (1/4" PER FOOT). DECK MUST HAVE A NON-SLIP FINISH.
3. REFER TO CIVIL DRAWINGS FOR LOCATION AND TYPES OF DECK DRAINS PROVIDED.

POOL LADDERS AND STAIRS

1. PROVIDE 2 MEANS OF EGRESS LOCATED AT OPPOSITE ENDS OF THE POOL.
2. PROVIDE 4 MEANS OF EGRESS WHERE POOL WIDTHS ARE 30 OR GREATER.
3. THE DISTANCE FROM ANY POINT IN THE SWIMMING POOL TO A MEANS OF EGRESS SHALL NOT EXCEED 50 FEET.
4. STEPS OR LADDER TREADS SHALL BE NON-SLIP.
5. STEPS SHALL HAVE TREADS AND RISERS IN ACCORDANCE WITH SECTION 411.2 OF THE 2018 INTERNATIONAL SWIMMING POOL AND SPA CODE.
6. PROVIDE HANDRAILS IN ACCORDANCE WITH SECTION 323.2 OF THE 2018 INTERNATIONAL SWIMMING POOL AND SPA CODE.

ELECTRICAL

1. ALL ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, 2017 EDITION.
2. UNDERWATER LIGHTING SHALL PROVIDE 0.5 WATTS PER SQUARE FOOT OF POOL SURFACE AREA, LIGHTING ALL PORTIONS OF THE POOL. LIGHTING CIRCUIT TO BE GFCI.
3. PROVIDE DECK LIGHTING OF 0.6 WATTS PER SQUARE FOOT OF DECK AREA IF POOL LIGHTING IS USED AND 2.0 WATTS PER SQUARE FOOT OF DECK AREA IF POOL LIGHTING IS NOT USED.
4. ALL ELECTRICAL LIGHTING FIXTURES, RECEPTACLES, SWITCHES, ETC. SHALL COMPLY WITH SECTION 680.22 OF NEC, 2017.
5. UNDERWATER LIGHTING FIXTURES SHALL COMPLY WITH SECTION 680.23 OF NEC, 2017.
6. GROUNDING SHALL COMPLY WITH SECTIONS 680.6, 680.7, 680.8 (B), 680.23 (B)(3), 680.24 (F) AND 680.26 OF NEC, 2017.
7. A RECEPTACLE THAT PROVIDES POWER FOR POOL OR ASSOCIATED EQUIPMENT SHALL BE PERMITTED BETWEEN 5 FEET AND 10 FEET FROM THE INSIDE WALL OF THE POOL OR HOT TUB, AND WHERE SO LOCATED, SHALL BE OF THE LOCKING (TWIST-LOCK) AND GROUNDING TYPES AND SHALL BE PROTECTED BY A GROUND FAULT CIRCUIT INTERRUPTER (GFCI). ALL OTHER RECEPTACLES SHALL BE AT LEAST 10 FEET FROM THE INSIDE WALL OF THE POOL OR HOT TUB.
8. AN ADDITIONAL 125-VOLT GFCI CONVENIENCE RECEPTACLE IS REQUIRED TO BE INSTALLED WITHIN 20 FEET BUT NOT CLOSER THAN 10 FEET TO THE INSIDE WALL OF A POOL OR HOT TUB. CORD LENGTHS FOR PERMANENT POOLS SHALL NOT BE LONGER THAN 3 FEET IN LENGTH.
9. A DISCONNECTING MEANS SHALL BE PROVIDED AND BE ACCESSIBLE (LOCATED WITHIN SIGHT FROM ALL POOLS AND HOT TUB EQUIPMENT) AND SHALL NOT BE LOCATED WITHIN 5 FEET FROM THE INSIDE WALL OF THE POOL OR HOT TUB.
10. ELECTRICAL INSTALLATIONS OVER THE TOP OF A POOL OR HOT TUB OR OVER THE AREA EXTENDING 5 FEET FROM THE EDGE OF THE POOL OR HOT TUB INCLUDING UTILITIES SHALL BE REVIEWED WITH AN ELECTRICAL INSPECTOR PRIOR TO ISSUANCE OF THE PERMIT. ELECTRICAL INSTALLATIONS (INCLUDING UNDERGROUND) ARE NOT ALLOWED WITHIN 5 FEET OF A POOL.

BONDING

1. BONDING OF THE POOL SHALL COMPLY WITH SECTION 680.6 AND 680.26 OF NEC, 2017.

ALL METAL PARTS OF A POOL AND ITS ASSOCIATED METALLIC EQUIPMENT, METAL PIPING, RACEWAYS, FIXED METAL LADDERS, TOWERS, PLATFORMS, DIVING STRUCTURES, DOOR FRAMES, ETC. THAT ARE NOT SEPARATED FROM THE POOL BY A PERMANENT BARRIER AND LOCATED WITHIN 5 FEET OF THE POOL, MUST BE BONDED WITH A #8 SOLID COPPER CONDUCTOR. THIS CONDUCTOR IS NOT REQUIRED TO BE EXTENDED OR ATTACHED TO ANY REMOTE PANEL BOARD, SERVICE EQUIPMENT OR ELECTRODE (GROUND ROD) IT IS ONLY INTENDED TO BOND THESE METALLIC PIECES TOGETHER.

CONDUIT

1. FOR FLEXIBLE CONNECTIONS TO SWIMMING POOL, SPA, AND HOT TUB MOTORS PER 2017 NEC 680.21(A)(2) & 680.42(A)(1)
2. TITAN TYPE CB IS MANUFACTURED WITH A SPIRAL-WOUND STRIP OF HEAVY GAUGE, CORROSION RESISTANT, HOT-DIPPED GALVANIZED STEEL. FOR 3/8" THROUGH 1-1/4" TRADE SIZES, THE CORE IS CONSTRUCTED WITH A SQUARE-LOCKED STEEL STRIP WITH AN INTEGRAL COPPER-BONDING STRIP ENCLOSED WITHIN THE STEEL CONVOLUTIONS. FOR 1-1/2" THROUGH 4" TRADE SIZES, THE CORE IS CONSTRUCTED WITH A FULLY-INTERLOCKED STEEL STRIP. A RUGGED, FLAME-RETARDANT, FLEXIBLE PVC JACKET IS EXTRUDED OVER THE STEEL CORE. THE BLUE JACKET RESISTS OILS, MILD ACIDS, AND EXPOSURE TO SUNLIGHT. OTHER JACKET COLORS ARE AVAILABLE.

- BLUE COLOR, A PROTECTIVE THERMOPLASTIC OUTER JACKET WHICH SEALS OUT WATER, LIQUIDS, ABRASIVES, ALCOHOL, COOLANTS, CORROSIVE FUMES AND GASES, DIRT, GREASE, MINERAL ACIDS, NON-CONCENTRATED FIXED ALKALINES, PETROLEUM OILS, SALT AIR AND SPRAY, AND WEATHER.

- SMOOTH METAL INTERIOR FOR EASY WIRE PULLING
- UV SUNLIGHT-RESISTANT JACKET

- RATED FOR TEMPERATURE RANGE OF -30°C TO +80°C, 60°C OIL (-22°F TO +176°F, 140°F OIL)
- ACCEPTS STANDARD METALLIC LIQUID TIGHT FITTINGS
- RATED FOR DIRECT BURIAL APPLICATIONS

STANDARDS

- NEC TYPE DESIGNATION - TYPE LFMC (LIQUID TIGHT FLEXIBLE METAL CONDUIT)
- ANSI/NFPA-70, NEC ARTICLE 350
- UL LISTED TO UNDERWRITERS LABORATORIES STANDARD ANSI/UL-380 FOR LIQUID TIGHT FLEXIBLE STEEL CONDUIT

POOL OUTLETS

1. POOL OUTLETS OPENINGS MUST BE COVERED BY GRATING THAT CAN ONLY BE REMOVED WITH THE USE OF A TOOL. COMPLYING WITH ANSI/APSP-7 2006, STANDARD FOR SUCTION ENTRAPMENT AVOIDANCE AND THE VIRGINIA GRAEME BAKER POOL AND SPA SAFETY ACT (VGB ACT) AND CURRENT CONSUMER PRODUCT SAFETY COMMISSION (CPSC) INTERPRETATIONS.
2. MAIN DRAIN DISCHARGE PIPING SHALL BE SUFFICIENT FOR REMOVAL OF THE WATER THROUGH IT AT A RATE OF AT LEAST 100% OF THE SWIMMING POOL DESIGN RECIRCULATION FLOW RATE.
3. PROVIDE VALVES IN THE PIPING SYSTEM TO PERMIT FLOW ADJUSTMENT.
4. PROVIDE ADJUSTABLE DIRECTION SKIMMERS.
5. PROVIDE A MINIMUM OF 1 SKIMMER FOR EVERY 500 SQUARE FEET OF POOL SURFACE AREA.
6. THE VELOCITY OF FLOW THROUGH SKIMMERS SHALL BE IN THE RANGE OF 10-15 FEET/SECOND.

POOL INLETS

1. PROVIDE ADJUSTABLE FLOW INLETS.
2. THE VELOCITY OF FLOW THROUGH ANY INLET ORIFICE SHALL BE IN THE RANGE OF 5-15 FEET/SECOND.
3. INLETS MUST BE SUBMERGED AND LOCATED TO PRODUCE UNIFORM WATER AN CHEMICAL CIRCULATION THROUGHOUT THE POOL. LOCATE INLETS A MINIMUM OF 12 INCHES BELOW THE DESIGNED WATER LEVEL IF LOCATED ON THE POOL WALL.
4. PROVIDE A MINIMUM OF 1 INLET FOR EVERY 300 SQUARE FEET OF POOL SURFACE AREA.

PUMPING EQUIPMENT

1. PUMPS SHALL BE CAPABLE OF SUPPLYING A MINIMUM BACKWASH RATE OF 15 GALLONS PER SQUARE FOOT OF FILTER AREA PER MINUTE.
2. THE RECIRCULATING PUMP AND MOTOR SHALL HAVE SUFFICIENT CAPACITY TO PROVIDE THE TURNOVER REQUIRED AGAINST THE MAXIMUM HEAD LOSS WHICH MAY DEVELOP UNDER NORMAL OPERATING CONDITIONS.
3. PROVIDE A SELF-PRIMING PUMP WHERE THE PUMP IS LOCATED AT AN ELEVATION HIGHER THAN THE POOL WATER LINE.
4. PROVIDE A STRAINER BASKET AT THE PUMP TO FILTER HAIR AND LARGE PARTICLES.

FILTERS

1. PROVIDE REMOVABLE FILTER HEADS FOR INSPECTION AND REPLACEMENT OF FILTER MEDIA.
2. THE MAXIMUM SHUT-OFF HEAD OF THE PUMP SHALL NOT BE LESS THAT 50 POUNDS PER SQUARE INCH.
3. MARK VALVES FOR EASY IDENTIFICATION.
4. VALVE FILTER PIPING TO ALLOW FOR REPAIRS WHILE OTHER UNITS ARE IN SERVICE.
5. PROVIDE SAND FILTER SYSTEM.

PIPING SYSTEM

1. ALL POOL PIPING SHALL BE OF MATERIAL APPROVED FOR POTABLE WATER USE BY THE AMERICAN WATER WORKS ASSOCIATION.
2. BRANCH WATER UTILITY SERVICE LINES 2" AND SMALLER SHALL CONFORM TO THE LATEST FEDERAL SPECIFICATIONS FOR TYPE "K" FLEXIBLE COPPER TUBING.
3. POOL SERVICE LINES LARGER THAN 2" SHALL BE SCHEDULE 80 PVC
4. ALL WATER INSTALLATIONS INCLUDING BACKFLOW DEVICES ARE SUBJECT TO FIELD VERIFICATION AND APPROVAL BY THE WATER DEPARTMENT OR BUILDING INSPECTOR.
5. PIPING SHALL HAVE THE ABILITY TO WITHSTAND FOUR TIMES THE OPERATING PRESSURE.
6. PIPING SHALL BE PROPERLY SLOPED FOR ADEQUATE DRAINAGE AND SUPPORTED AN INTERVALS TO PREVENT SAGGING BETWEEN SUPPORTS.
7. PROVIDE FOR EXPANSION OF PIPES.
8. PROVIDE FOR CLEANOUTS IN THE CIRCULATION SYSTEM.
9. ALL PLASTIC (PVC) PIPING MUST HAVE THE NATIONAL SANITATION FOUNDATION (HSF) SEAL IMPRINTED ON IT.
10. USE FLANGE JOINTS OR UNION FOR EXPOSED PIPING IN THE FILTER ROOM.
11. COLOR CODE PIPING AS FOLLOWS:
  - POTABLE WATER LINES: DARK BLUE
  - RECIRCULATION
    - FILTERED: AQUA
    - SKIMMER: OLIVE GREEN
    - MAIN DRAIN: BLACK
  - WASTE LINES
    - BACKWASH WASTE: DARK BROWN
    - SEWER: DARK GRAY

DISINFECTANT SYSTEMS

1. PROVIDE A MECHANICAL UNIT FOR FEED OF A CHEMICAL FOR PH CONTROL.
2. PROVIDE A POSITIVE DISPLACEMENT TYPE CHEMICAL FEEDER TO MAINTAIN PH OF POOL WATER WITHIN THE RANGE OF 7.2 TO 7.6.

SIGNAGE

1. RULES AND REGULATIONS: POST INSTRUCTIONS TO BATHERS AT ENTRANCE TO DRESSING ROOMS PROVIDING THE FOLLOWING:
  - ADMISSION TO THE POOL IS REFUSED TO ALL PERSONS HAVING ANY CONTAGIOUS DISEASE, INFECTIOUS CONDITION SUCH AS COLDS, FEVER, RINGWORM, FOOT INFECTIONS, SKIN LESIONS, CARBUNCLES, BOILS, INFLAMED EYES, EAR DISCHARGES OR ANY OTHER CONDITION WHICH HAS THE APPEARANCE OF BEING INFECTIOUS, PERSONS WITH EXCESSIVE SUNBURN, ABRASIONS THAT HAVE NOT HEALED, CORN PLASTERS, BUNION PADS, ADHESIVE TAPE, RUBBER BANDAGES OR BANDAGES OF ANY KIND MAY NOT BE PERMITTED, A PERSON UNDER THE INFLUENCE OF ALCOHOL OR EXHIBITING ERRATIC BEHAVIOR SHALL NOT BE PERMITTED IN THE POOL AREA.
  - NO FOOD, DRINK, GUM OR TOBACCO WILL BE ALLOWED IN OTHER THAN SPECIFICALLY DESIGNATED AND CONTROLLED SECTIONS OF THE POOL AREA.
  - PERSONAL CONDUCT WITHIN THE POOL FACILITY MUST BE SUCH THAT THE SAFETY OF SELF AND OTHERS IS NOT JEOPARDIZED, NO RUNNING, BOISTEROUS OR ROUGH PLAY, EXCEPT SUPERVISED WATER SPORTS, IS PERMITTED.
  - SPITTING, SPOUTING OF WATER, BLOWING THE NOSE OR OTHERWISE INTRODUCING CONTAMINANTS INTO THE POOL IS NOT PERMITTED.
  - GLASS, SOAP, LOTION OR OTHER MATERIAL, WHICH MIGHT CREATE HAZARDOUS CONDITIONS OR INTERFERE WITH EFFICIENT OPERATION OF THE SWIMMING POOL SHALL NOT BE PERMITTED IN THE SWIMMING POOL OR ON THE POOL DECK.
  - ALL APPAREL WORN IN THE POOL SHALL BE CLEAN AND SANITARY. STREET ATTIRE OR CUTOFFS ARE NOT ALLOWED IN THE POOL.
  - DIVING IS NOT PERMITTED IN SHALLOW WATER.
  - ALL ANIMALS, BIRDS AND DOMESTIC FOUL ARE PROHIBITED FROM ENTERING THE POOL AREA.
  - THE POOL SHALL CLOSE AT 10:00 PM. CHILDREN UNDER THE AGE OF 12 WITHOUT ADULT SUPERVISION WILL NOT BE ALLOWED.
  - THE POOL LIFELINE SHALL NOT BE REMOVED WITHOUT PERMISSION FROM THE POOL MANAGEMENT.
2. BATHER LOAD - POST A SIGN IN A CONSPICUOUS LOCATION WITHIN THE POOL ENCLOSURE STATING: BATHER LOAD: 65 (POOL) AND 5 (SPA)

ADDITIONAL SIGNS

- WARNING - NO LIFE GUARD ON DUTY
- NO DIVING (SIGN TO BE POSTED ON WALL AND DECK)
- EMERGENCY USE ONLY (SIGN TO BE POSTED ABOVE SAFETY EQUIPMENT)
- 911 (SIGN POSTED ABOVE EMERGENCY TELEPHONE) PER 2018 ISpsc
- EMERGENCY SHUTOFF SWITCH. (SIGN TO BE POSTED ADJACENT TO POOL EQUIPMENT ROOM ENTRY).
- HOURS OF OPERATION
- POOL PERMIT
- ADDITIONAL SIGNAGE MAY BE REQUIRED BY THE OWNER, COORDINATE ALL SIGNAGE WITH THE OWNER PRIOR TO FABRICATION
- DEPTH MARKERS
  - a. DEPTH MARKERS SHALL BE IN NUMERALS FOLLOWED BY THE LETTERS "FT" TO INDICATED FEET. MARKERS SHALL BE 4" MINIMUM IN HEIGHT AND BE A COLOR CONTRACTING WITH THE BACKGROUND.
  - b. DEPTH MARKERS SHALL BE SET IN INLAID TILE.
  - c. MARKERS SHALL BE LOCATED ON BOTH SIDES AND BOTH ENDS OF THE POOL.
  - d. MARKERS SHALL BE LOCATED AT OR ABOVE THE WATER LINE ON THE POOL WALL AND ON THE COPING.
  - e. MARKERS SHALL BE LOCATED AT MAXIMUM AND MINIMUM DEPTH POINTS OF THE POOL AND AT THE POINTS OF BREAK BETWEEN THE DEEP AND SHALLOW PORTIONS AT INTERMEDIATE INCREMENTS OF DEPTH, SPACE AT NOT MORE THAN 25 FOOT INTERVALS, OR AS NOTED ON PLANS.

BUILDING DATA

PROJECT DESCRIPTION: SWIMMING POOL

- CITY OF LEE'S SUMMIT, MISSOURI, APPLICABLE CODES, STANDARDS AND ORDINANCES
- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL SWIMMING POOL & SPA CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL FIRE CODE
- 2018 INTERNATIONAL SWIMMING POOL & SPA CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2009 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDING AND FACILITIES

POOL SPECIFICATIONS

POOL FINISHES

POOL PLASTER: SGM DIAMOND BRITE / COLOR: SUPER BLUE  
POOL COPING: PRECAST CONCRETE (TRAVERTINE ACCEPTABLE)  
WATERLINE TILE: 6" X 6" TILE / COLOR: SELECTED BY OWNER  
CONTRASTING TILE: 2" X 2" TILE / COLOR: SELECTED BY OWNER

HYDRAULIC NOTES

NOTE: ALL EQUIPMENT TO BE NSF APPROVED AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.

SWIMMING POOL	
MIN POOL DEPTH	6" (AT SUN DECK)
MAX POOL DEPTH	4'-0"
POOL SURFACE AREA	3,290 SF
POOL PERIMETER	259 LF
POOL VOLUME	89,859 GAL
6-HOUR FILTRATION TURNOVER RATE	250 GPM
TOTAL DYNAMIC HEAD (TDH)	± 70'
POOL SKIMMERS	STA-RITE - 08650-1403 (QTY: 7)
POOL RETURNS	STA-RITE - 08417-0000 (QTY: 15)
POOL DRAINS	LAWSON MLD-SG 1212, VGB COMPLIANT (QTY: 2)
POOL FILTRATION PUMP	PENTAIR WHISPERFLO XF - VARIABLE SPEED PUMP (QTY: 2)
POOL FILTER (SAND)	PENTAIR TRITON TR140C (QTY: 2)
FILTER SURFACE AREA	17.71 GPM/SF
FILTRATION RATE	17.71 GPM/SF (PER FILTER)
POOL HEATER	PENTAIR MASTER TEMP 400 ASME HD HEATER (QTY: 2)
CHEMICAL CONTROLLER	PENTAIR INTELLICHEM CHEMICAL CONTROLLER (QTY: 1)
CHLORINE FEEDER	PENTAIR - 300-29X (QTY: 2)
AUTOFILL	PENTAIR T40 AUTOMATIC POOL FILLER (QTY: 1)

RECIRCULATION BASIN	
DEPTH	1'-0"
SURFACE AREA	122 SF
PERIMETER	59 LF
VOLUME	915 GAL
SKIMMER	STA-RITE - 08650-1403 (QTY: 1)
DRAIN	AQUASTAR CHANNEL DRAIN, W/ FLAT COVER VGB COMPLIANT (QTY: 1)

SPA	
MIN SPA DEPTH	1'-6" (AT BENCH)
MAX SPA DEPTH	3'-6" (AT FOOTWELL)
SPA SURFACE AREA	205 SF
SPA PERIMETER	51 LF
SPA VOLUME	5,381 GAL
1-HR TURNOVER FLOW RATE	90 GPM
TOTAL DYNAMIC HEAD (TDH)	± 55'
SPA SKIMMERS	STA-RITE - 08650-1403 (QTY: 2)
SPA RETURNS	STA-RITE - 08417-0000 (QTY: 4)
SPA DRAIN	LAWSON MLD-SG 0909, VGB COMPLIANT (QTY: 1)
SPA FILTRATION PUMP	PENTAIR WHISPERFLO XF - VARIABLE SPEED PUMP (QTY: 1)
SPA FILTER (SAND)	PENTAIR TRITON TR140C (QTY: 1)
FILTER SURFACE AREA	7.06 SF
FILTRATION RATE	12.75 GPM/SF
SPA HEATER	PENTAIR MASTER TEMP 400 ASME HD HEATER (QTY: 1)
CHEMICAL CONTROLLER	PENTAIR INTELLICHEM CHEMICAL CONTROLLER (QTY: 1)
CHLORINE FEEDER	PENTAIR - 300-29X (QTY: 1)
AUTOFILL	PENTAIR T40 AUTOMATIC POOL FILLER (QTY: 1)

BATHER LOAD

PER 2018 IBC TABLE 1004.5

- WATER SURFACE AREA: 3,290 SF (POOL) + 205 (SPA)
- 50 SF PER USER FOR POOLS PER TABLE 1004.5
- 3,495 SF / 50 SF PER USER = **70** USERS

\*REFER TO ARCHITECTURE DRAWINGS FOR POOL DECK OCCUPANT LOAD CALCULATIONS AND EGRESS REQUIREMENTS.

ADDITIONAL NOTES:

HYDROSTATIC RELIEF VALVE: PENTAIR - 542020

POOL LIGHTS: 12 VOLT, 50FT CORD (PENTAIR INTELLIBRITE - 601306) WHITE (QTY: 4)

12 VOLT, 100FT CORD (PENTAIR GLOBRITE - 602106) WHITE (QTY: 6)

HANDRAILS: (S.R.SMITH - 3HR-6-065)

HANDRAIL ANCHOR: (S.R.SMITH - AS-100C 3" BRONZE ANCHOR)

LADDER: NOT USED

ESCUTCHEON PLATES: (S.R.SMITH,INC. - EP-100F)

BACKWASH TO: SANITARY LINE, VIA ORIFICE BASIN

FRESHWATER SOURCE: IN-LINE FILL WITH RP2 BACKFLOW PREVENTER

OVERFLOW: (1) (PENTAIR - 542037) WITH A FLAP VALVE AT THE DISCHARGE

DELUXE CLEANING KIT: (1) - (TAILOR - COMPLETE (K-2005)

LIFE SAVING EQUIPMENT:

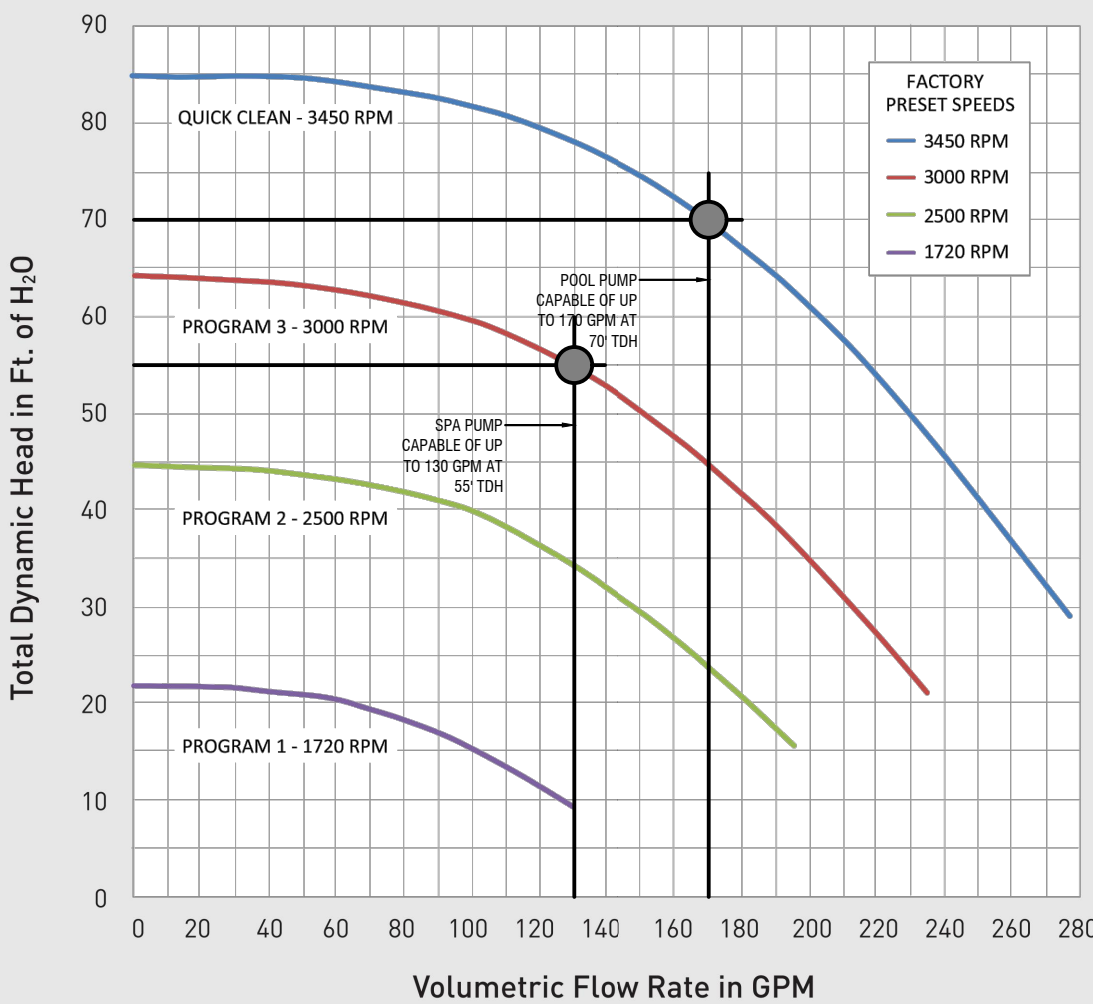
LIFE HOOK: (1) - (RAINBOW - R221026)PERMANENTLY ATTACHED TO 16" POLE

RING BOUY: (1) - WITH 50 FT LINE (CAL-JUNE - #GW 20)

FIRST AID KIT: (1) (E.R.B ADVANCED SAFETY - #25EP)

\*POOL CONTRACTOR TO VERIFY HEALTH DEPARTMENT'S SAFETY EQUIPMENT REQUIREMENTS

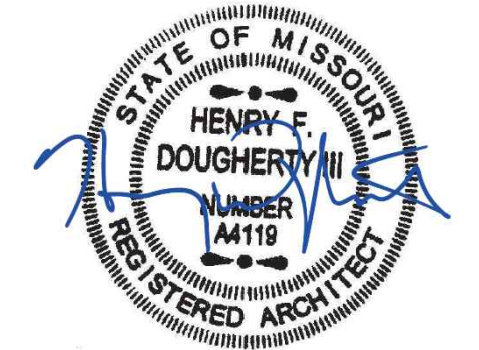
PERFORMANCE CURVES - WHISPERFLOXF VS COMMERCIAL PUMP



ARCHITECT  
B+A ARCHITECTURE  
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RESIDENCES AT BLACKWELL  
2951 SE SHENANDOAH DRIVE  
LEES SUMMIT, MO 64083

SEAL



08/12/2024

ISSUED: AUGUST 12, 2024

NO.	REVISION	DATE

DESIGNED BY FCR  
DRAWN BY FCR  
CHECKED BY HD

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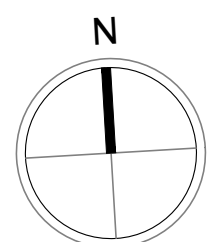
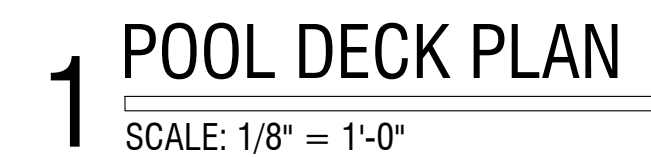
SCALES AS STATED HEREIN ARE VALID ON THE ORIGINAL DRAWING ONLY. CONTRACTOR SHALL CAREFULLY REVIEW ALL DIMENSIONS AND CONDITIONS SHOWN HEREON AND AT ONCE REPORT TO THE ARCHITECT ANY ERROR, INCONSISTENCY OR AMBIGUITY DISCOVERED.

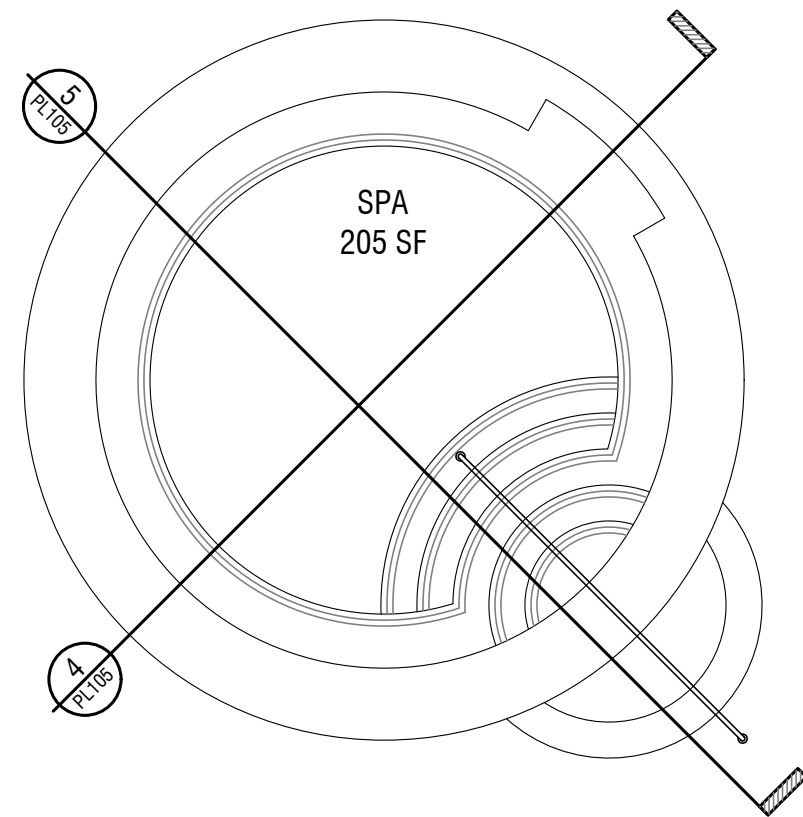
POOL GENERAL NOTES

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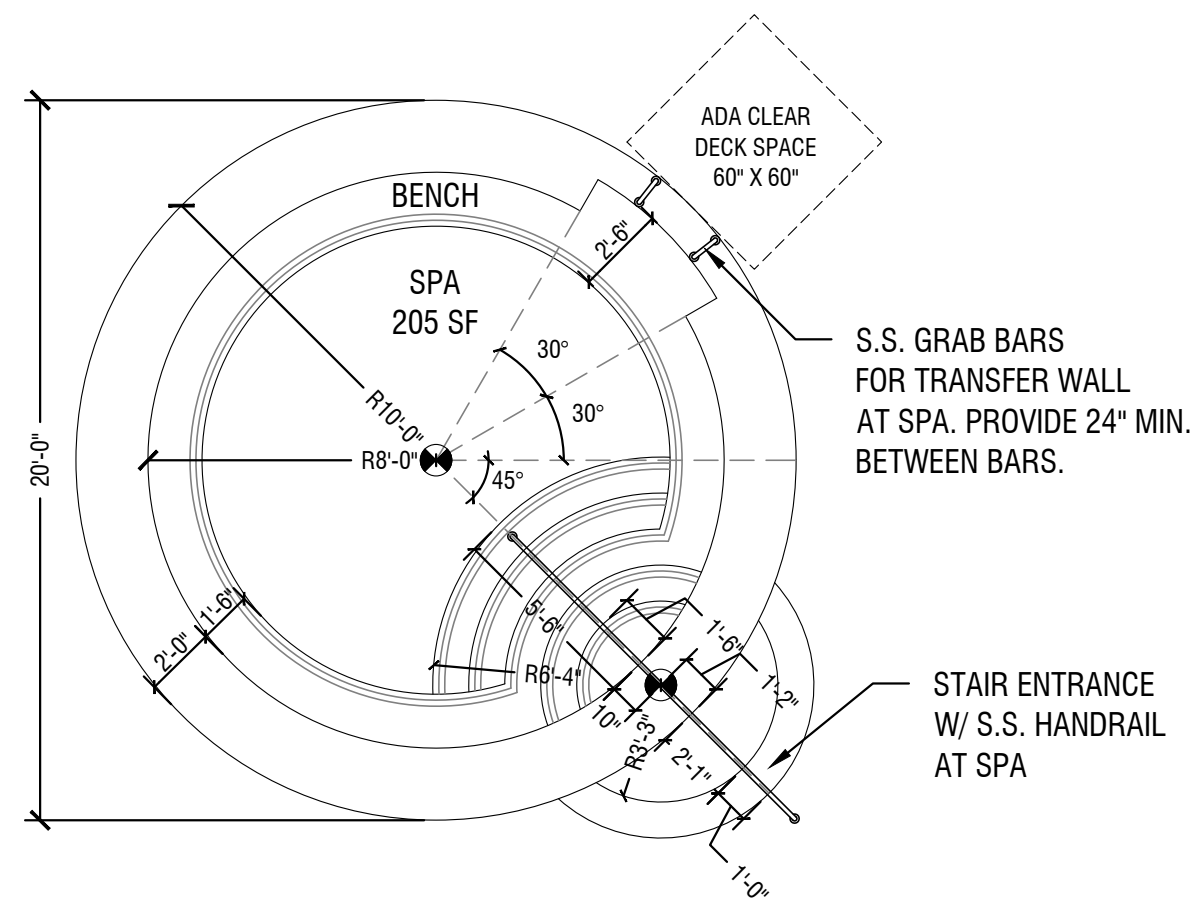


1. THE WORK SHALL CONFORM TO THE APPLICABLE BUILDING CODES, AND OTHER ORDINANCES, CODES AND REGULATIONS LISTED IN THE SPECIFICATIONS OR ON THE DRAWINGS, AND REQUIRED BY LOCAL BUILDING AUTHORITIES. THE GOVERNING CODES, RULES AND REGULATIONS ARE COLLECTIVELY REFERRED TO AS 'THE CODE'. THE CONTRACTOR SHALL REPORT ANY INCONSISTENCIES, CONFLICTS OR OMISSIONS THEY MAY DISCOVER TO THE ARCHITECT FOR INTERPRETATION PRIOR TO PERFORMING THE WORK.
2. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL PROVIDE PUBLIC PROTECTION AS NECESSARY AND REQUIRED BY GOVERNING CITY AGENCIES.
3. THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WORK OF ALL SUB-CONTRACTORS AND SHALL PERFORM SUCH MISCELLANEOUS WORK AS MAY BE NECESSARY FOR THEM TO COMPLETE THEIR WORK.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS ON THE JOB SITE AND REPORT ANY AND ALL DISCREPANCIES AND/OR UNUSUAL CONDITIONS TO THE ARCHITECT PRIOR TO FINALIZING BIDS OR COMMENCEMENT OF ANY CONSTRUCTION.
5. ALL REQUIRED PERMITS MUST BE OBTAINED FROM THE PUBLIC WORKS, BUILDING, AND HEALTH DEPARTMENTS PRIOR TO START OF CONSTRUCTION.
6. THE GENERAL CONTRACTOR SHALL OBTAIN ALL PERMITS FOR ALL SITE DEVELOPMENT WORK, PAY ALL FEES FOR PERMITS, AND CHECK ALL OVERNING AUTHORITIES' SPECIFICATIONS FOR GUTTERS, SIDEWALKS, POLES, AND OTHER STRUCTURES, INCLUDING REMOVAL OR RELOCATION OF EXISTING UTILITIES OR OTHER PHYSICAL OBJECTS SHOWN ON PLANS OR OTHERWISE NOTED OR REQUIRED.
7. DO NOT SCALE THESE DRAWINGS, SHOULD ANY DIMENSIONAL DISCREPANCIES BE ENCOUNTERED, CLARIFICATIONS SHALL BE OBTAINED FROM THE ARCHITECT.
8. UNLESS OTHERWISE NOTED ON THESE DRAWINGS OR IN THE SPECIFICATIONS AS BEING N.I.C. OR EXISTING, ALL ITEMS, MATERIALS, ETC., AND THE INSTALLATION OF SAME ARE A PART OF THE CONTRACT DEFINED BY THESE DRAWINGS AND SPECIFICATIONS.
9. THE SITE AND BUILDINGS SHALL BE ACCESSIBLE TO AND FUNCTIONAL FOR THE PHYSICALLY HANDICAPPED.
10. ALL RAMPS SHALL HAVE A NON-SLIP FINISH.
11. DETAILS ARE INTENDED TO SHOW THE INTENT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT THE FIELD DIMENSIONS OF CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK OF THE CONTRACT.
12. THE CLIENT, ARCHITECT, CONSULTANTS AND ALL INSPECTIONS FROM PERTINENT AGENCIES SHALL BE PERMITTED ACCESS TO THE JOB SITE AT ALL TIMES DURING NORMAL WORKING HOURS.
13. THE CONTRACTOR SHALL VERIFY INSERTS AND EMBEDDED ITEMS WITH ALL APPLICABLE DRAWINGS BEFORE POURING CONCRETE.
14. REFER MECHANICAL/ELECTRICAL, PLUMBING AND CIVIL DRAWINGS FOR UTILITY SERVICES AND SITE DEVELOPMENT WORK.

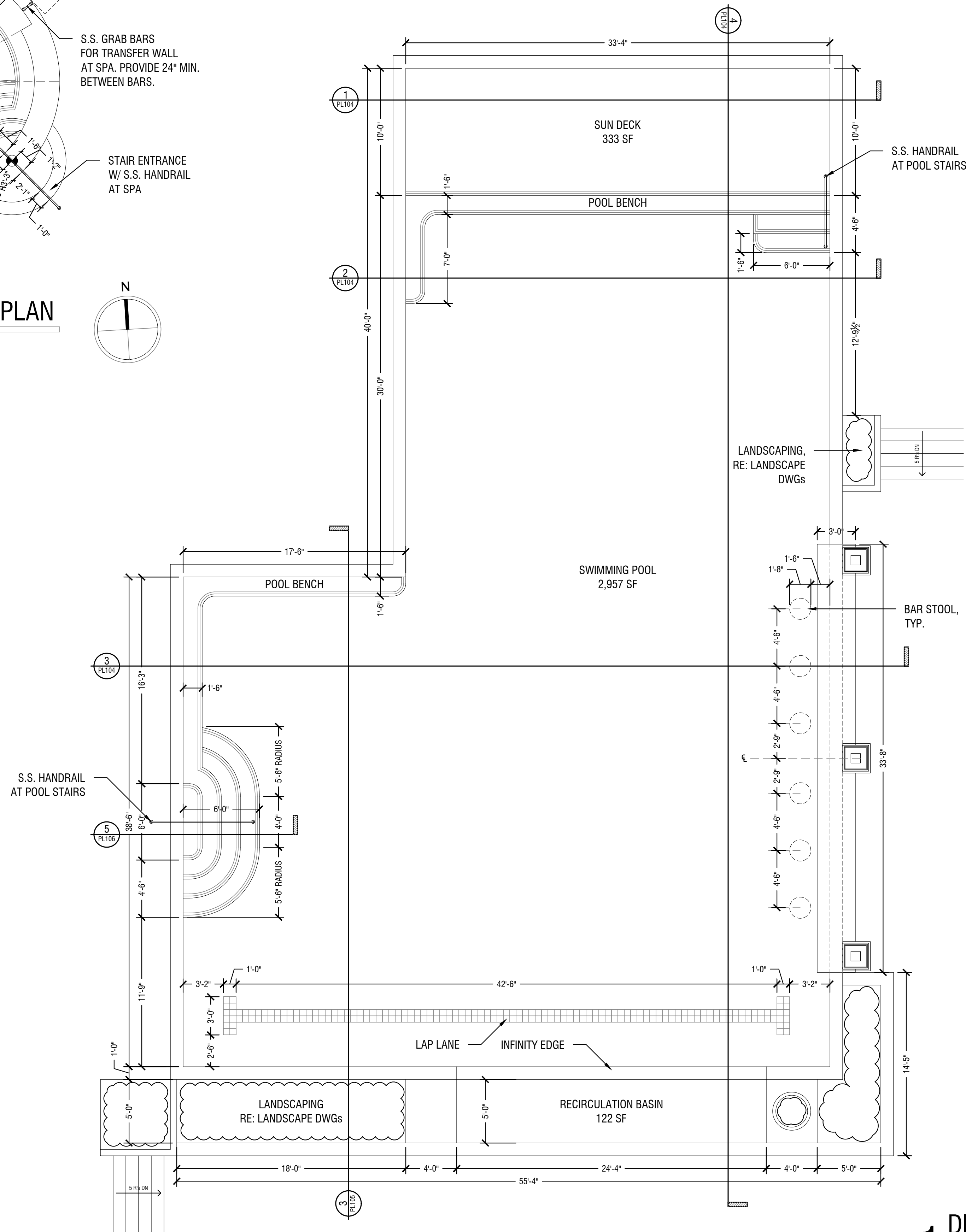
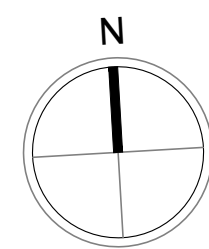




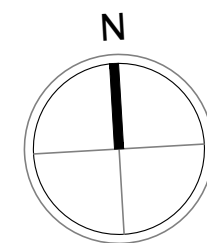
3 SPA SECTIONS  
SCALE: 3/16" = 1'-0"



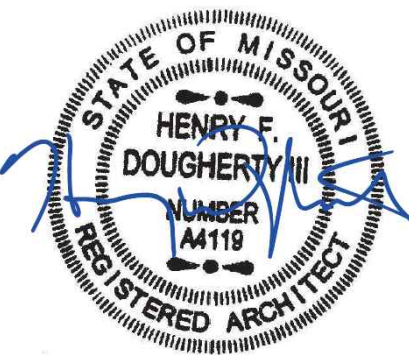
2 SPA DIMENSIONED PLAN  
SCALE: 3/16" = 1'-0"



1 DIMENSIONED POOL PLAN  
SCALE: 3/16" = 1'-0"



SEAL



08/12/2024

ISSUED: AUGUST 12, 2024

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SCOUT EXCEL POOL LIFT

U.S. PATENT NO. D507,769 S

PRODUCT WEIGHT: 150 LBS  
MAX WEIGHT CAPACITY: 375 LBS [170kg]  
MIN ADA ANCHOR SETBACK: 19"  
MAX ANCHOR SETBACK: 44"  
MAX WATER DRAFT: 10"  
SEAT HEIGHT ADJUSTMENT: 16" IN 4" INCREMENTS  
VERTICAL TRAVEL DISTANCE: 45.75"

54 3/8"  
86 7/8"  
17 3/4"  
36"  
44" MAX  
10" MAX DECK TO WATER  
28"

75 5/8"  
59 1/8"

93 1/8"  
76 5/8"

UPRIGHT  
CONTINUOUS 360° ROTATION  
EXTENDED

9889 GARRYMORE LANE  
MISSOULA, MT 59808  
(406) 549-8769  
FAX (406) 549-2602

NOTE: \*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

PROJECT: SCOUT EXCEL  
PART: F-SCTXL  
SCALE: 1:30  
DATE: 4/20/2020  
DRAWN BY: KR  
REVISION: A

## POOL PLAN NOTES

- DECK BY OTHERS. SLOPE AWAY FROM POOL
- BULLNOSE CANTILEVERED PRECAST CONCRETE COPING
- PLASTER FINISH. SGM DIAMOND BRITE - SUPER BLUE
- DEPTH MARKER. SET INTO POOL COPING
- POOL BENCH
- 2" X 2" SLIP-RESISTANT CONTRASTING TILE ON FRONT AND EDGES AT STEPS AND UNDERWATER BENCHES. COLOR: SELECTED BY OWNER
- STAINLESS STEEL HANDRAIL WITH HEAVY DUTY BRONZE RAIL ANCHOR SOCKET INCLUDING A BONDING LUG.
- STAINLESS STEEL POOL LADDER (NOT USED)
- PENTAIR INTELLIBRITE
- PENTAIR GLOBRITE
- FLOOR RETURN
- SKIMMER
- ANTI-VORTEX DUAL MAIN DRAIN (VGB COMPLIANT). INCLUDE HYDROSTATIC RELIEF VALVE.

### NOTES

THE POOL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING, VERIFYING, SUPPLYING AND INSTALLING THE EQUIPMENT, INCLUDING PUMPS, FILTERS, PIPING, INLETS, SKIMMERS, DRAINS, APPROPRIATELY SIZED FOR THE SIZE OF POOL DESIGNED. THE EQUIPMENT SHALL BE SIZED TO OPTIMIZE THE LIFE OF THE EQUIPMENT AND EFFICIENCY OF THE SYSTEM AND STILL MEET THE REQUIREMENTS OF A SAFE AND CLEAN POOL.

THE POOL CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT, MISSOURI, AND OTHER GOVERNING ORDINANCES AND CODES REGARDING THE CONSTRUCTION OF PUBLIC SWIMMING POOLS.

### SUCTION ENTRAPMENT

ISPPSC 2018 SECTION 310: SUCTION ENTRAPMENT AVOIDANCE

310.1 GENERAL  
SUCTION ENTRAPMENT FOR POOLS AND SPAS SHALL BE PROVIDED IN ACCORDANCE WITH APSP-7.

The detailed pool plan shows a rectangular pool with a curved edge on the left. The pool is surrounded by a deck. Various features are labeled with callouts: 1. Deck by others, slope away from pool. 2. Bullnose cantilevered precast concrete coping. 3. Plaster finish, SGM Diamond Brite - Super Blue. 4. Depth marker, set into pool coping. 5. Pool bench. 6. 2" x 2" slip-resistant contrasting tile on front and edges at steps and underwater benches. Color: selected by owner. 7. Stainless steel handrail with heavy duty bronze rail anchor socket including a bonding lug. 8. Stainless steel pool ladder (not used). 9. Pentair Intellibrite. 10. Pentair Globrite. 11. Floor return. 12. Skimmer. 13. Anti-vortex dual main drain (VGB compliant). Include hydrostatic relief valve. The plan also shows the pool equipment area, a bar counter top by others, a bar stool, and a 32" channel drain. A north arrow is located in the bottom right corner.

ADA CLEAR DECK SPACE  
4'-0"  
3'-0"  
1'-0"  
2'-7" MIN  
DECK WATER  
1'-7" MIN  
3'-8" MAX

2 ADA POOL LIFT  
SCALE: N.T.S.

1 DETAILED POOL PLAN  
SCALE: 1/8" = 1'-0"

ARCHITECT  
B+A ARCHITECTURE  
600 BROADWAY BLVD, SUITE 290  
KANSAS CITY, MO 64105  
PH: 816-753-6100

## RESIDENCES AT BLACKWELL

2951 SE SHENANDOAH DRIVE  
LEE'S SUMMIT, MO 64063

SEAL

08/12/2024

ISSUED: AUGUST 12, 2024

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DETAILED POOL PLAN

PL103





22951 SE SHENANDOAH DRIVE  
LEE'S SUMMIT, MO 64063

SUED: AUGUST 12, 2024

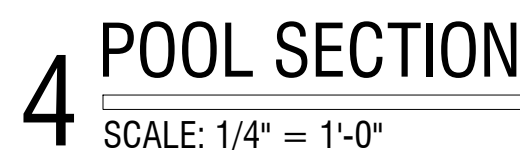
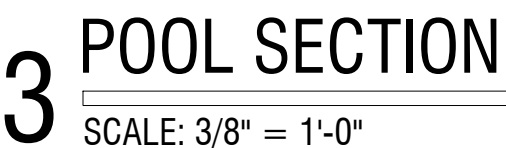
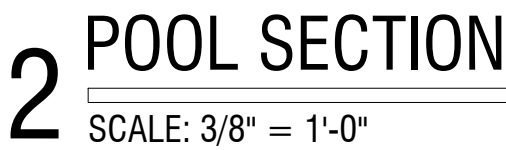
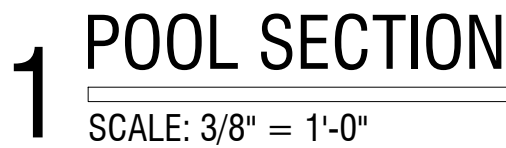
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## POOL SECTIONS

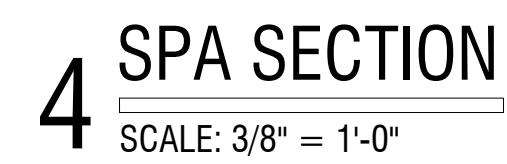
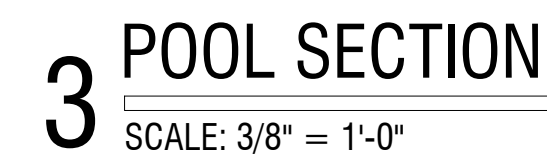
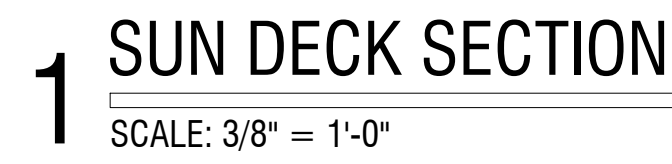
# PL104

1. DECK BY OTHERS. SLOPE AWAY FROM POOL
2. BULLNOSE CANTILEVERED PRECAST CONCRETE COPING
3. PLASTER FINISH. SGM DIAMOND BRITE - SUPER BLUE
4. 6" X 6" WATERLINE TILE. COLOR: SELECTED BY OWNER
5. DEPTH MARKER
6. POOL BENCH
7. 2" X 2" SLIP-RESISTANT CONTRASTING TILE ON FRONT AND EDGES AT STEPS AND UNDERWATER BENCHES. COLOR: SELECTED BY OWNER
8. STAINLESS STEEL HANDRAIL WITH HEAVY DUTY BRONZE RAIL ANCHOR SOCKET INCLUDING A BONDING LUG
9. STAINLESS STEEL POOL LADDER (NOT USED)
10. BOND BEAM 12" X 24" UNLESS NOTED OTHERWISE.
11. #4 REBAR @ 12" O.C.E.W.
12. 12" OF 1/2" CLEAN GRAVEL

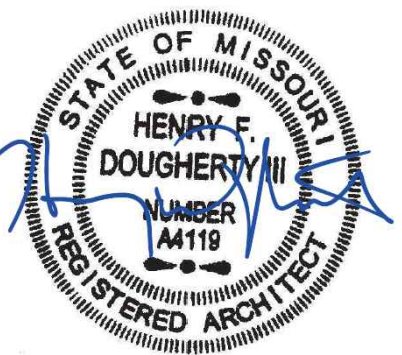




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2. BULLNOSE CANTILEVERED PRECAST CONCRETE COPING
3. PLASTER FINISH. SGM DIAMOND BRITE - SUPER BLUE
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9. STAINLESS STEEL POOL LADDER (NOT USED)
10. BOND BEAM 12" X 24" UNLESS NOTED OTHERWISE.
11. #4 REBAR @ 12" O.C.E.W.
12. 12" OF 1/2" CLEAN GRAVEL



SEAL



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## POOL SECTIONS

**DI 105**

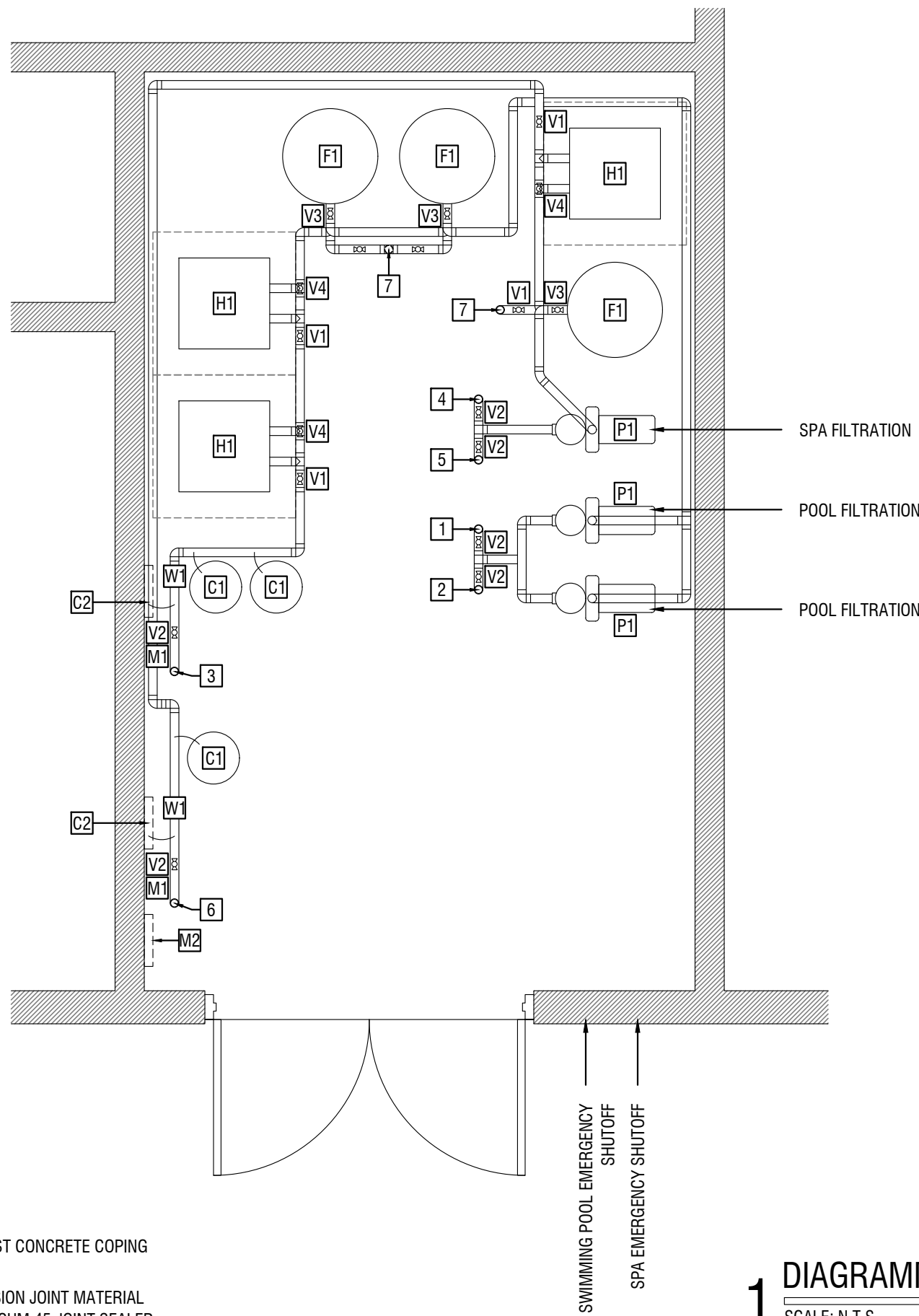
## PLUS

## 1.100

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- NOTES
- RECIRCULATION POOL PUMP MUST PROVIDE A TURNOVER RATE OF WATER IN SIX (6) HOURS OR LESS
  - THE POOL CONTRACTOR WILL FURNISH A MSDS SHEET UPON FINAL INSPECTION.
  - RETURN LINES AND SUPPLY LINES TO THE POOL SHALL BE SCHEDULE 80.
  - POOL PUMP EQUIPMENT SHALL BE BONDED PER NEC 2017 680.26(6)



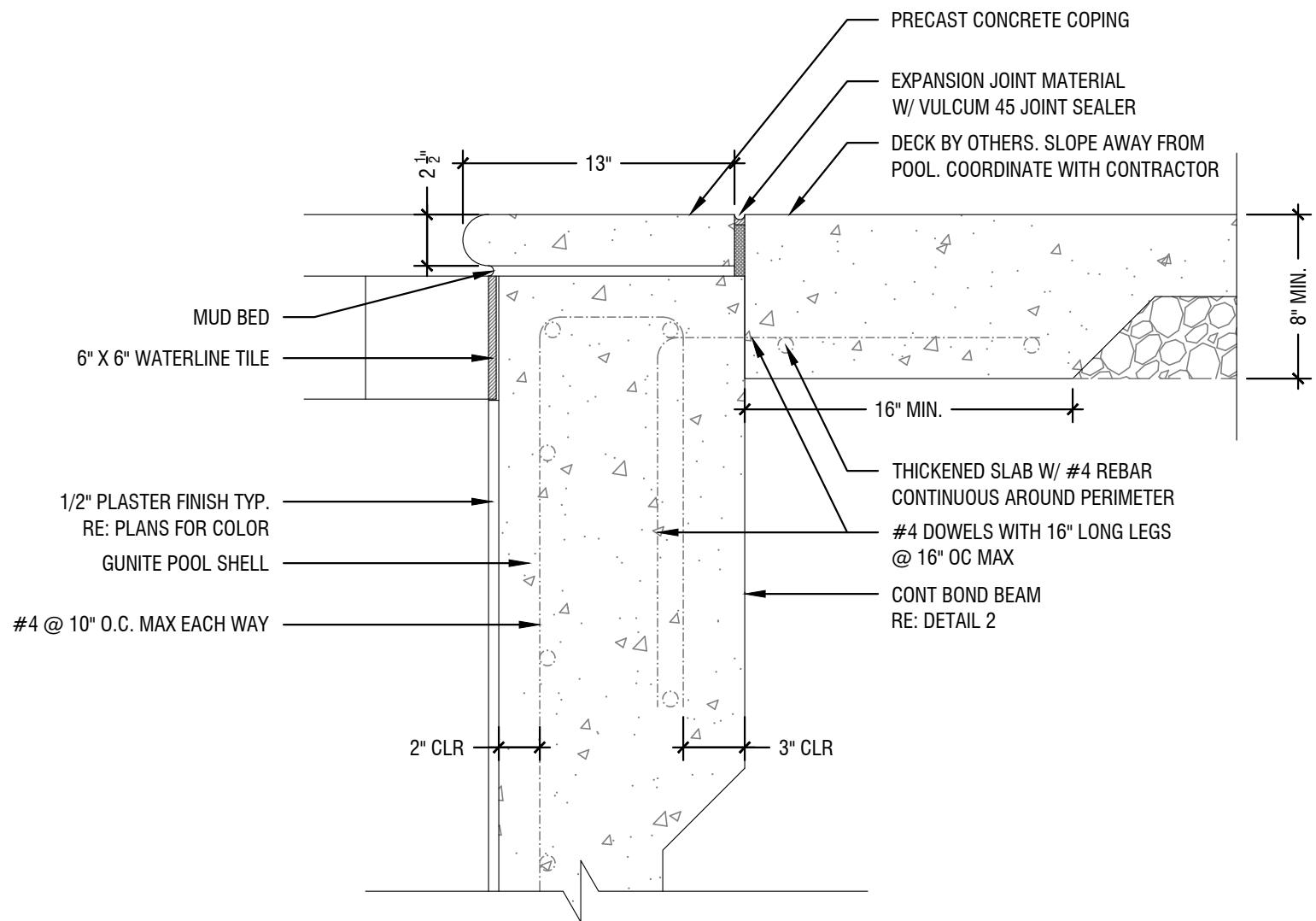
#### POOL EQUIPMENT ROOM LEGEND

P1	PENTAIR WHISPERFLO XF - VARIABLE SPEED PUMP	1	4" SCH 80 PVC FROM POOL MAIN DRAINS
F1	PENTAIR TRITON TR140C	2	4" SCH 80 PVC FROM POOL SKIMMERS
H1	PENTAIR MASTER TEMP 400 ASME HD HEATER	3	4" SCH 80 PVC TO POOL RETURNS
C1	PENTAIR 300-28X, CHLORINE FEEDER	4	3" SCH 80 PVC FROM SPA MAIN DRAIN
C2	PENTAIR INTELICHEM, CHEMICAL CONTROLLER	5	3" SCH 80 PVC FROM SPA SKIMMERS
V1	CHEMICAL RESISTANT, CORROSION RESISTANT CHECK VALVE	6	4" SCH 80 PVC TO SPA RETURNS
V2	BALL VALVE	7	4" SCH 80 PVC BACKWASH LINE TO SANITARY
V3	DRAIN VALVE		
V4	HEATER BYPASS VALVE		
M1	FLOW METER (CONNECT TO CHEMICAL CONTROLLER)		
W1	FRESH WATER FEED & ACTUATOR - PENTAIR AUTOFLL. CONTRACTOR TO FIELD LOCATE AUTOFILL SLIP STYLE SENSOR PER MANUFACTURERS INSTRUCTIONS.		
M2	CARBON MONOXIDE ALARM		

NOTE:  
GENERAL CONTRACTOR SHALL COORDINATE WITH THE POOL CONTRACTOR THE LOCATION AND SIZE OF THE BLOCKOUTS IN THE CONCRETE FOOTINGS AND THE FLOOR SLAB FOR THE POOL PIPING PRIOR TO THE INSTALLATION OF THE FOOTINGS.

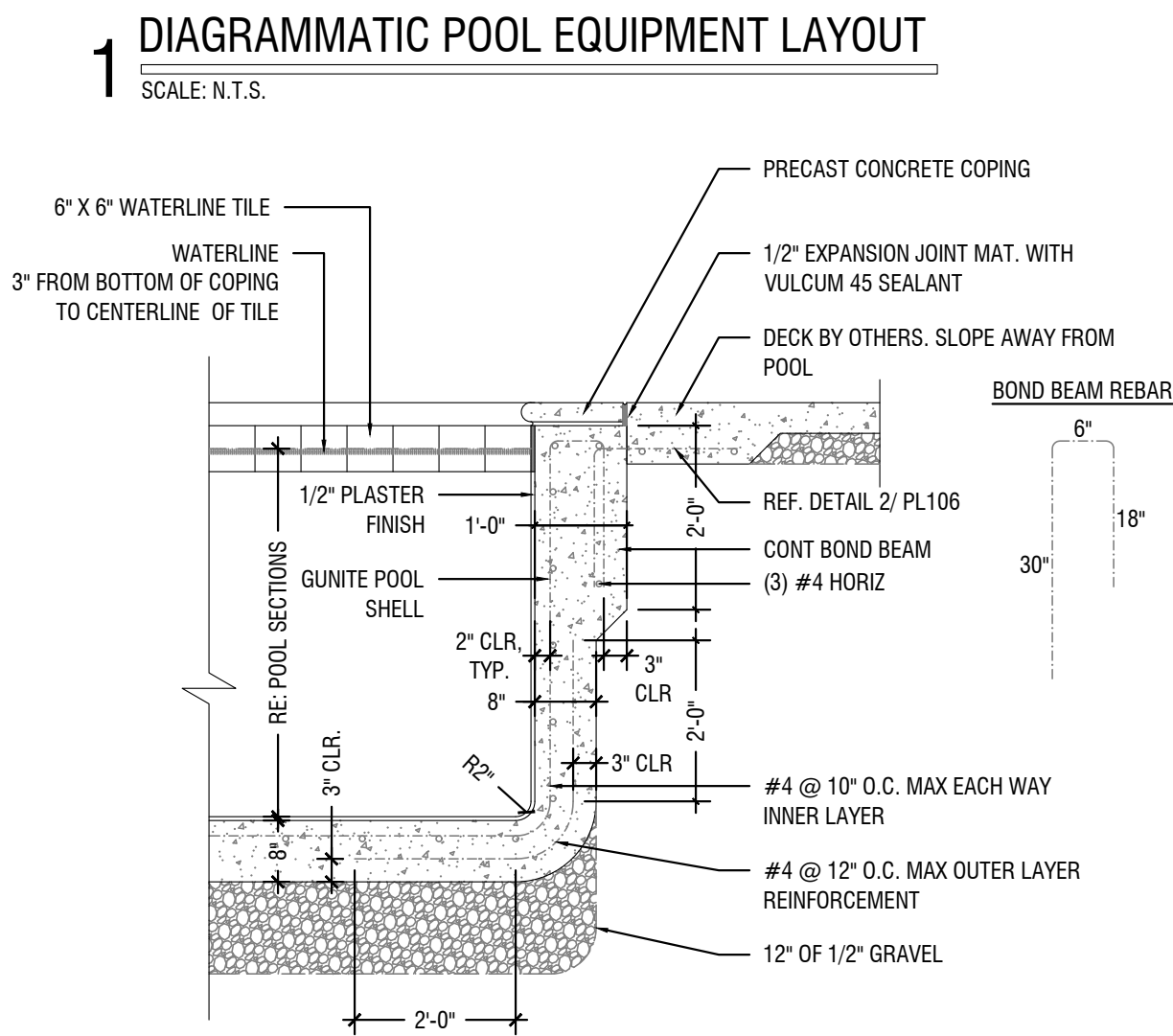
#### POOL EQUIPMENT ROOM PROVISIONS

1. VENTING FOR HEATERS. (1) 4" PVC PIPE RUNNING DIRECTLY FROM THE BUILDING EXTERIOR TO HEATER FOR COMBUSTION + SEPARATE 4" PVC LINE FROM HEATER BACK TO EXTERIOR FOR VENTILATION (A TOTAL OF 4 PIPES IF (2) HEATERS ARE USED). THESE LINES MAY RUN FOR A DISTANCE OF UP TO 100' (SUBTRACTING 10 LF FOR EVERY 90 DEGREE BEND IN THE PIPE). IF THE DISTANCE FROM THE HEATER TO THE EXTERIOR EXCEEDS 100', 6" PVC PIPE MAY BE USED FOR UP TO 300'.
2. PROVIDE 1" (3/4" MIN) FRESH WATER LINE FOR POOL AND SPA AUTOFILLS. PROVIDE BACKFLOW PREVENTER (RP2) ON WATER LINE. (RE: PLUMBING DWGS)
3. REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN AND SINK LOCATIONS.
4. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL PANEL INFORMATION.
5. CONTRACTOR TO FIELD LOCATE AIR LINE AND VENTS FOR SPA JETS.
6. PROVIDE OVERFLOW DRAIN LINE ON ONE SKIMMER FOR EACH OF THE POOL AND SPA. OVERFLOW DRAIN LINE CONTINUATION BY OTHERS.
7. ALL WIRING, CONNECTIONS AND CONDUIT SHALL BE IN CONFORMANCE WITH THE 2017 NATIONAL ELECTRICAL CODE APPLICABLE SECTIONS. REFER TO ELECTRICAL DRAWINGS FOR ALL RECEPTACLES, OVERCURRENT PROTECTION, ELECTRICAL PANEL AND ASSOCIATED WIRING.
8. UTILIZE BALL VALVES ON ALL PLUMBING LINES TO LIMIT FLOW TO THE DESIGN RATES SHOWN ON SHEET PL100. VARIABLE SPEED PUMPS SHALL HAVE THEIR SPEED SETTINGS LOCKED. EXCEEDING THE FLOW RATES SHOWN MAY DAMAGE PLUMBING AND EQUIPMENT.
9. PROVIDE MECHANICAL VENTILATION IN EQUIPMENT ROOM. EQUIPMENT ROOM SHALL BE VENTILATED TO PREVENT AMBIENT ROOM TEMPERATURES FROM EVER EXCEEDING 100 DEGREES FAHRENHEIT - DOING SO MAY VOID EQUIPMENT WARRANTIES.
10. PROVIDE EMERGENCY LAND LINE TELEPHONE WITHIN POOL ENCLOSURE (RE: BUILDING PLANS).
11. ALL PLUMBING SUSPENDED FROM WALLS OR CEILING SHALL BE SCHEDULE 80.
12. PROVIDE HOSE BIBB CONNECTION ON POOL DECK.
13. ALL EQUIPMENT SHALL BE HELD ABOVE FLOOR ON HOUSEKEEPING PADS.
14. AVOID MIXING CHLORINE AND ACID - DOING SO WILL CREATE POTENTIALLY FATAL GASSES.
15. PROVIDE BLOCKOUTS THROUGH EQUIPMENT ROOM FOR PLUMBING. COORDINATE BLOCKOUTS WITH CONTRACTOR AND STRUCTURAL ENGINEER.
16. PLUMBING LAYOUT ON THIS SET OF DRAWINGS IS A DIAGRAMMATIC EXHIBIT. FIELD ADJUST TO AVOID FOOTINGS AND OTHER OBSTACLES.



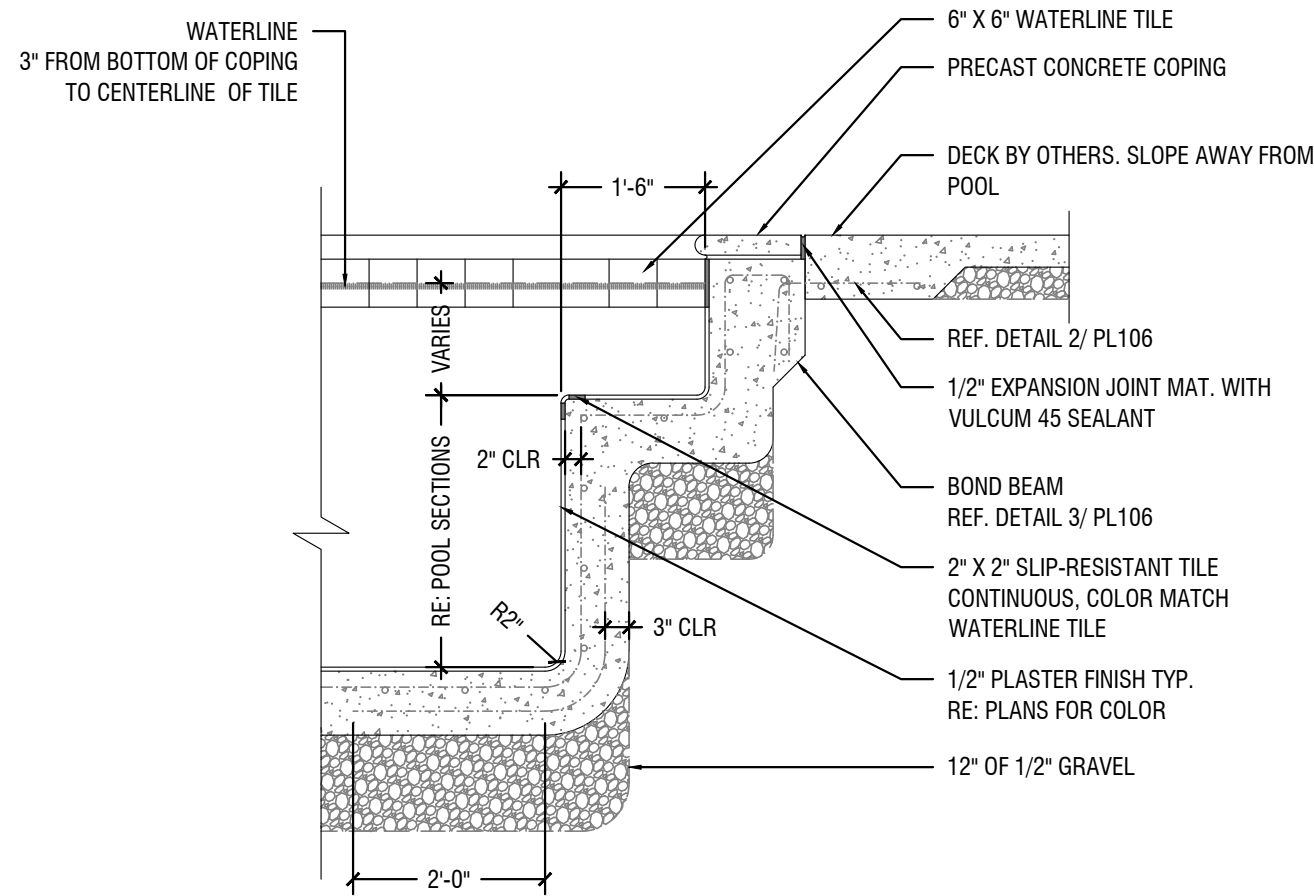
#### 2 POOL COPING DETAIL

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



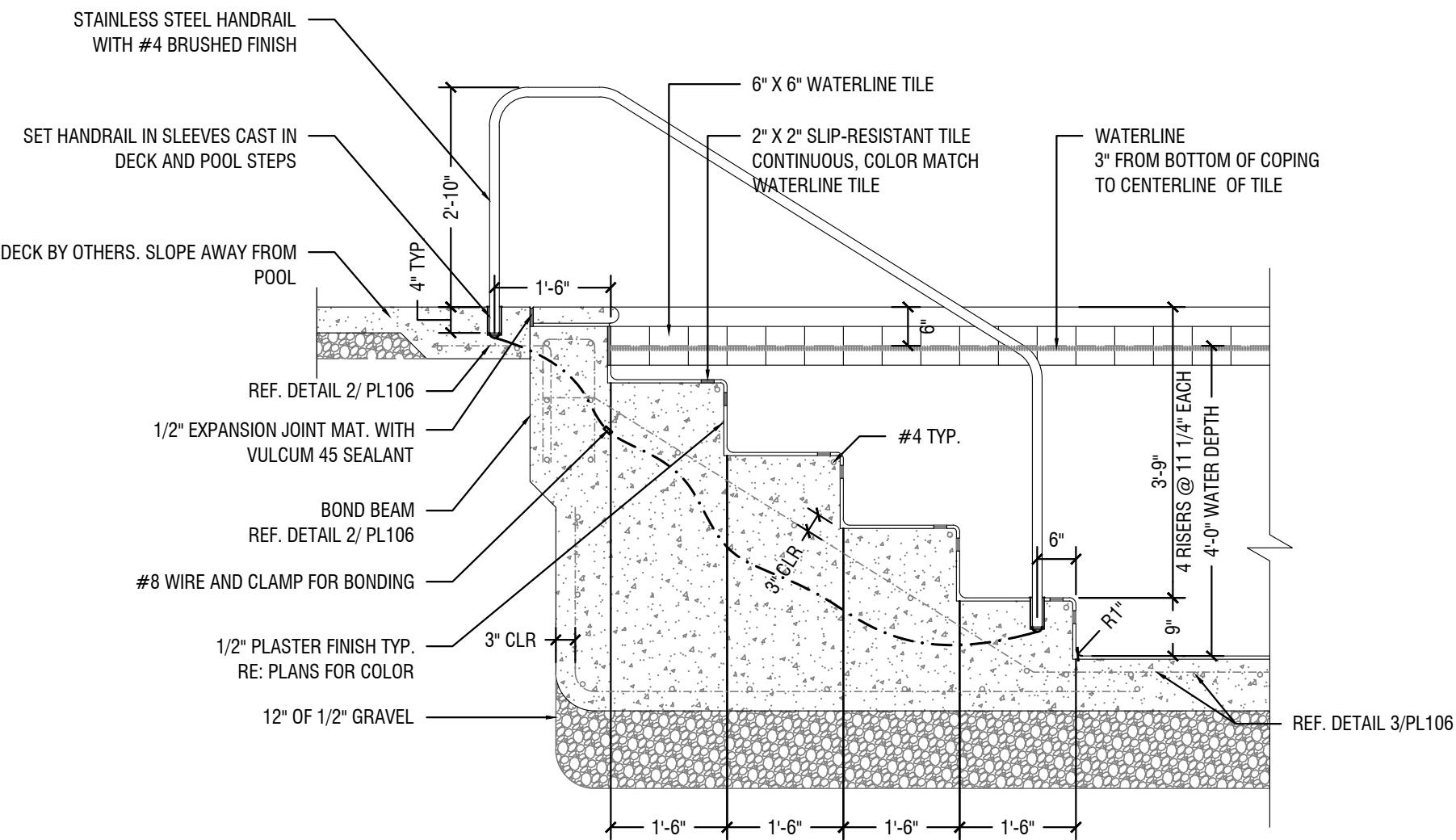
#### 3 POOL WALL DETAIL

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



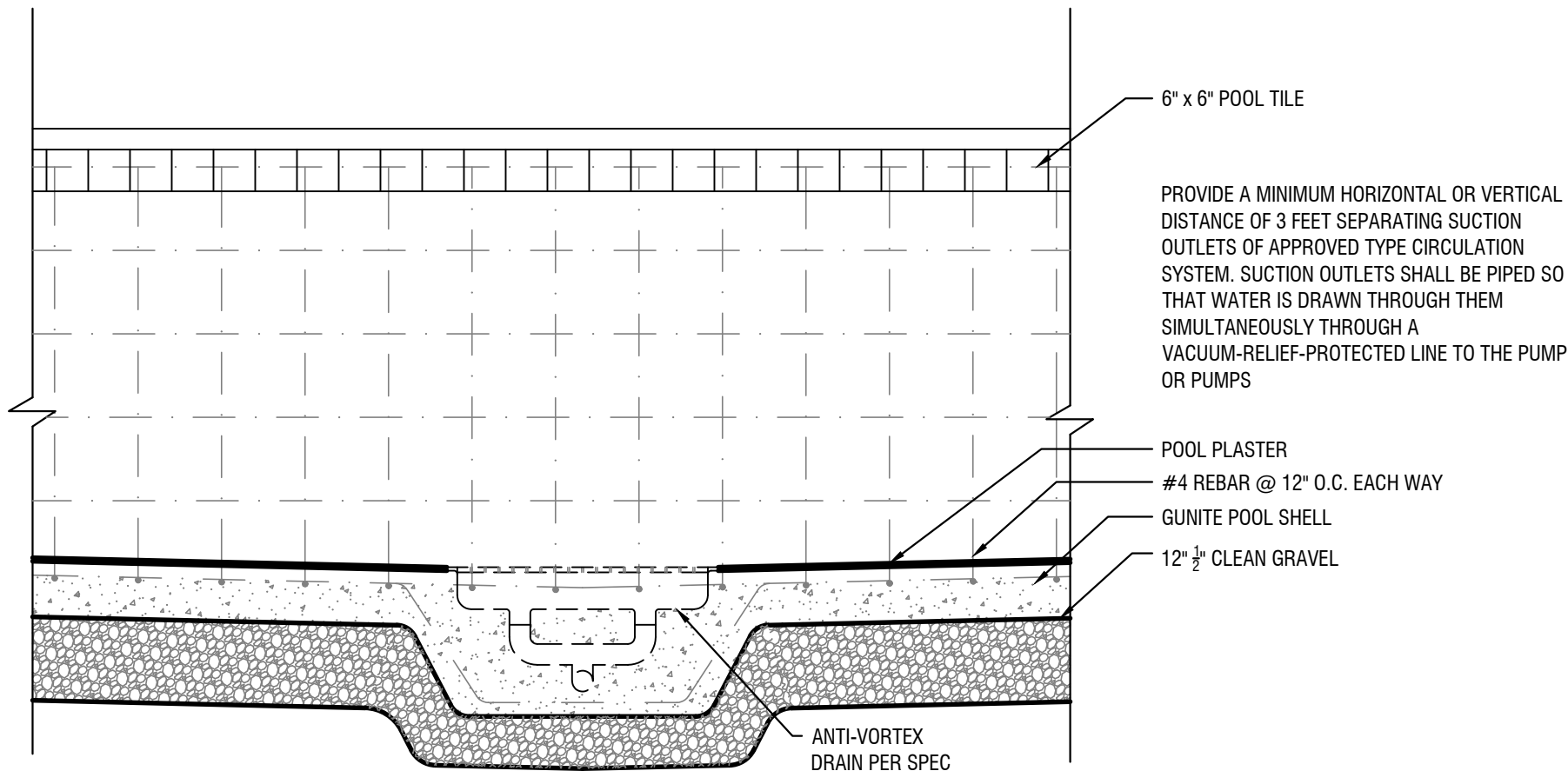
#### 4 POOL BENCH DETAIL

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



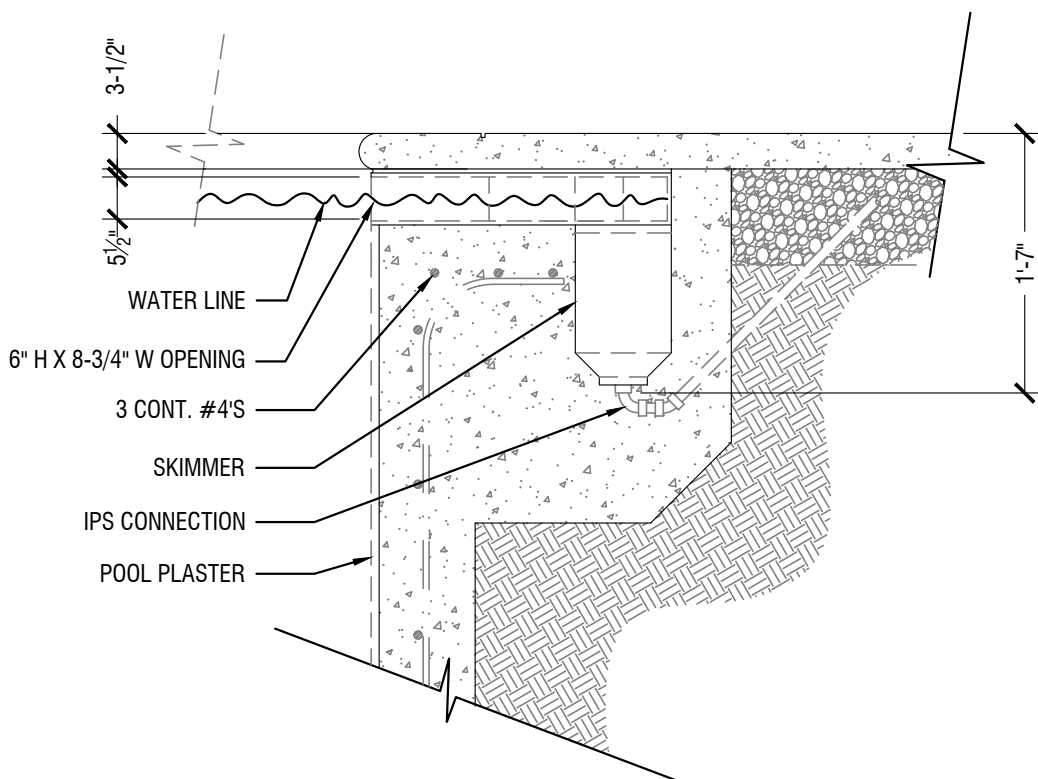
#### 5 POOL STAIRS DETAIL

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



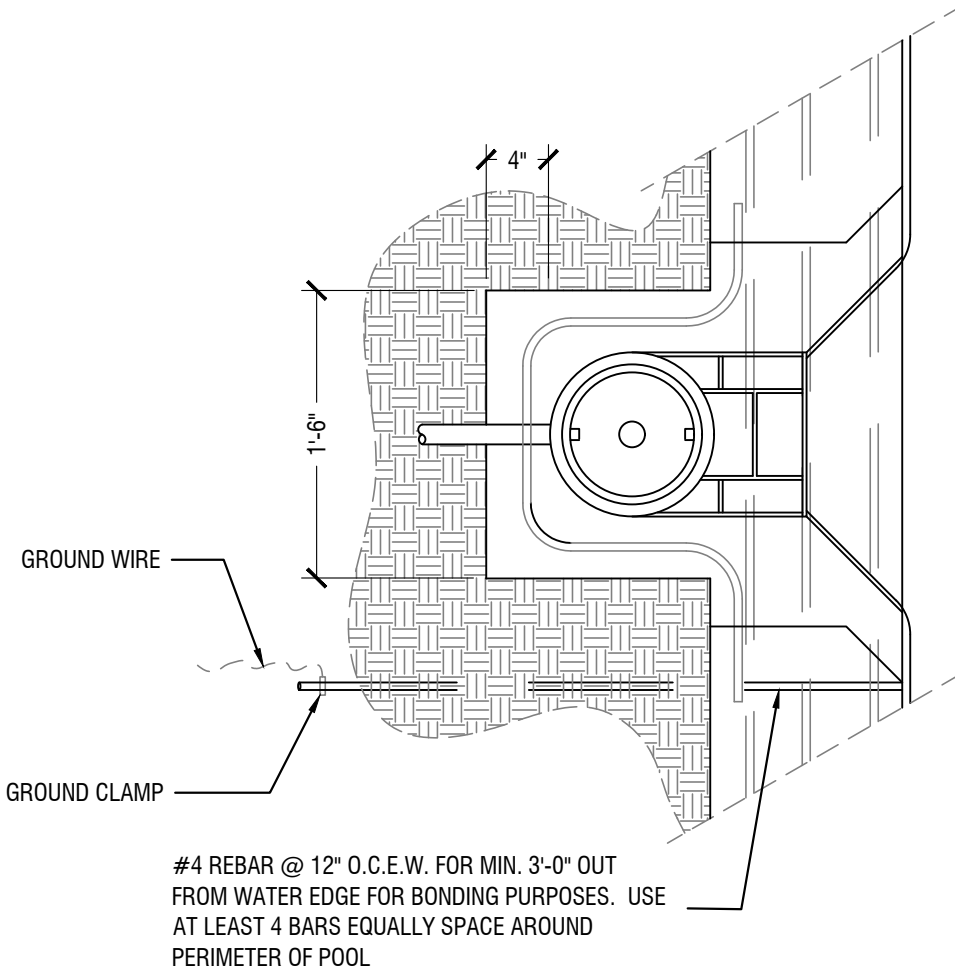
#### 6 SECTION AT DRAIN

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



#### 7 SKIMMER DETAIL

NOT TO SCALE



#### 8 SKIMMER PLAN

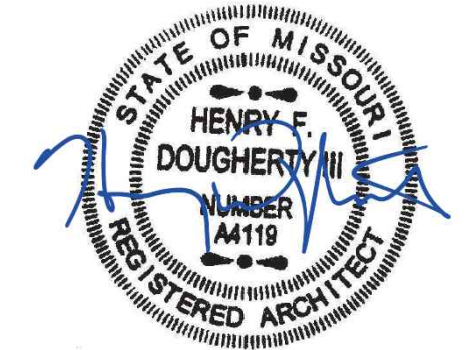
NOT TO SCALE



ARCHITECT  
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600 BROADWAY BLVD, SUITE 290  
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PH: 816-753-6100

RESIDENCES AT BLACKWELL  
2951 SE SHENANDOAH DRIVE  
LEES SUMMIT, MO 64063

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POOL DETAILS

PL106

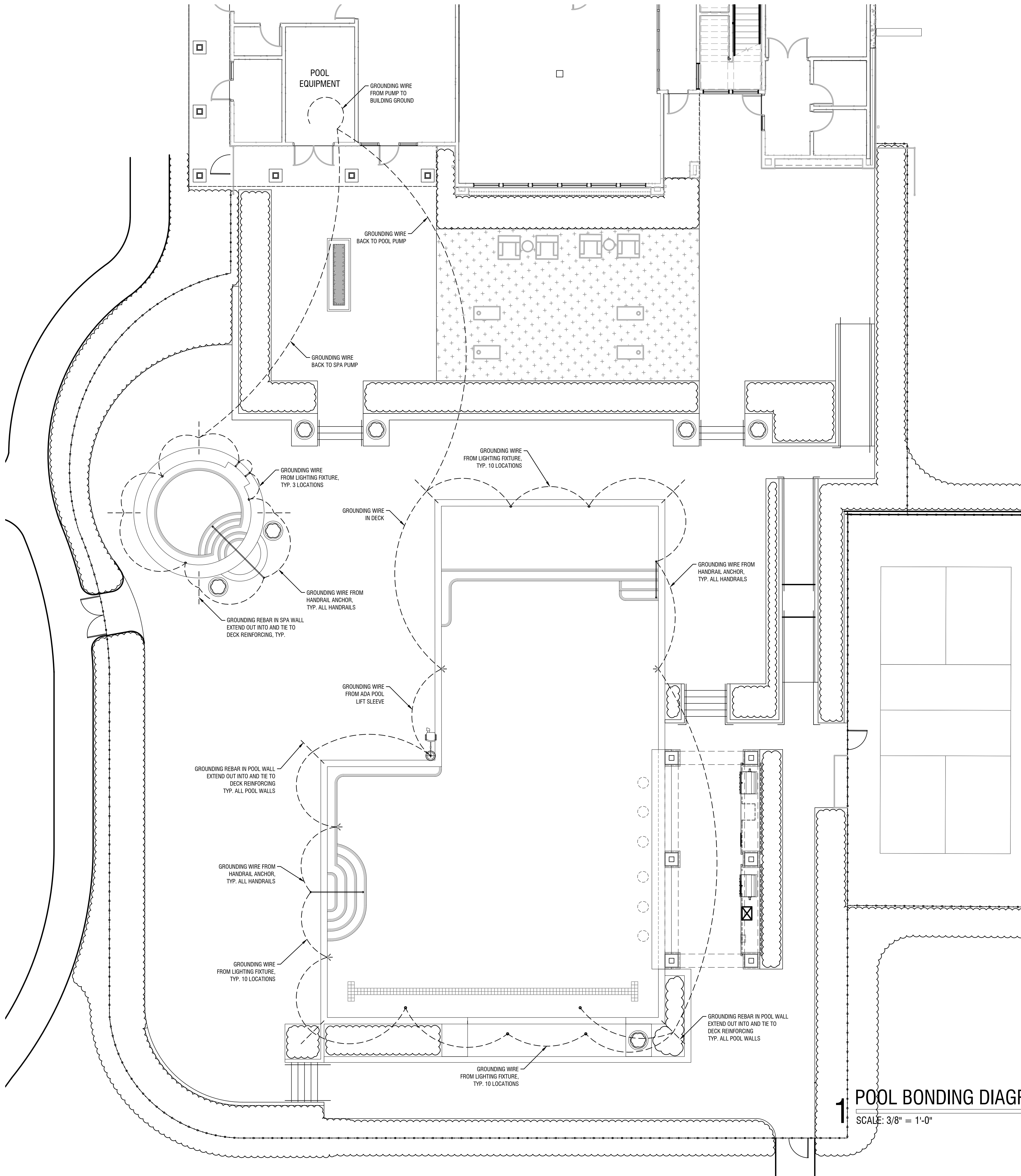


## BONDING METHODS

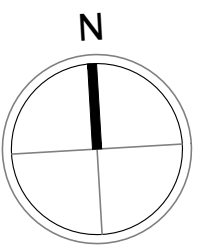
TWO OPTIONS ARE PROVIDED BELOW FOR EQUIPOTENTIAL BONDING. USE OPTION ONE WHEN STEEL REBAR IS USED THAT IS NON-CONDUCTIVE. USE OPTION TWO WHEN EPOXY-COATED-REBAR IS USED.

1. INSTALL REBAR IN A GRID PATTERN, AS SHOWN, AT EACH POINT WHERE THE REBAR CROSSES, THE REBAR SHALL BE TIED TOGETHER BY STEEL TIE WIRE. THIS STEEL REBAR CAGE PROVIDES AN EQUIPOTENTIAL BONDING GRID TO WHICH ALL METAL PARTS IN THE POOL AND ANY METAL PARTS IN THE AREA SURROUNDING THE POOL SHALL BE ATTACHED USING A SOLID COPPER CONDUCTOR, NOT SMALLER THAN 8 AWB (AMERICAN GAGE WIRE)

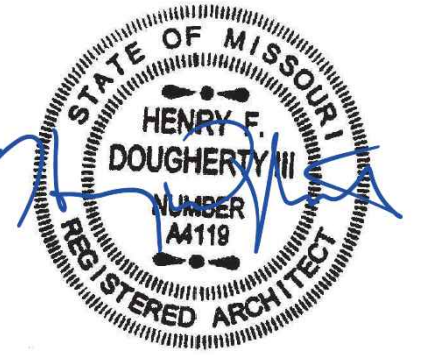
2. THIS ALTERNATIVE-BONDING GRID SHALL BE CONSTRUCTED OF MINIMUM 8 AWG BARE, SOLID-COPPER CONDUCTORS ARRANGED IN A 12 X 12 INCH NETWORK OF CONDUCTORS WITH A TOLERANCE OF FOUR INCHES AND SHALL BE INSTALLED IN A UNIFORMLY SPACED PERPENDICULAR GRID PATTERN, AND SHALL COVER THE CONTOUR OF THE INSIDE OF THE POOL AND EXTEND HORIZONTALLY INTO THE POOL DECKING BY A MINIMUM OF THREE FEET. THESE CONDUCTORS MUST BOND TO EACH OTHER AT ALL POINTS OF CROSSING AND CONNECTIONS MUST BE MADE IN ACCORDANCE WITH THE REQUIREMENTS IN SECTION 250.8, SUCH AS EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS, LISTED CLAMPS OR OTHER LISTED MEANS. THE FINAL REQUIREMENT IS TO SECURE THE BELOW-GRADE BONDING GRID WITHIN OR UNDER THE POOL AND DECK.



**1 POOL BONDING DIAGRAM**  
SCALE: 3/8" = 1'-0"



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