GENERAL NOTES:

1. "POOL" MEANS ANY SWIMMING POOL, SPA POOL, WADING POOL, ETC. INCLUDED IN THIS PROJECT.
2. NIPC = NOT IN POOL CONTRACT.
3. ALL POOLS INCLUDED ON THIS PLAN SHALL BE BUILT BY A LICENSED POOL CONTRACTOR IN THE STATE WHERE THE POOLS ARE BEING BUILT.
4. WATER DESIGN IS NOT RESPONSIBLE FOR MEANS, METHODS OR JOB SITE SAFETY ITEMS.
5. ALL PLAN DIMENSIONS ARE POOL WALL TO POOL WALL, UNLESS OTHERWISE NOTED (U.O.N.).
6. THE MAXIMUM WATER TEMPERATURE FOR A SPA IS 104°F.
7. A PUBLIC POOL MUST BE EQUIPPED WITH A FIRST AID KIT WHICH INCLUDES AT A MINIMUM THE ALL THE ITEMS LISTED IN THE REQUIRED SAFETY EQUIPMENT NOTES. THE POOL CONTRACTOR SHALL PROVIDE THE FIRST AID KIT TO THE OWNER.
8. ALL POOLS SHALL COMPLY WITH THE INTERNATIONAL SWIMMING POOL AND SPA CODE (ISPSC), THE STATE OF COLORADO HEALTH REGULATION FOR DESIGN, CONSTRUCTION AND OPERATION OF PUBLIC POOLS, AS WELL AS OTHER LOCAL STANDARDS (E.G. INTERNATIONAL BUILDING CODE [IBC], THE ANSI/APSP/ICC STANDARDS) FOR PUBLIC POOLS.
9. ALL CORNERS PROTRUDING INTO POOLS OR SPAS SHALL BE A 2 INCH RADIUS OR LARGER.
10. POOLS SHALL NOT BE LOCATED WHERE GROUND WATER EXISTS ABOVE BOTTOM OF POOL DURING HIGH WATER TABLE OCCURRENCES UNLESS TWO (2) HYDROSTATIC RELIEF VALVES ARE INSTALLED AT THE LOW POINT IN THE POOL.
11. POOL FLOOR SHALL NOT EXCEED A 1'–0" DROP IN ELEVATION FOR EACH 10'–0" IN HORIZONTAL DISTANCE IN WATER DEPTHS LESS THAN 5 FEET AND MAXIMUM 1'–0" DROP IN ELEVATION FOR EACH 3'–0" IN HORIZONTAL DISTANCE IN WATER DEPTHS GREATER THAN 5 FEET.
12. DEPTH MARKERS TO BE AT SIDES AND AT EACH END OF PERIMETER OF POOL.
13. ENGINEERING CONSULTANTS, ARCHITECT, AND POOL CONTRACTOR SHALL NOT BE HELD LIABLE, NOR RESPONSIBLE, FOR ANY LIFE SAFETY ISSUES REGARDING THE OPERATION OF THE POOL AND POOL FACILITIES.
14. PRIOR TO INSTALLATION OF THE POOL, A PLOT PLAN WILL BE SUBMITTED TO THE BUILDING INSPECTION DEPARTMENT FOR APPROVAL. CONSTRUCTION SHALL NOT BEGIN BEFORE FINAL PLANS ARE SUBMITTED AND A PERMIT FOR CONSTRUCTION IS ISSUED BY THE REGULATORY AUTHORITY. THE FOLLOWING INFORMATION MUST APPEAR ON THE POOL PLOT PLAN:
   A. THE DISTANCE FROM THE EDGE OF THE WATER TO ALL FOOTINGS, PROPERTY LINES, AND TOP AND TOES OF SLOPES.
   B. THE DEPTH OF THE POOL.
   C. THE LOCATION OF EXISTING OR PROPOSED FENCING, COMPLYING WITH FENCE ORDINANCES.
15. PRIOR TO BEGINNING CONSTRUCTION OF THE POOL, THE CONTRACTOR MUST SUBMIT PLANS TO THE LOCAL HEALTH DEPT. AND RECEIVE BACK A COPY OF THE APPROVED PLANS.
16. A 15 MINUTE (MAXIMUM) TIMER MUST BE PROVIDED FOR EACH JET PUMP AT A LOCATION AWAY FROM THE SPA WATER'S EDGE WHERE BATHERS MUST EXIT SPA TO RESET. SEE ELECTRICAL ITEMS. (NIPC).
17. AN EMERGENCY SHUT–OFF SWITCH MUST BE PROVIDED FOR THE SPA IN ACCORDANCE WITH THE 2020 NEC ARTICLE 680 OR CURRENT ADOPTED ELECTRICAL CODE. SEE ELECTRICAL ITEMS.(NIPC).
18. A DIVING BOARD IS NOT PERMITTED.
19. IN THE POOL PLANS, WATER DEPTH IS INDICATED BETWEEN ARROWHEADS (e.g. <3'–6">).

ITEMS PROVIDED BY GENERAL CONTRACTOR:

(NIPC)

(THE FOLLOWING ITEMS SHALL BE PROVIDED, HOWEVER THE GENERAL CONTRACTOR'S RESPONSIBILITIES ARE NOT LIMITED TO THESE ITEMS.)

1. NIPC = NOT IN POOL CONTRACTORS CONTRACT.
2. ALL SITE PREPARATION BY GENERAL CONTRACTOR.
3. THE GENERAL CONTRACTOR SHALL VERIFY THE LOCATION OF CABLES, CONDUITS, PIPES, SEWERS AND OTHER UNDERGROUND UTILITIES AND SHALL TAKE PROPER PRECAUTIONS TO AVOID DAMAGE TO SUCH UTILITIES. IN THE EVENT OF A CONFLICT OR DISCREPANCIES, THE GENERAL CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER AND REQUEST FOR NECESSARY RELOCATION. FAILURE TO FOLLOW THIS PROCEDURE PLACES UPON THE GENERAL CONTRACTOR THE RESPONSIBILITY OF MAKING REPAIR OF REPLACE SUCH DAMAGE AT HIS OWN EXPENSE.
4. RESTROOM FACILITIES AND SHOWERS BY GENERAL CONTRACTOR, SEE DRESSING ROOM AND SANITARY FIXTURE REQUIREMENTS.
5. FENCE, SAFETY COVER, OR BARRIER IS REQUIRED, AND SHALL MEET THE PROVISIONS OF THE INTERNATIONAL SWIMMING POOL AND SPA CODE (ISPSC), SECTION 305. THE FOLLOWING REQUIREMENTS ARE NOT A FULL, NOR EXHAUSTIVE, LIST AND ARE PROVIDED FOR INFORMATION ONLY, SEE SECTION 305 FOR EXACT CODE LANGUAGE AND REQUIREMENTS:
   – FENCE MUST BE 48 INCHES MIN. IN HEIGHT; THERE SHALL BE A 3–FOOT CLEAR ZONE BETWEEN FENCE EXTERIOR AND ANY PERMANENT STRUCTURES OR EQUIPMENT; VERTICAL CLEARANCE BETWEEN GRADE AND THE BOTTOM OF BARRIER SHALL NOT EXCEED 2" FOR NON–SOLID SURFACES (GRASS, GRAVEL, ETC.); OPENINGS IN FENCE SHALL NOT ALLOW A 4"–DIA. SPHERE TO PASS; SOLID BARRIERS SHALL NOT CONTAIN INDENTATIONS OR PROTRUSIONS THAT FORM HANDHOLDS AND/OR FOOTHOLDS; UNLESS HORIZONTAL FENCE MEMBERS ARE INSTALLED 45" MIN. APART FROM EACH OTHER, HORIZONTAL MEMBERS SHALL BE INSTALLED ON THE INTERIOR OF THE FENCE AND VERTICAL FENCE MEMBERS SHALL BE SPACED APART 1.75" MAX.;
   – WHEN PROVIDED, SAFETY COVER MUST BE LOCKABLE AND/OR POWERED AND COMPLY WITH ASTM F1346;
   – BARRIER GATES SHALL BE SELF–CLOSING AND SELF LATCHING, SHALL ACCOMMODATE A LOCKING DEVICE AND SHALL OPEN OUTWARD AWAY FROM THE POOL. UTILITY GATES NOT INTENDED FOR PEDESTRIANS MUST REMAIN LOCKED WHEN NOT IN USE. LATCHES PLACED LESS THAN 54" FROM GRADE MUST BE PLACED ON THE POOL SIDE OF THE BARRIER AND THE GATE AND THE BARRIER SHALL NOT HAVE OPENINGS, GREATER THAN $\frac{1}{2}$", WITHIN 18" OF THE RELEASE MECHANISM;
   – UNLESS APPROVED MEANS OF PROTECTION, SUCH AS SELF–LATCHING AND SELF–CLOSING DEVICES, ARE PROVIDED, OPERABLE WINDOWS AND DOORS, OPENING DIRECTLY TO THE POOL AREA, SHALL HAVE AN ALARM, THAT PRODUCES AN AUDIBLE WARNING, WHEN THE WINDOW OR THE DOOR ARE OPENED. THE ALARM SHALL BE LISTED AS A WATER HAZARD ENTRANCE ALARM IN ACCORDANCE WITH UL 2017.6.
6. GENERAL CONTRACTOR TO PROVIDE NECESSARY ELECTRICAL AND MECHANICAL WORK IN POOL AREAS AND EQUIPMENT ROOM INCLUDING: AREA LIGHTING, VENTILATION, DRAINAGE, ETC. ACCORDING TO LOCAL CODES (NIPC)
7. AREA DECK LIGHTING REQUIRED PER SWIMMING POOL CODE. SEE ELECTRICAL ITEMS.
8. GENERAL CONTRACTOR TO PROVIDE EQUIPOTENTIAL BONDING GRID FOR POOL DECKING PER THE 2020 NEC ARTICLE 680 OR CURRENT ADOPTED ELECTRICAL CODE, SEE ELECTRICAL NOTES.
9. PROVIDE A BACKWASH / EVACUATION SUMP WITH COVER GRATING IN EQUIPMENT ROOM AS SHOWN ON PLANS.
10. ALL SURFACE WATER SHALL DRAIN AWAY FROM THE POOL. DECK SHALL SLOPE $\frac{1}{4}$" TO $\frac{3}{8}$" PER FOOT AWAY FROM POOL.
11. SURFACE TREATMENT OF WET DECK AREAS SHALL BE IMPERVIOUS AND SLIP RESISTANT AS SPECIFIED BY POOL CONTRACTOR DRAWINGS. WET DECK TREATMENT SHALL ALSO INCLUDE THE FIRST 15 FT. OF WALKWAYS TO THE SANITARY FACILITIES.
12. POOL DECK AND REQUIRED DECK DRAINS ARE TO BE PROVIDED BY DECK CONTRACTOR PER LOCAL CODE REQUIREMENTS.
13. DECK DEPTH MARKERS AND "NO DIVING" TILES PROVIDED BY POOL CONTRACTOR AND INSTALLED BY DECK CONTRACTOR.
14. GENERAL CONTRACTOR/OWNER IS RESPONSIBLE FOR FILLING THE POOL WITH CULINARY WATER.
15. WHERE LIFEGUARD SERVICE IS PROVIDED, THE FACILITY SHALL HAVE A READILY ACCESSIBLE AREA DESIGNATED AND EQUIPPED FOR EMERGENCY FIRST AID CARE.

ITEMS PROVIDED BY MECHANICAL AND PLUMBING TRADES:

(THE FOLLOWING ITEMS SHALL BE ENGINEERED AND SPECIFIED BY MECHANICAL AND PLUMBING ENGINEERS AND PROVIDED BY MECHANICAL AND PLUMBING CONTRACTORS. HOWEVER THE MECHANICAL AND PLUMBING TRADES' RESPONSIBILITIES ARE NOT LIMITED TO THESE ITEMS.)

(NIPC)

AREA VENTILATION:
1. BUILDINGS CONTAINING EQUIPMENT ROOMS, NATATORIUMS, BATHHOUSES, DRESSING ROOMS, SHOWER ROOMS AND TOILET SPACES MUST BE VENTILATED IN ACCORDANCE WITH AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR–CONDITIONING ENGINEERS STANDARD 62.1–2016 AND INTERNATIONAL MECHANICAL CODE (IMC) OR CURRENT ADOPTED LOCAL STANDARD.
2. PROVIDE REQUIRED FREE OPEN VENT AREA FOR VENTILATION IN EQUIPMENT ROOM IN COMPLIANCE WITH POOL HEATER(S) MANUFACTURER'S REQUIREMENTS AND LOCAL CODES.

POOL HEATER VENTILATION AND SERVICE:
3. PER DIRECTION OF POOL CONTRACTOR, AND IN COMPLIANCE WITH HEATER MANUFACTURER'S REQUIREMENTS AND LOCAL CODES, PROVIDE:
   A. FUEL CONNECTIONS, REGULATORS, GAS VALVES, AND GAS LINE VENTS FOR HEATER(S).
   B. COMBUSTION AIR FOR POOL HEATER(S):
   - DUCTWORK AND ROUTING FOR DIRECT VENT INTAKE PIPING, OR
   - FREE OPEN VENT AREA AT A MINIMUM RATE OF ONE SQUARE INCH PER 1000 INPUT BTU/HR LOCATED BOTH HIGH AND LOW IN EQUIPMENT ROOM.
   C. HEATER(S) EXHAUST VENTILATION.

POTABLE WATER:
4. PROVIDE POTABLE WATER LINE:
   SIZED AS SPECIFIED ON DRAWINGS (SEE CIRCULATION EQUIPMENT SCHEDULE), AND
   EQUIPPED WITH SHUT–OFF VALVES AND BACKFLOW PREVENTION (IN ACCORDANCE WITH LOCAL CODES),
   TO LOCATIONS SHOWN ON DRAWINGS OR AS DIRECTED BY POOL CONTRACTOR.
5. PROVIDE HOSE BIBS IN POOL AREA, TO ALLOW FOR A COMPLETE WASH DOWN OF THE POOL DECK. HOSE BIBBS SHALL BE EQUIPPED WITH BACKFLOW PREVENTION IN ACCORDANCE WITH LOCAL CODES (E.G. VACUUM BREAKER). HOSE BIBBS SHALL NOT BE USED FOR FILLING THE POOL, UNLESS EXPLICITLY DIRECTED BY POOL DRAWINGS AND PROPER BACKFLOW PREVENTION IS PROVIDED IN ACCORDANCE WITH LOCAL CODES.

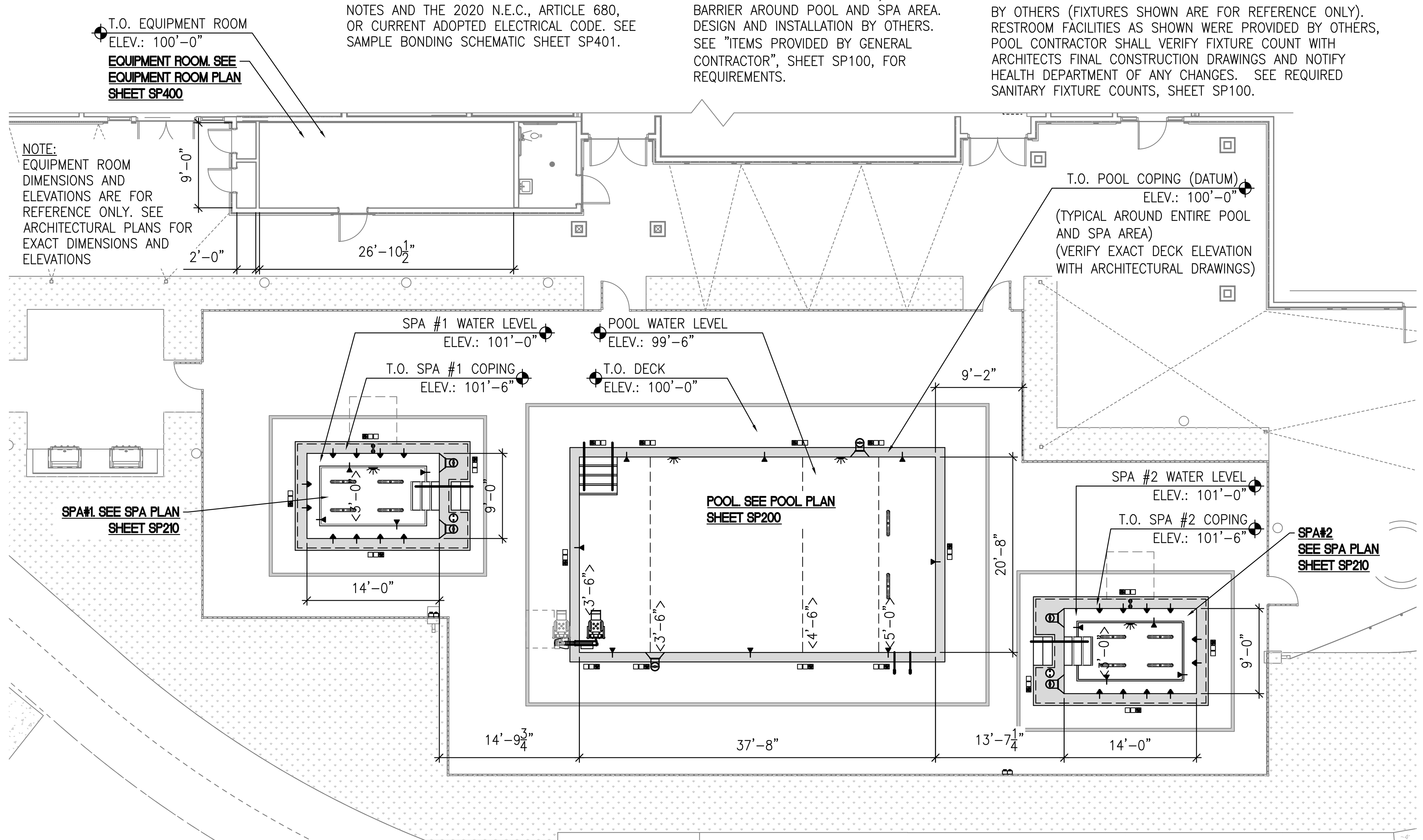
DRAINS AND WASTEWATER:
6. PROVIDE FLOOR DRAINS AND SEWER CONNECTIONS IN ACCORDANCE WITH LOCAL CODES AND AS SHOWN ON DRAWINGS (E.G. IN EQUIPMENT ROOM, IN BOTTOM OF BACKWASH/EVACUATION SUMP, OTHER PITS, OZONE ROOMS). SIZE SEWER LINE FOR INCIDENTAL SPILLS, OTHER FLOW RATES AS SPECIFIED IN CIRCULATION EQUIPMENT SCHEDULE (E.G. FILTER BACKWASH, POOL EVACUATION), AND PER LOCAL SEWER DISTRICT REQUIREMENTS.

OSHA SAFETY EQUIPMENT:
7. IN AREAS WHERE THE EYES OR BODY OF ANY PERSON MAY BE EXPOSED TO INJURIOUS CORROSIVE MATERIALS, PROVIDE EYE–WASH (PLUMBED OR SELF–CONTAINED GRAVITY FED) AND EMERGENCY SHOWER STATION, IN ACCORDANCE WITH OSHA AND ANSI REQUIREMENTS, OR OTHER LOCAL CODES. PROVIDE SUCH STATIONS WITH TEPID WATER SUPPLY LINES AND DRAIN LINES AS APPLICABLE.

NOTE:
FOR BONDING REQUIREMENTS SEE ELECTRICAL NOTES AND THE 2020 N.E.C., ARTICLE 680, OR CURRENT ADOPTED ELECTRICAL CODE. SEE SAMPLE BONDING SCHEMATIC SHEET SP401.

NOTE:
PROVIDE A CONTINUOUS WALL, FENCE OR BARRIER AROUND POOL AND SPA AREA. DESIGN AND INSTALLATION BY OTHERS. SEE "ITEMS PROVIDED BY GENERAL CONTRACTOR", SHEET SP100, FOR REQUIREMENTS.

NOTE:
RESTROOM AND SHOWER FACILITIES DESIGN AND INSTALLATION BY OTHERS (FIXTURES SHOWN ARE FOR REFERENCE ONLY). RESTROOM FACILITIES AS SHOWN WERE PROVIDED BY OTHERS, POOL CONTRACTOR SHALL VERIFY FIXTURE COUNT WITH ARCHITECTS FINAL CONSTRUCTION DRAWINGS AND NOTIFY HEALTH DEPARTMENT OF ANY CHANGES. SEE REQUIRED SANITARY FIXTURE COUNTS, SHEET SP100.



NOTE:
SEE ARCHITECTURAL/CIVIL DRAWINGS FOR EXACT ELEVATIONS AND EXACT LOCATION OF THE POOL AND SPA ON THE PROPERTY. REPORT ANY DISCREPANCIES TO POOL ENGINEER.

NOTE:
ALL PROPERTY LINES, SETBACKS, EASEMENTS, ETC., SHOWN ON THIS PLAN, ARE FOR INFORMATION ONLY AND WERE PROVIDED BY OTHERS. POOL CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING TO ALL ZONING AND SETBACK REQUIREMENTS AND SHALL VERIFY ALL BOUNDARY LINES, BUILDING ENVELOPES, DISTURBANCE ZONES AND OTHER RESTRICTIONS WITH OFFICIAL APPROVED DOCUMENTS BEFORE COMMENCEMENT OF CONSTRUCTION. POOL CONTRACTOR SHALL NOTIFY POOL ENGINEER IF THERE ARE ANY DISCREPANCIES.

NOTE:
FOR ALL DIMENSIONS SEE POOL/SPA DIMENSIONS PLANS ON SHEET SP200/SP210

OVERALL POOL AND SPA OVERVIEW

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

NORTH

ELECTRICAL NOTES:

GENERAL:

1. "N.E.C." IN THESE NOTES AND ON THESE PLANS REFERS TO 2020 NATIONAL ELECTRIC CODE (NFPA 70), ARTICLE 680. WATER DESIGN INC. TAKES NO EXCEPTION TO THE USE OF CURRENT ADOPTED ELECTRICAL CODE, IF PERMITTED BY LOCAL BUILDING AUTHORITY, OR AS SPECIFIED BY ELECTRICAL ENGINEER. ALL INSTALLATION OF THE ELECTRICAL EQUIPMENT SHALL COMPLY WITH THE APPLICABLE PROVISIONS SET FORTH IN THE LOCAL CURRENT ADOPTED ELECTRICAL CODE.

ITEMS PROVIDED BY ELECTRICAL CONTRACTOR (NIPC):

(THE FOLLOWING ITEMS SHALL BE ENGINEERED AND SPECIFIED BY AN ELECTRICAL ENGINEER AND PROVIDED BY A LICENSED ELECTRICAL CONTRACTOR. THE ELECTRICAL TRADES' RESPONSIBILITIES ARE NOT LIMITED TO THESE ITEMS.)

2. PROVIDE ELECTRICAL SERVICE AND CONNECTIONS TO ALL PUMP MOTORS, CIRCUIT BREAKERS, DISCONNECTS, PANELS, RELAYS, CONTROLLERS, OR OTHER POOL EQUIPMENT IN EQUIPMENT ROOM.
3. PROVIDE ELECTRICAL CONNECTIONS TO HEATER AS REQUIRED.
4. PROVIDE AN EMERGENCY SHUT OFF SWITCH FOR EACH HEATER NEAR THE ENTRANCE TO THE EQUIPMENT ROOM, IF REQUIRED PER LOCAL BOILER CODE.
5. PROVIDE BONDING AND GROUNDING OF POOL SHELL TO EQUIPOTENTIAL BONDING GRID IN DECK, PUMP MOTORS AND OTHER EQUIPMENT IN THE EQUIPMENT ROOM.
6. PROVIDE POOL EQUIPMENT INTERLOCKING. INTERLOCK THE CIRCULATION PUMP WITH THE CHEMICAL CONTROLLER, FEEDERS AND OTHER DISINFECTION EQUIPMENT (UV, OZONE, ETC.). INTERLOCK THE CIRCULATION PUMP WITH THE HEATER IF A FLOW SWITCH IS NOT INSTALLED ON THE HEATER.
7. PROVIDE MINIMUM 10 HORIZONTAL FOOT CANDLES OF DECK LIGHTING PER SQUARE FOOT OF POOL DECK AREA (OR PER LOCAL SWIMMING POOL CODE).
8. ELECTRICAL WIRING OR POWER SUPPLY LINES SHALL NOT BE ROUTED UNDERGROUND BENEATH THE POOL OR SPA SHELL.
9. NO OUTLETS WITHIN 6 FT. OF POOL. ALL OUTLETS 6 FT. TO 20 FT. FROM THE INSIDE WALL OF THE POOL SHALL BE G.F.C.I. PROTECTED PER N.E.C. REQUIREMENTS.
10. AT LEAST ONE ELECTRICAL OUTLET ON A GENERAL–PURPOSE BRANCH SHALL BE PROVIDED AND LOCATED NOT LESS THAN 6 FT. AND NOT MORE THAN 20 FT. FROM THE INSIDE WALL OF THE POOL. PROVIDE G.F.C.I. PROTECTION PER N.E.C. REQUIREMENTS.
11. ALL ELECTRICAL EQUIPMENT, INSTALLED ADJACENT TO POOL, (LUMINARIES, MOTORS, CONTROLLERS, ELECTRICAL OUTLETS, FANS, GAS–FIRED FIRE PITS, ETC.) SHALL BE G.F.C.I. PROTECTED IN ACCORDANCE WITH ALL APPLICABLE ARTICLES OF THE N.E.C.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT FROM J–BOX TO LIGHT NICHE (EXCEPT FIRST 4'–0" AT NICHE) AND PROVIDE J–BOX AND HOOK–UP. SEE UNDERWATER LIGHT AND J–BOX DETAILS. SEE ELECTRICAL PLAN (BY OTHERS). ALL ELECTRICAL WORK AND GROUNDING SHALL BE PER THE N.E.C. COMPONENTS SHALL BE IN COMPLIANCE WITH UL 1241 "JUNCTION BOXES FOR SWIMMING POOL FIXTURES".
13. PROVIDE LIGHT SWITCHES FOR UNDERWATER LIGHTS IN A LOCATION WHERE THEY ARE NOT ACCESSIBLE BY BATHERS. (SWITCH LOCATION DETERMINED BY OWNER/ARCHITECT). ELECTRICAL CONTRACTOR SHALL INSTALL EMERGENCY SHUT–OFF SWITCH(ES) AND 15 MINUTE MAX. THERAPY PUMP TIMER(S) INCLUDING WIRING, CONDUIT, AND CONNECTIONS PER THE N.E.C.

ITEMS PROVIDED BY POOL CONTRACTOR:

14. POOL CONTRACTOR SHALL BE RESPONSIBLE FOR BONDING OF ALL EQUIPMENT AND METAL ITEMS IN OR NEAR THE POOL, INCLUDING: LIGHTS, NICHES, RAILINGS, ADA LIFT SLEEVE, REINFORCING STEEL, ETC. WITH A #8 BARE GROUND WIRE. ALL BONDING SHALL BE PER THE N.E.C.
15. POOL CONTRACTOR SHALL PROVIDE FIRST 4'–0" OF CONDUIT AND SUFFICIENT LENGTH OF CORD FROM EACH UNDERWATER LIGHT TO ITS J–BOX AND TO ALLOW FOR LIGHT TO REACH DECK FOR SERVICING. SEE JUNCTION BOX DETAIL. SEE ELECTRICAL PLANS FOR J–BOX LOCATIONS (BY OTHERS).
16. POOL WATER SHALL BE IN DIRECT CONTACT WITH APPROVED BONDED CORROSION–RESISTANT CONDUCTIVE SURFACE, THAT EXPOSES NOT LESS THAN 9 SQ. IN. OF SURFACE TO POOL WATER AT ALL TIMES, UNLESS OTHERWISE IN DIRECT CONNECTION WITH BONDED PARTS.
17. POOL CONTRACTOR SHALL PROVIDE SPA TIMER(S).
18. POOL CONTRACTOR SHALL PROVIDE EMERGENCY SHUT–OFF SWITCH(ES).

SAFETY AND ACCESSIBILITY NOTES:

SAFETY ITEMS, REQUIRED SIGNS, HEALTH ISSUES, AND DRESSING ROOM REQUIREMENTS THAT ARE INDICATED ON THE DRAWINGS, OR IN THE SPECIFICATIONS ARE FOR GENERAL GUIDANCE ONLY. THE POOL CONTRACTOR, AND/OR THE OWNER/OPERATOR OF THE FACILITY SHALL BE RESPONSIBLE FOR FURNISHING AND MAINTAINING ALL ITEMS REQUIRED BY THE REGULATIONS FOR THE DESIGN, CONSTRUCTION, AND OPERATION OF PUBLIC SWIMMING POOLS.

OSHA SAFETY DURING CONSTRUCTION:
CONTRACTORS SHALL REFERENCE AND FOLLOW OSHA STANDARDS 29 CFR AND ALL OTHER APPLICABLE STANDARDS.

(IF SWIMMING POOL ADA ACCESS IS SHOWN) THESE PLANS ONLY ADDRESS AMERICANS WITH DISABILITY ACT (ADA) ACCESSIBILITY INTO THE SWIMMING POOL WATER FROM THE ADJACENT DECK. THIS PLAN DOES NOT COVER ACCESSIBILITY OF THE ENTIRE FACILITY. THE OWNER OR THEIR AGENT SHALL BE RESPONSIBLE FOR REVIEW, ASSESSMENT AND DESIGN FOR ALL ADA ACCESSIBILITY REQUIREMENTS.

REQUIRED SAFETY EQUIPMENT

ONE – COAST GUARD APPROVED RING BUOY WITH AN ATTACHED ROPE EQUAL IN LENGTH TO THE MAXIMUM WIDTH OF THE POOL PLUS 10'.

ONE – LIFE POLE OR SHEPHERD'S CROOK W/BLUNTED ENDS. MIN. 12' LONG (3.66 METERS).

ONE – 27 UNIT FIRST AID KIT

ONE – BACKBOARD

CLEANING EQUIPMENT:

ONE (1) – VACUUM HEAD

ONE (1) – VACUUM HOSE 2"ø (LENGTH AS REQ'D.)

ONE (1) – SKIMMER VACUUM PLATE

ONE (1) – WALL BRUSH

ONE (1) – LEAF SKIMMER

ONE (1) – HANDLE EXTENSION

ONE (1) – TEST KIT (WHICH INCLUDES A TEST KIT FOR CYANURIC ACID)

ONE (1) – TEST KIT FOR TOTALLY DISSOLVED SOLIDS

MAXIMUM BATHER LOAD:

POOL: 77 PERSONS
SPA #1: 12 PERSONS
SPA #2: 12 PERSONS

REQUIRED SIGNS:

SIGNS SHALL BE POSITIONED FOR EFFECTIVE OBSERVATION BY USERS AS REQUIRED BY THE AUTHORITY THAT GOVERNS SUCH POOLS.

POOL SAFETY SIGNAGE:

SAFETY SIGNAGE ADVISING ON THE DANGER OF DIVING INTO SHALLOW AREAS AND ON THE PREVENTION OF DROWING SHALL BE PROVIDED AS REQUIRED BY THE AUTHORITY THAT GOVERNS SUCH POOLS.

EMERGENCY TELEPHONE SIGNS:

A SIGN SHALL BE PROVIDED INDICATING:

- THE LOCATION OF THE NEAREST LANDLINE TELEPHONE THAT CAN BE USED TO CALL EMERGENCY SERVICES SHALL BE POSTED WITHIN SIGHT OF THE MAIN ENTRY INTO A POOL FACILITY. LANDLINE TELEPHONE SHALL BE ONE THAT CAN BE USED FREE OF CHARGE TO CALL FOR EMERGENCY SERVICES AND SHALL HAVE THE ADDRESS INFORMATION POSTED WIHTIN SIGHT.
- THE TELEPHONE NUMBERS THAT CAN BE CALLED FOR EMERGENCY SERVICES INCLUDING POLICE, FIRE, AMBULANCE, AND RESCUE SERVICES (IF 9–1–1 TELEPHONE SERVICE IS AVAILABLE FOR ANY OF THOSE SERVICES, IT SHALL BE INDICATED NEXT TO THE TELEPHONE NUMBER.)
- THE STREET ADDRESS AND CITY WHERE THE POOL IS LOCATED.

EMERGENCY SHUT OFF:

SIGNS SHALL BE POSTED THAT CLEARLY INDICATE THE LOCATION OF THE PUMP EMERGENCY SHUTOFF SWITCH. SUCH SWITCH SHALL BE CLEARLY IDENTIFIED AS THE PUMP EMERGENCY SHUTOFF SWITCH.

SPA INSTRUCTIONS AND SAFETY SIGNS:

INSTRUCTIONS AND SAFETY SIGNAGE SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL JURISDICTION. IN THE ABSENCE OF LOCAL REQUIREMENTS, SAFETY SIGNS AND INSTRUCTIONS SHALL COMPLY WITH UL 1563 OR CSA C22.2 NO. 218.1.

SPA OPERATIONAL SIGN:

OPERATIONAL SIGNS SHALL INCLUDE THE FOLLOWING MESSAGES AS REQUIRED BY THE LOCAL JURISDICTION:

1. DO NOT ALLOW THE USE OF OR OPERATE SPA IF THE SUCTION OUTLET COVER IS MISSING, DAMAGED OR LOOSE.
2. CHECK SPA TEMPERATURES BEFORE EACH USE. DO NOT ENTER THE SPA IF TEMPERATURE IS ABOVE 104°F (40°C).
3. KEEP BREAKABLE OBJECTS OUT OF THE SPA AREA.
4. SPA SHALL NOT BE OPERATED DURING SEVERE WEATHER CONDITIONS.
5. NEVER PLACE ELECTRICAL APPLIANCES WITHIN 5 FEET OF THE SPA.
6. NO DIVING.

SPA EMERGENCY SHUTOFF SWITCH SIGN:

THE EMERGENCY SHUTOFF SWITCHES SHALL BE PROVIDED WITH AN AUDIBLE ALARM RATED AT NOT LESS THAN 80 DECIBEL SOUND PRESSURE LEVEL AND A LIGHT NEAR THE SPA THAT WILL OPERATE CONTINUOUSLY UNTIL DEACTIVATED WHEN THE SHUTOFF SWITCH IS OPERATED. THE FOLLOWING STATEMENTS SHALL APPEAR ON A SIGN THAT IS POSTED IN A LOCATION THAT IS VISIBLE FROM THE SPA:

"ALARM INDICATES SPA PUMPS OFF. DO NOT USE SPA WHEN ALARM SOUNDS AND LIGHT IS ILLUMINATED UNTIL ADVISED OTHERWISE."

CLOCK:

1. PUBLIC FACILITIES SHALL HAVE A CLOCK THAT IS VISIBLE TO SPA USERS.

THE RICHARDSON DESIGN PARTNERSHIP, L.L.C.
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COLORADO LICENSED CHARLES ROSS ANDERSON PE-39476 2-28-24 PROFESSIONAL ENGINEER

FOR: POOL STRUCTURAL, HYDRAULIC, FILTRATION, & SANITIZING SYSTEMS ONLY.

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510 SOUTH 600 EAST
SALT LAKE CITY, UT 84102
OWNER:

CENTRAL PARK HOTEL
1760 Central Park Dr.
Steamboat Springs, CO
PROJECT:

ISSUE DATE	DESCRIPTION
03/04/2024	Permit Set

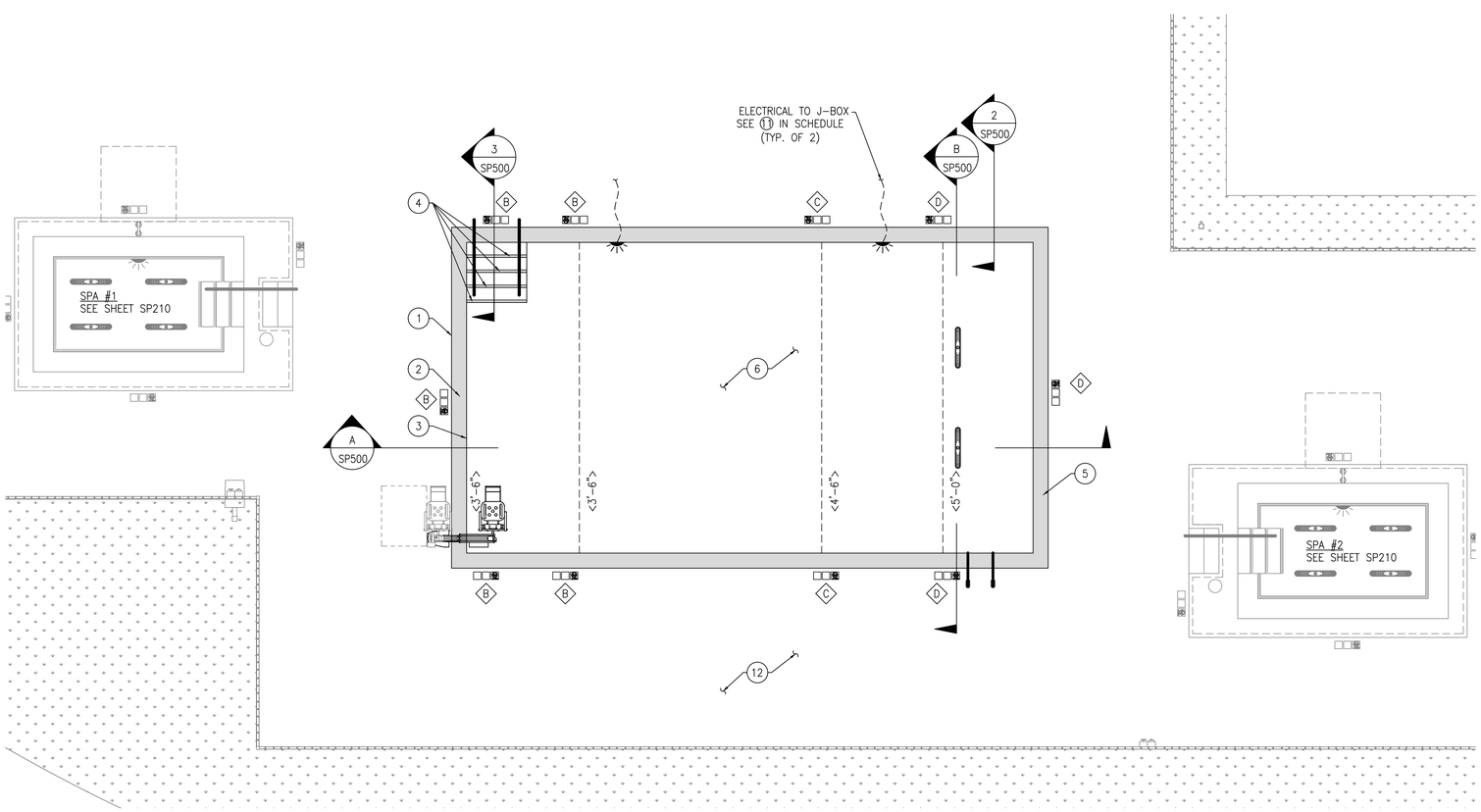
#	REV. DATE	DESCRIPTION

PERMIT SET

OVERALL POOL AND SPA OVERVIEW

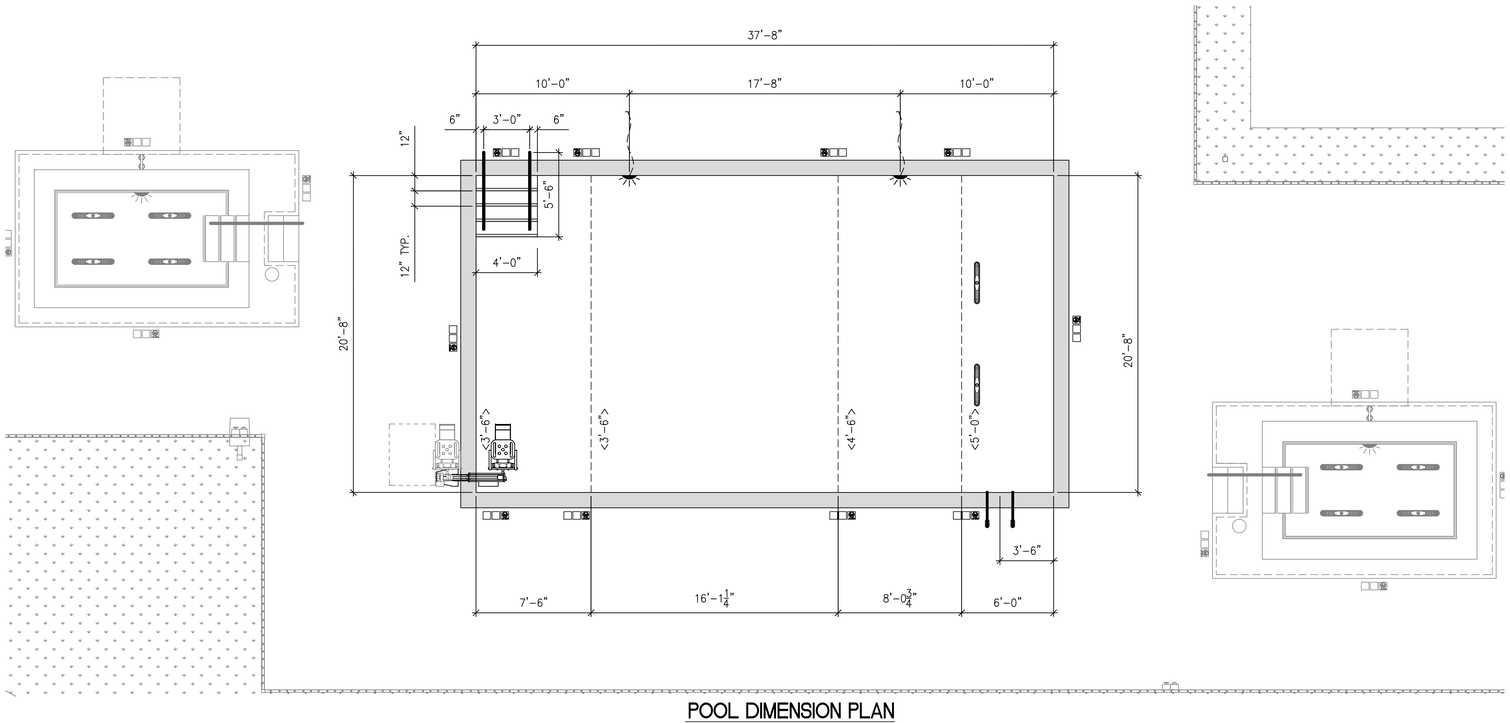
PROJECT #: 24-702
DRAWN BY: IT
CHECKED BY: BH / JR

SHEET #
SP100



POOL PLAN

SCALE: 1/4"=1'-0"



POOL DIMENSION PLAN

SCALE: 1/4"=1'-0"

POOL DATA

SIZE:	37'-8" X 20'-8"
WATER DEPTH:	3'-0" to 5'-0"
SHAPE:	RECTANGLE
CONST. TYPE:	SHOTCRETE
AREA:	778.5 SQ.FT.
PERIMETER:	116'-8"
VOLUME:	22,905.4 GALLONS
MIN. FLOW:	74 GPM
MAX. FLOW:	88 GPM
TURNOVER:	5 HOUR 09 MIN.

POOL SCHEDULE

MARK	DESCRIPTION	QUANTITY	DETAIL	REQUIREMENT
	HANDRAIL	2	3 / SP600	SR SMITH DMS-1005 OR EQUAL
REMARKS: STAINLESS STEEL RAIL 1.90" O.D. X 0.065" THICK WALL. PROVIDE WITH WEDGE ANCHORS & S.S. ESCUTCHEON PLATES. SEE PLAN FOR LENGTH.				
	GRABRAILS	1 SET	6 / SP600	SR SMITH #CRH-100B
REMARKS: PROVIDE STAINLESS STEEL GRABRAILS WITH BRONZE ANCHOR ASSEMBLY (SR SMITH #34-306A). PROVIDE WITH CHROME PLATED BRASS DOUBLE ESCUTCHEON PLATE (SR SMITH #8-420-CP). ANCHORS INSTALLED BY DECK CONTRACTOR. THICKEN DECK AS REQUIRED. PROVIDE THREE WHITE RECESSED STEPS PER GRABRAIL LOCATION (S.R. SMITH #62-209-4001).				
	UNDERWATER POOL LIGHT	2	5 / SP600	PENTAIR INTELLIBRITE 5G WHITE LED POOL LIGHT 12 VOLT
REMARKS: 55/48/40 WATT LED LIGHTS (300 WATT INCANDESCENT EQUIVALENT). PROVIDE SUFFICIENT LENGTH OF CORD FOR RE-LAMPING ON DECK. PROVIDE TRANSFORMER AS REQUIRED. PROVIDE SUFFICIENT LENGTH OF CORD TO J-BOX/TRANSFORMER. SEE ELECTRICAL NOTES SHEET SP100. LED LIGHT AND NICHE SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.				
B	DEPTH MARKER TILES ON DECK	SEE PLAN	9 / SP600	IN-LAYS, INC. FT SERIES IN SERIES
REMARKS: 6" x 6" FROST-PROOF, NON-SKID TILE WITH 4" HIGH NUMBERS WITH CONTRASTING COLOR BACKGROUND ON POOL DECK. SEE DETAIL FOR DEPTH MARKER KEY. WATER DEPTH SHALL BE PLAINLY MARKED AT LOCATION OF MINIMUM AND MAXIMUM POOL WATER DEPTHS AND AT ONE FOOT INCREMENTS OF DEPTH. MARKERS SHALL BE SPACED AT MAXIMUM 25'-0" C.C. DEPTH MARKER TILES PLACED ON DECK SHALL BE PROVIDED BY POOL CONTRACTOR AND INSTALLED BY DECK CONTRACTOR.				
	DEPTH MARKER TILES ON VERTICAL WALL	SEE PLAN	9 / SP600	IN-LAYS, INC. FT SERIES IN SERIES
REMARKS: 6" x 6" FROST-PROOF, GLAZED TILE WITH 4" HIGH NUMBERS WITH CONTRASTING COLOR BACKGROUND ON VERTICAL WALL AT WATERLINE. SEE DETAIL FAL FOR DEPTH MARKER KEY. WATER DEPTH SHALL BE PLAINLY MARKED AT LOCATION OF MINIMUM AND MAXIMUM POOL WATER DEPTHS AND AT ONE FOOT INCREMENTS OF DEPTH. MARKERS SHALL BE SPACED AT MAXIMUM 25'-0" C.C.				
	"NO DIVING" ICON TILES	SEE PLAN	9 / SP600	IN-LAYS, INC. MG SERIES
REMARKS: 6" X 6" NON-SKID, FROST-PROOF, "NO DIVING" TILE WITH LETTERING AND ICON ON CONTRASTING COLOR BACKGROUND. PLACE ON DECK AT 25'-0" C.C. MAXIMUM SPACING ADJACENT TO DEPTH MARKERS IN LOCATIONS AS SHOWN ON THE PLAN. TILES PLACED ON DECK SHALL BE PROVIDED BY POOL CONTRACTOR AND INSTALLED BY DECK CONTRACTOR.				
	ADA LIFT	1	N/A	S.R. SMITH MULTI LIFT 2
REMARKS: POOL CONTRACTOR SHALL PROVIDE THE LIFT AND ANCHORS FOR INSTALLATION INTO THE DECK WITH FOOTING / THICKENED SLAB PER MANUFACTURER'S RECOMMENDATIONS. INSTALL LIFT PER MANUFACTURER'S RECOMMENDATIONS WITH PROPER SET-BACK AND CLEARANCES. ANCHOR SHALL BE BONDED PER THE REQUIREMENTS OF THE NEC ARTICLE 680.				
1	STRUCTURE OF POOL VESSEL	SEE SP500 SHEET SERIES		SHOTCRETE OR GUNITE
REMARKS: PLACE PER IBC AND ACI STANDARDS. REINFORCE PER THESE PLANS.				
2	POOL COPING	AROUND POOL PERIMETER	1 / SP600	PRECAST FEDERAL STONE DO SERIES
REMARKS: COPING SHALL PROVIDE HAND HOLD AROUND PERIMETER OF POOL. COPING MATERIAL/FINISH SHALL BE NON-SLIP.				
3	POOL WATERLINE TILE	AROUND POOL PERIMETER	1 / SP600	6" BAND OF FROST PROOF CERAMIC TILE
REMARKS: TILE FINISH SHALL BE WATERPROOF AND FREE FROM DEFECTS. SUBMIT TILE AND COLOR SAMPLES TO OWNER/ARCHITECT FOR SELECTION.				
4	STEP TRIM TILE	EDGES OF STEPS	4 / SP600	2" NON-SLIP, FROST PROOF CERAMIC TILE
REMARKS: SHALL BE OF CONTRASTING COLOR TO POOL FINISH. TILE FINISH SHALL BE WATERPROOF AND FREE FROM DEFECTS. SUBMIT TILE AND COLOR SAMPLES TO OWNER/ARCHITECT FOR SELECTION.				
5	DROPPED BOND BEAM TILE	ON TOP OF AUTOMATIC COVER BOX WALL	4 / SP600	NON-SLIP, FROST PROOF CERAMIC TILE
REMARKS: TILE FINISH SHALL BE WATERPROOF AND FREE FROM DEFECTS. SUBMIT TILE AND COLOR SAMPLES TO OWNER/ARCHITECT FOR SELECTION.				
6	POOL FINISH	POOL INTERIOR	N/A	WATERPROOF PLASTER
REMARKS: FINISH SHALL BE WATERPROOF AND FREE FROM DEFECTS. FINISH COLOR SHALL BE WHITE OR LIGHT IN COLOR.				
7	POOL COVER	AS REQ'D.	N/A	UNIVERSAL FILTRATION INC. THERMGARD FLOATING INSULATED VAPOR RETARDANT COVER OR EQUAL
REMARKS: NOT SHOWN ON PLANS. COVER SHALL ACT AS A VAPOR RETARDANT. COORDINATE INSULATED COVER SIZE AND SHAPE WITH MANUFACTURER.				

UTILITIES AND ITEMS PROVIDED BY OTHERS

(ITEMS TO BE DESIGNED, ENGINEERED, AND SPECIFIED BY OTHER CONSULTANTS)

MARK	DESCRIPTION	QUANTITY	DETAIL	REQUIREMENT
11	U.W. LIGHT JUNCTION BOX	BY OTHERS	7 / SP600	SEE ELECTRICAL PLANS
REMARKS: NOT SHOWN ON PLAN. INSTALLED PER THE 2020 NEC ARTICLE 680 OR CURRENT ADOPTED ELECTRICAL CODE. SEE ELECTRICAL ITEMS SHEET SP100. JUNCTION BOX(ES) PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. LOCATION OF J-BOXES AND LIGHT SWITCHES BY ELECTRICAL CONTRACTOR.				
12	POOL DECK	BY OTHERS	N/A	SEE ARCHITECTURAL PLANS
REMARKS: MINIMUM 5' WIDE NON-SLIP CONCRETE DECK CONTINUOUS AROUND POOL. SLOPE DECK 1/4" PER FOOT AWAY FROM POOL TO DECK DRAINS OR LANDSCAPING. DECK AND DECK DRAINS (IF REQUIRED) ARE NOT IN POOL CONTRACT.				

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OWNER:

CENTRAL PARK HOTEL
1760 Central Park Dr.
Steamboat Springs, CO

PROJECT:

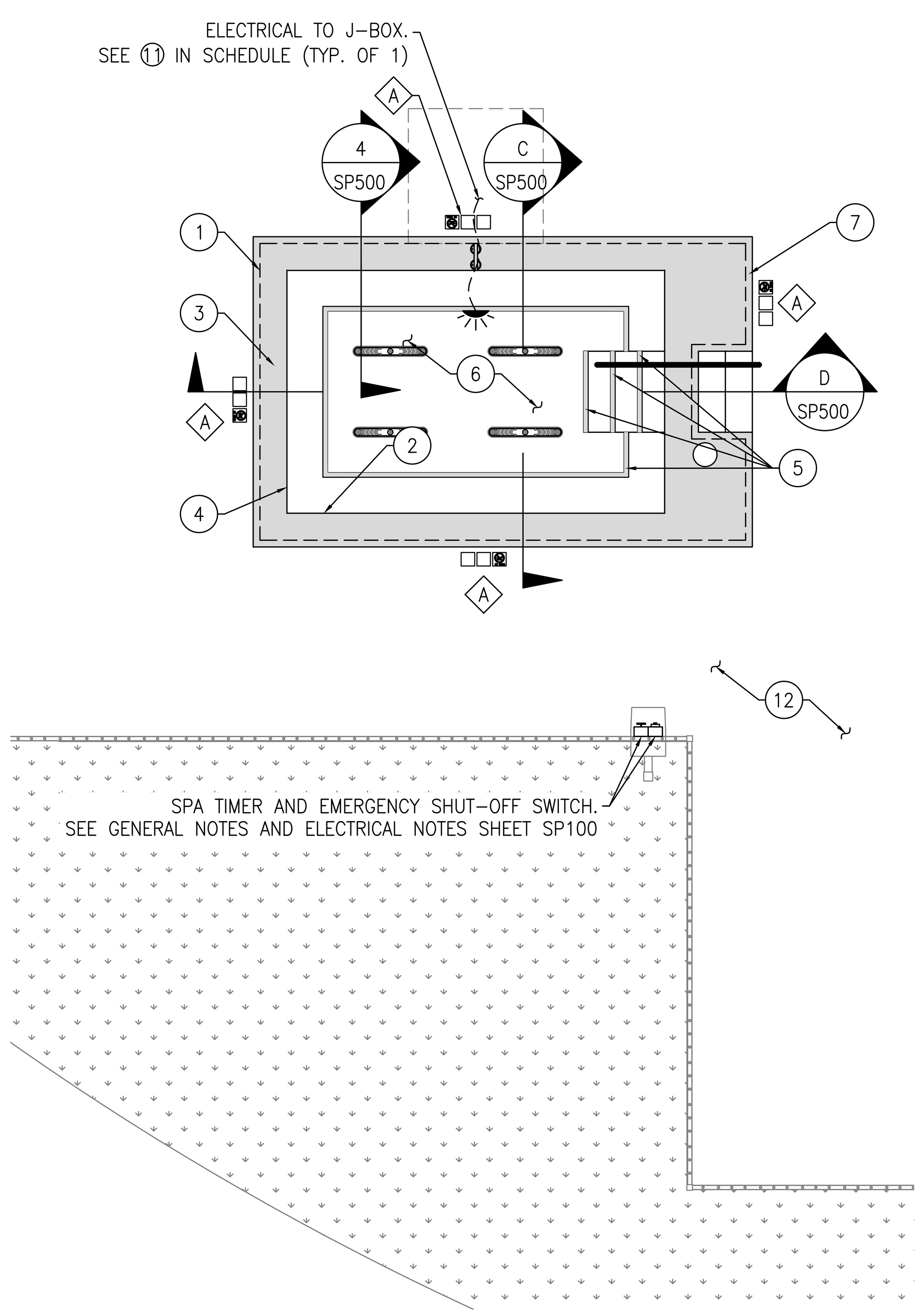
ISSUE DATE	DESCRIPTION
03/04/2024	Permit Set
# REV. DATE	DESCRIPTION

PERMIT SET

POOL PLAN

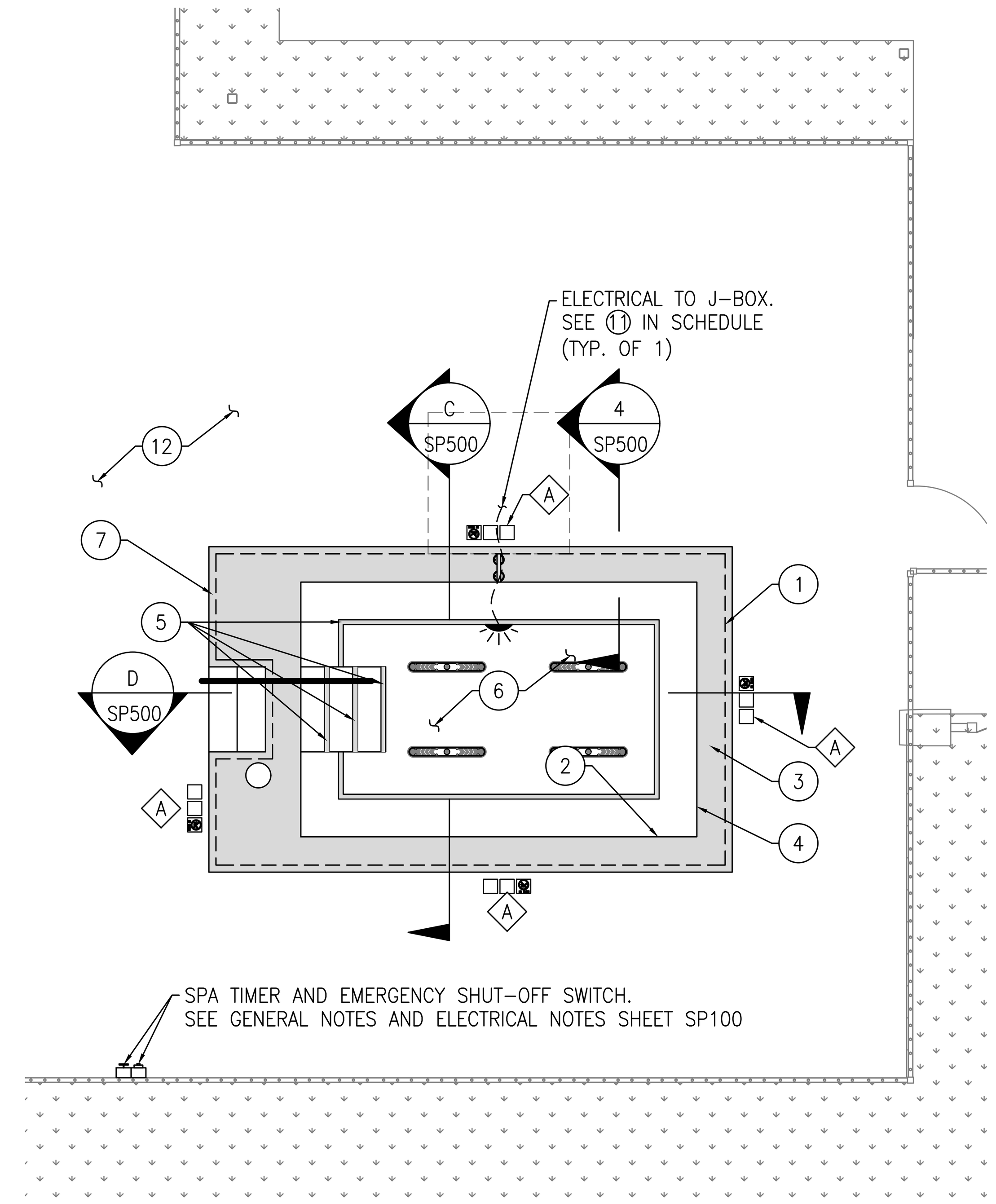
PROJECT #: 24102
DRAWN BY: IT
CHECKED BY: BH JR

SHEET #
SP200



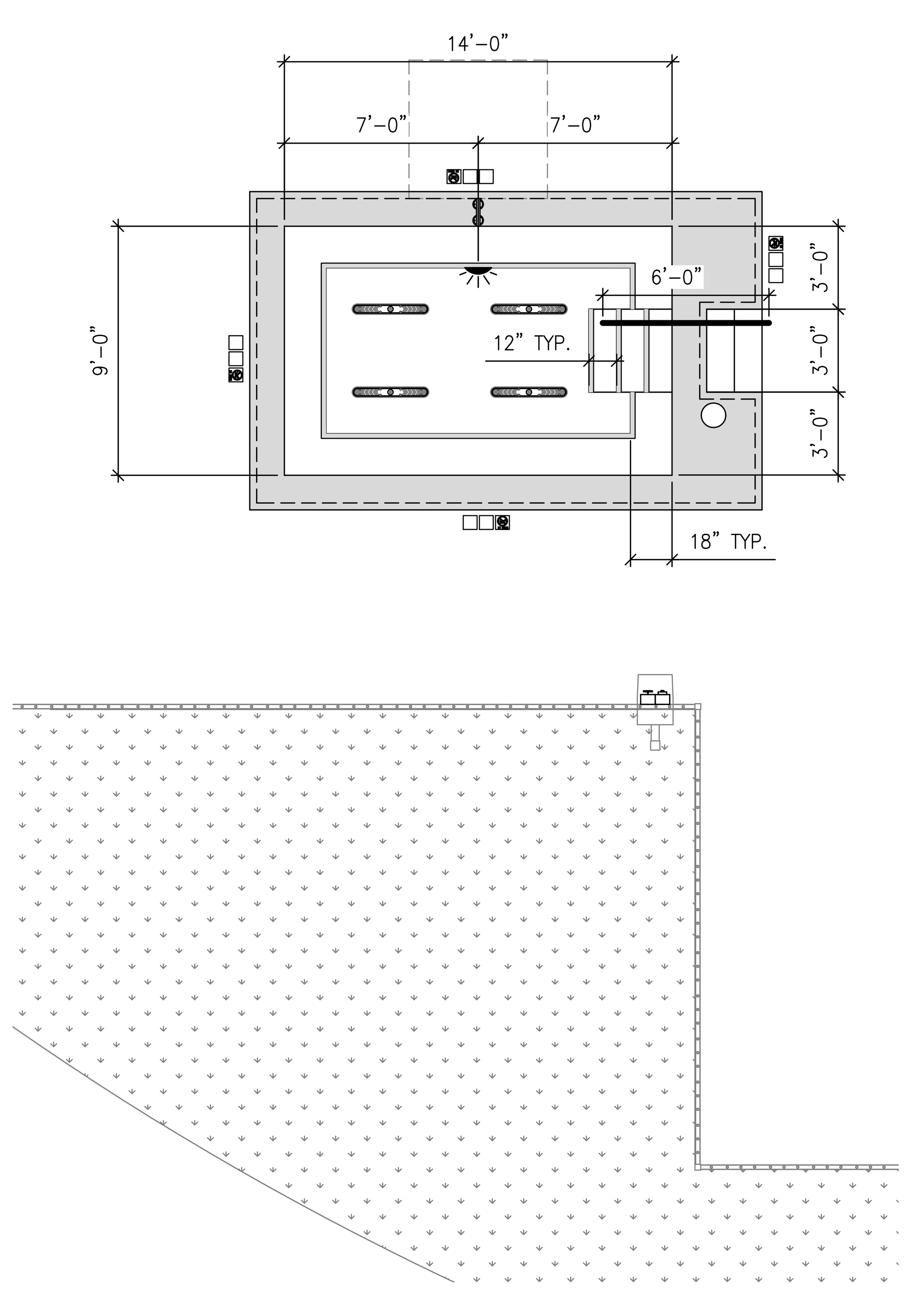
SPA #1 PLAN

SCALE: 1/4"=1'-0"



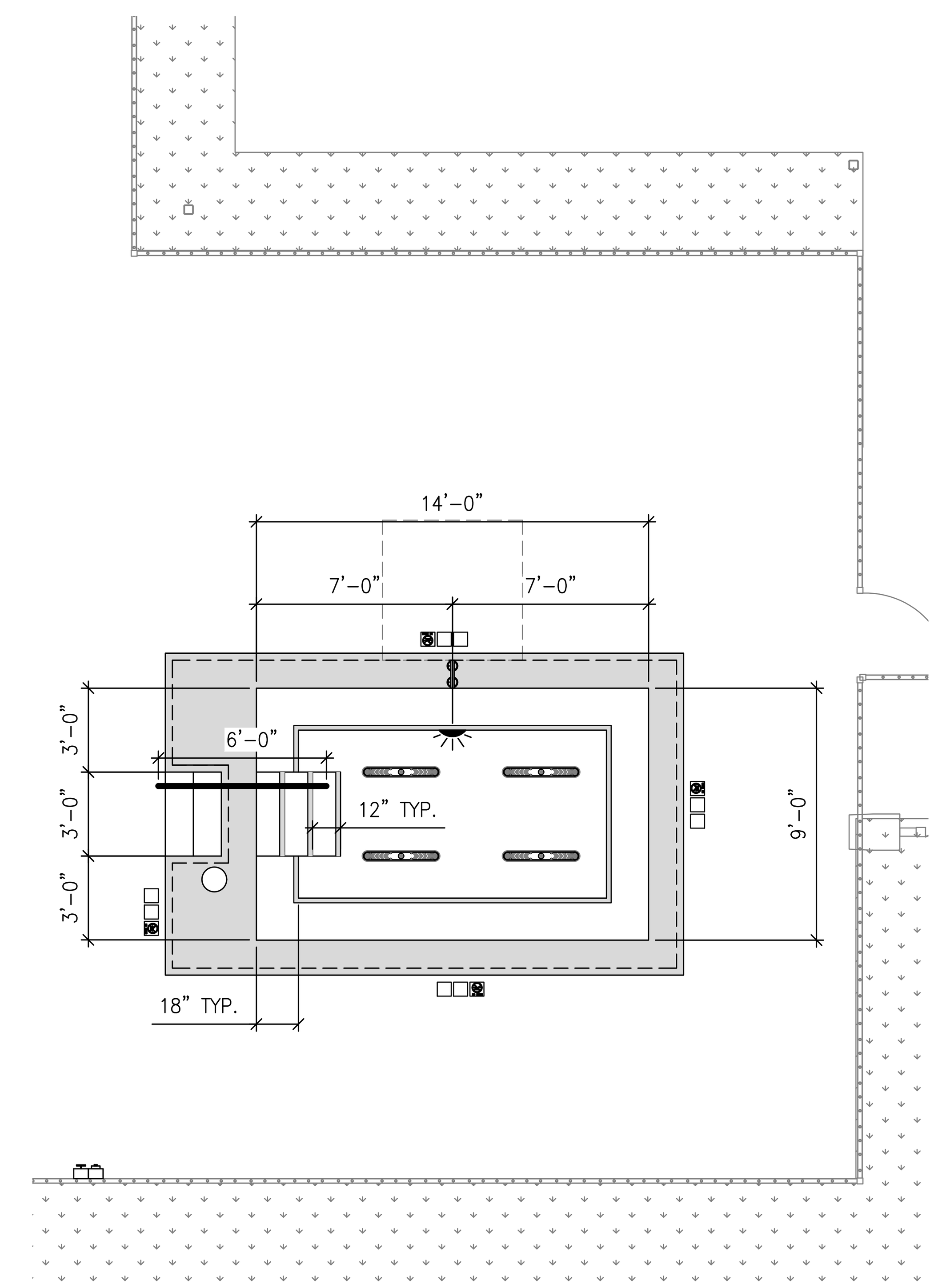
SPA #2 PLAN

SCALE: 1/4"=1'-0"



SPA #1 DIMENSION PLAN

SCALE: 1/4"=1'-0"



SPA #2 DIMENSION PLAN

SCALE: 1/4"=1'-0"

SPA #1 DATA

SIZE:	14'-0" x 9'-0"
WATER DEPTH:	3'-0"
SHAPE:	RECTANGULAR
CONST. TYPE:	SHOTCRETE
AREA:	126 SQ.FT.
PERIMETER:	46'-0"
VOLUME:	2,087.1 GALLONS
MIN. FLOW:	74 GPM
MAX. FLOW:	88 GPM
TURNOVER:	28 MIN.

SPA #2 DATA

SIZE:	14'-0" x 9'-0"
WATER DEPTH:	3'-0"
SHAPE:	RECTANGULAR
CONST. TYPE:	SHOTCRETE
AREA:	126 SQ.FT.
PERIMETER:	46'-0"
VOLUME:	2,087.1 GALLONS
MIN. FLOW:	74 GPM
MAX. FLOW:	88 GPM
TURNOVER:	28 MIN.

WATERPROOFING NOTES:

1. PRIOR TO INSTALLING SPA FINISHES – WATERPROOF INTERIOR OF SPA SHELL.
2. WATERPROOFING MATERIAL SHALL BE COMPATIBLE WITH SPA FINISHES AND SETTING MATERIALS.
3. WATERPROOFING MATERIALS SHALL BE INTENDED TO BE USED WITH CAST IN PLACE CONCRETE AND RESISTANT TO CHEMICALLY TREATED SPA WATER.
4. INSTALL WATERPROOFING MATERIAL PER MANUFACTURER'S RECOMMENDATIONS. PREPARE SPA SHELL AS REQUIRED.
5. SUBMIT PROPOSED WATERPROOFING SYSTEM TO ENGINEER FOR REVIEW.
6. HYDROSTATICALLY TEST SPA WATERPROOFING PRIOR TO INSTALLING FINISHES (STATIC FILL TEST FOR 48 HOURS.)
7. WATERPROOFING MATERIAL SHALL BE RESISTANT TO NEGATIVE SIDE HYDROSTATIC PRESSURE.

SPA #1 AND SPA #2 SCHEDULE

MARK	DESCRIPTION	QUANTITY	DETAIL	REQUIREMENT
	HANDRAIL	1 PER SPA / 2 TOTAL	4 / SP600	CUSTOM
REMARKS:	STAINLESS STEEL RAIL 1.90" O.D. X 0.065" THICK WALL. PROVIDE WITH WEDGE ANCHORS & S.S. ESCUTCHEON PLATES. SEE PLAN FOR LENGTH.			
	UNDERWATER SPA LIGHT	1 PER SPA / 2 TOTAL	6 / SP600	PENTAIR INTELLIBRITE 5G WHITE LED SPA LIGHT 12 VOLT
REMARKS:	18 WATT LED LIGHTS (100 WATT INCANDESCENT EQUIVALENT). PROVIDE SUFFICIENT LENGTH OF CORD FOR RE-LAMPING ON DECK. PROVIDE TRANSFORMER AS REQUIRED. PROVIDE SUFFICIENT LENGTH OF CORD TO J-BOX/TRANSFORMER. SEE ELECTRICAL NOTES SHEET SP100. LED LIGHT AND NICHE SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.			
A	DEPTH MARKER TILES ON DECK	SEE PLAN	9 / SP600	IN-LAYS, INC. FT SERIES IN SERIES
REMARKS:	6" x 6" FROST-PROOF, NON-SKID TILE WITH 4" HIGH NUMBERS WITH CONTRASTING COLOR BACKGROUND ON POOL DECK. SEE DETAIL FOR DEPTH MARKER KEY. WATER DEPTH SHALL BE PLAINLY MARKED AT LOCATION OF MINIMUM AND MAXIMUM POOL WATER DEPTHS AND AT ONE FOOT INCREMENTS OF DEPTH. MARKERS SHALL BE SPACED AT MAXIMUM 25'-0" C.C. DEPTH MARKER TILES PLACED ON DECK SHALL BE PROVIDED BY POOL CONTRACTOR AND INSTALLED BY DECK CONTRACTOR.			
	DEPTH MARKER TILES ON VERTICAL WALL	SEE PLAN	9 / SP600	IN-LAYS, INC. FT SERIES IN SERIES
REMARKS:	6" x 6" FROST-PROOF, GLAZED TILE WITH 4" HIGH NUMBERS WITH CONTRASTING COLOR BACKGROUND ON VERTICAL WALL AT WATERLINE. SEE DETAIL FOR DEPTH MARKER KEY. WATER DEPTH SHALL BE PLAINLY MARKED AT LOCATION OF MINIMUM AND MAXIMUM POOL WATER DEPTHS AND AT ONE FOOT INCREMENTS OF DEPTH. MARKERS SHALL BE SPACED AT MAXIMUM 25'-0" C.C.			
NO DIVING	"NO DIVING" ICON TILES	SEE PLAN	9 / SP600	IN-LAYS, INC. MG SERIES
REMARKS:	6" X 6" NON-SKID, FROST-PROOF, "NO DIVING" TILE WITH LETTERING AND ICON ON CONTRASTING COLOR BACKGROUND. PLACE ON DECK AT 25'-0" C.C. MAXIMUM SPACING ADJACENT TO DEPTH MARKERS IN LOCATIONS AS SHOWN ON THE PLAN. TILES PLACED ON DECK SHALL BE PROVIDED BY POOL CONTRACTOR AND INSTALLED BY DECK CONTRACTOR.			
	ADA TRANSFER RAIL	1 PER SPA / 2 TOTAL	10 / SP600	SR SMITH TR-**A VERIFY SIZE
REMARKS:	316L STAINLESS STEEL RAIL 1.50" O.D. X 0.12" THICK WALL. PROVIDE WITH FLANGE PLATES AND 3/8-16 UNC ANCHOR BOLTS. RAIL SHALL EXTEND TO THE EDGE OF THE COPING.			
	JET PUMP TIMER	1 PER SPA / 2 TOTAL	N/A	15 MINUTE MAXIMUM
REMARKS:	INSTALL PER 2020 NEC ARTICLE 680 OR CURRENT ADOPTED ELECTRICAL CODE. POOL CONTRACTOR TO PROVIDE TIMER AND ELECTRICAL CONTRACTOR TO INSTALL. TIMER SHALL BE MOUNTED IN A LOCATION WHICH REQUIRES THE BATHER TO EXIT THE SPA BEFORE THE TIMER CAN BE RESET.			
	EMERGENCY SHUT OFF SWITCH	1 PER SPA / 2 TOTAL	N/A	SHUT OFF SWITCH
REMARKS:	INSTALL PER 2020 NEC ARTICLE 680 OR CURRENT ADOPTED ELECTRICAL CODE. POOL CONTRACTOR TO PROVIDE SHUT OFF SWITCH AND ELECTRICAL CONTRACTOR TO INSTALL.			
	SUCTION OUTLET FITTING ASSEMBLY (SOFA)	SEE POOL FITTING SCHEDULE, SHEET SP300		
1	STRUCTURE OF SPA VESSEL	SEE SP500 SHEET SERIES		SHOTCRETE OR GUNITE
REMARKS:	PLACE PER IBC AND ACI STANDARDS. REINFORCE PER THESE PLANS.			
2	RAISED SPA WATERPROOFIING	ENTIRE SPA INTERIOR AND EXTERIOR	N/A	BASECRETE OR CEMKOTE FLEX ST. OR EQUAL
REMARKS:	WATERPROOF INSIDE OF SPA ACROSS TOP OF BENCH, UP SEAT BACK AND OVER TOP OF BOND BEAM PRIOR TO PLASTER. SEE WATERPROOFING NOTES THIS SHEET.			
3	SPA COPING	AROUND SPA PERIMETER	2 / SP600	PRECAST FEDERAL STONE BULLNOSE
REMARKS:	COPING SHALL PROVIDE HAND HOLD AROUND PERIMETER OF SPA. COPING MATERIAL/FINISH SHALL BE NON-SLIP, 16" MAX TOP SURFACE.			
4	SPA WATERLINE TILE	AROUND SPA PERIMETER	2 / SP600	6" BAND OF FROST PROOF CERAMIC TILE
REMARKS:	TILE FINISH SHALL BE WATERPROOF AND FREE FROM DEFECTS. SUBMIT TILE AND COLOR SAMPLES TO OWNER/ARCHITECT FOR SELECTION.			
5	STEP AND BENCH TRIM TILE	EDGES OF STEPS AND BENCHES	2 / SP600, 4 / SP600	2" NON-SLIP, FROST PROOF CERAMIC TILE
REMARKS:	SHALL BE OF CONTRASTING COLOR TO POOL FINISH. TILE FINISH SHALL BE WATERPROOF AND FREE FROM DEFECTS. SUBMIT TILE AND COLOR SAMPLES TO OWNER/ARCHITECT FOR SELECTION.			
6	SPA FINISH	SPA INTERIOR	N/A	WATERPROOF PLASTER
REMARKS:	FINISH SHALL BE WATERPROOF AND FREE FROM DEFECTS. FINISH COLOR SHALL BE WHITE OR LIGHT IN COLOR.			
7	RAISED SPA EXTERIOR FINISH	SPA EXTERIOR WALL BELOW COPING	2 / SP600	TILE OR STONE
REMARKS:	SUBMIT MATERIAL AND COLOR SAMPLES TO OWNER/ARCHITECT FOR SELECTION.			
8	SPA COVER	AS REQ'D.	N/A	UNIVERSAL FILTRATION INC. THERMGARD FLOATING INSULATED VAPOR RETARDANT COVER OR EQUAL
REMARKS:	NOT SHOWN ON PLANS. COORDINATE INSULATED COVER SIZE AND SHAPE WITH MANUFACTURER. COVER SHALL ACT AS A VAPOR RETARDANT.			

UTILITIES AND ITEMS PROVIDED BY OTHERS

(ITEMS TO BE DESIGNED, ENGINEERED, AND SPECIFIED BY OTHER CONSULTANTS)

MARK	DESCRIPTION	QUANTITY	DETAIL	REQUIREMENT
11	U.W. LIGHT JUNCTION BOX	BY OTHERS	7 / SP600	SEE ELECTRICAL PLANS
REMARKS:	NOT SHOWN ON PLAN. INSTALLED PER THE 2020 NEC ARTICLE 680 OR CURRENT ADOPTED ELECTRICAL CODE. SEE ELECTRICAL ITEMS SHEET SP100. JUNCTION BOX(ES) PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. LOCATION OF J-BOXES AND LIGHT SWITCHES BY ELECTRICAL CONTRACTOR.			
12	SPA DECK	BY OTHERS	N/A	SEE ARCHITECTURAL PLANS
REMARKS:	MINIMUM 5' WIDE NON-SLIP CONCRETE DECK CONTINUOUS AROUND POOL. SLOPE DECK 1/4" PER FOOT AWAY FROM POOL TO DECK DRAINS OR LANDSCAPING. DECK AND DECK DRAINS (IF REQUIRED) ARE NOT IN POOL CONTRACT.			

PERMIT SET

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COLORADO LICENSED PROFESSIONAL ENGINEER
CHARLES ROSS ANDERSON
PE-39476
2-28-24

FOR: POOL STRUCTURAL, HYDRAULIC, FILTRATION, & SANITIZING SYSTEMS ONLY.

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OWNER:

CENTRAL PARK HOTEL
1760 Central Park Dr.
Steamboat Springs, CO

PROJECT:

ISSUE DATE	DESCRIPTION
03/04/2024	Permit Set

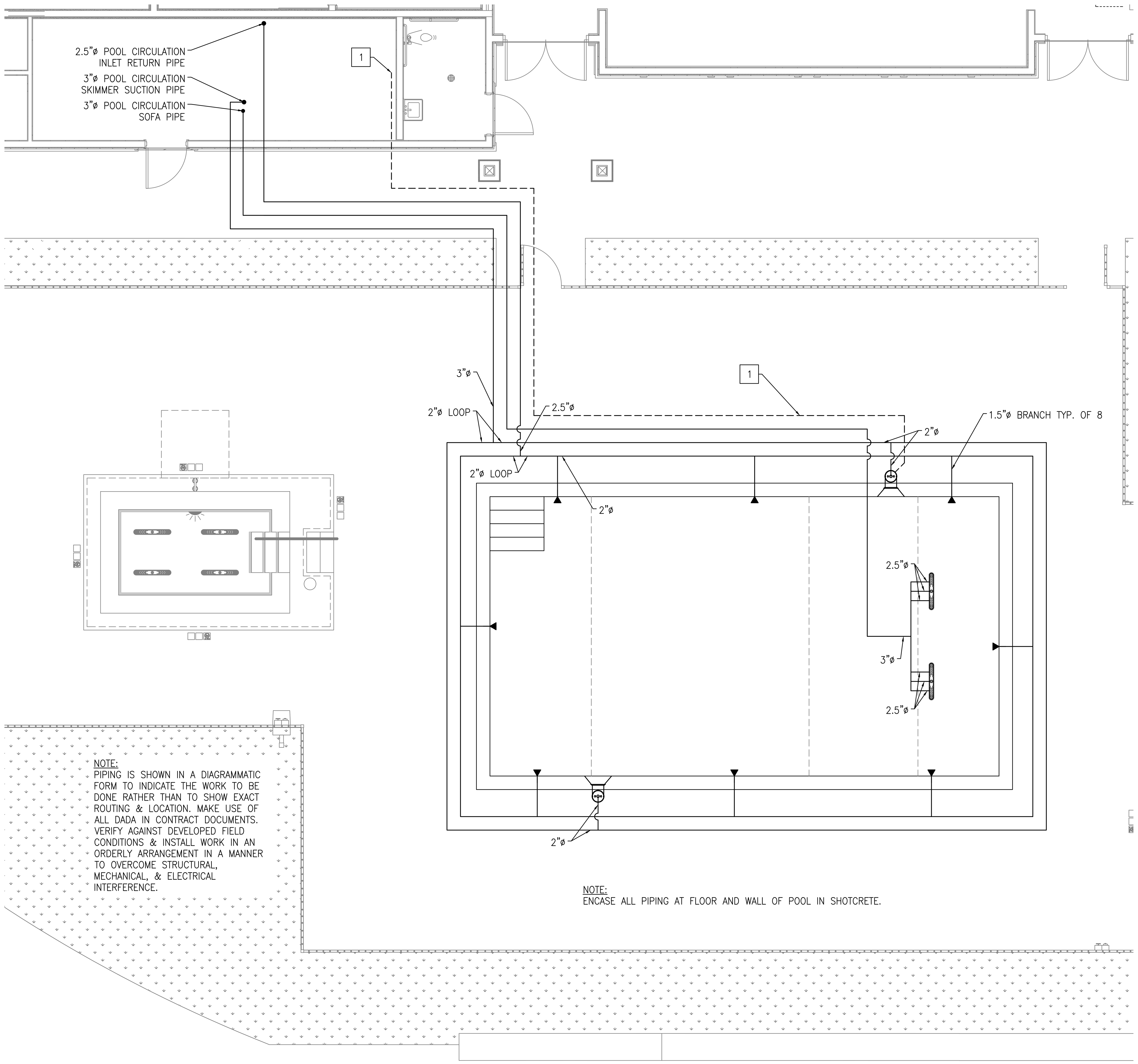
#	REV. DATE	DESCRIPTION

SPA #1 AND SPA #2 PLAN

PROJECT #: 24-702
DRAWN BY: IT
CHECKED BY: BH / JR

SHEET #
SP210

NOTE:
FOR CONTINUATION OF PIPING IN THE EQUIPMENT ROOM, SEE EQUIPMENT ROOM PIPING PLAN SHEET SP400



POOL CIRCULATION PIPING PLAN

SCALE: 1/4"=1'-0"

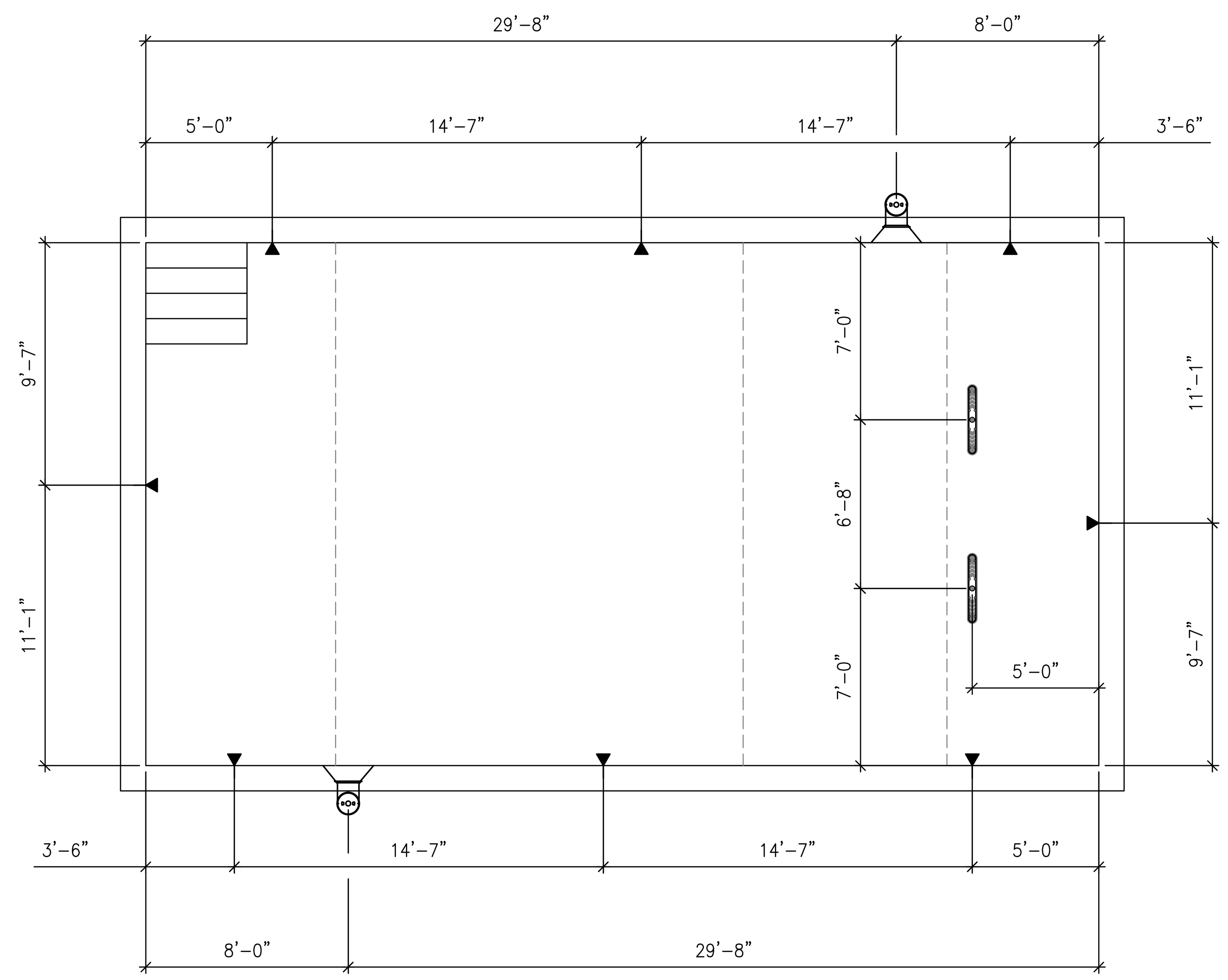
POOL PIPING NOTES:

1. ALL PIPING SHALL BE NSF APPROVED (ANSI/NSF 14), SCHEDULE 40 PVC (UNLESS OTHERWISE NOTED). FLEX PIPING AND HEAT BENDING RIGID PIPING IS NOT ALLOWED AS PART OF THIS DESIGN.
2. ALL PIPING SHALL BE IN ACCORDANCE WITH THE COLORADO STATE PLUMBING CODE AND COLORADO DEPARTMENT OF PUBLIC HEALTH CODE, THE A.S.T.M. DESIGNATION NUMBER D-1785, AND THE NSF SEAL FOR POTABLE WATER.
3. ALL BURIED PIPING SHALL BE PROPERLY SUPPORTED, PROTECTED AND INSTALLED IN ACCORDANCE WITH THE 2021 INTERNATIONAL PLUMBING CODE (IPC) SECTION 306 (TRENCHING, EXCAVATION AND BACKFILL), ASTM D2774-12 (UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPING), AND ASTM F1668-16 (CONSTRUCTION PROCEDURES FOR BURIED PLASTIC PIPE). ALSO SEE PROJECT SPECIFICATIONS FOR ADDITIONAL PIPE TRENCHING, EXCAVATION AND BACKFILL REQUIREMENTS.
4. POOL CONTRACTOR SHALL MAKE EVERY EFFORT TO CURTAIL THE USE OF FITTINGS TO REDUCE HEAD.
5. PIPING SHALL BE INSTALLED WITHOUT AIR ENTRAPPING HIGH POINTS OR REVERSE SLOPES, I.E. ON DISCHARGE LINES, NO DESCENDING RUNS BEYOND HORIZONTAL OR ASCENDING RUNS; ON SUCTION LINES, NO DESCENDING RUNS BEYOND ASCENDING RUNS.
6. ALL UNDERGROUND PRESSURE AND SUCTION PIPING SHALL SLOPE A MINIMUM OF 1%.
7. THE TEE FEEDING FROM THE COMMON LINE BETWEEN THE SUCTION OUTLETS, TO THE PUMP(S) SHALL BE LOCATED APPROXIMATELY MIDWAY BETWEEN THE OUTLETS (ANSI/APSP-7).
8. PIPING SHALL BE INSTALLED TO PREVENT FREEZING. WINTERIZE PIPING DURING WINTER MONTHS WHEN POOL IS NOT IN OPERATION.
9. ALL PIPING SHALL BE TESTED WITH AN INDUCED STATIC HYDRAULIC PRESSURE TEST AT: SYSTEM OPERATING PRESSURE (PER LOCAL CODES) OR MINIMUM 25 PSI FOR 24 HOURS, OR PER WRITTEN SPECIFICATIONS IF PROVIDED.
   ALL PIPING SHALL BE TESTED WITH AN INDUCED STATIC HYDRAULIC PRESSURE TEST AT: SYSTEM OPERATING PRESSURE (PER LOCAL CODES) OR MINIMUM 50 PSI FOR 24 HOURS, OR PER WRITTEN SPECIFICATIONS IF PROVIDED.
10. ALL DRAIN FITTINGS FLOW SHALL NOT EXCEED MANUFACTURER'S SPECIFIED CAPACITY (WITH REGARD TO ORIENTATION I.E. WALL OR FLOOR) WHEN 100% OF CIRCULATION AND/OR FEATURE FLOW RATE OF ASSOCIATED PIPING IS DIRECTED THROUGH SINGLE DRAIN FITTING.
11. MAIN DRAIN PIPING SHALL CARRY 100% OF ASSOCIATED FLOW RATE AT A VELOCITY NOT TO EXCEED 6' PER SECOND.
12. ALL PIPING DESIGNED FOR 6' PER SECOND MAXIMUM SUCTION, 8' PER SECOND MAXIMUM PRESSURE, AND 3' PER SECOND MAXIMUM GRAVITY.
13. VERIFY PIPE SIZES WITH THE EQUIPMENT ROOM PLAN AND SCHEMATIC. IF THERE ARE ANY DISCREPANCIES, REPORT THEM TO THE ARCHITECT/ENGINEER IMMEDIATELY.
14. POOL CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS.
15. OVERALL PIPING IS SHOWN IN DIAGRAMMATIC FORM TO INDICATE WORK TO BE DONE RATHER THAN TO SHOW EXACT ROUTING & LOCATION. MAKE USE OF ALL DATA IN CONTRACT DOCUMENTS, VERIFY AGAINST DEVELOPED FIELD CONDITIONS, & INSTALL WORK IN AN ORDERLY ARRANGEMENT IN A MANNER TO OVERCOME STRUCTURAL, MECHANICAL & ELECTRICAL INTERFERENCE.

POOL FITTING SCHEDULE

MARK	DESCRIPTION	QUANTITY	DETAIL	REQUIREMENT
(suction outlet symbol)	SUCTION OUTLET FITTING ASSEMBLY (SOFA)	2 FOR CIRC.	1/SP601	AQUASTAR 32CDPHxxx CHANNEL DRAIN
SOFA MODEL NO.: 32CDPH-32f_A-2.5x2b_B2.98_C0.95_D0.2_E0.475_F16				
REMARKS: TAMPER PROOF STAINLESS STEEL FASTENERS REQUIRED. OUTLET COVER SHALL COMPLY WITH ANSI/APSP/ICC-16 2017 OR CURRENT ADOPTED STANDARD. CONNECT 2.5" SUCTION PIPE TO BOTTOM PORT PER MANUFACTURER'S VGBA-2017 PRODUCT SPECIFICATION.				
(skimmer symbol)	SURFACE SKIMMER	2	4/SP601	AQUASTAR FLOW-STAR # SKR SERIES & AQUASTAR POURABLE LID #FL10XXX
REMARKS: NSF APPROVED W/EQUALIZER LINE WITH LISTED COVER TO COMPLY WITH ANSI/APSP/ICC-16 2017, FLOAT VALVE, CHECK VALVE. PROVIDE POURABLE SKIMMER LID FITTING TO MATCH COPING FINISH. PROVIDE VACUUM PLATE.				
(wall inlet symbol)	WALL INLET FITTING	8	2/SP601	STA-RITE DIRECTIONALLY ADJUSTABLE AND SECURABLE ORIFACE
REMARKS: 1/2"ø ORIFICE SIZE. SPACE INLETS PER PLAN LAYOUT/ DIMENSIONS. INLETS MUST BE SECURED IN PLACE ONCE ADJUSTED FOR UNIFORM CIRCULATION. INLETS MUST BE FLUSH WITH THE POOL WALL AND SUBMERGED AT LEAST 5 FEET BELOW THE WATER LEVEL OR AT THE BOTTOM OF THE VERTICAL PORTION OF THE WALL ABOVE THE POINT OF FLOOR-TO-WALL TRANSITION.				
1	WATER LEVEL SENSOR WIRE AND CONDUIT	BY OTHERS	N/A	WIRE AND CONDUIT
REMARKS: WIRE IN PVC CONDUIT FROM WATER LEVEL SENSOR IN SKIMMER BODY TO WATER LEVEL CONTROLLER IN EQUIPMENT ROOM.				

SEE ADDITIONAL NOTES SHEET SP100, SP210, SP310, SP400, AND SP500



POOL CIRCULATION FITTINGS DIMENSION PLAN

SCALE: 1/4"=1'-0"

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PROJECT:

ISSUE DATE	DESCRIPTION
03/04/2024	Permit Set
REV. DATE	DESCRIPTION

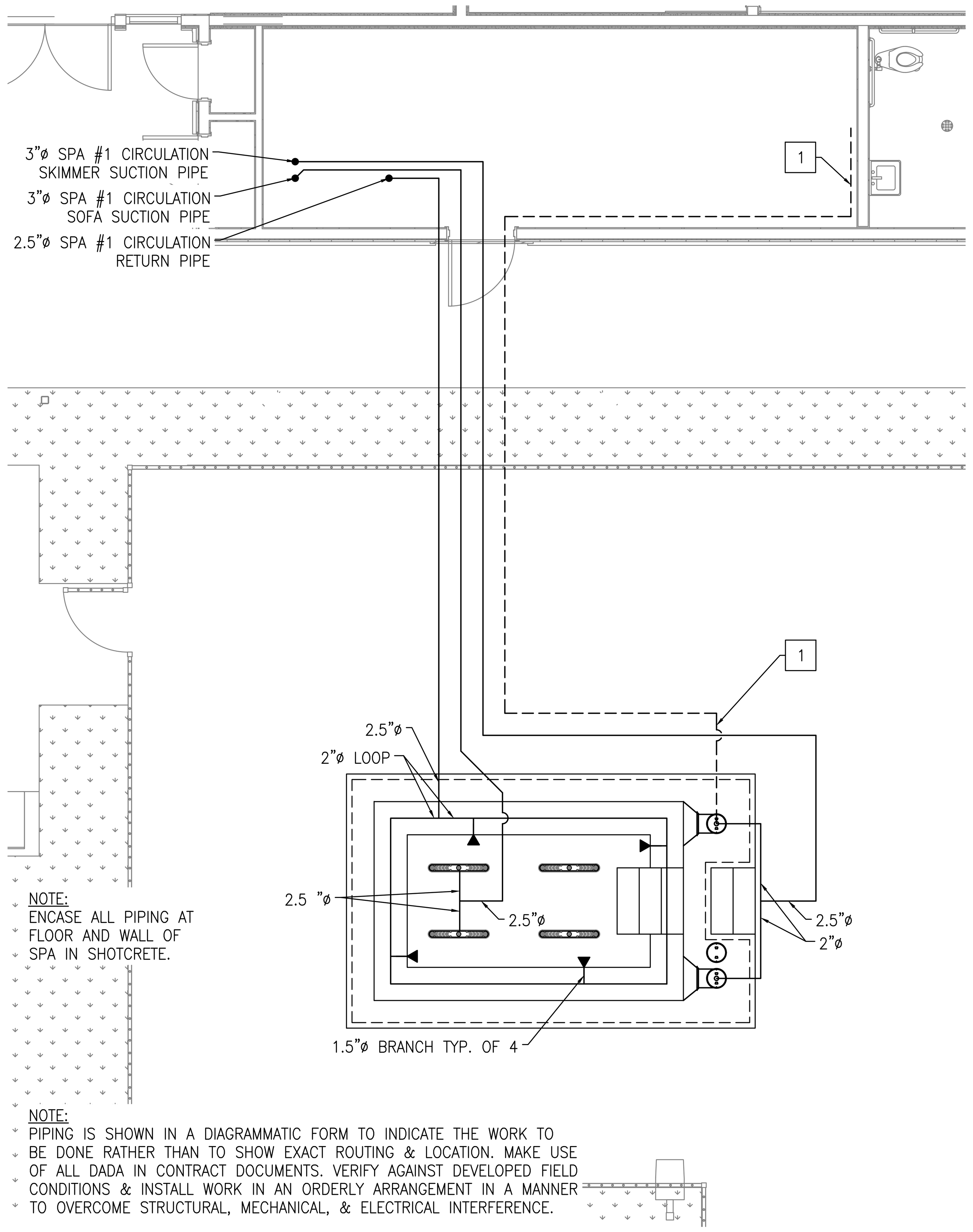
PERMIT SET

POOL PIPING PLAN

PROJECT #: 24-702
DRAWN BY: IT
CHECKED BY: BH / JR

SHEET # SP300

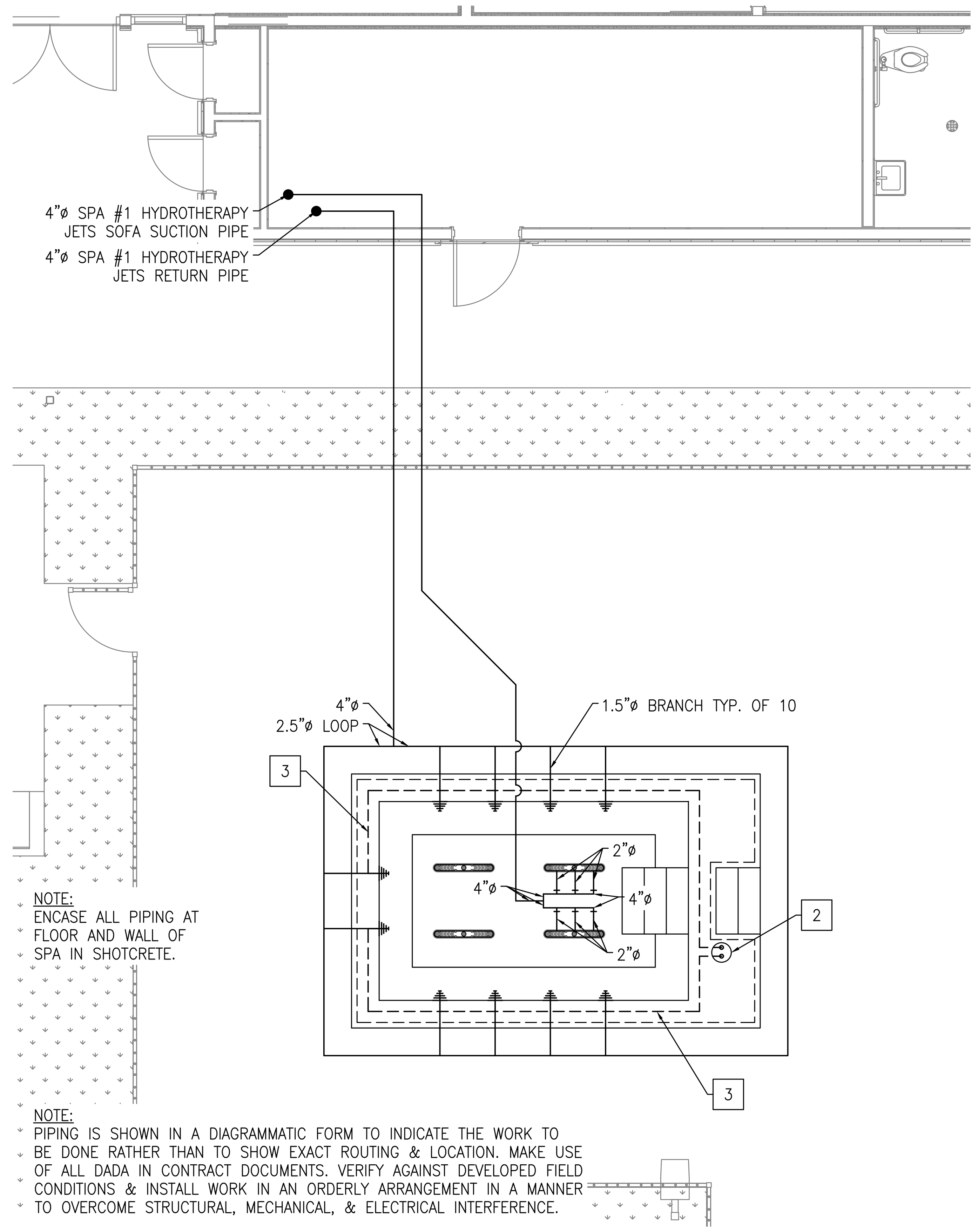
NOTE:
FOR CONTINUATION OF PIPING IN THE EQUIPMENT ROOM, SEE EQUIPMENT ROOM PIPING PLAN SHEET SP400



SPA #1 CIRCULATION PIPING PLAN

SCALE: 1/4"=1'-0"

NOTE:
FOR CONTINUATION OF PIPING IN THE EQUIPMENT ROOM, SEE EQUIPMENT ROOM PIPING PLAN SHEET SP400



SPA #1 HYDROTHERAPY JETS PIPING PLAN

SCALE: 1/4"=1'-0"

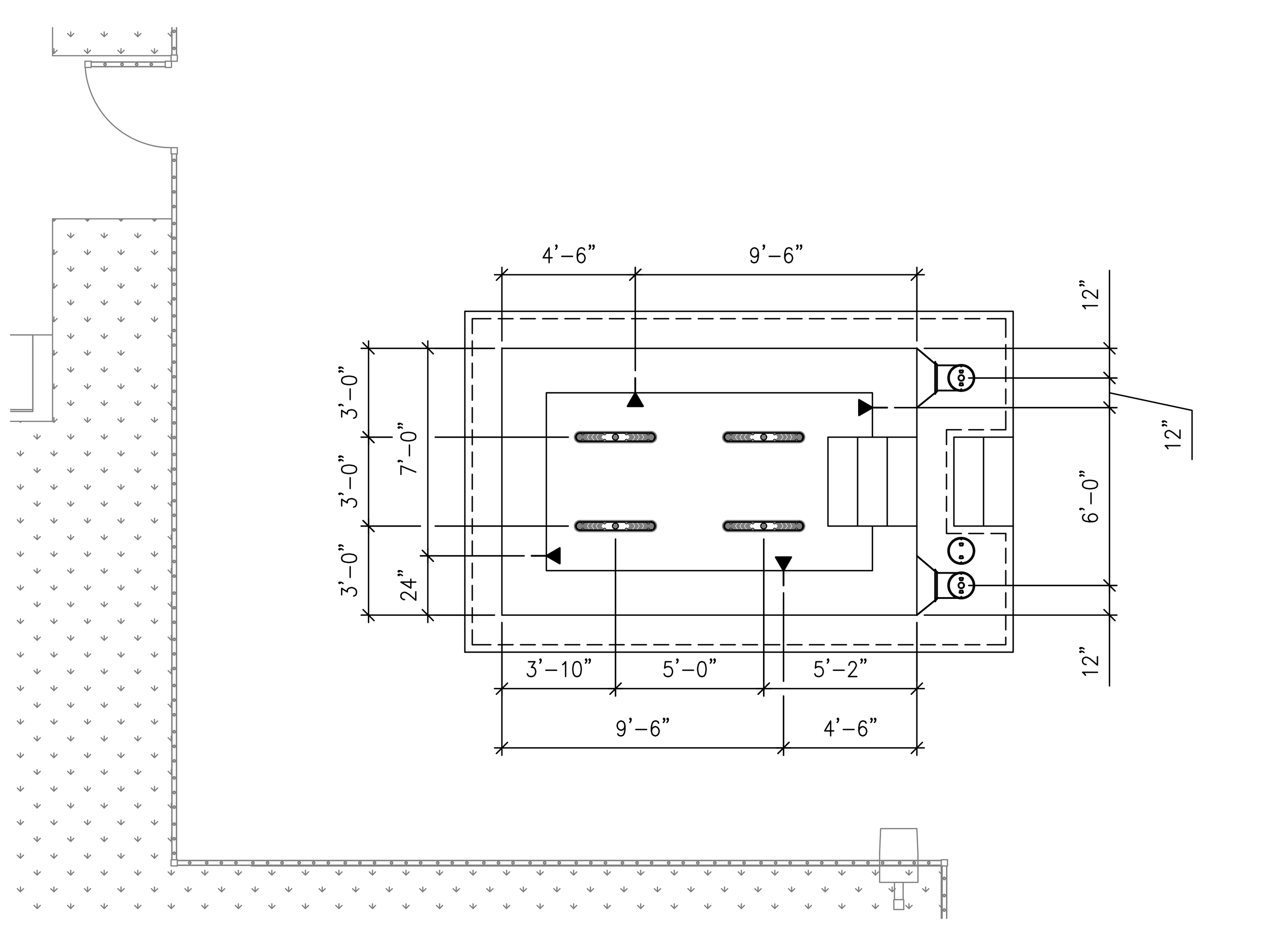
SPA #1 FITTING SCHEDULE

MARK	DESCRIPTION	QUANTITY	DETAIL	REQUIREMENT
(suction outlet symbol)	SUCTION OUTLET FITTING ASSEMBLY (SOFA)	2 FOR CIRC. 2 FOR JETS 4 TOTAL	1 / SP601	AQUASTAR 32CDPHxxx CHANNEL DRAIN
SOFA MODEL NO.: CIRC=32CDPH–32f_A–2x2b_B2.98_C0.95_D0.2_E0.475_F16 JET=32CDPH–32f_A–2x3b_B2.98_C0.95_D0.2_E0.475_F16				
REMARKS: TAMPER PROOF STAINLESS STEEL FASTENERS REQUIRED. OUTLET COVER SHALL COMPLY WITH ANSI/APSP/ICC–16 2017 OR CURRENT ADOPTED STANDARD. CONNECT 2" SUCTION PIPE TO BOTTOM PORT PER MANUFACTURER'S VGBA–2017 PRODUCT SPECIFICATION.				
(skimmer symbol)	SURFACE SKIMMER	2	6 / SP601	AQUASTAR FLOW–STAR # SKR SERIES & AQUASTAR POURABLE LID #FL10XXX
REMARKS: NSF APPROVED W/EQUALIZER LINE WITH LISTED COVER TO COMPLY WITH ANSI/APSP/ICC–16 2017, FLOAT VALVE, CHECK VALVE. PROVIDE POURABLE SKIMMER LID FITTING TO MATCH COPING FINISH. PROVIDE VACUUM PLATE.				
(wall inlet symbol)	WALL INLET FITTING	4	3 / SP601	STA–RITE DIRECTIONALLY ADJUSTABLE AND SECURABLE ORIFACE
REMARKS: 3/4"ø ORIFICE SIZE. SPACE INLETS PER PLAN LAYOUT/ DIMENSIONS. INLETS MUST BE SECURED IN PLACE ONCE ADJUSTED FOR UNIFORM CIRCULATION. INLETS MUST BE FLUSH WITH THE POOL WALL AND SUBMERGED AT LEAST 5 FEET BELOW THE WATER LEVEL OR AT THE BOTTOM OF THE VERTICAL PORTION OF THE WALL ABOVE THE POINT OF FLOOR–TO–WALL TRANSITION.				
(jet symbol)	HYDRO THERAPY JET FITTING	10	6 / SP601	BALBOA WATER GROUP GUNITE JET #10–4320 OR EQUAL
REMARKS: SHOTCRETE EXTENDED VENTURI JET ASSEMBLY. ALSO PROVIDE VENTURI TEE HEX REDUCER TO PROVIDE 18 G.P.M./JET.				
1	WATER LEVEL SENSOR WIRE AND CONDUIT	BY OTHERS	N/A	WIRE AND CONDUIT
REMARKS: WIRE IN PVC CONDUIT FROM WATER LEVEL SENSOR IN SKIMMER BODY TO WATER LEVEL CONTROLLER IN EQUIPMENT ROOM.				
2	AIR INTAKE BOX	1	7 / SP601	PARAMOUNT AIRPORT 004–252–8192–0X
REMARKS: PROVIDE WITH TWO MUFFLER FITTINGS, AND USE BOTH BOTTOM PORTS FOR AIR LINE CONNECTIONS IF REQUIRED. SIX JETS SHALL BE THE MAXIMUM NUMBER OF JETS PER PORT. PROVIDE A POUR–A–LID FITTING TO MATCH THE COPING/DECK FINISH.				
3	AIR LINE TO JETS	PER PLAN	N/A	SCH. 40 PVC PIPE FROM AIRPORT
REMARKS: SIZE AIRLINE TO ACCOMMODATE 10 JETS (6 JETS MAXIMUM PER PORT). ROUTE AIRLINE ABOVE JET BODY BUT BELOW WATER LEVEL. AIR PIPE SHALL NOT HAVE HIGH OR LOW SPOTS.				

AIRLINE PIPING NOTES:

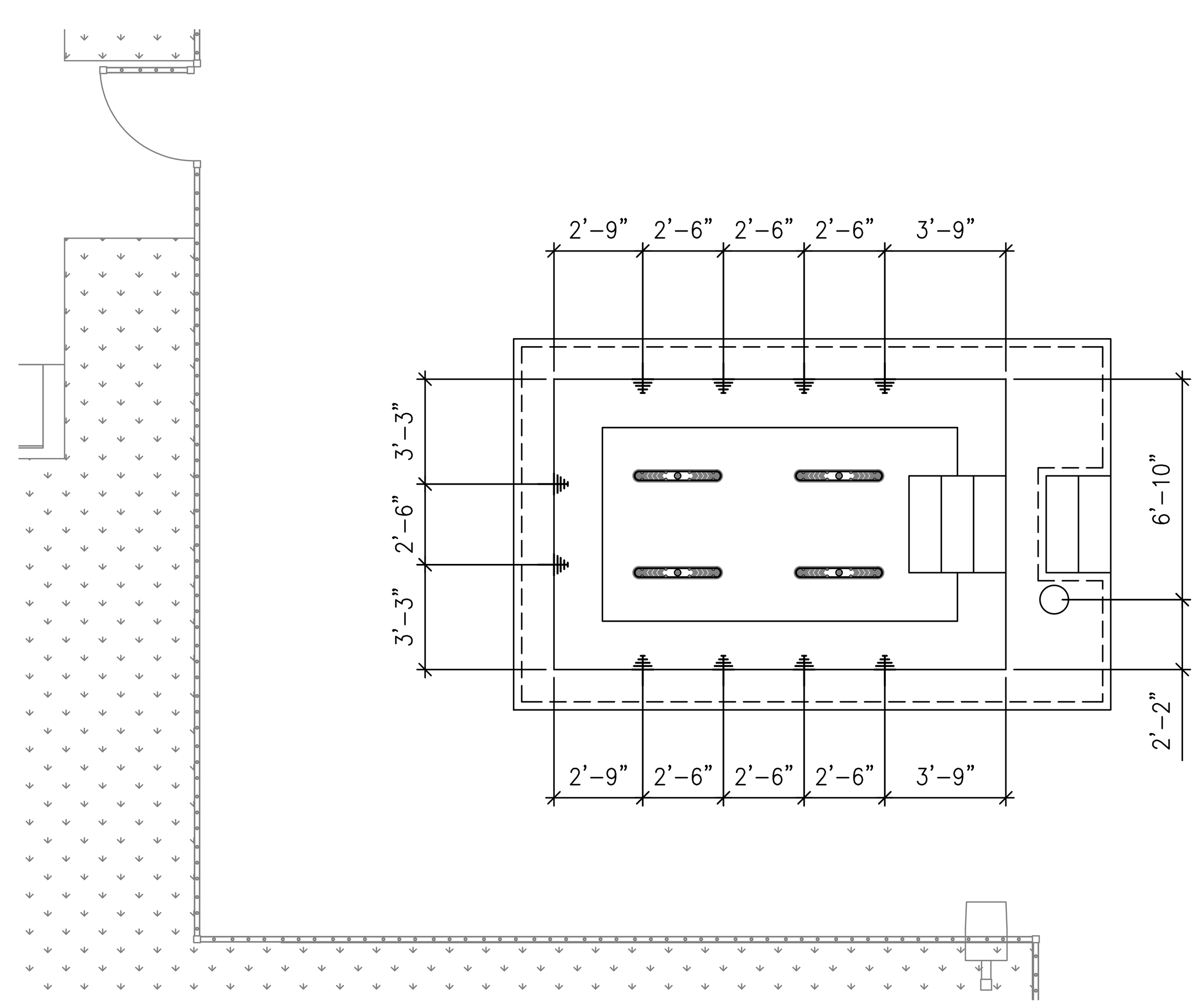
1. AIR PIPING SHOWN DIAGRAMMATICALLY.
2. PIPING SHALL BE INSTALLED WITHOUT AIR–ENTRAPPING HIGH POINTS AND WATER–ENTRAPPING LOW POINTS. AIR PIPES MUST SLOPE CONTINUOUSLY UP TO THE AIR PORTS WITHOUT HIGH–OR–LOW SPOTS.
3. AIR PIPES SHALL BE ROUTED ABOVE JET BODIES.
4. PIPING SHALL BE ROUTED COMPLETELY BELOW WATER LEVEL WITHOUT HIGH–OR–LOW SPOTS PER AIR PORT MANUFACTURER'S RECOMMENDATIONS.

SEE ADDITIONAL NOTES SHEET SP100, SP210, SP300, S400, AND SP500



SPA #1 CIRCULATION FITTINGS DIMENSION PLAN

SCALE: 1/4"=1'-0"



SPA #1 HYDROTHERAPY JET FITTING DIMENSION PLAN

SCALE: 1/4"=1'-0"

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COLORADO LICENSED PROFESSIONAL ENGINEER CHARLES ROSS ANDERSON PE-39476 2-28-24

FOR: POOL STRUCTURAL, HYDRAULIC, FILTRATION, & SANITIZING SYSTEMS ONLY.

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RICHARD DESIGN PARTNERSHIP
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SALT LAKE CITY, UT 84102

OWNER:

CENTRAL PARK HOTEL
1760 Central Park Dr.
Steamboat Springs, CO

PROJECT:

ISSUE DATE	DESCRIPTION
03/04/2024	Permit Set
# REV. DATE	DESCRIPTION

PERMIT SET

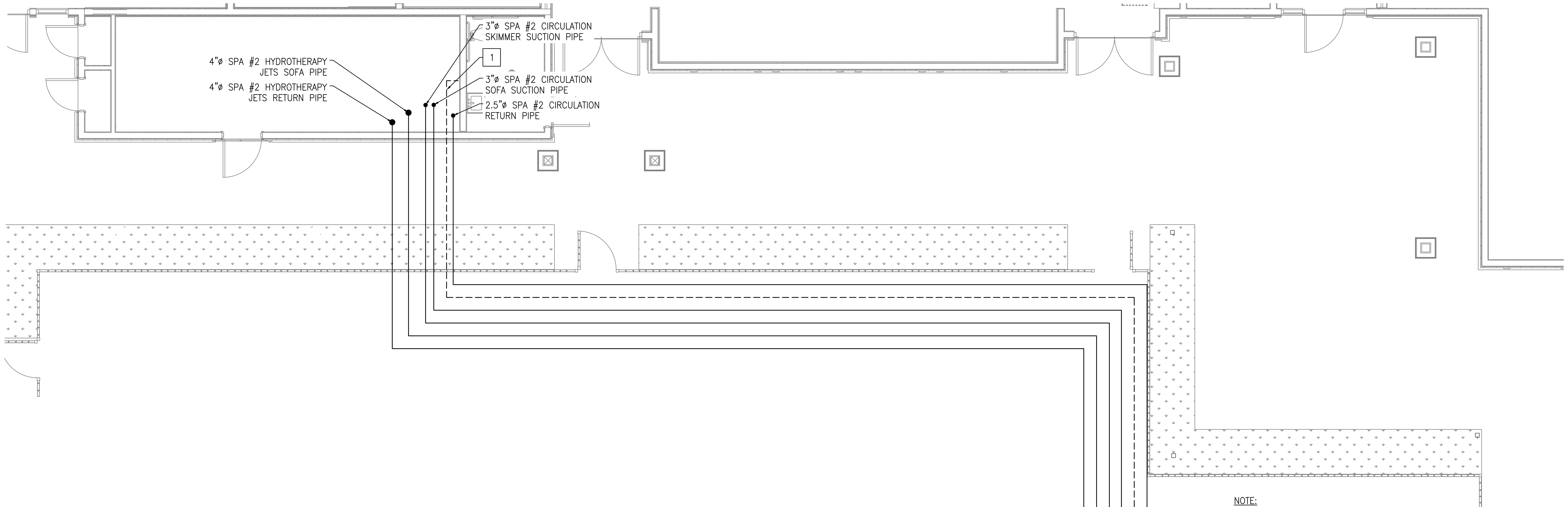
SPA #1 PIPING PLAN

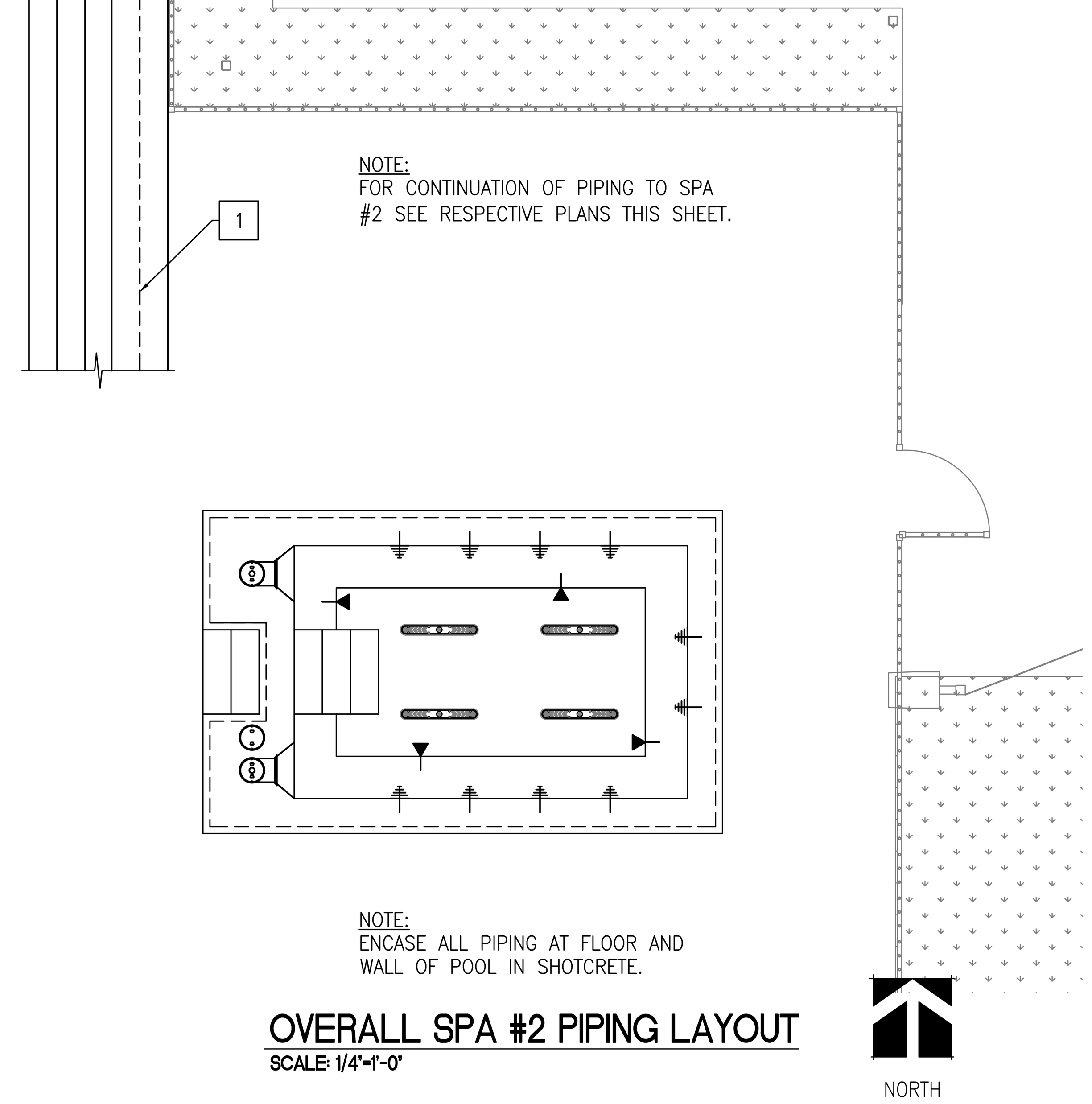
PROJECT #: 24-702
DRAWN BY: IT
CHECKED BY: BH / JR

SHEET #
SP310

NOTE:
FOR CONTINUATION OF PIPING IN THE EQUIPMENT ROOM, SEE EQUIPMENT ROOM PIPING PLAN SHEET SP 400

NOTE:
PIPING IS SHOWN IN A DIAGRAMMATIC FORM TO INDICATE THE WORK TO BE DONE RATHER THAN TO SHOW EXACT ROUTING & LOCATION. MAKE USE OF ALL DATA IN CONTRACT DOCUMENTS. VERIFY AGAINST DEVELOPED FIELD CONDITIONS & INSTALL WORK IN AN ORDERLY ARRANGEMENT IN A MANNER TO OVERCOME STRUCTURAL, MECHANICAL, & ELECTRICAL INTERFERENCE.

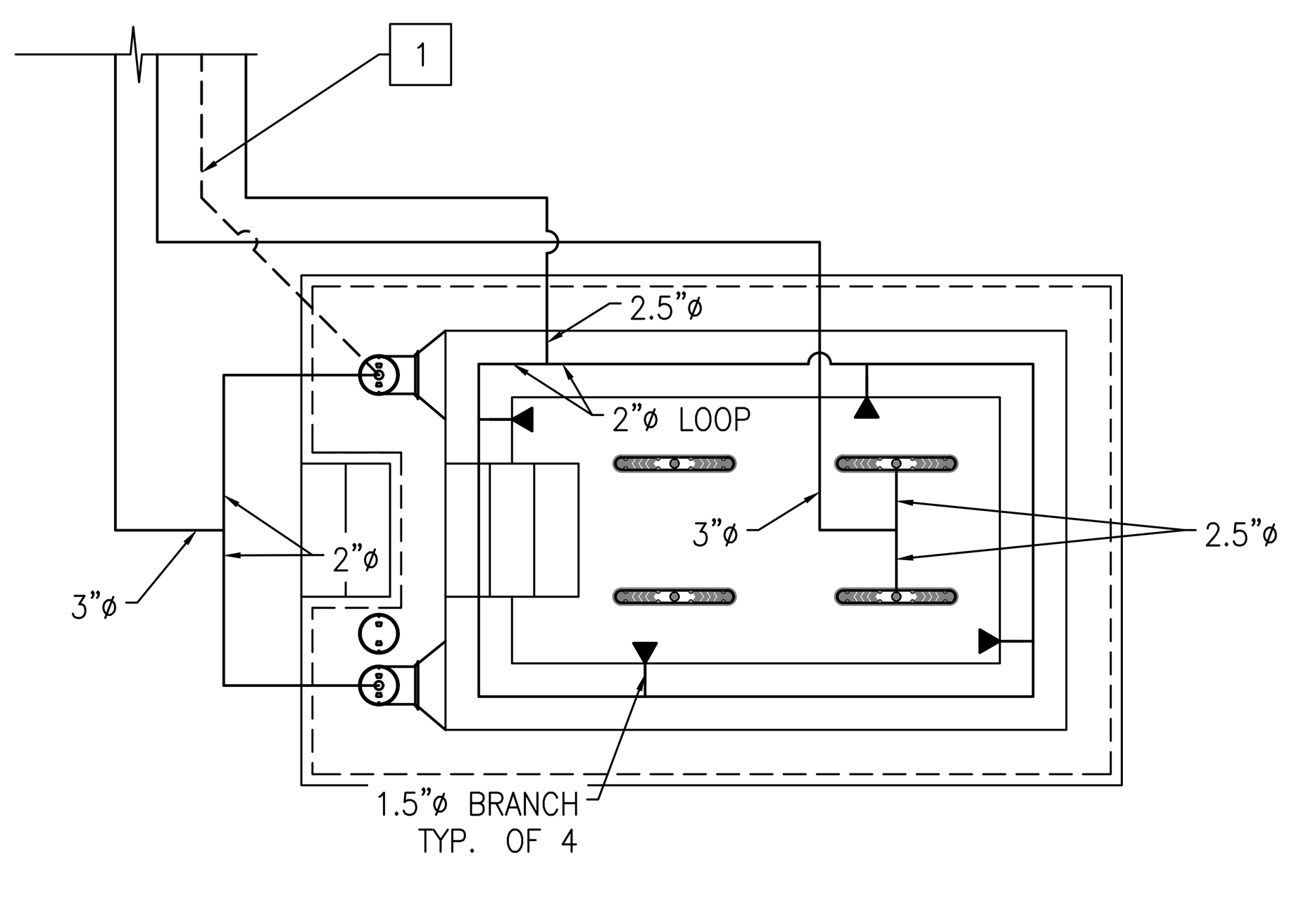




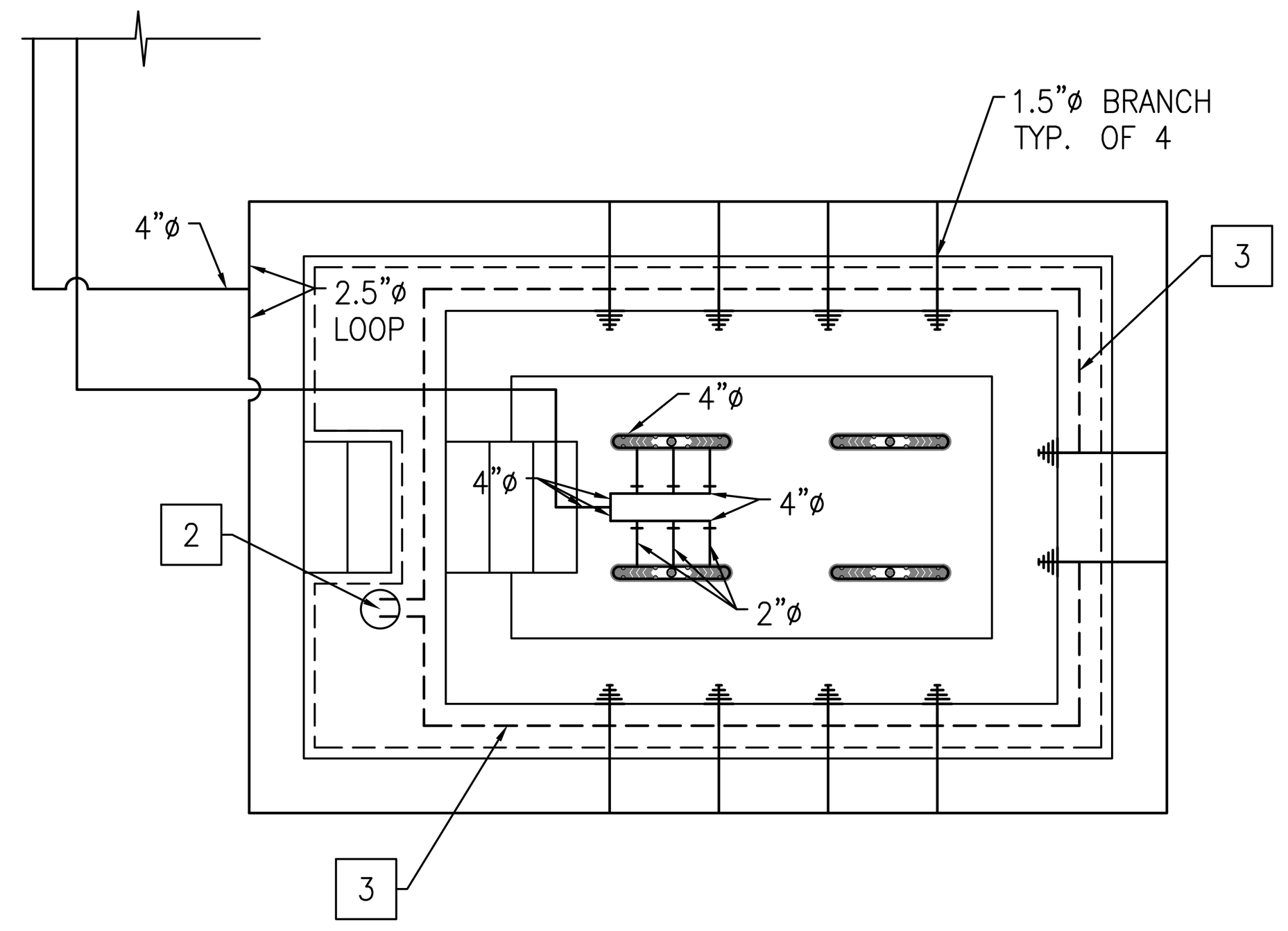
NOTE:
FOR CONTINUATION OF PIPING TO SPA #2 SEE RESPECTIVE PLANS THIS SHEET.

NOTE:
ENCASE ALL PIPING AT FLOOR AND WALL OF POOL IN SHOTCRETE.

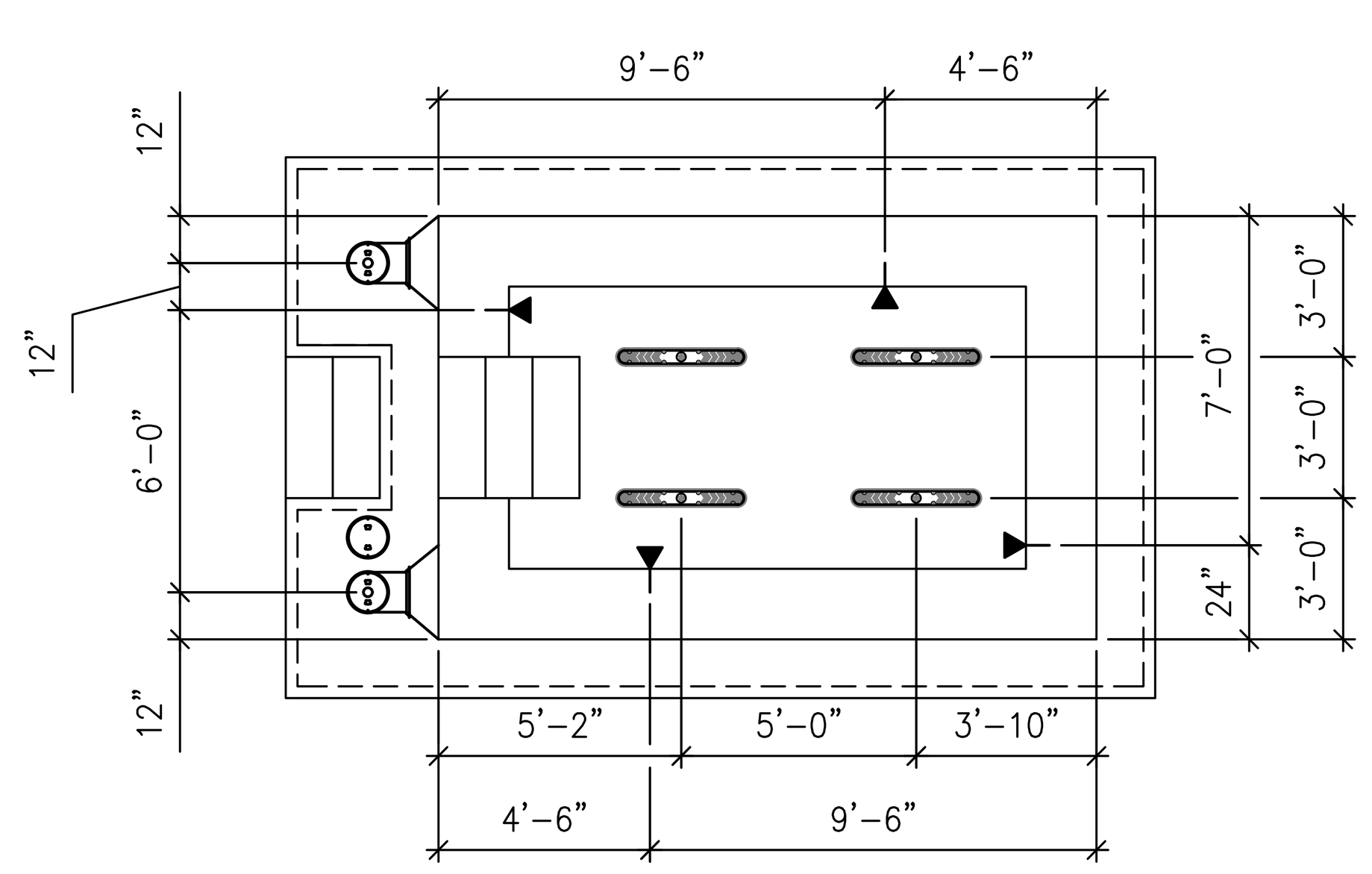
OVERALL SPA #2 PIPING LAYOUT
SCALE: 1/4"=1'-0"



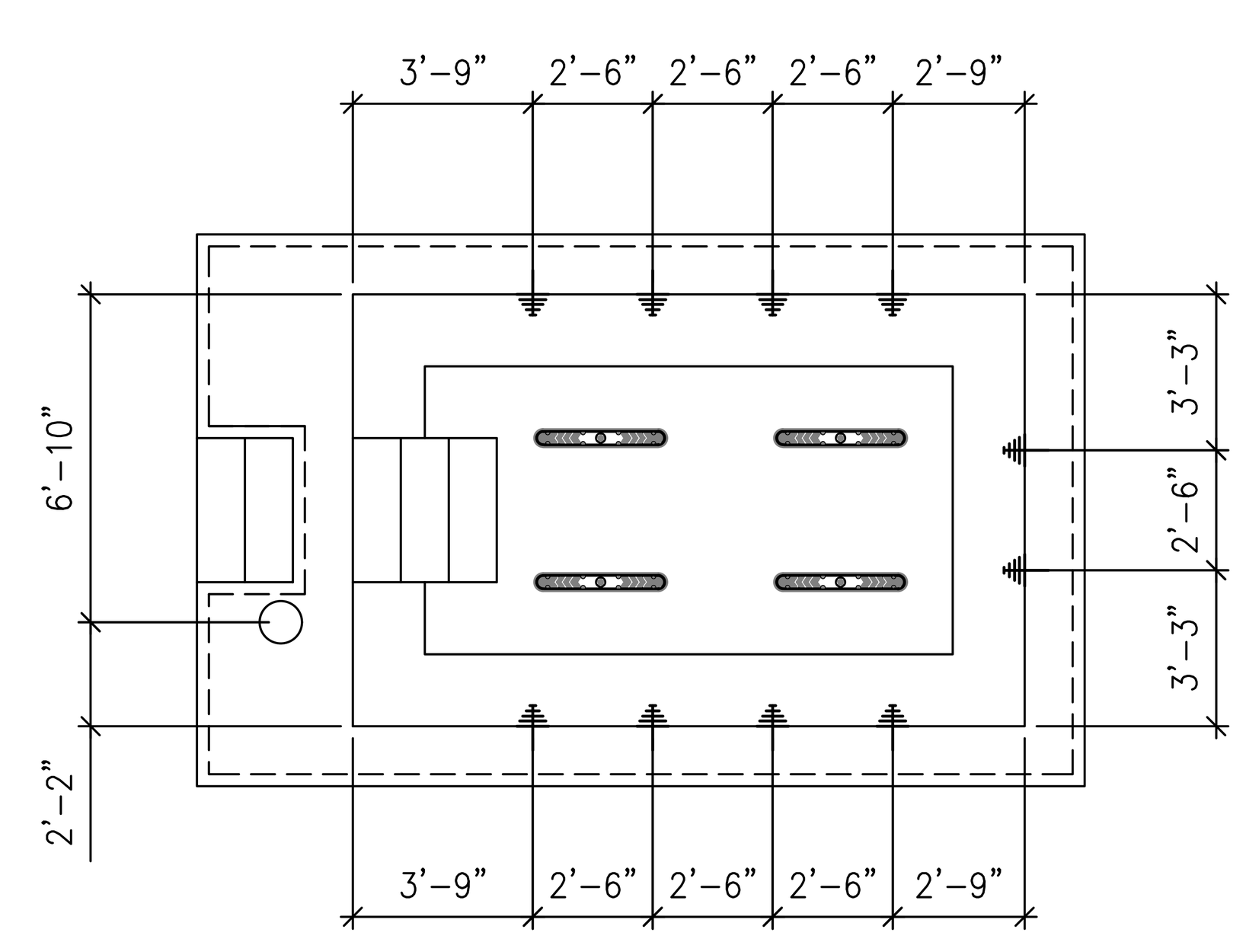
SPA #2 CIRCULATION PIPING PLAN
SCALE: 1/4"=1'-0"



SPA #2 HYDROTHERAPY JETS PIPING PLAN
SCALE: 1/4"=1'-0"



SPA #2 CIRCULATION FITTINGS DIMENSION PLAN
SCALE: 1/4"=1'-0"



SPA #2 HYDROTHERAPY JET FITTING DIMENSION PLAN
SCALE: 1/4"=1'-0"

SPA #2 FITTING SCHEDULE

MARK	DESCRIPTION	QUANTITY	DETAIL	REQUIREMENT
(suction outlet symbol)	SUCTION OUTLET FITTING ASSEMBLY (SOFA)	2 FOR CIRC. 2 FOR JETS 4 TOTAL	1 / SP601	AQUASTAR 32CDPHxxx CHANNEL DRAIN
SOFA MODEL NO.: 32CDPH-32f_A-2.5x2b_B2.98_C0.95_D0.2_E0.475_F16				
REMARKS: TAMPER PROOF STAINLESS STEEL FASTENERS REQUIRED. OUTLET COVER SHALL COMPLY WITH ANSI/APSP/ICC-16 2017 OR CURRENT ADOPTED STANDARD. CONNECT 2.5" SUCTION PIPE TO BOTTOM PORT PER MANUFACTURER'S VGBA-2017 PRODUCT SPECIFICATION.				
(skimmer symbol)	SURFACE SKIMMER	2	6 / SP601	AQUASTAR FLOW-STAR # SKR SERIES
REMARKS: NSF APPROVED, FLOAT VALVE, CHECK VALVE. PROVIDE POUR-A-LID FITTING TO MATCH COPING/DECK FINISH. PROVIDE VACUUM PLATE. (SPA ONLY)				
(wall inlet symbol)	WALL INLET FITTING	4	3 / SP601	STA-RITE DIRECTIONALLY ADJUSTABLE AND SECURABLE ORIFACE
REMARKS: 3/4"ø ORIFICE SIZE. SPACE INLETS PER PLAN LAYOUT/ DIMENSIONS. INLETS MUST BE SECURED IN PLACE ONCE ADJUSTED FOR UNIFORM CIRCULATION. INLETS MUST BE FLUSH WITH THE POOL WALL AND SUBMERGED AT LEAST 5 FEET BELOW THE WATER LEVEL OR AT THE BOTTOM OF THE VERTICAL PORTION OF THE WALL ABOVE THE POINT OF FLOOR-TO-WALL TRANSITION.				
(jet symbol)	HYDRO THERAPY JET FITTING	10	6 / SP601	BALBOA WATER GROUP GUNITE JET #10-4320 OR EQUAL
REMARKS: SHOTCRETE EXTENDED VENTURI JET ASSEMBLY. ALSO PROVIDE VENTURI TEE HEX REDUCER TO PROVIDE 18 G.P.M./JET.				
1	WATER LEVEL SENSOR WIRE AND CONDUIT	BY OTHERS	N/A	WIRE AND CONDUIT
REMARKS: WIRE IN PVC CONDUIT FROM WATER LEVEL SENSOR IN SKIMMER BODY TO WATER LEVEL CONTROLLER IN EQUIPMENT ROOM.				
2	AIR INTAKE BOX	1	7 / SP601	PARAMOUNT AIRPORT 004-252-8192-0X
REMARKS: PROVIDE WITH TWO MUFFLER FITTINGS, AND USE BOTH BOTTOM PORTS FOR AIR LINE CONNECTIONS IF REQUIRED. SIX JETS SHALL BE THE MAXIMUM NUMBER OF JETS PER PORT. PROVIDE A POUR-A-LID FITTING TO MATCH THE COPING/DECK FINISH.				
3	AIR LINE TO JETS	PER PLAN	N/A	SCH. 40 PVC PIPE FROM AIRPORT
REMARKS: SIZE AIRLINE TO ACCOMMODATE 10 JETS (6 JETS MAXIMUM PER PORT). ROUTE AIRLINE ABOVE JET BODY BUT BELOW WATER LEVEL. AIR PIPE SHALL NOT HAVE HIGH OR LOW SPOTS.				

SEE ADDITIONAL NOTES SHEET SP100, SP210, SP300, SP310, SP400, AND SP500

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1760 Central Park Dr.
Steamboat Springs, CO
PROJECT:

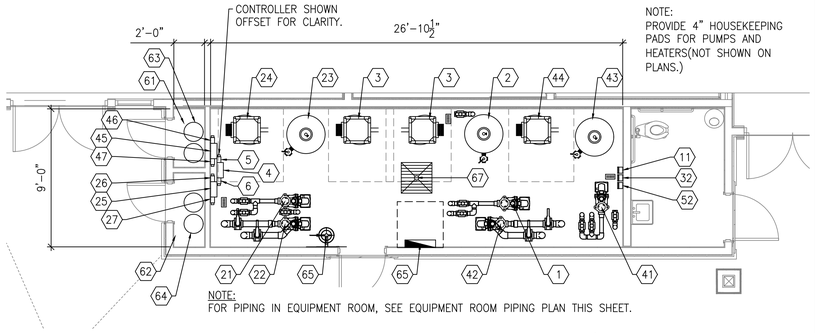
ISSUE DATE	DESCRIPTION
03/04/2024	Permit Set
# REV. DATE	DESCRIPTION

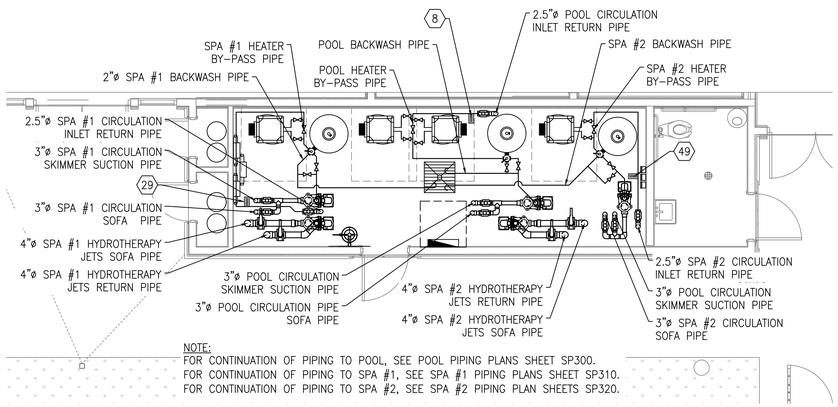
PERMIT SET

SPA #2 PIPING PLAN

PROJECT #: 24-702
DRAWN BY: IT
CHECKED BY: BH / JR

SHEET #
SP320





NOTE:
FOR PIPING IN EQUIPMENT ROOM, SEE EQUIPMENT ROOM PIPING PLAN THIS SHEET.

EQUIPMENT ROOM LAYOUT

SCALE: 1/4"=1'-0"

NORTH

NOTE:
FOR CONTINUATION OF PIPING TO POOL, SEE POOL PIPING PLANS SHEET SP300.
FOR CONTINUATION OF PIPING TO SPA #1, SEE SPA #1 PIPING PLANS SHEET SP310.
FOR CONTINUATION OF PIPING TO SPA #2, SEE SPA #2 PIPING PLAN SHEETS SP320.

EQUIPMENT ROOM PIPING PLAN

SCALE: 1/4"=1'-0"

NOTE:
IF HEATER IS GREATER THAN 200,000 BTU IT SHALL BE ASME CODE STAMPED & REGISTERED BY THE NAT'L BOARD OF INSPECTORS.

NOTE:
ALL PLUMBING MUST BE IDENTIFIED BY A COLOR CODE OR LABELS ON ALL PIPING AND VALVES. INCLUDE FLOW DIRECTION ARROWS.

NOTE:
FEED LINE(S) INSERTED IN THE CHEMICAL STORAGE DRUM(S) SHALL UTILIZE A VAPOR SHIELD/CHECK VALVE TEE ASSEMBLY TO PROVIDE AIR TO THE TANK. DRUM PLUGS LEFT OFF FOR AIR SUPPLY NOT ACCEPTABLE.

NOTE:
INSTALL FLOWMETER WITH 10 X PIPE DIAMETERS OF STRAIGHT PIPE UPSTREAM AND 5 X PIPE DIAMETERS OF STRAIGHT PIPE DOWNSTREAM. (OR PER MANUFACTURER'S RECOMMENDATIONS)

NOTE:
IF CIRC. EQUIPMENT IS LOCATED BELOW WATER LEVEL, ADD ISOLATION VALVES ON EACH PIECE OF EQUIPMENT.

TYPICAL CIRCULATION EQUIPMENT AND POTABLE WATER FILL SCHEMATIC

SCALE: NONE

NOTE:
PLUMBING ENGINEER TO DETERMINE EXACT SUMP DIMENSIONS & PIPE SIZE. (N.I.P.C.)

NOTE:
SLOPE FLOOR 1/4" PER FT. TO SUMP

BACKWASH SUMP DETAIL

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

1
SP400

POOL CIRCULATION EQUIPMENT SCHEDULE

(VERIFY ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONSULTANT/CONTRACTOR)

MARK	DESCRIPTION	QUANTITY	DETAIL	REQUIREMENT
1	PUMP FOR CIRCULATION. WITH HAIR AND LINT STRAINER	1	SEE CIRC. EQUIP. SCHEMATIC	PENTAIR INTELLIFLO3 VSF (UP TO 3 HP)
	REMARKS: PUMP COMES WITH INTEGRAL VARIABLE FREQUENCY DRIVE. AT 74 GPM, 81 FEET TDH AVAILABLE. ELECTRICAL REQUIREMENTS: 208-230 V, 60 Hz, SINGLE PHASE. 3 AUXILIARY CONTACTS REQUIRED FOR INTERLOCKING. SEE ELECTRICAL INTERLOCK NOTES. VERIFY WITH ELECTRICAL CONTRACTOR/ENGINEER FOR EXACT ELECTRICAL REQUIREMENTS. CONTRACTOR MUST PROVIDE AN EASILY READABLE PERMANENT SIGN AT THE PUMP: "FLOW RANGE FOR PUMP IS 74 GPM TO 88 GPM. OWNER/OPERATOR IS RESPONSIBLE FOR NOT EXCEEDING THE MAXIMUM FLOW OF 88 GPM"			
2	HIGH RATE SAND FILTER	1	SEE CIRC. EQUIP. SCHEMATIC	PENTAIR TRITON TR-100C
	REMARKS: 30"ø FILTER. 4.91 SF AREA FILTER. PROVIDE COMPLETE WITH PENTAIR "HI-FLOW" BACKWASH VALVES FOR MANUAL BACKWASH.			
3	HEATER	2	SEE CIRC. EQUIP. SCHEMATIC	PENTAIR MASTERTEMP ASME 400,000 BTU
	REMARKS: • NATURAL GAS: 400,000 BTU. FUEL SUPPLY REQUIREMENTS BY GENERAL AND/OR MECHANICAL CONTRACTOR. • COMBUSTION AIR: PROVIDE A SEALED COMBUSTION KIT FOR SEALED COMBUSTION. COORDINATE WITH MECHANICAL CONTRACTOR FOR DUCTWORK. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS. • EXHAUST FLUE DUCTWORK: COORDINATE WITH MECHANICAL CONTRACTOR AND INSTALL PER MANUFACTURER'S REQUIREMENTS. • ELECTRICAL: ELECTRICAL CONNECTIONS BY ELECTRCIAL CONTRACTOR. • PIPING: USE CPVC PIPING IN AND OUT OF HEATER AS REQUIRED BY MANUFACTURER. • ASME VERSION REQUIRED.			
4	CHEMICAL CONTROLLER	1	SEE CIRC. EQUIP. SCHEMATIC	PENTAIR INTELLICHEM, IPS, PROMINENT, OR EQUAL
	REMARKS: CONTROLS ORP/PH. 110-120 VAC, <1 AMP. ELECTRICAL INTERLOCKING BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL INTERLOCKING NOTES. PROVIDE POWER FOR THE CONTROLLER ON A SEPARATE CIRCUIT FROM THE POWER FOR THE CHEMICAL FEEDER RELAYS.			
	CHEMICAL DISTRIBUTION INTERLOCK	1	N/A	IPS PRESSURE SWITCH
	REMARKS: INSTALL PER MFR INSTALLATION INSTRUCTIONS. CHEMICAL DISTRIBUTION SHALL STOP WHEN FLOW HAS STOPPED AND/OR PUMP IS NOT OPERATING CORRECTLY.			
5	FEEDER FOR LIQUID CHLORINE	1	SEE CIRC. EQUIP. SCHEMATIC	STENNER #45-M5
	REMARKS: 120 VAC, 60 Hz, 1.7 AMP, 1/30 FRACTIONAL HP.			
6	FEEDER FOR ACID	1	SEE CIRC. EQUIP. SCHEMATIC	STENNER #45-M5
	REMARKS: 120 VAC, 60 Hz, 1.7 AMP, 1/30 FRACTIONAL HP.			
7	CIRCULATION EQUIPMENT INTERCONNECTING PIPING	IN EQUIPMENT ROOM	SEE PLAN AND CIRC. EQUIP. SCHEMATIC	2.5"ø PVC SCHEDULE 40
	REMARKS: 2.5"ø PIPE. LABEL PIPES AND IDENTIFY FLOW DIRECTION.			
8	FLOWMETER	1	SEE CIRC. EQUIP. SCHEMATIC	BLUE WHITE #F-30250P
	REMARKS: METER RANGE: 29-150 GPM. MOUNT FLOWMETER IN EASILY READABLE LOCATION. FLOWMETER SHALL BE INSTALLED WITH PROPER RUN OF PIPE UPSTREAM AND DOWNSTREAM OF FLOWMETER PER MANUFACTURER'S RECOMMENDATIONS.			
9	PRESSURE GAUGES AND VACUUM GAUGE	2 1	SEE CIRC. EQUIP. SCHEMATIC	0-60 PSI 0-30 Hg
	REMARKS: NOT SHOWN ON PLAN. INTEGRATE TO SHOW FILTER INFLUENT AND EFFLUENT PRESSURES. PROVIDE A COMBINATION PRESSURE/VACUUM GAUGE ON SUCTION SIDE OF EACH PUMP AND A PRESSURE GAUGE ON THE DISCHARGE SIDE OF EACH PUMP.			
10	THERMOMETER	3	SEE CIRC. EQUIP. SCHEMATIC	LETRO
	REMARKS: 30° TO 130°. NOT SHOWN ON PLANS. SEE EQUIPMENT SCHEMATIC. PROVIDE THERMOMETERS ON INFLUENT AND EFFLUENT LINES OF HEATER. INSTALL ONE THERMOMETER IN AN EASILY READABLE LOCATION MINIMUM 10 PIPE DIAMETERS DOWN STREAM FROM THE BYPASS VALVE.			
11	WATER LEVEL CONTROL SYSTEM	1	SEE CIRC. EQUIP. SCHEMATIC	LEVOLOR #K-1100
	REMARKS: 110 V, 60 hz, <1 AMP. POOL CONTRACTOR SHALL MAKE CONNECTION TO POTABLE WATER SUPPLY AND PROVIDE MANUAL AND SOLENOID VALVE ON FILL LINE TO SUCTION SIDE OF PUMP. SENSOR UNIT LOCATED IN SKIMMER BODY. SEE POTABLE WATER LINE REMARKS BELOW.			

SPA #1 CIRCULATION EQUIPMENT SCHEDULE

(VERIFY ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONSULTANT/CONTRACTOR)

MARK	DESCRIPTION	QUANTITY	DETAIL	REQUIREMENT
21	PUMP FOR CIRCULATION. WITH HAIR AND LINT STRAINER	1	SEE CIRC. EQUIP. SCHEMATIC	PENTAIR INTELLIFLO3 VSF (UP TO 3 HP)
	REMARKS: PUMP COMES WITH INTEGRAL VARIABLE FREQUENCY DRIVE. AT 74 GPM, 79 FEET TDH AVAILABLE. ELECTRICAL REQUIREMENTS: 208-230 V, 60 Hz, SINGLE PHASE. 3 AUXILIARY CONTACTS REQUIRED FOR INTERLOCKING. SEE ELECTRICAL INTERLOCK NOTES. INTERLOCK WITH EMERGENCY SHUT-OFF SWITCH (SEE SPA PLAN FOR SHUT-OFF SWITCH LOCATION). VERIFY WITH ELECTRICAL CONTRACTOR/ENGINEER FOR EXACT ELECTRICAL REQUIREMENTS. CONTRACTOR MUST PROVIDE AN EASILY READABLE PERMANENT SIGN AT THE PUMP: "FLOW RANGE FOR PUMP IS 74 GPM TO 88 GPM. OWNER/OPERATOR IS RESPONSIBLE FOR NOT EXCEEDING THE MAXIMUM FLOW OF 88 GPM"			
22	PUMP FOR HYDROTHERAPY JETS. WITH HAIR AND LINT STRAINER	1	N/A	PENTAIR WHISPERFLO XF VS (UP TO 5 HP)
	REMARKS: PUMP COMES WITH INTEGRAL VARIABLE FREQUENCY DRIVE. AT 180 GPM, 67 FEET TDH AVAILABLE. ELECTRICAL REQUIREMENTS: 208-230 V, 60 Hz, SINGLE-PHASE. INTERLOCK WITH EMERGENCY SHUT-OFF SWITCH AND JET PUMP TIMER (SEE SPA PLAN FOR LOCATION). VERIFY WITH ELECTRICAL CONTRACTOR/ENGINEER FOR EXACT ELECTRICAL REQUIREMENTS. CONTRACTOR MUST PROVIDE AN EASILY READABLE PERMANENT SIGN AT THE PUMP: "FLOW RANGE FOR PUMP IS 0 GPM TO 180 GPM. OWNER/OPERATOR IS RESPONSIBLE FOR NOT EXCEEDING THE MAXIMUM FLOW OF 180 GPM"			
23	HIGH RATE SAND FILTER	1	SEE CIRC. EQUIP. SCHEMATIC	PENTAIR TRITON TR-100C
	REMARKS: 30"ø FILTER. 4.91 SF AREA FILTER. PROVIDE COMPLETE WITH PENTAIR "HI-FLOW" BACKWASH VALVES FOR MANUAL BACKWASH.			
24	HEATER	1	SEE CIRC. EQUIP. SCHEMATIC	PENTAIR MASTERTEMP ASME 400,000 BTU
	REMARKS: • NATURAL GAS: 400,000 BTU. FUEL SUPPLY REQUIREMENTS BY GENERAL AND/OR MECHANICAL CONTRACTOR. • COMBUSTION AIR: PROVIDE A SEALED COMBUSTION KIT FOR SEALED COMBUSTION. COORDINATE WITH MECHANICAL CONTRACTOR FOR DUCTWORK. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS. • EXHAUST FLUE DUCTWORK: COORDINATE WITH MECHANICAL CONTRACTOR AND INSTALL PER MANUFACTURER'S REQUIREMENTS. • ELECTRICAL: ELECTRICAL CONNECTIONS BY ELECTRCIAL CONTRACTOR. • PIPING: USE CPVC PIPING IN AND OUT OF HEATER AS REQUIRED BY MANUFACTURER. • ASME VERSION REQUIRED.			
25	CHEMICAL CONTROLLER	1	SEE CIRC. EQUIP. SCHEMATIC	PENTAIR INTELLICHEM, IPS, PROMINENT, OR EQUAL
	REMARKS: CONTROLS ORP/PH. 110-120 VAC, <1 AMP. ELECTRICAL INTERLOCKING BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL INTERLOCKING NOTES. PROVIDE POWER FOR THE CONTROLLER ON A SEPARATE CIRCUIT FROM THE POWER FOR THE CHEMICAL FEEDER RELAYS.			
	CHEMICAL DISTRIBUTION INTERLOCK	1	N/A	IPS PRESSURE SWITCH
	REMARKS: INSTALL PER MFR INSTALLATION INSTRUCTIONS. CHEMICAL DISTRIBUTION SHALL STOP WHEN FLOW HAS STOPPED AND/OR PUMP IS NOT OPERATING CORRECTLY.			
26	FEEDER FOR LIQUID CHLORINE	1	SEE CIRC. EQUIP. SCHEMATIC	STENNER #45-M5
	REMARKS: 120 VAC, 60 Hz, 1.7 AMP, 1/30 FRACTIONAL HP.			
27	FEEDER FOR ACID	1	SEE CIRC. EQUIP. SCHEMATIC	STENNER #45-M5
	REMARKS: 120 VAC, 60 Hz, 1.7 AMP, 1/30 FRACTIONAL HP.			
28	CIRCULATION EQUIPMENT INTERCONNECTING PIPING	IN EQUIPMENT ROOM	SEE PLAN AND CIRC. EQUIP. SCHEMATIC	2.5"ø PVC SCHEDULE 40
	REMARKS: 2.5"ø PIPE. LABEL PIPES AND IDENTIFY FLOW DIRECTION.			
29	FLOWMETER	1	SEE CIRC. EQUIP. SCHEMATIC	BLUE WHITE #F-30250P
	REMARKS: METER RANGE: 29-150 GPM. MOUNT FLOWMETER IN EASILY READABLE LOCATION. FLOWMETER SHALL BE INSTALLED WITH PROPER RUN OF PIPE UPSTREAM AND DOWNSTREAM OF FLOWMETER PER MANUFACTURER'S RECOMMENDATIONS.			
30	PRESSURE GAUGES AND VACUUM GAUGE	2 1	SEE CIRC. EQUIP. SCHEMATIC	0-60 PSI 0-30 Hg
	REMARKS: NOT SHOWN ON PLAN. INTEGRATE TO SHOW FILTER INFLUENT AND EFFLUENT PRESSURES. PROVIDE A COMBINATION PRESSURE/VACUUM GAUGE ON SUCTION SIDE OF EACH PUMP AND A PRESSURE GAUGE ON THE DISCHARGE SIDE OF EACH PUMP.			
31	THERMOMETER	3	SEE CIRC. EQUIP. SCHEMATIC	LETRO
	REMARKS: 30° TO 130°. NOT SHOWN ON PLANS. SEE EQUIPMENT SCHEMATIC. PROVIDE THERMOMETERS ON INFLUENT AND EFFLUENT LINES OF HEATER. INSTALL ONE THERMOMETER IN AN EASILY READABLE LOCATION MINIMUM 10 PIPE DIAMETERS DOWN STREAM FROM THE BYPASS VALVE.			
32	WATER LEVEL CONTROL SYSTEM	1	SEE CIRC. EQUIP. SCHEMATIC	LEVOLOR #K-1100
	REMARKS: 110 V, 60 hz, <1 AMP. POOL CONTRACTOR SHALL MAKE CONNECTION TO POTABLE WATER SUPPLY AND PROVIDE MANUAL AND SOLENOID VALVE ON FILL LINE TO SUCTION SIDE OF PUMP. SENSOR UNIT LOCATED IN SKIMMER BODY. SEE POTABLE WATER LINE REMARKS BELOW.			

SPA #2 CIRCULATION EQUIPMENT SCHEDULE

(VERIFY ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONSULTANT/CONTRACTOR)

MARK	DESCRIPTION	QUANTITY	DETAIL	REQUIREMENT
41	PUMP FOR CIRCULATION. WITH HAIR AND LINT STRAINER	1	SEE CIRC. EQUIP. SCHEMATIC	PENTAIR INTELLIFLO3 VSF (UP TO 3 HP)
	REMARKS: PUMP COMES WITH INTEGRAL VARIABLE FREQUENCY DRIVE. AT 74 GPM, 79 FEET TDH AVAILABLE. ELECTRICAL REQUIREMENTS: 208-230 V, 60 Hz, SINGLE PHASE. 3 AUXILIARY CONTACTS REQUIRED FOR INTERLOCKING. SEE ELECTRICAL INTERLOCK NOTES. INTERLOCK WITH EMERGENCY SHUT-OFF SWITCH (SEE SPA PLAN FOR SHUT-OFF SWITCH LOCATION). VERIFY WITH ELECTRICAL CONTRACTOR/ENGINEER FOR EXACT ELECTRICAL REQUIREMENTS. CONTRACTOR MUST PROVIDE AN EASILY READABLE PERMANENT SIGN AT THE PUMP: "FLOW RANGE FOR PUMP IS 74 GPM TO 88 GPM. OWNER/OPERATOR IS RESPONSIBLE FOR NOT EXCEEDING THE MAXIMUM FLOW OF 88 GPM"			
22	PUMP FOR HYDROTHERAPY JETS. WITH HAIR AND LINT STRAINER	1	N/A	PENTAIR WHISPERFLO XF VS (UP TO 5 HP)
	REMARKS: PUMP COMES WITH INTEGRAL VARIABLE FREQUENCY DRIVE. AT 180 GPM, 67 FEET TDH AVAILABLE. ELECTRICAL REQUIREMENTS: 208-230 V, 60 Hz, SINGLE-PHASE. INTERLOCK WITH EMERGENCY SHUT-OFF SWITCH AND JET PUMP TIMER (SEE SPA PLAN FOR LOCATION). VERIFY WITH ELECTRICAL CONTRACTOR/ENGINEER FOR EXACT ELECTRICAL REQUIREMENTS. CONTRACTOR MUST PROVIDE AN EASILY READABLE PERMANENT SIGN AT THE PUMP: "FLOW RANGE FOR PUMP IS 0 GPM TO 180 GPM. OWNER/OPERATOR IS RESPONSIBLE FOR NOT EXCEEDING THE MAXIMUM FLOW OF 180 GPM"			
43	HIGH RATE SAND FILTER	1	SEE CIRC. EQUIP. SCHEMATIC	PENTAIR TRITON TR-100C
	REMARKS: 30"ø FILTER. 4.91 SF AREA FILTER. PROVIDE COMPLETE WITH PENTAIR "HI-FLOW" BACKWASH VALVES FOR MANUAL BACKWASH.			
44	HEATER	1	SEE CIRC. EQUIP. SCHEMATIC	PENTAIR MASTERTEMP ASME 400,000 BTU
	REMARKS: • NATURAL GAS: 400,000 BTU. FUEL SUPPLY REQUIREMENTS BY GENERAL AND/OR MECHANICAL CONTRACTOR. • COMBUSTION AIR: PROVIDE A SEALED COMBUSTION KIT FOR SEALED COMBUSTION. COORDINATE WITH MECHANICAL CONTRACTOR FOR DUCTWORK. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS. • EXHAUST FLUE DUCTWORK: COORDINATE WITH MECHANICAL CONTRACTOR AND INSTALL PER MANUFACTURER'S REQUIREMENTS. • ELECTRICAL: ELECTRICAL CONNECTIONS BY ELECTRCIAL CONTRACTOR. • PIPING: USE CPVC PIPING IN AND OUT OF HEATER AS REQUIRED BY MANUFACTURER. • ASME VERSION REQUIRED.			
45	CHEMICAL CONTROLLER	1	SEE CIRC. EQUIP. SCHEMATIC	PENTAIR INTELLICHEM, IPS, PROMINENT, OR EQUAL
	REMARKS: CONTROLS ORP/PH. 110-120 VAC, <1 AMP. ELECTRICAL INTERLOCKING BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL INTERLOCKING NOTES. PROVIDE POWER FOR THE CONTROLLER ON A SEPARATE CIRCUIT FROM THE POWER FOR THE CHEMICAL FEEDER RELAYS.			
	CHEMICAL DISTRIBUTION INTERLOCK	1	N/A	IPS PRESSURE SWITCH
	REMARKS: INSTALL PER MFR INSTALLATION INSTRUCTIONS. CHEMICAL DISTRIBUTION SHALL STOP WHEN FLOW HAS STOPPED AND/OR PUMP IS NOT OPERATING CORRECTLY.			
46	FEEDER FOR LIQUID CHLORINE	1	SEE CIRC. EQUIP. SCHEMATIC	STENNER #45-M5
	REMARKS: 120 VAC, 60 Hz, 1.7 AMP, 1/30 FRACTIONAL HP.			
47	FEEDER FOR ACID	1	SEE CIRC. EQUIP. SCHEMATIC	STENNER #45-M5
	REMARKS: 120 VAC, 60 Hz, 1.7 AMP, 1/30 FRACTIONAL HP.			
48	CIRCULATION EQUIPMENT INTERCONNECTING PIPING	IN EQUIPMENT ROOM	SEE PLAN AND CIRC. EQUIP. SCHEMATIC	2.5"ø PVC SCHEDULE 40
	REMARKS: 2.5"ø PIPE. LABEL PIPES AND IDENTIFY FLOW DIRECTION.			
49	FLOWMETER	1	SEE CIRC. EQUIP. SCHEMATIC	BLUE WHITE #F-30250P
	REMARKS: METER RANGE: 29-150 GPM. MOUNT FLOWMETER IN EASILY READABLE LOCATION. FLOWMETER SHALL BE INSTALLED WITH PROPER RUN OF PIPE UPSTREAM AND DOWNSTREAM OF FLOWMETER PER MANUFACTURER'S RECOMMENDATIONS.			
50	PRESSURE GAUGES AND VACUUM GAUGE	2 1	SEE CIRC. EQUIP. SCHEMATIC	0-60 PSI 0-30 Hg
	REMARKS: NOT SHOWN ON PLAN. INTEGRATE TO SHOW FILTER INFLUENT AND EFFLUENT PRESSURES. PROVIDE A COMBINATION PRESSURE/VACUUM GAUGE ON SUCTION SIDE OF EACH PUMP AND A PRESSURE GAUGE ON THE DISCHARGE SIDE OF EACH PUMP.			
51	THERMOMETER	3	SEE CIRC. EQUIP. SCHEMATIC	LETRO
	REMARKS: 30° TO 130°. NOT SHOWN ON PLANS. SEE EQUIPMENT SCHEMATIC. PROVIDE THERMOMETERS ON INFLUENT AND EFFLUENT LINES OF HEATER. INSTALL ONE THERMOMETER IN AN EASILY READABLE LOCATION MINIMUM 10 PIPE DIAMETERS DOWN STREAM FROM THE BYPASS VALVE.			
52	WATER LEVEL CONTROL SYSTEM	1	SEE CIRC. EQUIP. SCHEMATIC	LEVOLOR #K-1100
	REMARKS: 110 V, 60 hz, <1 AMP. POOL CONTRACTOR SHALL MAKE CONNECTION TO POTABLE WATER SUPPLY AND PROVIDE MANUAL AND SOLENOID VALVE ON FILL LINE TO SUCTION SIDE OF PUMP. SENSOR UNIT LOCATED IN SKIMMER BODY. SEE POTABLE WATER LINE REMARKS BELOW.			

SHARED EQUIPMENT SCHEDULE

(VERIFY ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONSULTANT/CONTRACTOR)

MARK	DESCRIPTION	QUANTITY	DETAIL	REQUIREMENT
61	STORAGE CONTAINER FOR LIQUID CHLORINE	1	SEE CIRC. EQUIP. SCHEMATIC	15 GALLON DRUM CAPACITY
	REMARKS: VERIFY STORAGE CAPACITY REQUIRED. PROVIDE VAPOR SHIELD BARREL ASSEMBLY (VAPOR CHECK VALVE) AS MFG AQUATIC COMMERCIAL INDUSTRIES OR EQUAL. PROVIDE CONTAINER RESTRAINTS. POOL CONTRACTOR SHALL PROVIDE START UP CHEMICALS. STORAGE DRUMS SHALL BE MARKED WITH THE APPROPRIATE HAZARD IDENTIFICATION SIGNS PER REQUIREMENTS OF THE NFPA 704. CONTAINERS ARE TO BE "REPLACEABLE," COMMODITY-TYPE POOL-CHEMICAL CONTAINERS. POOL OWNER'S CHEMICAL SUPPLY SYSTEM SHOULD REMOVE "EMPTIES" AND REPLACE WITH FULL CONTAINERS. THESE SHALL NOT BE PERMANENT CONTAINERS THAT WOULD REQUIRE THE POOL OPERATOR TO POUR CHEMICALS BETWEEN CONTAINERS. CHEMICAL FEEDERS SHALL NOT BE MOUNTED ON CONTAINERS.			
62	STORAGE CONTAINER FOR ACID	1	SEE CIRC. EQUIP. SCHEMATIC	15 GALLON DRUM CAPACITY
	REMARKS: VERIFY STORAGE CAPACITY REQUIRED. PROVIDE VAPOR SHIELD BARREL ASSEMBLY (VAPOR CHECK VALVE) AS MFG BY AQUATIC COMMERCIAL INDUSTRIES OR EQUAL. PROVIDE CONTAINER RESTRAINTS. POOL CONTRACTOR SHALL PROVIDE START UP CHEMICALS. STORAGE DRUMS SHALL BE MARKED WITH THE APPROPRIATE HAZARD IDENTIFICATION SIGNS PER REQUIREMENTS OF THE NFPA 704. CONTAINERS ARE TO BE "REPLACEABLE," COMMODITY-TYPE POOL-CHEMICAL CONTAINERS. POOL OWNER'S CHEMICAL SUPPLY SYSTEM SHOULD REMOVE "EMPTIES" AND REPLACE WITH FULL CONTAINERS. THESE SHALL NOT BE PERMANENT CONTAINERS THAT WOULD REQUIRE THE POOL OPERATOR TO POUR CHEMICALS BETWEEN CONTAINERS. CHEMICAL FEEDERS SHALL NOT BE MOUNTED ON CONTAINERS.			
63	STORAGE CLOSET FOR CHLORINE	BY OTHERS	N/A	CONSTRUCTION N.I.P.C.
	REMARKS: CLOSET SHALL BE CONSTRUCTED OF CORROSION RESISTANT MATERIALS. DOOR AND HARDWARE SHALL BE CORROSION RESISTANT. CLOSET SHALL BE SEPARATELY VENTED TO THE OUTSIDE, BY MECHANICAL. THE ROOM SHALL NOT HAVE A FLOOR DRAIN. POOL CONTRACTOR SHALL PROVIDE IDENTIFICATION PLACARDS ON THE ENTRY DOOR TO THE STORAGE AREA AS REQUIRED BY THE NFPA 704.			
64	STORAGE CLOSET FOR ACID	BY OTHERS	N/A	CONSTRUCTION N.I.P.C.
	REMARKS: CLOSET SHALL BE CONSTRUCTED OF CORROSION RESISTANT MATERIALS. DOOR AND HARDWARE SHALL BE CORROSION RESISTANT. CLOSET SHALL BE SEPARATELY VENTED TO THE OUTSIDE, BY MECHANICAL. THE ROOM SHALL NOT HAVE A FLOOR DRAIN. POOL CONTRACTOR SHALL PROVIDE IDENTIFICATION PLACARDS ON THE ENTRY DOOR TO THE STORAGE AREA AS REQUIRED BY THE NFPA 704.			
65	EMERGENCY EYE WASH	BY OTHERS	N/A	SEE PLUMBING DRAWINGS
	REMARKS: PROVIDE PER OSHA AND ANSI REQUIREMENTS.			
66	POTABLE WATER PIPING AND VALVES TO EQUIPMENT ROOM	BY OTHERS	SEE CIRC. EQUIP. SCHEMATIC	POTABLE WATER LINE (SEE PLUMBING DRAWINGS)
	REMARKS: POTABLE WATER LINE NOT SHOWN ON PLANS. POTABLE WATER LINE, APPROVED BACKFLOW PREVENTION DEVICE, AND SHUT OFF VALVE TO EQUIPMENT ROOM BY PLUMBING CONTRACTOR. PROVIDE 20 GPM AT MAXIMUM 40 TO 50 PSI. PLUMBING CONTRACTOR TO PROVIDE STUB-IN TO POOL EQUIPMENT ROOM. POOL CONTRACTOR TO PROVIDE SOLENOID VALVE, MANUAL FILL VALVE AND EXTEND PIPING TO SUCTION SIDE OF PUMP. SEE WATER LEVEL CONTROLLER REMARKS ABOVE.			
67	BACKWASH SUMP	BY OTHERS	1 SP400	WITH GRATING AND DRAIN/DISCHARGE PER LOCAL HEALTH CODE (SEE PLUMBING DRAWINGS)
	REMARKS: BACKWASH EACH HIGH RATE SAND FILTER AT 98 GPM MIN. FOR A 5 MINUTE DURATION. STAGGER BACKWASH CYCLES TO ALLOW THE SUMP TO FULLY DRAIN. PLUMBING ENGINEER TO SIZE THE SUMP TO RETAIN BACKWASH FLOW AS NEEDED. SUMP SHALL BE SIZED SUCH THAT THE MAXIMUM DISCHARGE FROM SUMP DOES NOT EXCEED LOCAL SEWER DISTRICT REQUIREMENTS (E.G. 50 GPM). SUMP AND GRATING BY GENERAL CONTRACTOR. LINE TO SANITARY SEWER BY PLUMBING CONTRACTOR.			
68	ELECTRICAL PANEL (PANEL TO BE DESIGNED AND SPECIFIED BY OTHERS)		BY OTHERS	SEE ELECTRICAL DRAWINGS (BY OTHERS)
	REMARKS: PANEL AND STARTERS TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND SHALL INCLUDE WIRING AND CONDUIT. ELECTRICAL CONTRACTOR SHALL MAKE ALL CONNECTIONS TO EQUIPMENT. PROVIDE CONTROL WIRING AS DIRECTED BY POOL CONTRACTOR. SEE ELECTRICAL INTERLOCK NOTES. ELECTRICAL PANELS INSTALLED IN THE POOL EQUIPMENT ROOM, SHALL MEET CORROSION RESISTANCE REQUIREMENTS OF NEC 2020 ARTICLE 680.14.			

POOL AND SPA ELECTRICAL INTERLOCKING NOTES:

ELECTRICAL INTERLOCKING BY ELECTRICAL CONTRACTOR, AND COORDINATED BY THE POOL CONTRACTOR.

PROVIDE INTERLOCKING OF CIRCULATION EQUIPMENT PER POOL DRAWINGS AND SPECIFICATIONS. PROVIDE RELAY AND CONTROL WIRING IN 3/4" CONDUIT AS REQUIRED.

1. INTERLOCK THE CIRCULATION PUMP WITH ITS RESPECTIVE HEATER TEMPERATURE CONTROLS. (IF THE POOL CIRCULATION PUMP SHUTS OFF THE CALL FOR HEAT DEMAND SHOULD SHUT OFF ALSO.)
2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL AN EMERGENCY SHUT OFF SWITCH FOR EACH BOILER NEAR THE ENTRANCE TO THE EQUIPMENT ROOM PER LOCAL BOILER CODE.
3. INTERLOCK THE CIRCULATION PUMP WITH ITS RESPECTIVE CHLORINE AND ACID FEED RELAYS. (IF POOL CIRCULATION PUMP SHUTS OFF, THE POWER TO ALL CHLORINE AND ACID FEEDERS SHALL SHUT OFF ALSO.)
4. INTERLOCK SPA TIMERS WITH THEIR RESPECTIVE THERAPY JET PUMPS.
5. INTERLOCK SPA EMERGENCY SHUT OFF SWITCH WITH THE SPA CIRCULATION PUMP AND THE SPA JET PUMP(S).
6. INTERLOCK ALL PUMPS, CHEMICAL CONTROLS, HEAT CONTROLS, AND UNDERWATER LIGHTS WITH AUTOMATIC POOL CONTROL SYSTEM.

PIPE HANGER AND SUPPORT NOTES:

1. PIPE HANGERS: THE PIPE HANGERS SHALL BE ADJUSTABLE B-LINE FIGURE B3105 STAINLESS STEEL OR EQUAL.
2. SUPPORT SADDLES: PIPE SUPPORTS SHALL BE ADJUSTABLE B-LINE FIGURE B3092 STAINLESS STEEL SADDLE SUPPORT WITH FIGURE B3088T STAINLESS STEEL STAND OR APPROVED EQUAL.
3. UNI-STRUT: PIPES SHALL BE MOUNTED TO VERTICAL WALLS USING UNISTRUT AND PIPE CLAMPS.
4. PROVIDE FLEXIBLE GASKETS BETWEEN PIPE SUPPORTS/CLAMPS AND PIPES AS NEEDED FOR VIBRATION ISOLATION AND/OR SOUND ISOLATION.
5. PIPE HANGERS AND SUPPORTS SHALL BE CONSTRUCTED OF STAINLESS STEEL AND SHALL BE LOCATED AS NEEDED TO ADEQUATELY SUPPORT ALL PIPING AND COMPONENTS.
6. PVC PIPING SHALL NOT BE UNSUPPORTED FOR LENGTHS IN EXCESS OF SIX FEET. PROVIDE ADEQUATE SUPPORTS AND SPACING AS TO AVOID PIPE SAGGING BETWEEN SUPPORTS AND TO SUPPORT AGAINST THE EFFECTS OF WATER HAMMER.

DEFERRED SUBMITTAL:

7. ALL POOL PIPING LARGER THAN 3" MUST BE SUPPORTED FOR SEISMIC LOADS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL SEISMIC BRACING.
8. IF NEEDED, PROVIDE THE DETAILS AND ENGINEERING CALCULATIONS (WET STAMPED AND SIGNED) FOR ALL NON-STRUCTURAL COMPONENTS PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS & ATTACHMENTS, DESIGNED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7-05. SUBMIT TO THE BUILDING DEPARTMENT AS A DEFERRED SUBMITTAL (IF REQUIRED BY BUILDING INSPECTOR).

PIPE VALVE NOTES:

1. ALL VALVES FOR PIPING 3"ø AND SMALLER SHALL BE PVC BALL VALVES, ASAHI/ AMERICAN OMNI OR EQUAL.
2. ALL VALVES 4"ø AND LARGER SHALL BE BUTTERFLY VALVES ASAHI/ AMERICAN FOUNTAIN COMPATIBLE VALVES ("POOL PRO" OR EQUAL). BUTTERFLY VALVES ARE TO BE MANUFACTURED OF PVC WITH REINFORCED DISKS BUBBLE-TITE WITH STAINLESS STEEL SHAFTS.
3. VALVES 4"ø AND 6"ø SHALL BE LEVER OPERATED. VALVES 8"ø AND ABOVE SHALL BE GEAR OPERATED.
4. ALL CHECK VALVES SHALL BE THERMOPLASTIC (PVC OR CPVC), BUTTERFLY- OR FULL PORT SWING-TYPE, FLANGED ENDS OR WAFER STYLE CHECK VALVES, WITH PARTS INTENDED FOR TREATED, SWIMMING-POOL WATER. SIZE AS REQUIRED.

EQUIPMENT ROOM NOTES:

1. FILTRATION AND CHEMICAL EQUIPMENT SHALL BE NATIONAL SANITATION FOUNDATION (NSF) APPROVED.
2. EQUIPMENT SHALL BE INSTALLED ON SLABS WITH MINIMUM 4" THICKNESS AND AS REQUIRED TO WITHSTAND THE LOADS ASSOCIATED WITH THE POOL EQUIPMENT AND PIPING.
3. COORDINATE WITH ALL OTHER TRADES & VERIFY EXACT LOCATION OF POOL EQUIPMENT.
4. SEE OVERALL PIPING PLAN TO VERIFY PIPE SIZES AND FOR CONTINUATION OF PIPING. IF THERE ARE ANY DISCREPANCIES, REPORT THEM IMMEDIATELY TO THE ARCHITECT/ENGINEER.
5. POOL CONTRACTOR SHALL IDENTIFY ALL PIPING AND VALVES BY COLOR CODING OR LABELS AND DIRECTION OF FLOW ARROWS IN ACCORDANCE WITH LOCAL HEALTH CODE.
6. REDUCER FITTINGS SHALL BE USED WHERE PIPE SIZES CHANGE.
7. NO COMMON PIPING OR FITTING ON THE SUCTION SIDE OF THE PUMP IS TO BE SMALLER THAN THE LARGEST SINGLE ELEMENT CONNECTED. DOWNSIZING AND UPSIZING IS TO BE DONE AT THE THROATS OF THE PUMP PORTS.
8. ALL VALVES SHALL HAVE A MINIMUM PRESSURE RATING OF 125 PSI.
9. ALL TRADES SHALL KEEP SPACE ABOVE THE FILTRATION AND CHEMICAL EQUIPMENT CLEAR FOR SERVICING.
10. HAIR AND LINT STRAINER OPENINGS SHALL BE NO MORE THAN 1/8". THE HAIR AND LINT STRAINER MUST PROVIDE A FREE FLOW CAPACITY OF AT LEAST FOUR TIMES THE AREA OF THE PUMP SUCTION LINE.
11. FILTER SHALL BE PROVIDED WITH THE FOLLOWING APPROPRIATELY LOCATED ACCESSORIES: INFLUENT AND EFFLUENT PRESSURE GAUGES, BACKWASH SIGHT GLASS ON WASTE DISCHARGE LINE, AIR RELIEF VALVE AT THE HIGH POINT OF THE FILTER SYSTEM, AND A VALVED TANK DRAIN.
12. FLOWMETER SHALL BE PROVIDED IN THE INLET RETURN LINE AFTER FILTER AND BEFORE CHEMICAL INJECTION. INSTALL ON A STRAIGHT LENGTH OF PIPE AT A DISTANCE OF AT LEAST 10 PIPE DIAMETERS DOWNSTREAM AND 5 PIPE DIAMETERS UPSTREAM FROM ANY VALVE, ELBOW OR OTHER SOURCE OF TURBULENCE OR PER MANUFACTURER'S SPECIFICATIONS.
13. ALL BACKWASH SHALL BE TO AN APPROVED PLUMBING FIXTURE. ALL BACKWASH SHALL BE RECEIVED INTO THE SANITARY SEWER.
14. HEATERS MUST MEET REQUIREMENTS FOR BOILERS AND PRESSURE VESSELS AS REQUIRED BY THE STATE OF UTAH BOILER AND PRESSURE VESSEL RULES, R616-2. ALL HEATERS OVER 400,000 BTU SHALL BE CSD-1 COMPLIANT.
15. PROVIDE AT LEAST THE MIN. REQUIRED SPACE AROUND THE HEATER PER MFG. SPECS AND LOCAL CODES.
16. PROVIDE HEAT SINK OR CPVC PIPING IF RECOMMENDED BY HEATER MANUFACTURER. INSTALL PER MANUFACTURER RECOMMENDATIONS.
17. WHEN MINIMUM DESIGN FLOW RATE EXCEEDS 65 GPM AND/OR WHEN MAXIMUM DESIGN FLOW RATE EXCEEDS HEATER MANUFACTURER'S MAXIMUM ALLOWED FLOW THROUGH HEATER, THE POOL CONTRACTOR SHALL PROVIDE HEATER BYPASS PIPING AND VALVE.
18. INSTALL A THERMOMETER ON HEATER INFLUENT AND EFFLUENT PIPES AND IN THE POOL RETURN LINE A MINIMUM OF 5'-0" AFTER HEATER BYPASS (WHEN A BYPASS VALVE IS PROVIDED).
19. ALL SELF PRIMING CIRCULATING PUMPS SHALL BE INSTALLED NO MORE THAN 2'-0" ABOVE THE OPERATING WATER LEVEL OF THE POOL BEING SERVED. ALL NON-SELF PRIMING PUMPS SHALL BE INSTALLED BELOW THE WATER LEVEL OF THE POOL.
20. PROVIDE A COMBINATION VACUUM/PRESSURE GAUGE ON THE SUCTION SIDE ALL PUMPS.
21. PROVIDE A PRESSURE GAUGE ON THE DISCHARGE SIDE OF ALL PUMPS.
22. EYE WASH AND EMERGENCY SHOWER PROVIDED AND INSTALLED BY MECHANICAL. SEE "MECHANICAL AND PLUMBING ITEMS".

SYMBOL LEGEND

⋈	VALVE
▼	VALVE
▼	SOLENOID VALVE
⊡	VALVE
⊂	VALVE

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CHARLES ROSS ANDERSON
PE-39476
2-28-24

FOR: POOL STRUCTURAL, HYDRAULIC, FILTRATION, & SANITIZING SYSTEMS ONLY.

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OWNER:

CENTRAL PARK HOTEL
1760 Central Park Dr.
Steamboat Springs, CO
PROJECT:

ISSUE DATE	DESCRIPTION
03/04/2024	Permit Set

#	REV. DATE	DESCRIPTION

PERMIT SET

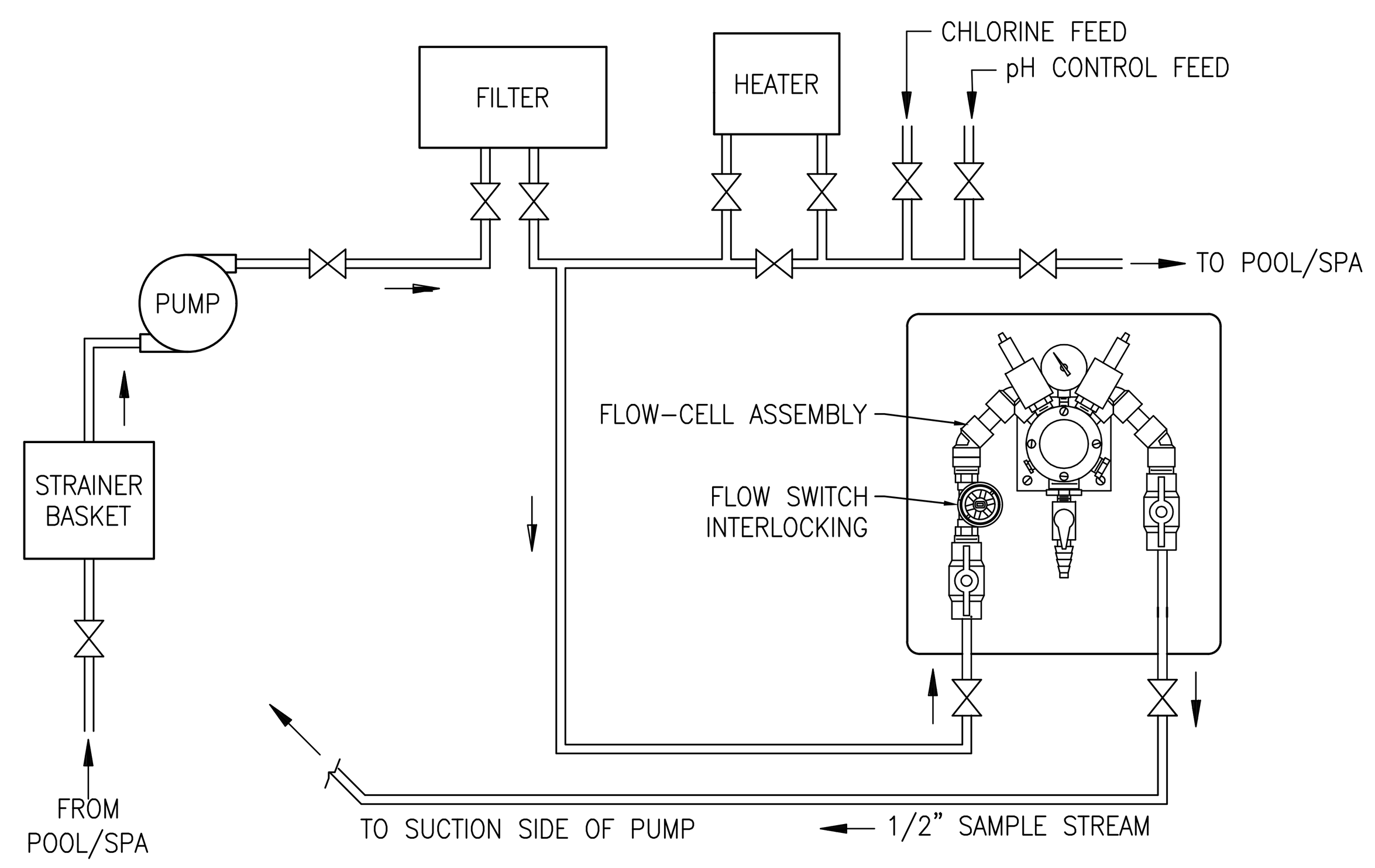
EQUIPMENT ROOM PLAN

PROJECT #: 24-702
DRAWN BY: IT
CHECKED BY: BH / JR

SHEET #
SP400

SYMBOL LEGEND

- VALVE
- VALVE
- SOLENOID VALVE
- VALVE
- VALVE



CHEMICAL INJECTION AND FLOW-CELL PIPING SCHEMATIC

SCALE: 1"=1'-0"

NOTE:
PROVIDE CHEMICAL PIPING/TUBING CONTENT IDENTIFICATION AND FLOW DIRECTION MARKINGS.

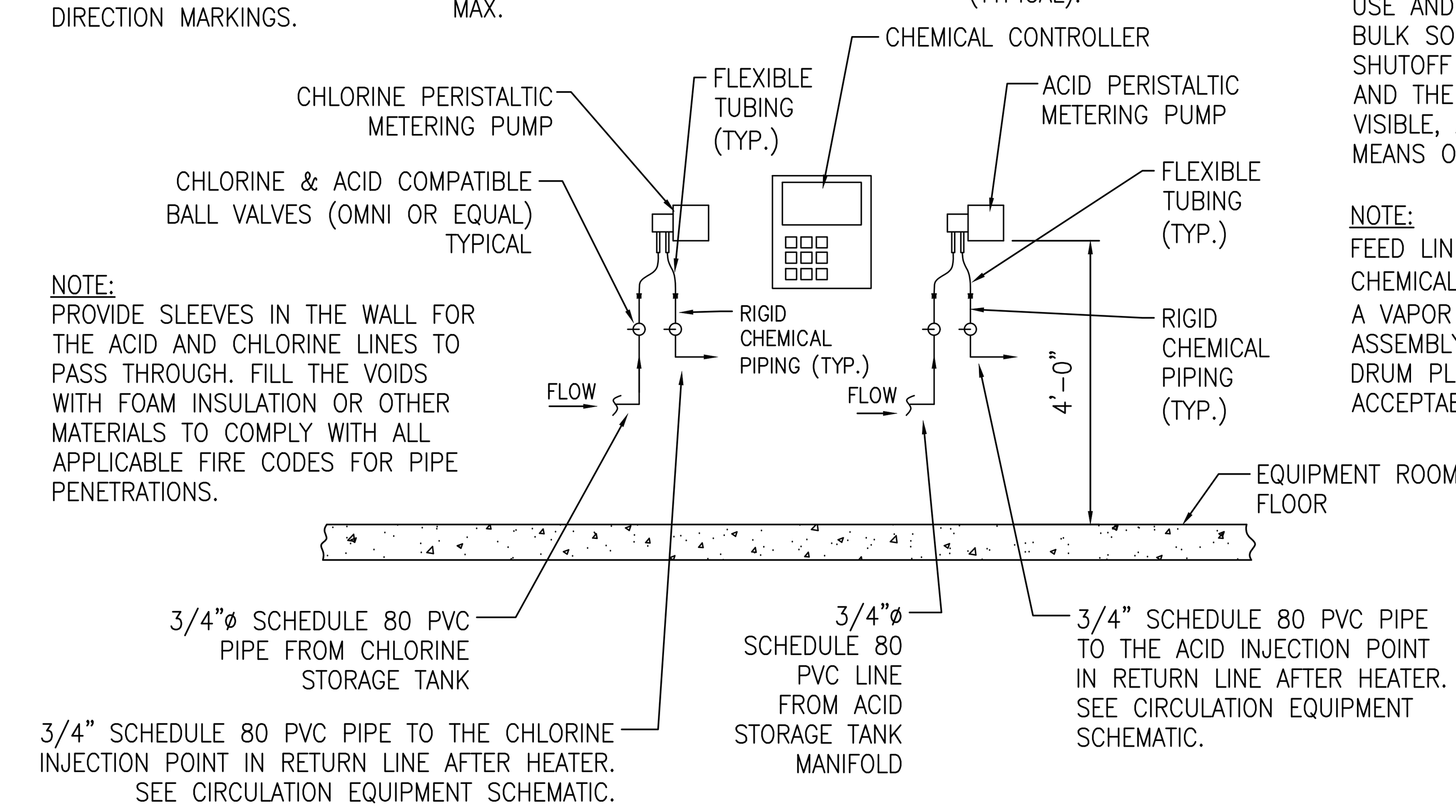
NOTE:
ANCHOR CHLORINE AND ACID FEED LINES TO WALL AND/OR CEILING. PROVIDE ANCHORS AT 3'-0" C.C. MAX.

NOTE:
MOUNT FEED PUMPS ON WALL (TYPICAL).

NOTE:
READILY ACCESSIBLE MANUAL VALVES SHALL BE INSTALLED ON THE SUPPLY PIPING AND TUBING AT THE POINT OF USE AND AT THE TANK, CYLINDER OR BULK SOURCE. THE MANUAL EMERGENCY SHUTOFF VALVES SHALL BE IDENTIFIED AND THE LOCATION SHALL BE CLEARLY VISIBLE, ACCESSIBLE AND INDICATED BY MEANS OF A SIGN.

NOTE:
FEED LINE(S) INSERTED IN THE THE CHEMICAL STORAGE DRUM(S) SHALL UTILIZE A VAPOR SHIELD / CHECK VALVE TEE ASSEMBLY TO PROVIDE AIR TO THE TANK. DRUM PLUGS LEFT OFF FOR AIR NOT ACCEPTABLE.

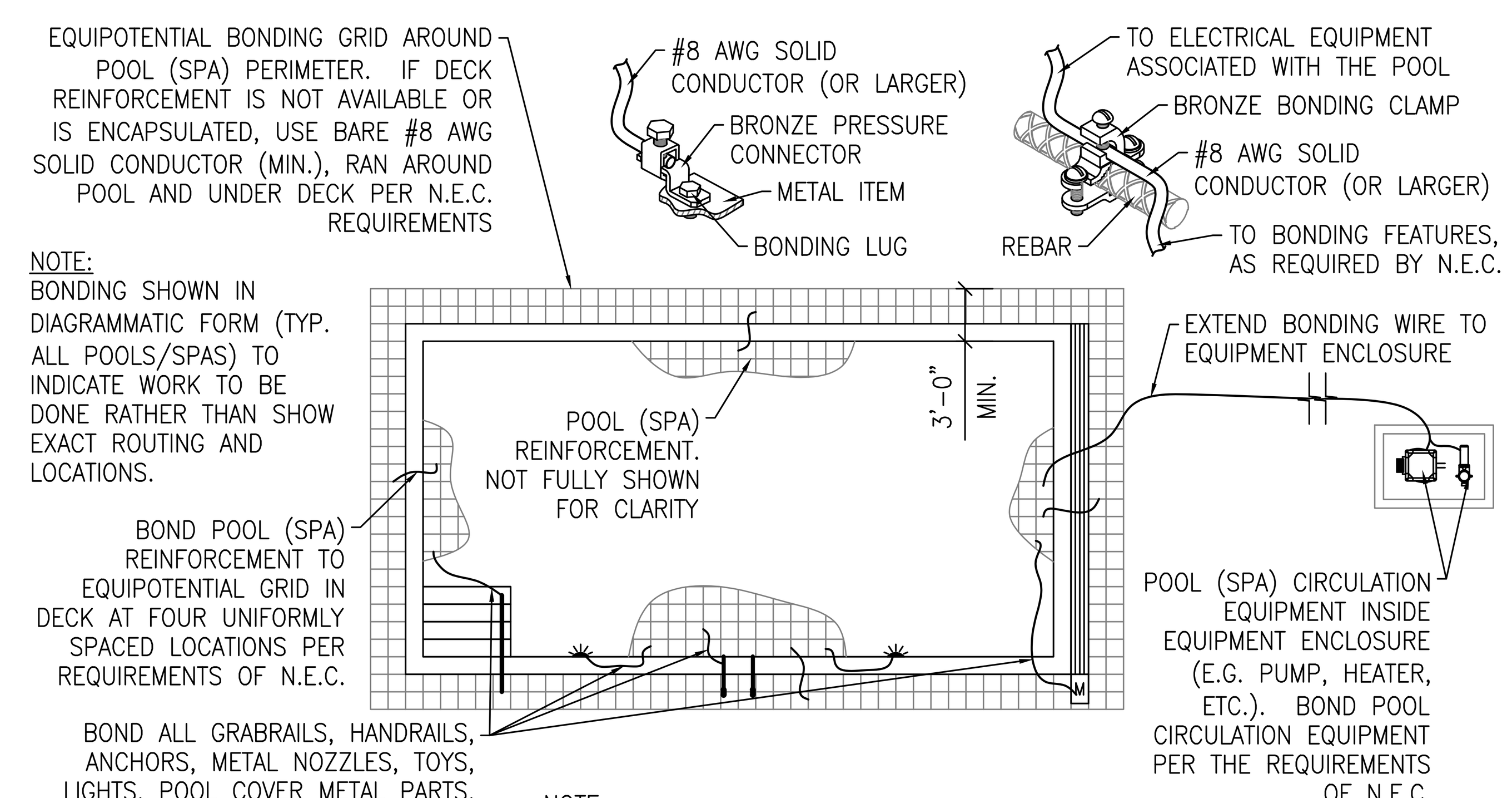
NOTE:
PROVIDE SLEEVES IN THE WALL FOR THE ACID AND CHLORINE LINES TO PASS THROUGH. FILL THE VOIDS WITH FOAM INSULATION OR OTHER MATERIALS TO COMPLY WITH ALL APPLICABLE FIRE CODES FOR PIPE PENETRATIONS.



NOTE:
LENGTH OF FLEXIBLE TUBING AT THE CHEMICAL STORAGE DRUM(S) AND THE PERISTALTIC PUMP(S) SHALL BE KEPT TO A MINIMUM (APPROXIMATELY 24 INCHES).

CHLORINE AND ACID FEED PUMP DETAIL

SCALE: NONE



NOTE:
BONDING SHOWN IN DIAGRAMMATIC FORM (TYP. ALL POOLS/SPAS) TO INDICATE WORK TO BE DONE RATHER THAN SHOW EXACT ROUTING AND LOCATIONS.

NOTE:
ELECTRICAL SCOPE SHOWN FOR REFERENCE ONLY. THE PROJECT ELECTRICAL ENGINEER (DESIGN SUPPLIER) SHALL BE RESPONSIBLE FOR ALL REQUIRED ELECTRICAL DESIGN.

NOTE:
BOND ALL EQUIPMENT AND METAL ITEMS IN OR NEAR THE POOL (SPA) WITH A #8 AWG SOLID CONDUCTOR. INCLUDING: ANCHORS, DIVING BOARDS, METAL FITTINGS, ADA LIFT, PORTABLE RAMP ANCHORS, REINFORCEMENT, DECK GRID, PUMPS, HEATERS, ETC.

NOTE:
"N.E.C." ON THIS DETAIL REFERS TO 2020 NATIONAL ELECTRIC CODE (NFPA 70), ARTICLE 680. WATER DESIGN INC. TAKES NO EXCEPTION TO USE OF CURRENT ADOPTED CODE, IF PERMITTED BY LOCAL BUILDING AUTHORITY, OR AS SPECIFIED BY ELECTRICAL ENGINEER.

SAMPLE BONDING SCHEMATIC

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

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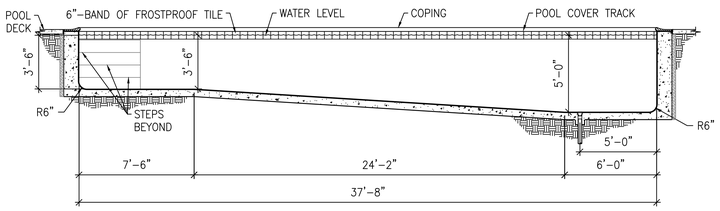
PERMIT SET

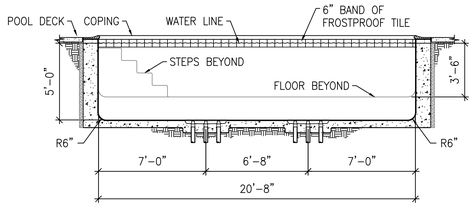
EQUIPMENT ROOM DETAILS

PROJECT #: 24-702
DRAWN BY: IT
CHECKED BY: BH / JR

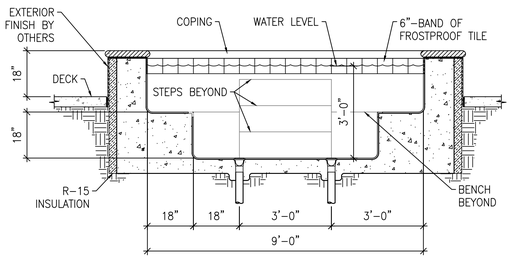
SHEET #
SP401



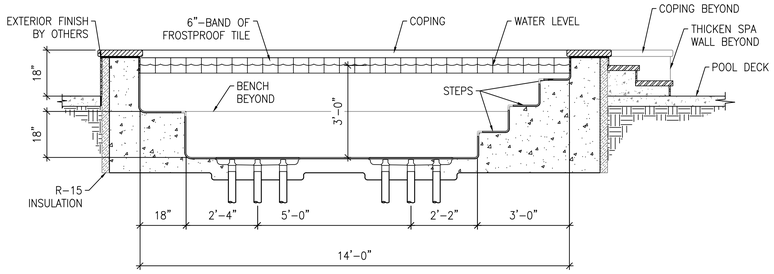
POOL LONGITUDINAL SECTION
SCALE: 1/4"=1'-0" — A / SP500



POOL CROSS SECTION
SCALE: 1/4"=1'-0" — B / SP500



SPA CROSS SECTION
SCALE: 1/2"=1'-0" — C / SP500



SPA LONGITUDINAL SECTION
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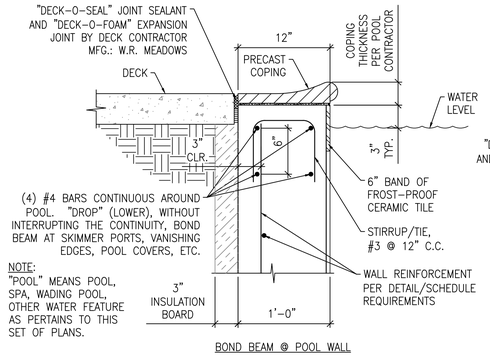
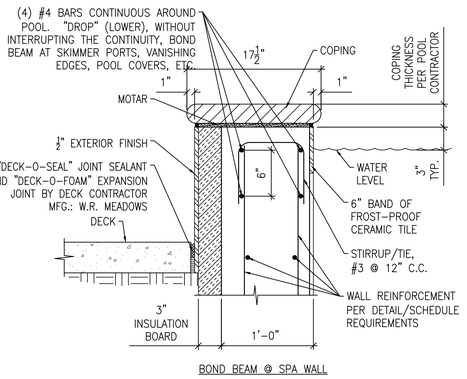
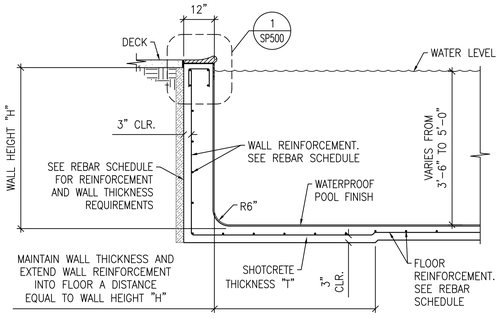


BOND BEAM @ POOL WALL

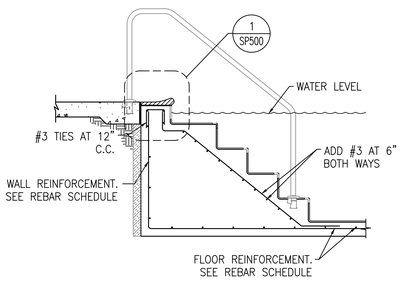


BOND BEAM @ SPA WALL

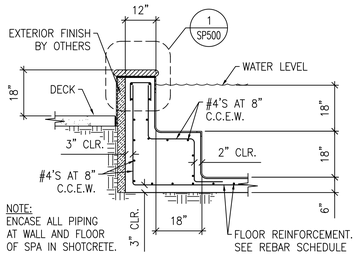
BOND BEAM DETAIL
SCALE: 1-1/2"=1'-0" — 1 / SP500



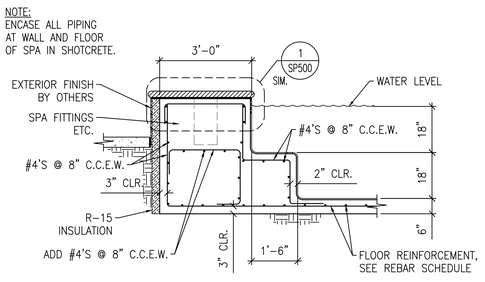
POOL WALL STRUCT. DETAIL AT DEEPEST POINT
SCALE: 1/2"=1'-0" — 2 / SP500



POOL STAIR STRUCTURAL DETAIL
SCALE: 1/2"=1'-0" — 3 / SP500



SPA WALL STRUCTURAL DETAIL
SCALE: 1/2"=1'-0" — 4 / SP500



THICKEN SPA WALL STRUCTURAL DETAIL
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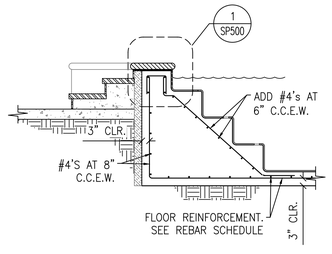

SPA STAIR STRUCTURAL DETAIL
SCALE: 1/2"=1'-0" — 6 / SP500

SEE ADDITIONAL NOTES SHEET SP100, SP210, SP300, SP310, AND SP400

POOL STRUCTURAL ITEMS:

1. POOLS AND SPAS BUILT USING THIS PLAN SHALL CONFORM TO APPLICABLE DESIGN CODES (E.G. THE MOST CURRENT INTERNATIONAL BUILDING CODE [IBC]) AS ADOPTED BY THE CITY AND COUNTY WHERE THE POOL IS BEING INSTALLED.
2. THE FOLLOWING CODES WERE USED AS A BASIS FOR POOL DESIGN: THE INTERNATIONAL BUILDING CODE, ACI 318, ACI 318.2, ACI506R (GUIDE TO SHOTCRETE), ACI COMPILATION NO. 6. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF LISTED CODES AND LOCAL ORDINANCES. THE MOST STRICT CODE SHALL TAKE PRECEDENCE.
3. POOL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE. THE ENGINEER SHALL BE CONSULTED IF ANY SURCHARGE OR CONDITIONS DIFFER FROM DETAILS SHOWN HEREIN.
4. POOL CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE ALL DIMENSIONS AND SETBACKS OF THE POOL CONFORM TO THE REQUIREMENTS OF THE APPROVING BUILDING OFFICIALS FOR THE LOCATION WHERE THE POOL IS BEING BUILT. THIS INCLUDES BOTH EXISTING STRUCTURES AND PROPERTY LINES.
5. THE POOL MUST BE FOUNDED ENTIRELY IN SUITABLE ORIGINAL UNDISTURBED NATIVE SOIL OR FOUNDED ENTIRELY IN COMPACTED FILL SOIL WHICH HAS BEEN COMPACTED TO 95% OF ITS MAXIMUM DRY DENSITY. COMPACTED FILL SOIL MUST BE CERTIFIED BY A LICENSED GEOTECHNICAL ENGINEER.
6. UP TO A LEVEL NOT MORE THAN 24 INCHES BELOW THE RIM OF THE POOL, EXCAVATIONS FOR POOL SHALL BE IN SUITABLE FIRM UNDISTURBED SOIL OR IN SOILS THAT HAVE BEEN COMPACTED TO 95% OF THEIR MAXIMUM DRY DENSITY UNDER QUALIFIED SUPERVISION AND HAVE BEEN APPROVED BY THE LOCAL BUILDING AUTHORITY. SOILS FOR POOLS SHALL HAVE A MINIMUM SOILS BEARING VALUE OF 1500 LBS. PER SQUARE FOOT. THE POOL CONTRACTOR IS RESPONSIBLE FOR SUBGRADE PREPARATION SO THAT SETTLEMENT IS NEGLIGIBLE TO AVOID UNANTICIPATED STRESS ON CONCRETE WHICH CAN CAUSE CRACKING.
7. THE POOL ENGINEER HAS NOT INSPECTED THE POOL SITE. THIS POOL DESIGN IS BASED ON THE FINDINGS OF THE GEOTECHNICAL INVESTIGATION BY NORTH WEST COLORADO CONSULTANTS, INC. AND ITS REPORT DATED . THE OWNER IS RESPONSIBLE FOR WARRANTING THE ADEQUACY OF THIS DESIGN TO ALL SUBSURFACE AND SOIL CONDITIONS ON THIS PROJECT. SHOULD SOIL TYPES AND/OR SITE CONDITIONS VARY FROM THOSE DOCUMENTED IN THE GEOTECHNICAL REPORT AND THIS POOL DESIGN, IT IS THE RESPONSIBILITY OF THE OWNER TO NOTIFY THE POOL ENGINEER TO OBTAIN REVISED ENGINEERING DETAILS.
8. POOL CONTRACTOR SHALL PROVIDE ALL SHORING AS REQUIRED.
9. POOL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO PLACING CONCRETE.
10. ALL SHOTCRETE WORK SHALL MEET THE CLEARANCE, SPLICES, REBOUND, CURING AND TESTING REQUIREMENTS OF SECTION 1908 OF THE IBC.
11. SHOTCRETE SHALL BE MACHINE MIXED SUCH THAT THE 28 DAY COMPRESSIVE STRENGTH IS 4000 PSI. SHOTCRETE SHALL BE KEPT CONSTANTLY WET FOR 14 DAYS MIN. BY OWNER. NOTE THAT PROVISIONS SHALL BE MADE TO HOLD THE REINFORCING BARS IN PLACE DURING PLACEMENT OF SHOTCRETE TO MAINTAIN CLEARANCE BETWEEN THE STEEL AND THE FACE OF CONCRETE IN ACCORDANCE WITH THE IBC CODE REQUIREMENTS.
12. REINFORCING BARS SHALL BE DEFORMED INTERMEDIATE GRADE AND CONFORM TO ASTM DESIGN, A615, GRADE AS INDICATED ON THE REINFORCING SCHEDULE. THE REINFORCING BARS SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS.
13. THE REINFORCING STEEL CALLED OUT IN ALL STEEL AND SHOTCRETE SCHEDULES IS FOR TOTAL STEEL.
14. ALL REINFORCING STEEL SHALL BE IN PLACE BEFORE CONCRETE PLACING IS COMMENCED AND SHALL BE NEW, FREE FROM DIRT, OIL, PAINT AND MILL SCALE AND SHALL BE POSITIONED AND OF THE SIZE INDICATED ON THE DRAWINGS, AND SHALL BE SECURED BY NOT LESS THAN 16 GAUGE ANNEALED TIE WIRE. ALL REINFORCEMENT BARS SHALL BE DETAILED, BOLSTERED AND SUPPORTED IN ACCORDANCE WITH ACI STANDARD 315. U.O.N.
15. PROVIDE CONCRETE COVER FOR REBAR AS FOLLOWS:
    - CONCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND – 3.00 INCHES;
    - CONCRETE CAST AGAINST FORM, BUT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND, #5 BARS AND SMALLER – 1.50 INCHES;
    - CONCRETE CAST AGAINST FORM, BUT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND, #6 BARS AND LARGER – IF LOWED IN ACCORDANCE WITH 2018 IBC, SECTION 1908 – 2.00 INCHES.
16. ALL PIPING SHALL MAINTAIN A MINIMUM ONE AND A HALF (1 ½") INCH CLEARANCE FROM VERTICAL REINFORCING STEEL BARS.
17. ALL STEEL & ELECTRICAL ITEMS IN OR NEAR THE POOL SHALL BE BONDED & GROUNDED IN ACCORDANCE WITH THE MOST CURRENT NATIONAL ELECTRIC CODE (N.E.C.) ARTICLE 680 OR CURRENT ADOPTED N.E.C.
18. ALL CONCRETE PLACEMENT WORK SHALL BE IN ACCORDANCE WITH ACI–301 AND ACI–302. WHEN CONCRETE IS PLACED DURING HOT WEATHER CONFORM TO ACI 305R. WHEN PLACED DURING COLD WEATHER CONFORM TO ACI 306R.
19. THE STRUCTURAL ASPECT OF THE DESIGN CONTAINED ON THIS PLAN COVERS ONLY THE WATER FEATURE STRUCTURES WHOSE DESIGNS ARE SHOWN ON THIS PLAN (UNLESS OTHERWISE NOTED). IT DOES NOT INCLUDE DESIGN FOR ANY OTHER STRUCTURE OR CIVIL ELEMENT INCLUDED IN THIS PROJECT.
20. POOLS SHALL NOT BE LOCATED WHERE GROUND WATER EXISTS ABOVE BOTTOM OF POOL DURING HIGH WATER TABLE OCCURRENCES UNLESS TWO (2) HYDROSTATIC PRESSURE RELIEF VALVES ARE INSTALLED AT THE LOW POINT IN THE POOL.
21. THE DESIGN CONTAINED ON THIS PLAN IS NOT APPROVED FOR:

A) AREAS WITH COLLAPSIBLE SOILS OR EXPANSIVE SOILS WITH EQUIVALENT FLUID PRESSURES ABOVE THE STATED EQUIVALENT FLUID PRESSURES ON THE REBAR SCHEDULE. IF THESE TYPES OF SOILS ARE PRESENT, ADDITIONAL SOILS ANALYSIS AND ENGINEERING IS REQUIRED.

B) COVE RADIUS (TRANSITIONAL RADIUS BETWEEN WALL AND FLOOR) OTHER THAN THAT SHOWN ON POOL DRAWINGS. IF SITE CONDITIONS AND/OR EXCAVATION TECHNIQUES ARE NOT SUITABLE FOR WALL CONSTRUCTION PER THESE DRAWINGS AND COVE RADIUS NEEDS TO BE ALTERED, ADDITIONAL ENGINEERING IS REQUIRED.

22. EARTH SLOPES DRAINING TOWARD POOLS SHALL BE INTERCEPTED BY A DRAINAGE SYSTEM DESIGNED TO ASSURE ADEQUATE DRAINAGE OF WATER SO THAT HYDROSTATIC PRESSURES CAN'T BUILD UP BEHIND AND AROUND THE POOL WALLS.
23. BOTTOM OF ALL POOL FOOTINGS SHALL BE AT LEAST 2 FEET 6 INCHES BELOW GRADE OR BELOW FROST LEVEL, WHICHEVER IS DEEPER.
24. ALL CEMENT FOR CONCRETE WORK SHALL CONFORM TO REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR THE "PORTLAND CEMENT", SERIAL DESIGNATION C–150 OF THE ASTM AND SHALL BE THE TYPE REQUIRED IN THE SOILS REPORT.
25. WATER USED IN CONCRETE SHALL BE POTABLE. CALCIUM CHLORIDE, ALUMINUM CONDUIT, PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO CONCRETE SHALL NOT BE USED IN CONCRETE.

POOL SUBGRADE PREPARATION NOTES:

1. THE POOL ENGINEER HAS NOT INSPECTED THE POOL SITE. THIS POOL DESIGN IS BASED ON THE FINDINGS OF THE GEOTECHNICAL INVESTIGATION BY NORTH WEST COLORADO CONSULTANTS, INC. AND ITS REPORT DATED .
2. POOL CONTRACTOR SHALL CAREFULLY FOLLOW THE RECOMMENDATIONS PROVIDED IN GEOTECHNICAL INVESTIGATION REPORT. NOTIFY POOL ENGINEER OF DISCREPANCIES BETWEEN EXISTING SOIL CONDITIONS AND THOSE DESCRIBED IN GEOTECHNICAL INVESTIGATION.
3. POOL SHELL SHALL BE PLACED ENTIRELY ON UNDISTURBED NATIVE SOILS OR STRUCTURAL FILL.
4. REMOVE ALL DELETERIOUS MATERIALS FROM AROUND AND UNDER POOL SHELL PRIOR TO COMMENCEMENT OF CONSTRUCTION. THIS INCLUDES VEGETATION, TOPSOIL, LOOSE AND DISTURBED SOIL, POTENTIALLY COLLAPSIBLE SOILS, NON–ENGINEERED FILL, AND ALL UNDOCUMENTED SOILS.
5. ENSURE SOIL DOES NOT CONTAIN COBBLES/BOULDERS LARGER THAN 6" IN SIZE WITHIN 2'–0" OF POOL SHELL.
6. POOL EXCAVATION TO BE INSPECTED BY GEOTECHNICAL ENGINEER AFTER EXCAVATION AND PRIOR TO INSTALLATION OF STRUCTURAL FILL, FREE DRAINING GRAVEL AND POOL SHELL.
7. LOOSE AND/OR DISTURBED SOIL IN THE BASE OF POOL EXCAVATIONS SHOULD BE REMOVED. IF SOFT AREAS ARE ENCOUNTERED, THEY SHOULD BE EXCAVATED, REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL AND/OR PROPERLY DENSIFIED FREE DRAINING GRAVEL. IF GREATER THAN 2 FEET, A GEOTECHNICAL ENGINEER SHOULD BE CONTACTED FOR FURTHER RECOMMENDATIONS.
8. ALL STRUCTURAL FILL SHALL MEET THE REQUIREMENTS OUTLINED IN THE GEOTECHNICAL REPORT. COMPACTED STRUCTURAL FILL SOIL MUST BE CERTIFIED BY A LICENSED GEOTECHNICAL ENGINEER.
9. PROVIDE 4 INCHES OF PROPERLY DENSIFIED FREE DRAINING GRAVEL UNDER POOL FLOOR SLABS. GRAVEL SHALL MEET THE REQUIREMENTS OUTLINED IN THE GEOTECHNICAL REPORT.
10. SEE GEOTECHNICAL REPORTS FOR COMPLETE REQUIREMENTS.

REBAR AND SHOTCRETE SCHEDULE

CONSTRUCTION TYPE: SQUARE CORNER
REBAR IN ACCORDANCE WITH: ASTM A615, GRADE 40 — MAX. LOAD: SOIL, UP TO 60 pcf E.F.P.

WATER DEPTH	WALL HEIGHT, MAX. (H)	SOIL, UP TO 60 pcf E.F.P.		
		WALL THICKNESS (T)	VERTICAL REINFORCEMENT	HORIZONTAL REINFORCEMENT
UP TO 4'–0"	4'–3"	7"	#3@8" or #4@12"	#3@8" or #4@12"
UP TO 5'–0"	5'–3"	8"	#3@6" or #4@12"	#3@6" or #4@12"
UP TO 6'–0"	6'–3"	8"	#3@4" or #4@6"	#3@6" or #4@12"
UP TO 7'–0"	7'–3"	12"	#3@4" or #4@8"	#3@4" or #4@8"
UP TO 8'–0"	8'–3"	12"	#4@6" or #5@8"	#4@8" or #5@12"
UP TO 9'–0"	9'–3"	14"	#4@4" or #5@8"	#4@6" or #5@8"
UP TO 10'–0"	10'–3"	16"	#4@4" or #5@6"	#4@6" or #5@8"
UP TO 11'–0"	11'–3"	18"	#4@4" or #5@6"	#4@4" or #5@8"
UP TO 12'–0"	12'–3"	20"	#5@4"	#5@6"

1. FOR CONSISTENCY IN BAR SIZES, IT IS ALLOWED TO SUBSTITUTE EQUIVALENT AREA OF REINFORCEMENT, UTILIZING BAR SIZES OTHER THAN SHOWN IN SCHEDULE AND THESE NOTES. E.G. IF VERTICAL WALL REINFORCEMENT IS CALLED OUT AS #4'S@6", IT IS PERMITTED TO USE #4 BARS IN FLOOR REINFORCEMENT. SUBSTITUTION REINFORCEMENT SIZE AND SPACING SHALL CONFORM TO REQUIREMENTS OF ALL APPLICABLE CODES, LISTED IN "POOL STRUCTURAL ITEMS", THIS SHEET.
2. U.O.N. POOL (SPA) FLOOR THICKNESS SHALL BE EQUAL TO 6".
3. POOL FLOOR REINFORCEMENT SHALL BE:
   - FOR POOL FLOOR THICKNESS UP TO 7" – #3'S@8" C.C.E.W.;
   - – II – FROM 8" TO 9" – #3'S@6" C.C.E.W.;
   - FOR EACH ADDITIONAL 3" OF THICKNESS, OR FRACTION THEREOF, ADD AREA OF REINFORCEMENT EQUIVALENT TO #3'S@12" C.C.E.W.

   ALTERNATIVELY, POOL FLOOR REINFORCEMENT SHALL BE:
   - FOR POOL FLOOR THICKNESS UP TO 8" – #4'S@12" C.C.E.W.;
   - – II – FROM 9" TO 12" – #4'S@8" C.C.E.W.;
   - FOR EACH ADDITIONAL 6" OF THICKNESS, OR FRACTION THEREOF, ADD AREA OF REINFORCEMENT EQUIVALENT TO #4'S@12" C.C.E.W.
4. MINIMUM REQUIRED POOL WALL THICKNESS IS SHOWN IN SCHEDULE AND ON DETAILS. IF POOL WALL THICKNESS IS INCREASED DUE TO FIELD CONDITIONS, THE FOLLOWING SHALL BE PERFORMED:
   - FOR VERTICAL REINFORCEMENT: AMOUNT OF VERTICAL REBAR IN THAT AREA SHALL BE CHECKED TO PROVIDE AT LEAST 0.2% REINFORCEMENT RATIO AT NEW WALL THICKNESS. IF REINFORCEMENT RATIO IS LESS THAN 0.2%, INCREASE THE AMOUNT OF VERTICAL REBAR. CONTACT POOL ENGINEER IF CLARIFICATION IS NEEDED.
   - FOR HORIZONTAL REINFORCEMENT: FOR EACH ADDITIONAL (TO THICKNESS SHOWN IN SCHEDULE) 3" OF THICKNESS, OR FRACTION THEREOF, ADD AREA OF REINFORCEMENT EQUIVALENT TO #3'S@12" C.C.E.W.

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COLORADO LICENSED — CHRISTOPHER M. RICHARDSON — PE-39476 — 2-25-24 — PROFESSIONAL ENGINEER

FOR: POOL STRUCTURAL, HYDRAULIC, FILTRATION, & SANITIZING SYSTEMS ONLY.

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OWNER:

CENTRAL PARK HOTEL
1760 Central Park Dr.
Steamboat Springs, CO

PROJECT:

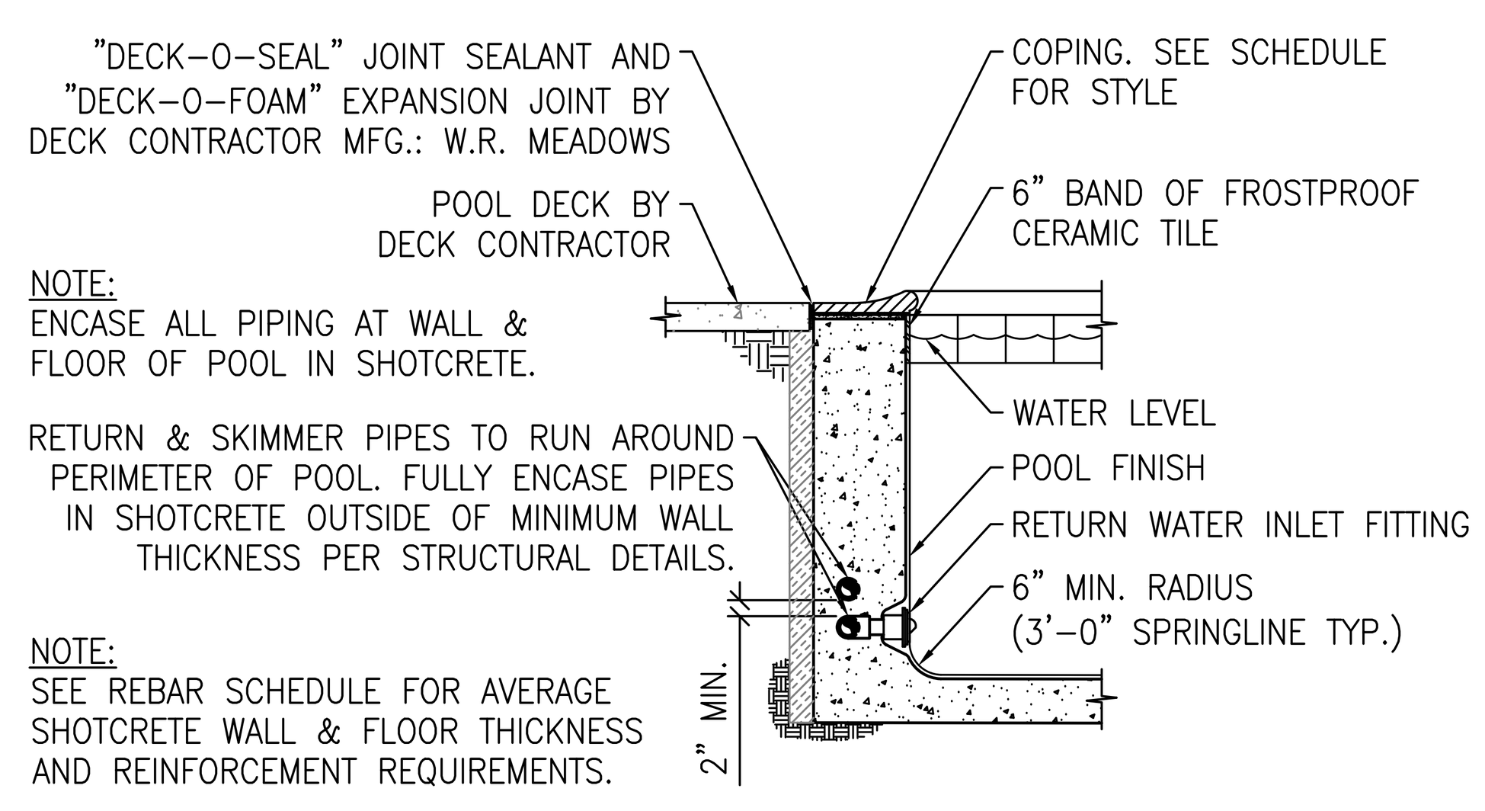
#	ISSUE DATE	DESCRIPTION
	03/04/2024	Permit Set
#	REV. DATE	DESCRIPTION

PERMIT SET

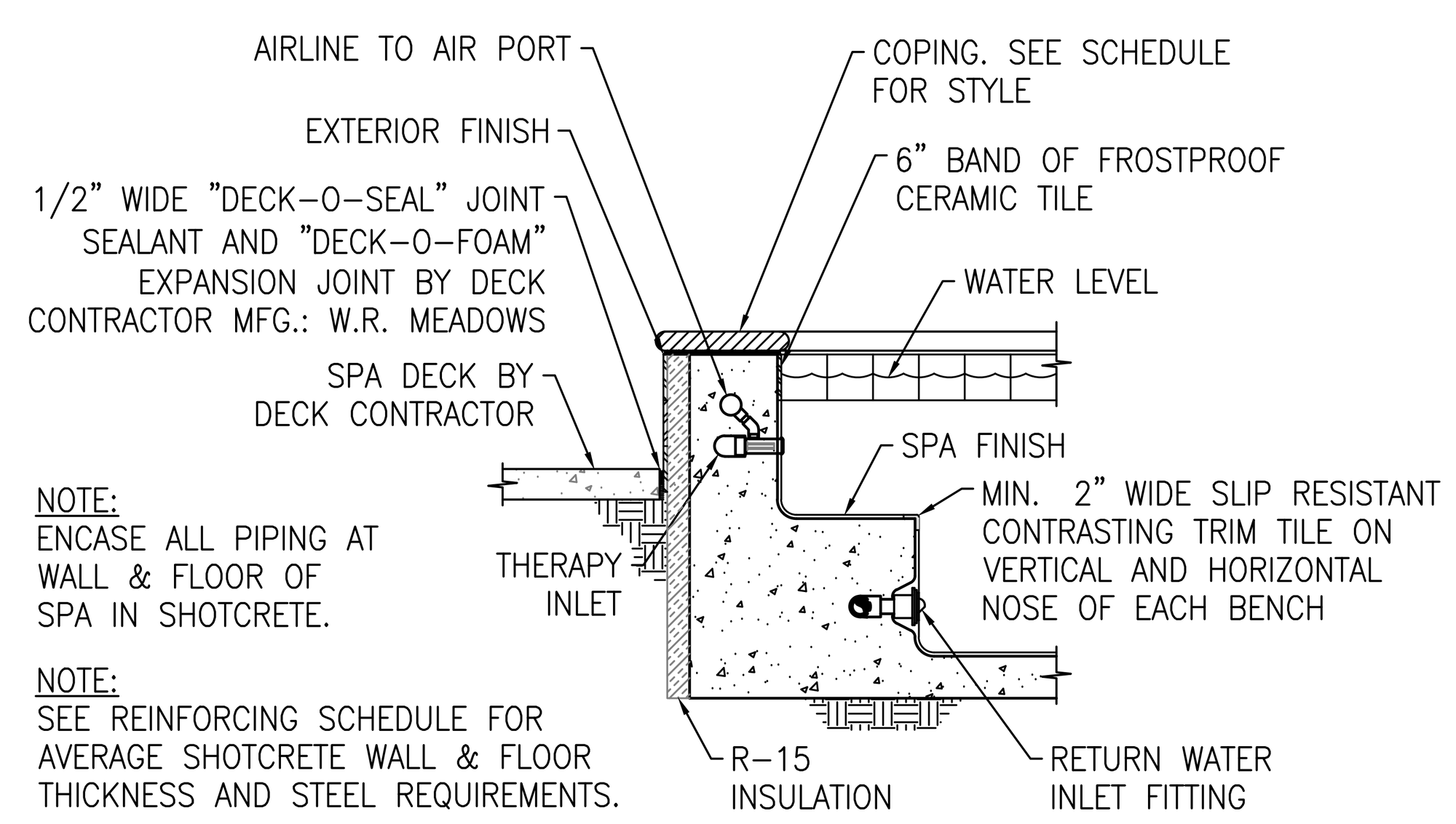
STRUCTURAL DETAILS

PROJECT #: 24-102
DRAWN BY: IT
CHECKED BY: BH, IR

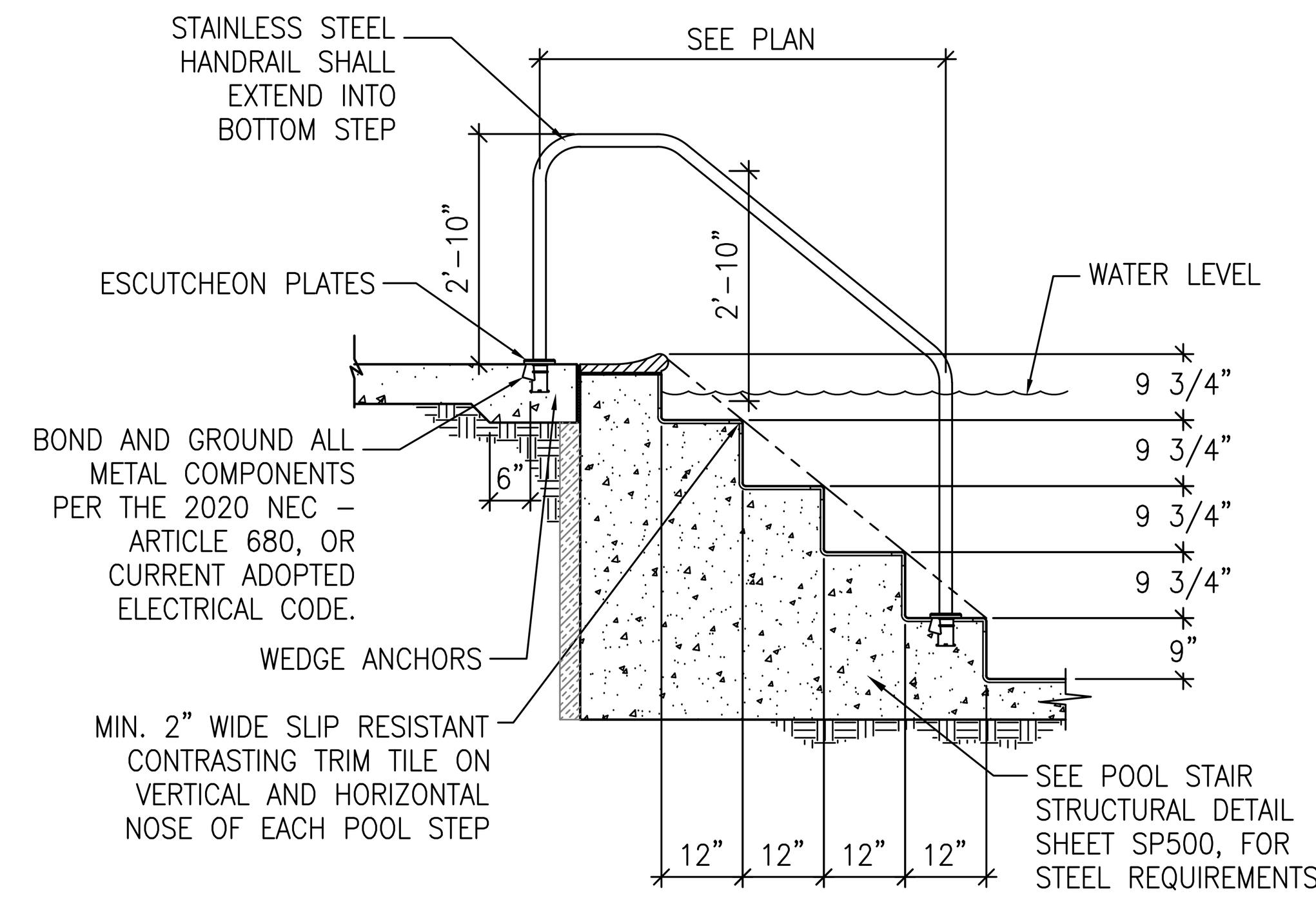
SHEET #
SP500



POOL WALL DETAIL 1 SP600
SCALE: 1/2"=1'-0"



SPA WALL DETAIL 2 SP600
SCALE: 1/2"=1'-0"



POOL STAIR AND HANDRAIL DETAIL 3 SP600
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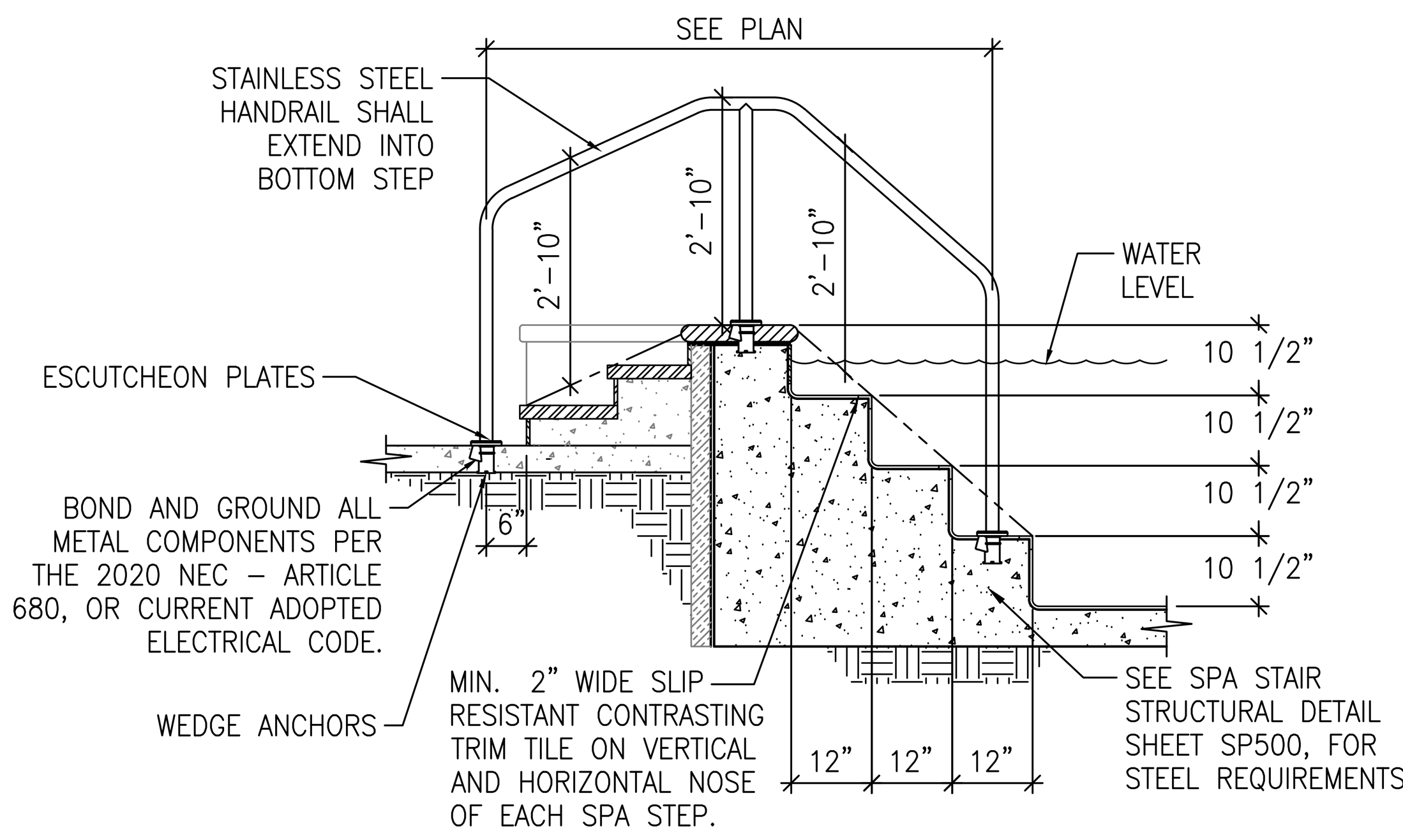

SPA STAIR AND HANDRAIL DETAIL 4 SP600
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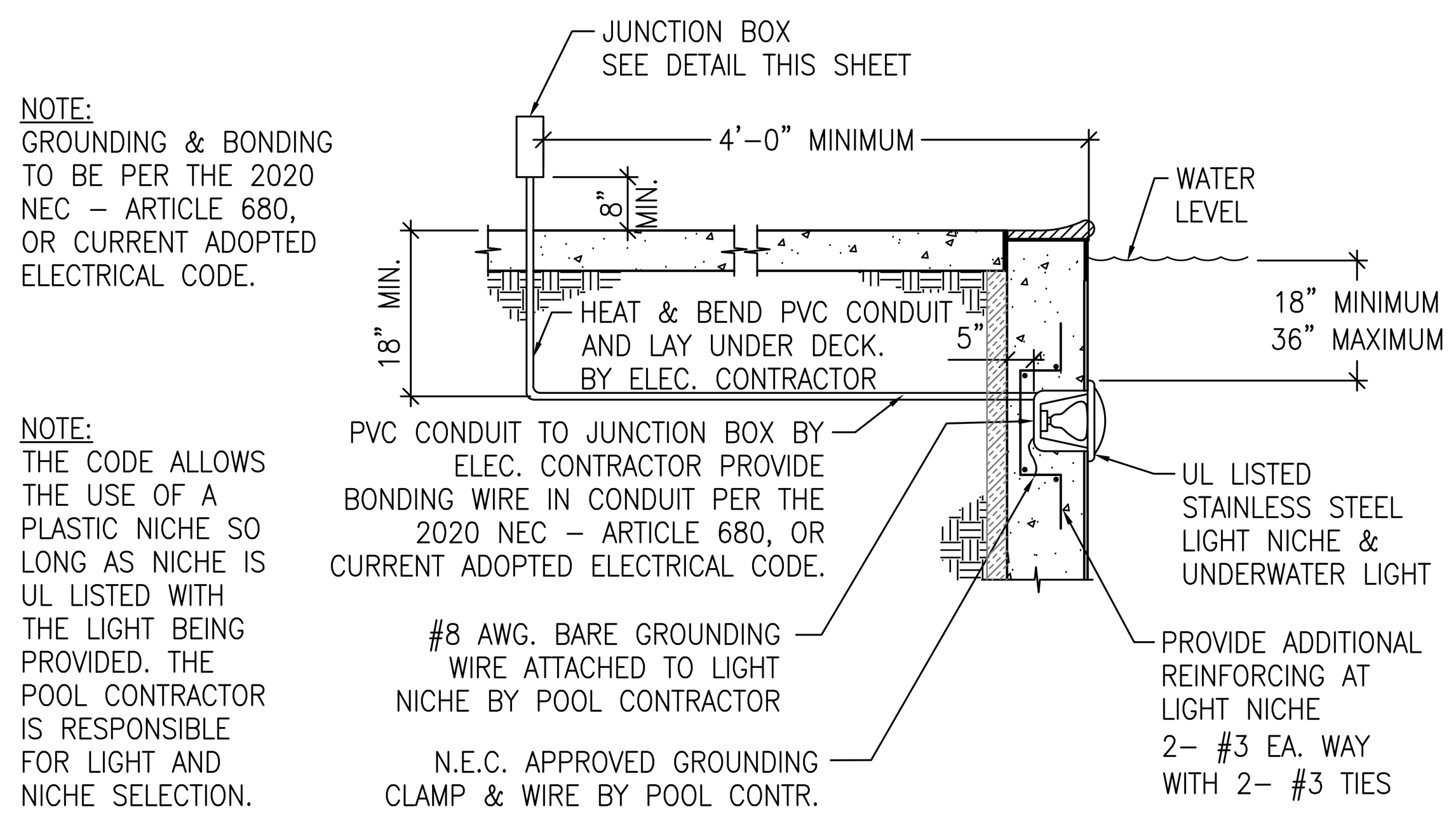

POOL U.W LIGHT DETAIL 5 SP600
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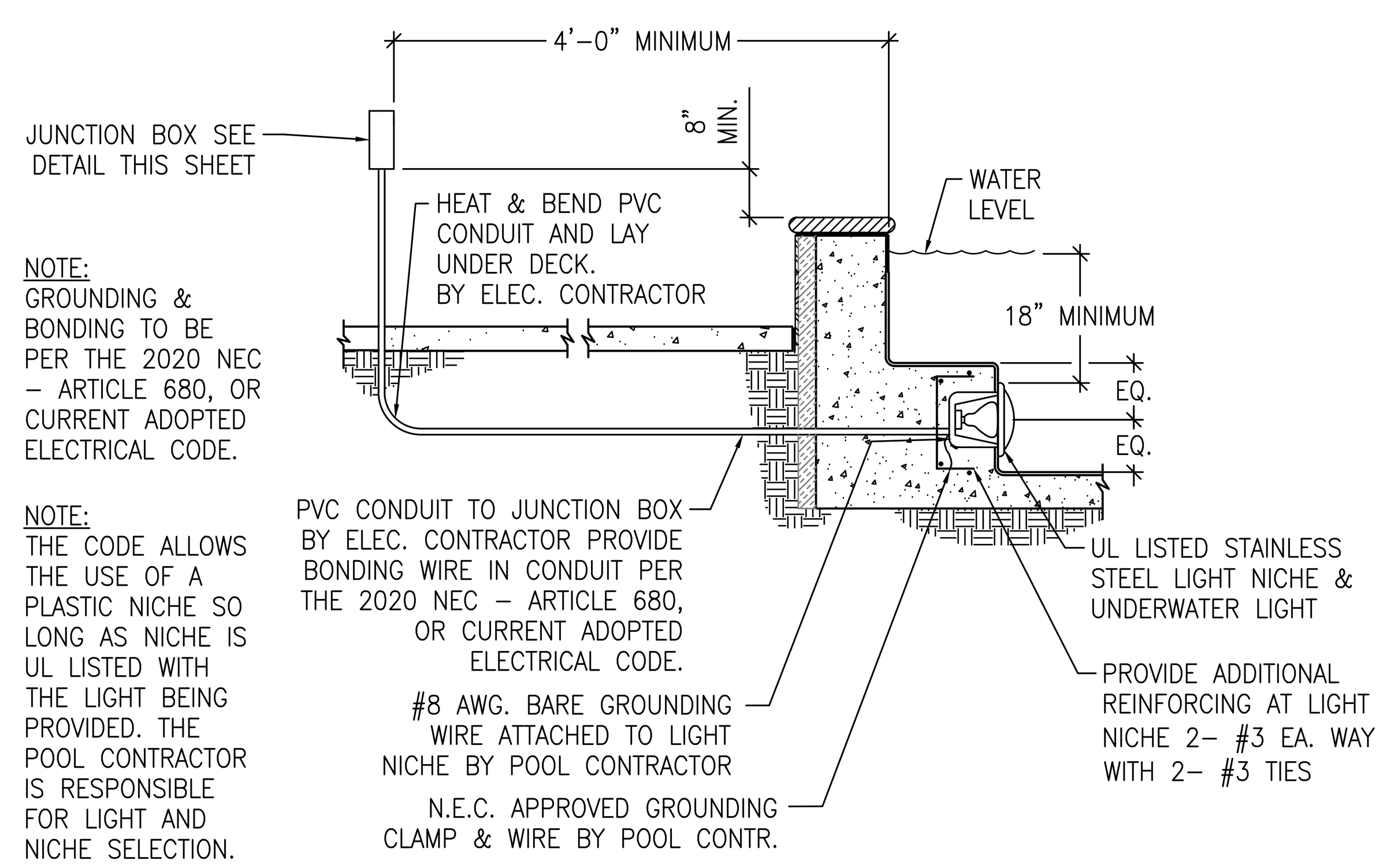

SPA U.W LIGHT DETAIL 6 SP600
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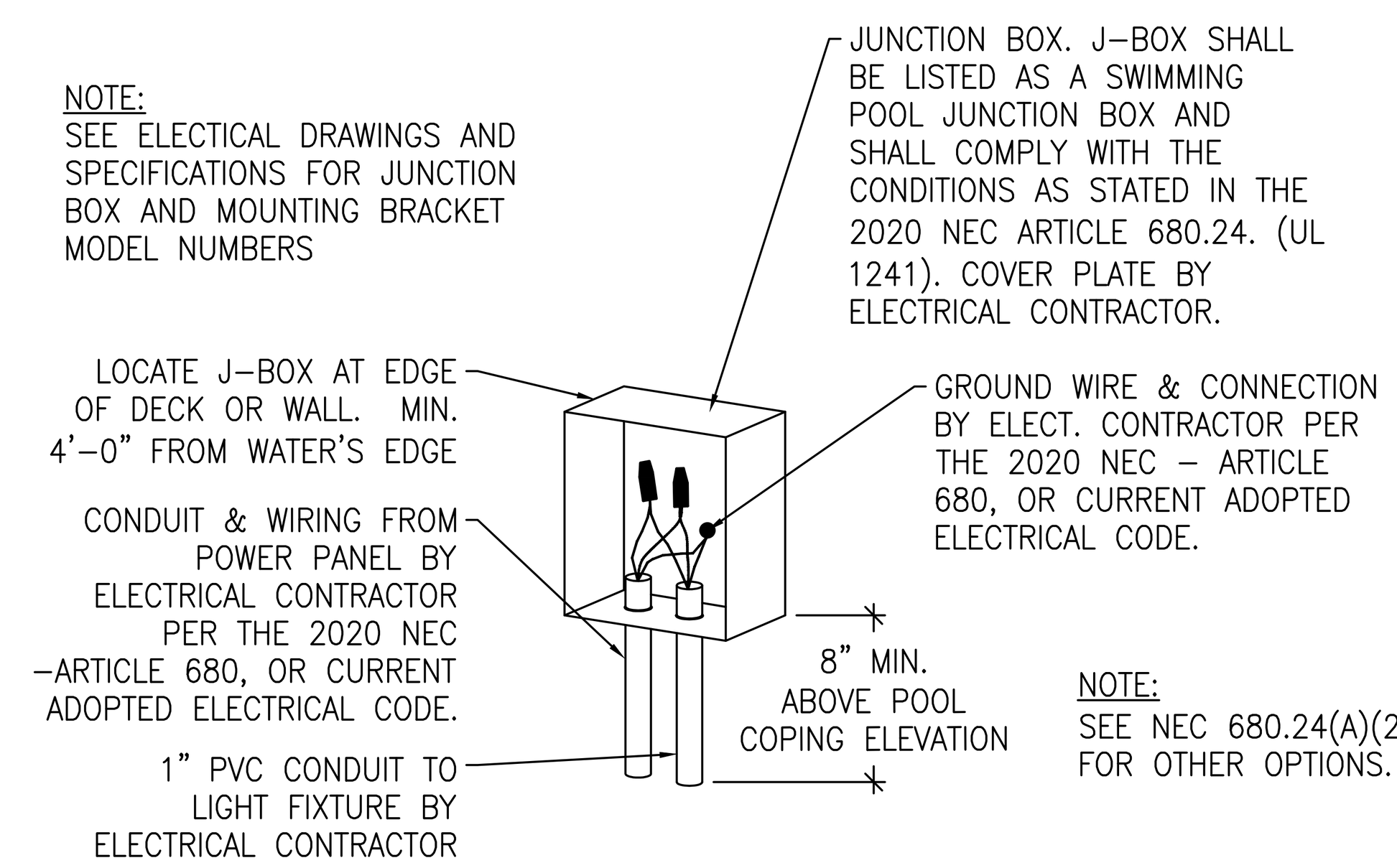

U.W. LIGHT JUNCTION BOX DETAIL 7 SP600
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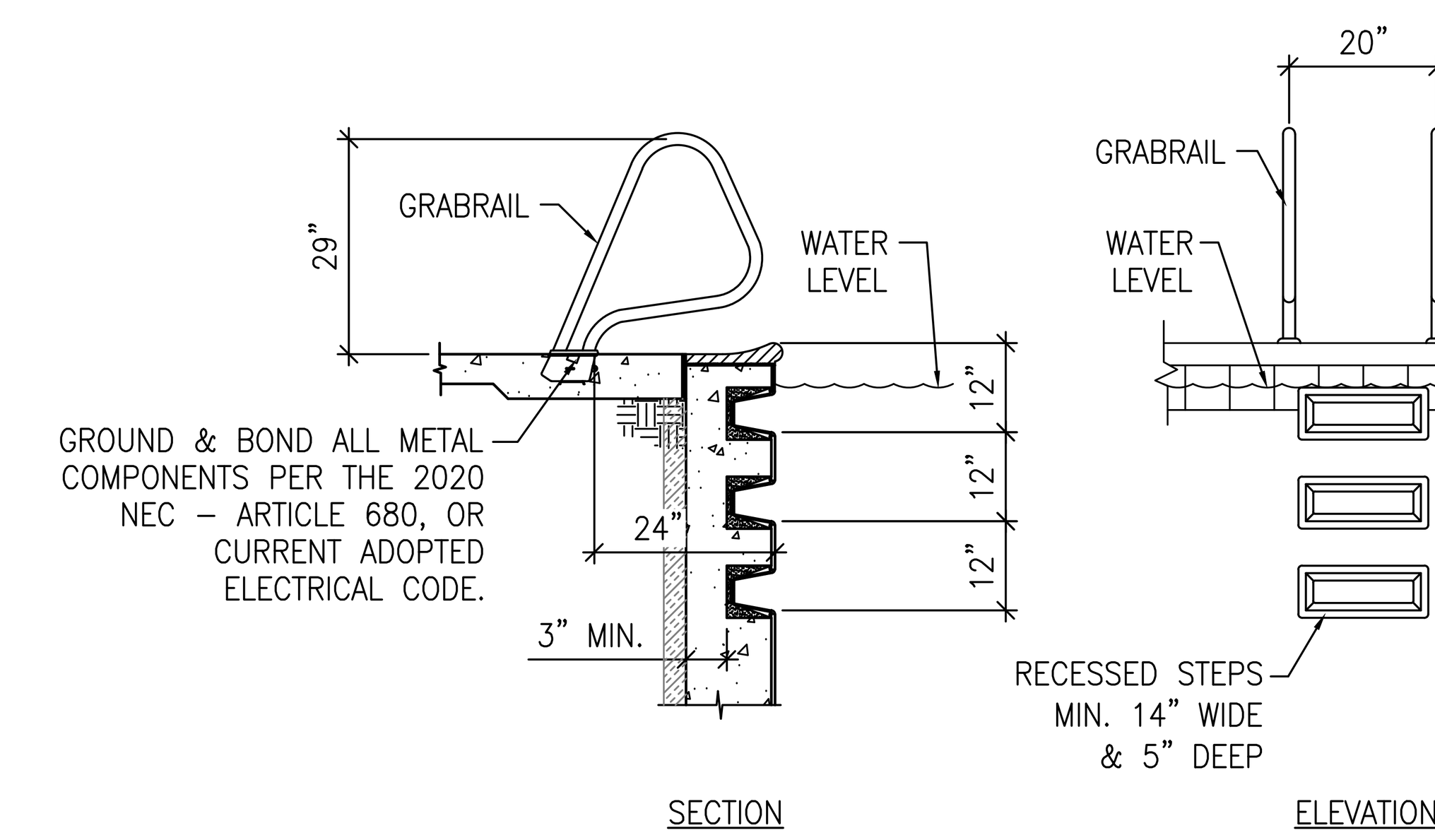

GRABRAIL DETAIL 8 SP600
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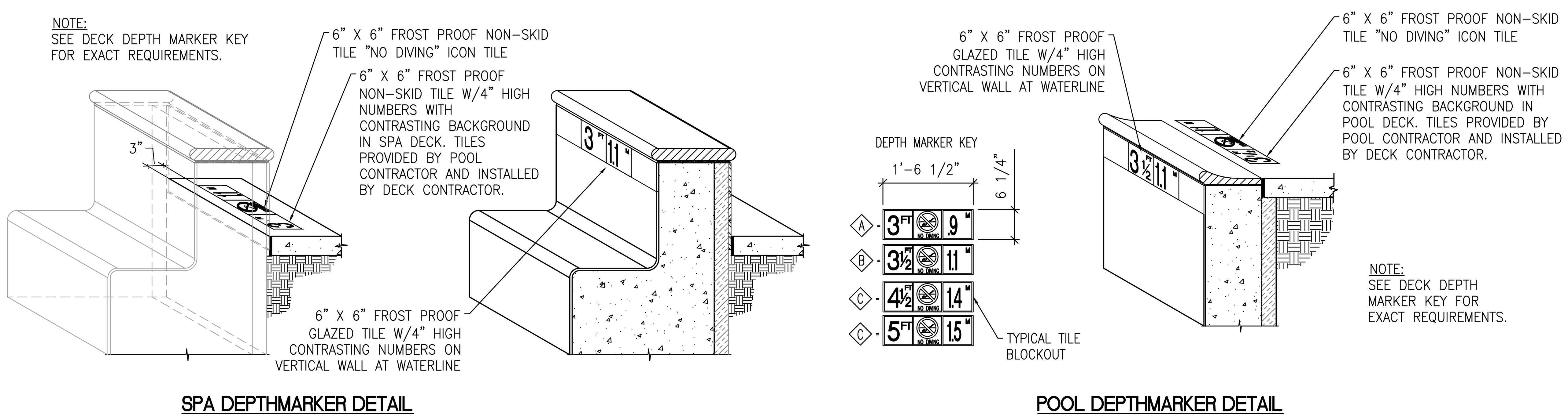

DEPTHMARKER DETAIL 9 SP600
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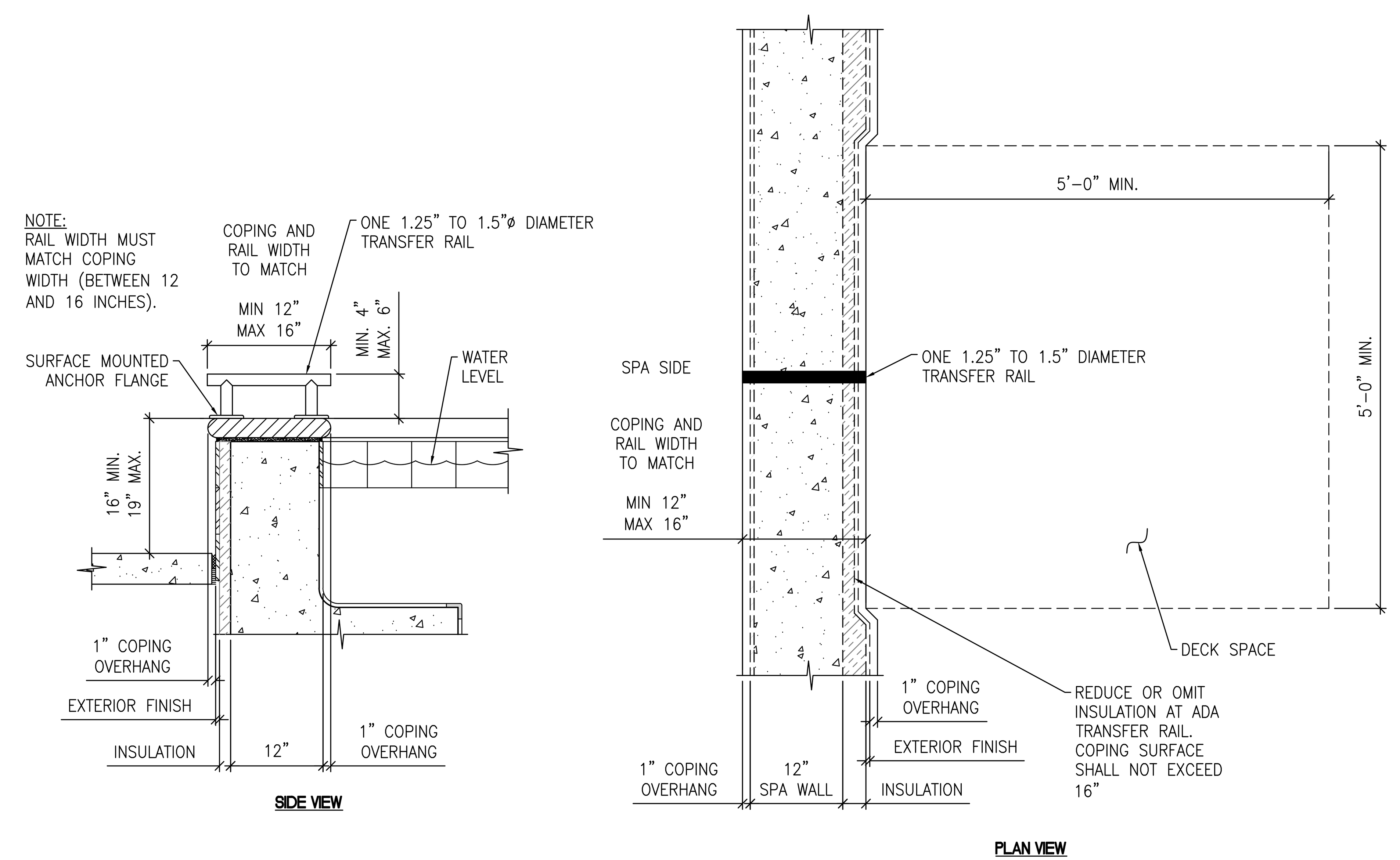

ADA TRANSFER RAIL DETAIL 10 SP600
SCALE: 1"=1'-0"

PERMIT SET

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ISSUE DATE	DESCRIPTION
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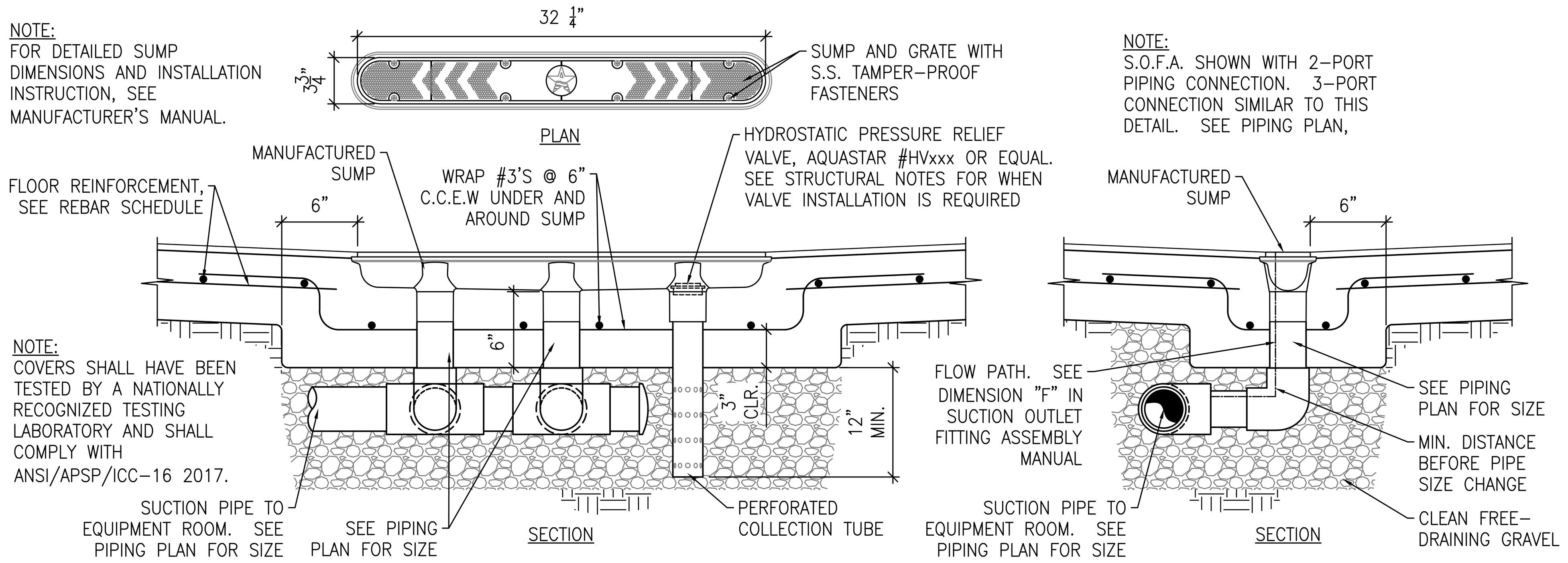
DETAILS

SHEET #: SP600



SUCTION OUTLET FITTING ASSEMBLY (SOFA) DETAIL 1 SP601
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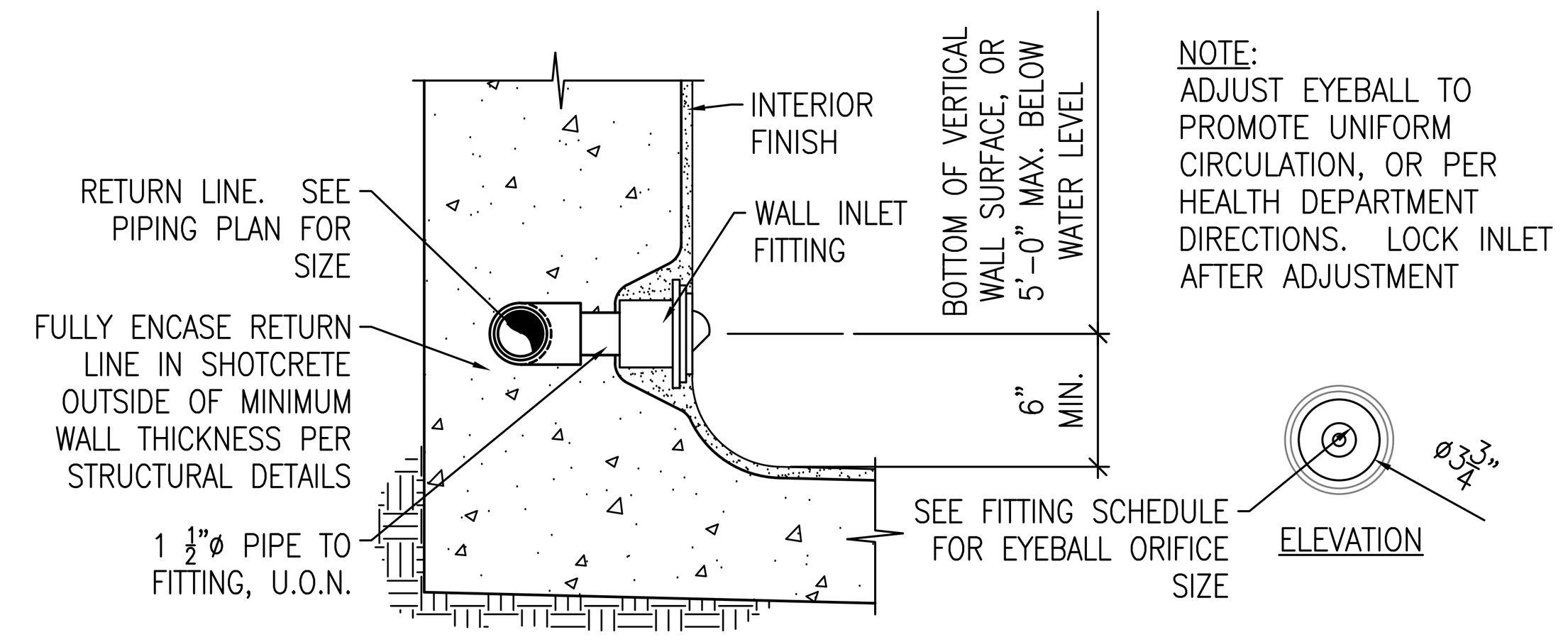
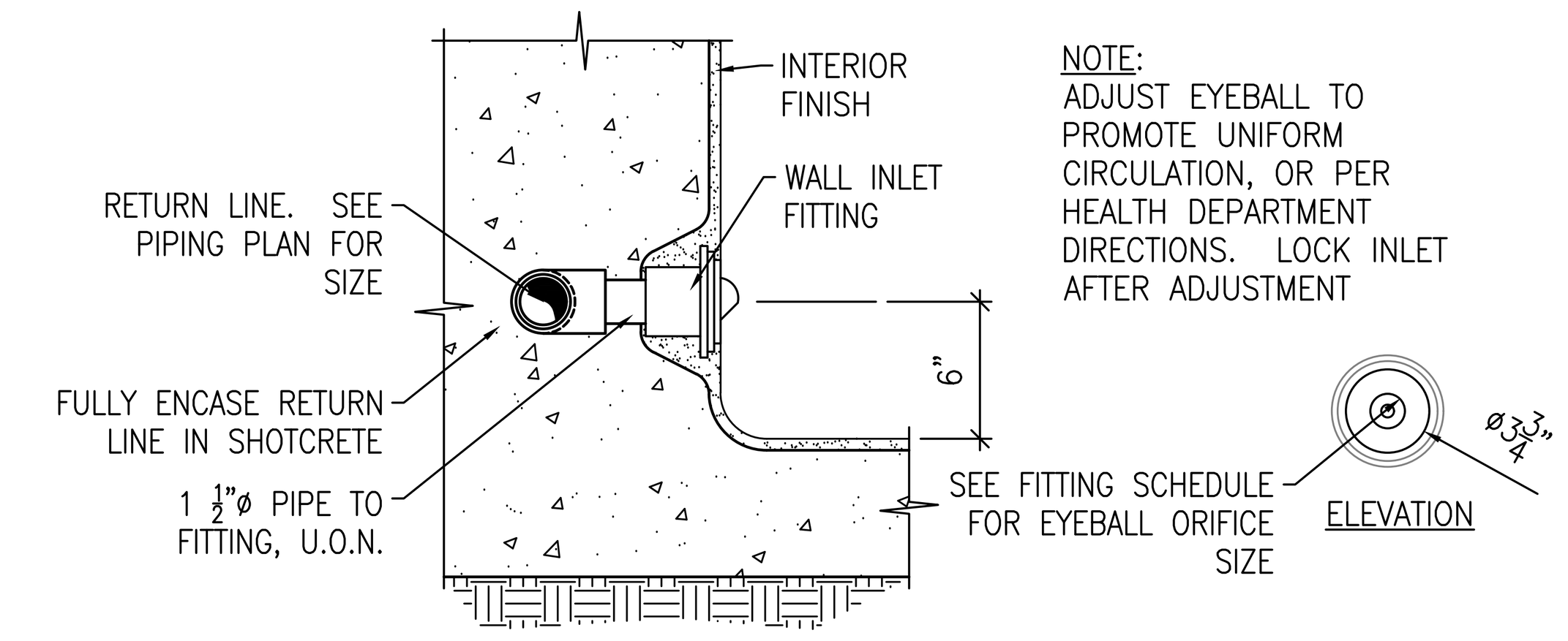


POOL WALL INLET DETAIL 2 SP601
SCALE: 1-1/2"=1'-0"



SPA WALL INLET DETAIL 3 SP601
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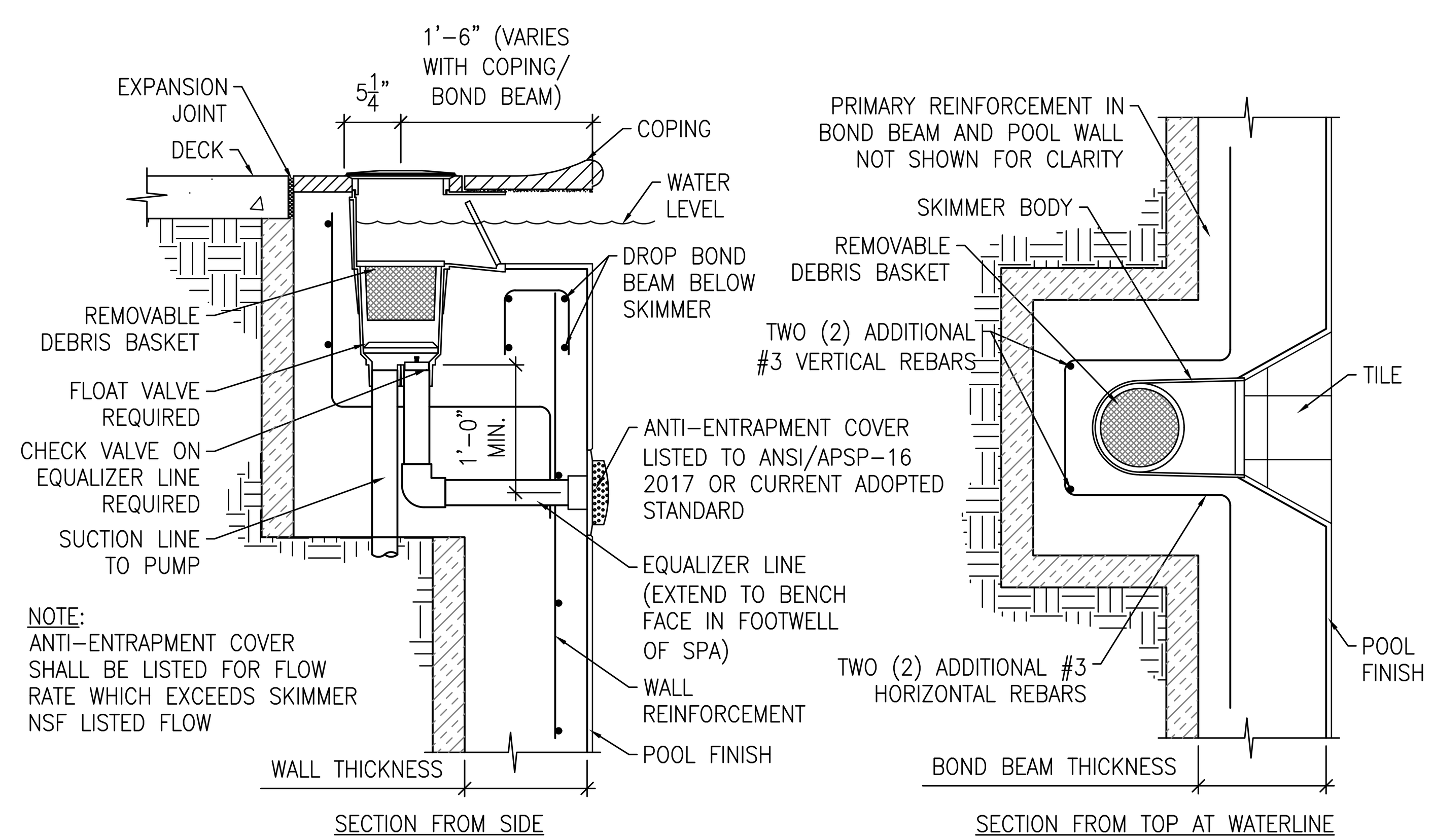
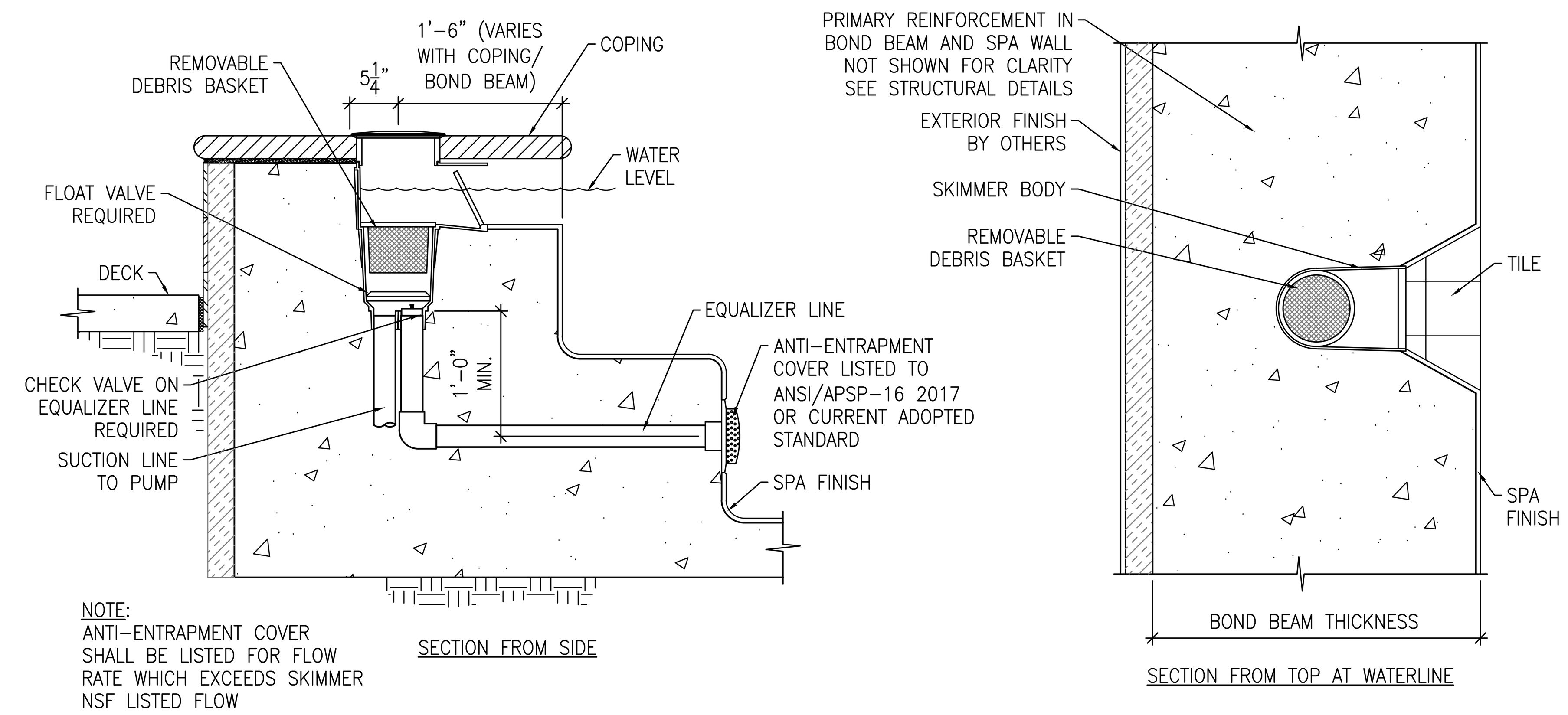
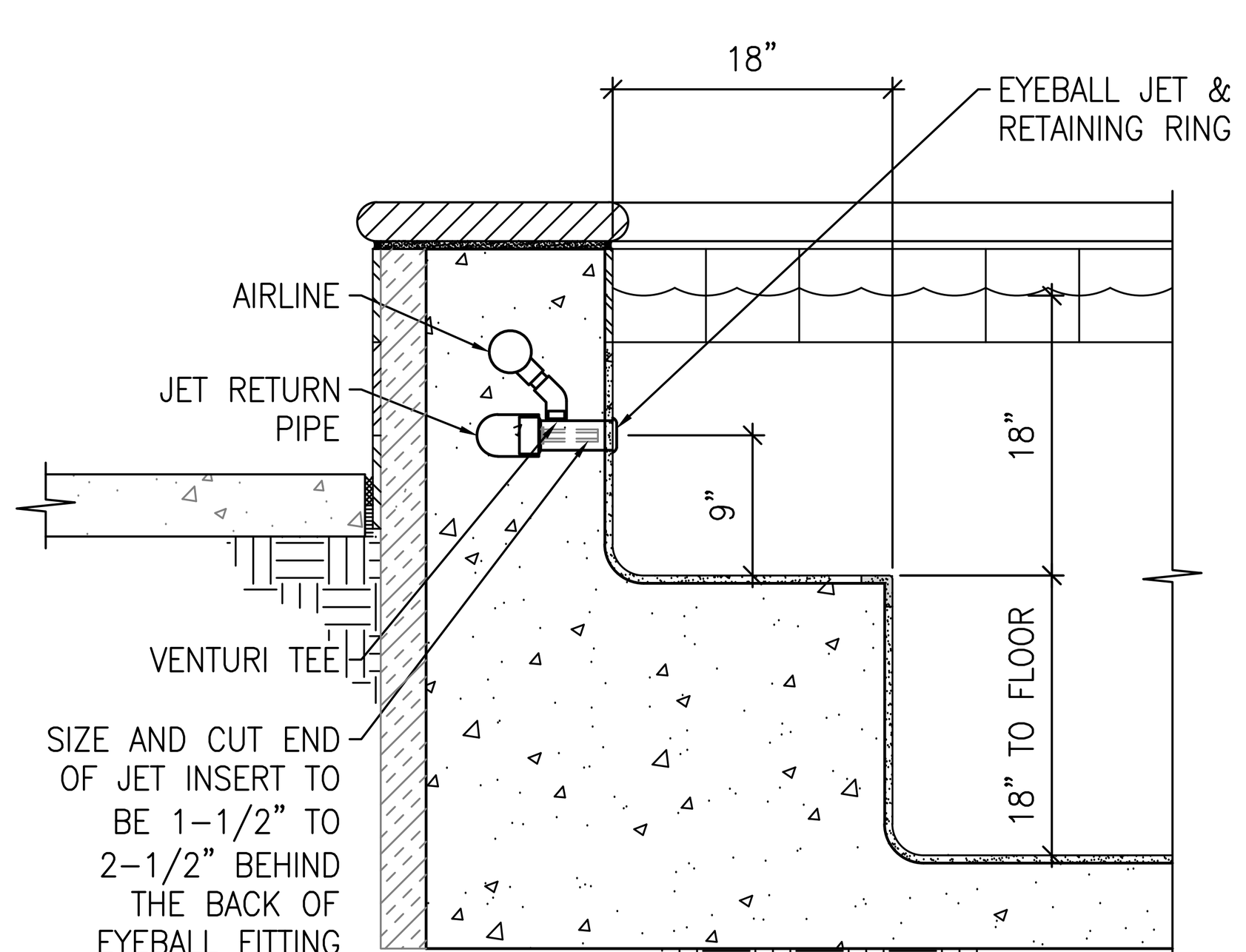


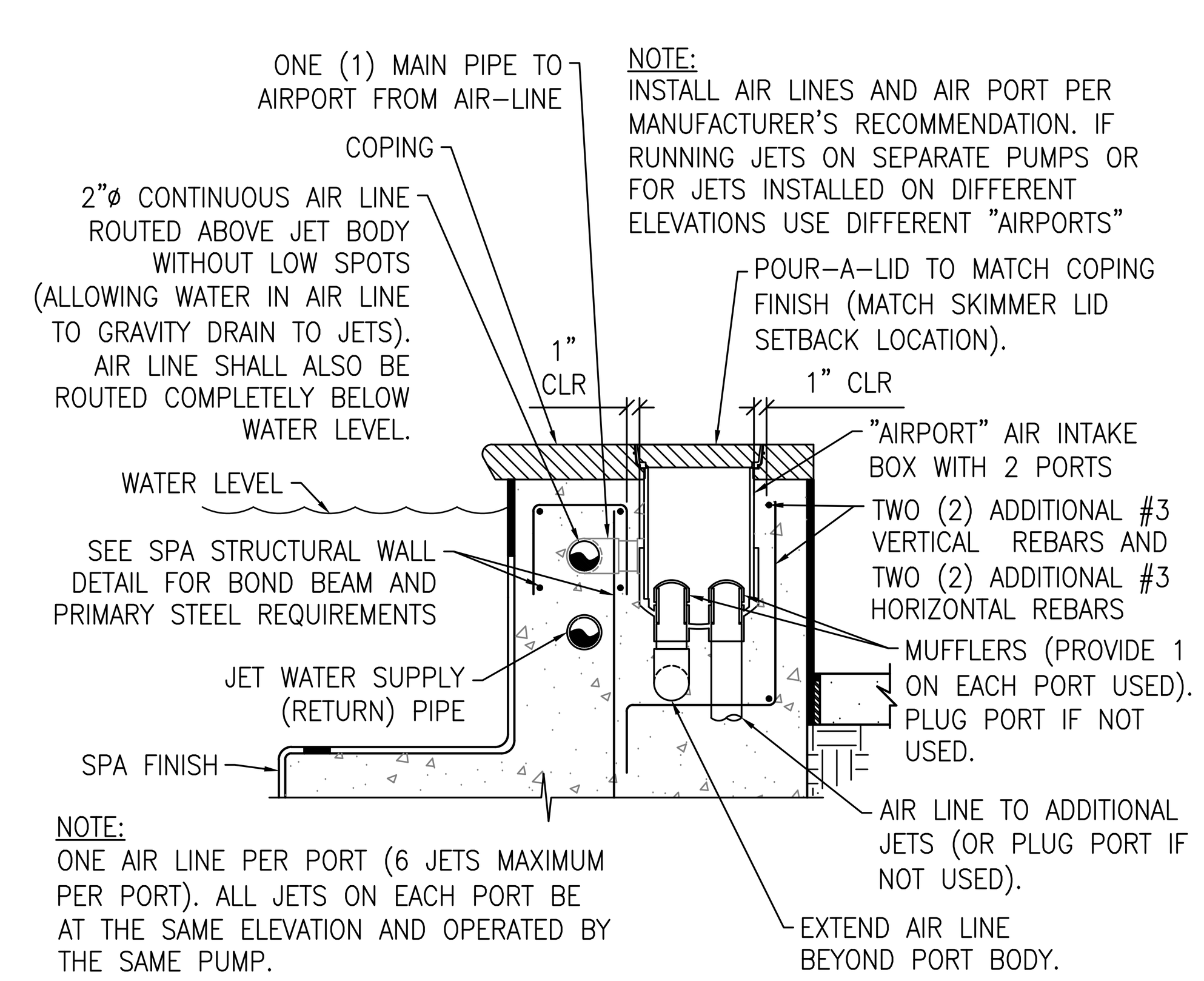
POOL SKIMMER DETAIL 4 SP601
SCALE: 1"=1'-0"



SPA SKIMMER DETAIL 5 SP601
SCALE: 1"=1'-0"



SPA HYDROTHERAPY JET DETAIL 6 SP601
SCALE: 1"=1'-0"



SPA AIRPORT DETAIL 7 SP601
SCALE: 1"=1'-0"

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FOR: POOL STRUCTURAL, HYDRAULIC, FILTRATION, & SANITIZING SYSTEMS ONLY.

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OWNER:

CENTRAL PARK HOTEL
1760 Central Park Dr.
Steamboat Springs, CO

PROJECT:

ISSUE DATE	DESCRIPTION
03/04/2024	Permit Set
REV. DATE	DESCRIPTION

PERMIT SET

DETAILS

SHEET #
SP601