Sheet List	
Sheet Number	Sheet Name
SP3.00	INTERIOR SPA PLUMBING PLAN
SP2.00	THERAPY POOLS SITE LAYOUT
SP4.01	INTERIOR SPA SECTION VIEWS
SP6.00	SPA EQUIPMENT ROOM
SP1.01	GENERAL NOTES
SP1.00	EQUIPMENT SCHEDULES
SP5.00	SWIMMING POOL DETAILS
SP5.02	SWIMMING POOL DETAILS
SP5.03	POOL STRUCTURAL DETAILS
SP5.01	SWIMMING POOL DETAILS

CROSS GATES
THERAPY POOLS

200 N. MILITARY RD.
SLIDELL, LA 70461

PUMP SCHEDULE

MARK	QTY	DESCRIPTION	MAXIMUM CAPACITY		OPERATING POINT		HORSEPOWER	NSF LISTED	VOLTAGE	FREQUENCY	SPEED	PUMP MODEL
			FLOWRATE (GPM)	TDH (FT)	FLOWRATE (GPM)	TDH (FT)						
P-1	1	HOT SPA RECIRCULATION PUMP	115	18	61	31	1.5	YES	208-230V - 1P	60 Hz	60%	PENTAIR INTELLIFLO 3 VS
P-2	1	HOT SPA JET PUMP	275	30	195	37	5.0	YES	208-230V - 1P	50-60 Hz	3000 RPM	PENTAIR WHISPERFLO XF VS
P-3	1	COLD SPA RECIRCULATION PUMP	115	18	55	32	1.5	YES	208-230V - 1P	60 Hz	60%	PENTAIR INTELLIFLO 3 VS

FILTER SCHEDULE

MARK	QTY	NO. OF FILTERS	CONFIGURATION	FILTER AREA SF	MAXIMUM FLOWRATE (GPM)	NSF LISTED	FILTER MODEL
SF-1	2	1	SINGLE	3.14	63	YES	PENTAIR TR60

NOTE: SINGLE FILTERS SHALL BE INSTALLED WITH PENTAIR MULTI-PORT VALVE.

CHLORINATOR SCHEDULE

MARK	QTY	CAPACITY (LB)	MAXIMUM OUTPUT (GAL/DAY)	NSF LISTED	MODEL
CF-1	1	N/A	22	YES	STENNER 45M3

ACID FEEDER SCHEDULE

MARK	QTY	CAPACITY (LB)	MAXIMUM OUTPUT (GAL/DAY)	NSF LISTED	MODEL
CF-1	1	N/A	22	YES	STENNER 45M3

CHEMICAL CONTROLLER/TANK SCHEDULE

MARK	NSF LISTED	MODEL
CC-1	YES	HAYWARD CAT2000
T-1	YES	BY POOL SURE
T-2	YES	BY POOL SURE

MAIN DRAIN SCHEDULE

MARK	QTY	MAXIMUM FLOWRATE (GPM)	VELOCITY AT MAXIMUM FLOWRATE	OPEN AREA (SQ.IN.)	SUMP MODEL NUMBER	APPROVALS	DRAIN COVER MODEL
D-1	4	360	1.5	90.8	FIELD BUILT	ANSI/APSP 16-2017	AQUASTAR WAV12WR

AUTOFILL SCHEDULE

MARK	QTY	WATERLINE SIZE	CONFIGURATION	MODEL
AF-1	2	1"	FLOAT VALVE WITH BACKFLOW PREVENTOR	JANDY K1100

POOL FINISH SCHEDULE

DESCRIPTION	SIZE	MODEL/COLOR	NOTES
WATERLINE TILE	6" X 6"	RE: LANDSCAPE	GLAZED
TILE EDGES OF STEPS AND BENCHES	2" BULLNOSE	RE: LANDSCAPE	SLIP-RESISTANT, DARK AND CONTRASTING COLOR
SPA PLASTER	N/A	RE: LANDSCAPE	WHITE OR PASTEL COLORED

HOT SPA HEATER SCHEDULE

MARK	BTU/HR	MODEL
H-1	400,000	PENTAIR MASTERTEMP 400 ASME

COLD SPA HEAT PUMP (CHILLER) SCHEDULE

MARK	VOLTAGE	FREQUENCY	BREAKER SIZE (AMPS)	BTU/HR	MODEL
CH-1	208-230V - 1P	60HZ	50A	122,000	DUAL PENTAIR ULTRATEMP 120 C

MISC. EQUIPMENT SCHEDULE

DESCRIPTION	MODEL
WALL INLETS (3/4" ADJUSTABLE)	PENTAIR 08434
2" X 4" AIR LOOP COVERS	HAYWARD SP1019
RECESSED AUTOMATIC SKIMMERS	PENTAIR BERMUDA
SKIMMER EQUALIZER COVER	AQUASTAR 6HPHA101
UNDERWATER POOL LIGHTS	PENTAIR GLOBRITE
PVC PIPING	SCHEDULE 40 NSF 61
HANDRAILS	S.R. SMITH 3-BEND 1.90" O.D.
SPA JETS	CMP VENTURI JET
ADA CHAIRLIFT	S.R. SMITH EXTENDED REACH CHAIRLIFT

LIFE SAVING EQUIPMENT SCHEDULE

DESCRIPTION	MODEL
SHEPERD'S HOOK WITH 16'-0" POLE	1 - BY CONTRACTOR
18" Ø RING WITH 50'-0" WITH 1/4"Ø ROPE	1 - BY POOL CONTRACTOR
POOL RULES SIGN	1 - BY OWNER EACH ENTRANCE
EMERGENCY CUT-OFF BUTTON	1 - BY GENERAL CONTRACTOR

NOTES:

ALL LIFE-SAVING EQUIPMENT SHALL BE LOCATED IN A CONSPICUOUS AREA WITHIN THE POOL AREA ENCLOSURE. EMERGENCY CUTOFF SHALL BE INTERLOCKED WITH SWIMMING POOL EQUIPMENT PANEL AND SHALL KILL POWER TO ALL POOL EQUIPMENT ROOM WHEN ACTIVATED.

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CROSS GATES THERAPY POOLS

200 N. MILITARY RD.
SLIDELL, LA 70461

No.	Description	Date
	Issued for Permit	8.22.2024

SEAL

STATE OF LOUISIANA
8/22/2024
RYAN C. DUNLEVY
License No. 42707
PROFESSIONAL ENGINEER
CIVIL ENGINEERING

CROSS GATES THERAPY POOLS

EQUIPMENT SCHEDULES

Project number	SE-24-845
Date	8/13/24
Drawn by	RD
Checked by	RD

SP1.00

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GENERAL

THE SWIMMING POOL CONTRACTOR SHALL FURNISH COMPLETE SWIMMING POOL TO CONFORM TO THE BASIC SHAPE OF THE POOL SHOWN ON THE PLANS. THE POOL CONTRACTOR SHALL MAKE THE NECESSARY SUBMITTALS AND SECURE APPROVAL FROM ALL REGULATORY AGENCIES. THE CONTRACTOR SHALL PAY ALL APPLICABLE SERVICE CHARGES, FEES, PERMITS, ROYALTIES, TAXES AND INSURANCE OR OTHER COSTS AS REQUIRED FOR THE WORK TO BE PERFORMED UNDER THIS SECTION.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF APPLICABLE STATE, COUNTY AND CITY CODES, LAWS AND ORDINANCES, RULES AND REGULATIONS OF THE HEALTH DEPARTMENT AND THE INTERPRETATION OF SAME BY THE ADMINISTRATIVE AND REGULATORY AUTHORITIES HAVING JURISDICTION. BRING TO THE ATTENTION OF THE ENGINEER DISCREPANCIES BETWEEN THE DRAWINGS AND APPLICABLE CODES PRIOR TO BID. EXTRAS WILL NOT BE ALLOWED FOR SUCH DISCREPANCIES AFTER BID. FURNISH ALL LABOR, TOOLS, EQUIPMENT, APPLIANCES, TRANSPORTATION, SCAFFOLDING, SERVICES, SUPERVISION, INSTRUCTIONS AND PERFORM ALL OPERATIONS REQUIRED TO COMPLETE ALL SWIMMING POOL WORK IN ACCORDANCE WITH INTENT OF THE PLANS AND SPECIFICATIONS.

SCOPE

WORK UNDER THIS SECTION INCLUDES BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING:

- TRENCHING, EXCAVATION AND BACK FILL REQUIRED FOR SWIMMING POOL WORK.
- FILTRATION PLANT COMPLETE WITH ALL DEVICES.
- ALL POOL FITTINGS AND DECK EQUIPMENT.
- ALL PIPING CONNECTING THE FILTER PLANT WITH THE APPROPRIATE FITTINGS, REDUCERS, AND VALVING.
- POOL SHELL, INCLUDING INTERIOR FINISH, COPING, OR GUTTER AS REQUIRED ON THE DRAWINGS.
- LIFESAVING EQUIPMENT AS SPECIFIED HEREIN.
- DEPTH MARKERS ON DECK AND WALLS OF POOL AS SPECIFIED.
- EVERYTHING NECESSARY FOR A COMPLETE AND SATISFACTORY SWIMMING POOL INSTALLATION, INCLUDING ANY NECESSARY PARTS, DEVICES AND ACCESSORIES THAT MAY BE REQUIRED TO SATISFACTORILY COMPLETE THE INSTALLATION. SPECIAL EXTENSIONS OF UTILITIES REQUIRED BY POOL CONTRACTOR WILL BE PROVIDED BY THE GENERAL CONTRACTOR.
- ALL POOL CIRCULATION AND DISINFECTION EQUIPMENT AS SPECIFIED HEREIN PERTAINING TO THE CONSTRUCTION OF A CODE COMPLIANT SWIMMING POOL. THIS INCLUDES ALL ADDITIONAL ITEMS REQUIRED FOR THE SATISFACTORY INSTALLATION AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.

WORK BY PLUMBING CONTRACTOR

THE MECHANICAL CONTRACTOR WILL PROVIDE DOMESTIC WATER EXTENSION TO THE COLLECTOR TANK FOR POOL CONTRACTOR CONNECTION UP TO FLOAT VALVE AUTOFILL DEVICE WITHIN THE TANK.

PORTABLE EQUIPMENT

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PORTABLE AND DETACHABLE PORTIONS OF THE INSTALLATION UNTIL COMPLETION OF THE WORK AND SHALL THEN TURN THEM OVER TO THE OWNER.

EXCAVATION AND FILL

ELEVATIONS AND DEPTHS INDICATED ON THE PLANS SHALL BE USED IN COMPUTING THE QUANTITIES OF EXCAVATION OR FILL REQUIRED OF THE CONTRACTOR, AND IS BASED ON HAND PLACED CONCRETE FOR THE POOL SHELL. REMOVE ALL SURPLUS MATERIALS FROM THE SITE OR DISPOSE OF AS DIRECTED BY THE OWNERS REPRESENTATIVE. ALL EXCAVATIONS SHALL BE ADEQUATELY BRACED AND SHORED AND SHALL BE KEPT DRY. USE CLEAN, SHARP SAND OR COMPACTED STRUCTURAL FILL FOR BACKFILLING IF EARTH FORMING IS NOT PERFORMED.

SUPPORTS

PROVIDE ALL STEEL FRAME SUPPORTS, INSERTS, ANCHOR BOLTS, SLEEVES, HANGER MATERIALS, ETC., FOR THE ADEQUATE AND SAFE SUPPORT OF PIPING AND EQUIPMENT TO PROTECT AGAINST VIBRATION AND WATER HAMMER.

BASE

PROVIDE VIBRATION ISOLATION BASES AND ELEMENTS FOR EQUIPMENT AS NECESSARY.

CONCRETE

THE CONCRETE MIX SHALL BE DESIGNED TO PRODUCE CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS FOR THE SWIMMING POOL SHELL. SHOTCRETE OF EQUAL STRENGTH IS PERMITTED. REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 40 FOR ALL POOL REINFORCEMENT.

PREP CONCRETE

THE CONTRACTOR SHALL INSTALL ALL SPECIAL POOL AND DECK FITTINGS, DECK RECEPTACLES AND MOUNTING RINGS FOR UNDERWATER LIGHT AND ANCHORS PRIOR TO BEGINNING CONCRETING OPERATIONS.

NO SPECIAL TOPPINGS

NO SPECIAL CONCRETE OR CEMENT MORTAR TOPPING COURSE SHALL BE USED FOR THE FLOOR FINISH. THE FLOOR SHALL BE BROUGHT TO A TRUE AND EVEN SURFACE BY HAND FLOATING. CARE SHALL BE TAKEN THAT NO EXCESS WATER IS PRESENT DURING FINISHING.

FINISH PREP

CLEAN INTERIOR SURFACES OF THE POOL OF DUST, OIL, PAINT, OR OTHER LOOSE MATERIAL BEFORE APPLICATION OF FINISH COATS.

PROTECTION

NO PLASTER COAT SHALL BE APPLIED DURING RAIN OR HIGH WIND AND ANY SUCH MATERIAL THAT HAS BEEN NEWLY PLACE SHALL BE PROTECTED BY CANVAS OR OTHER COVERING UNTIL THE SURFACE HAS SET.

FILL POOL

AFTER THE FINISH COAT HAS DRIED SUFFICIENTLY, THE POOL SHALL BE GRADUALLY FILLED WITH WATER, FLOWING CONTINUOUSLY TO ELIMINATE DIRT RINGS. DURING EXTREMELY HOT WEATHER, THE POOL WALLS SHALL BE KEPT CONTINUOUSLY WET WHILE THE POOL IS FILLING.

TILE

ONE ROW OF 6" CERAMIC TILE, OR MULTIPLE ROWS EQUALING A MINIMUM HEIGHT OF 6", SHALL BE INSTALLED ON THE POOL WALL AT THE OPEN GUTTER BACKSPLASH.

DEPTH MARKERS

PERMANENT DEPTH MARKERS SHALL BE PROVIDED ON THE POOL DECK AND WALLS AT CHANGE IN DEPTH AS SHOWN ON THE DRAWINGS. DEPTH SHALL BE IN FEET-INCHES AND PLAINLY CONSPICUOUSLY MARKED AT OR ABOVE THE WATERLINE ON THE VERTICAL POOL WALL AND ON TOP OF THE COPING OR DECK. MARKERS IN DECK SHALL BE POSITIONED TO BE READ WHILE STANDING FACING THE WATER. MARKERS SHALL BE WITHIN 18" OF THE WATERS EDGE. MARKERS SHALL BE SLIP-RESISTING. MARKERS SHALL BE INSTALLED AT THE MAXIMUM AND MINIMUM WATER DEPTH AND AT ALL SLOPE CHANGES. MARKERS SHALL BE INSTALLED AT INTERMEDIATE INCREMENTS OF WATER DEPTH NOT TO EXCEED 2', NOR SPACED AT DISTANCES GREATER THAN 25' INTERVALS. MARKERS SHALL BE ARRANGED UNIFORMLY ON BOTH SIDES AND ENDS OF POOL. MARKERS SHALL HAVE A 4" MINIMUM HEIGHT. NUMBERS SHALL BE OF CONTRASTING COLOR TO THE BACKGROUND ON WHICH THEY ARE APPLIED AND COLOR SHALL BE OF A PERMANENT NATURE.

POOL FILL

POOL AUTOMATIC FILLER SHALL BE INCLUDED WITH THE PROPOSED COLLECTOR TANK. GENERAL CONTRACTOR TO PROVIDE 1" DOMESTIC WATER EXTENSION TO COLLECTOR TANK.

POOL PIPING

PIPING AND FITTINGS USED IN VACUUM LINES, RECALCULATING LINES AND DRAIN LINES FOR THE POOL SHALL BE SCHEDULE 40 PVC APPROVED BY THE NATIONAL SANITATION FOUNDATION FOR POTABLE WATER SERVICE (NSF 60).

FILTER PLANT

FURNISH AND INSTALL THE COMPLETE FILTER PLANT CONSISTING OF COMPLETE FILTER TANK, FILTER MEDIA,CIRCULATING PUMP AND MOTOR, DISINFECTING MEDIA, FACE PIPING, NECESSARY GAUGES, VALVES, AND ALL OTHER APPURTENANCES AND DEVICES NECESSARY FOR A COMPLETE SYSTEM. THE FILTRATION SYSTEM SHALL BE OF THE SAND TYPE TO BE TIED INTO A BACKWASH LINE. THE FILTRATION SYSTEM SHALLBE CAPABLE OF A COMPLETE WATER VOLUME TURNOVER IN 6 HOURS OR LESS OR BETTER AS REQUIRED BY LOCAL CODES.

PUMP

THE POOL PUMP SHALL BE OF CENTRIFUGAL, END SUCTION, TOP DISCHARGE, SELF PRIMING TYPE. THE PUMP SHALL HAVE MECHANICAL SEALS. PUMP SIZING AS PER PLANS. THE MOTOR FRAME SHALL BE NAME TYPE C WITH DRIP PROOF ENCLOSURE FOR CLOSE COUPLED MOUNTING DIRECTLY TO THE PUMP. THIS STARTER SHALL BE PROPERLY SIZED AND SHALL BE OF MAGNETIC, FULL VOLTAGE, SINGLE SPEED, NON-REVERSING TYPE WITH PUSH BUTTON CONTROL. THE STARTER SHALL PROVIDE BOTH LOW VOLTAGE AND OVERLOAD PROTECTION FOR EACH PHASE. THE STARTER SHALL BE INSTALLED BY THE ELECTRICAL CONTRACTOR. THE PUMP MUST BE EQUIPPED WITH A BOLT-ON HAIR AND LINT STRAINER THAT COMPLIES WITH THE SPECIFICATIONS THAT FOLLOW. ISOLATION VALVES MUST BE INSTALLED TO ALLOW THE STRAINER TO BE OPENED WITHOUT LOSING PRIME TO THE PUMP.

VALVES

VALVES FOR POOL PIPING SHALL BE OF THE BALL OR BUTTERFLY TYPE SUITABLE FOR 150 PSI WORKING WATER PRESSURE AND SUITED TO THE PIPING MATERIAL IN WHICH IT IS INSTALLED. ALL VALVES SHALL BE TAGGED WITH PERMANENT NUMBERED IDENTIFICATION TAGS THAT RELATE TO OPERATING INSTRUCTIONS.

FINISH COAT

POOL FLOORS AND WALLS SHALL BE WHITE OR PASTEL IN COLOR AND SHALL HAVE CHARACTERISTICS OF REFLECTING RATHER THAN ABSORBING LIGHT. THE FINISH COATING SHALL HAVE A DRY LIGHTNESS LEVEL (CIE L VALUE) OF 80.0 OR GREATER AND A WET LUMINOUS REFLECTENCE VALUE (CIE Y VALUE) OF 50.0 OR GREATER, AS DETERMINED BY TEST RESULTS PROVIDED BY THE MANUFACTURER IN ACCORDANCE WITH ASTM D 4086, ASTM E 1477, AND ASTM E 1347.

MAIN DRAINS

THE MAIN DRAINS SHALL BE PLACED IN THE DEEPEST PART OF THE POOL. THE DRAIN SHALL BE CYCOLAC CONSTRUCTION, WITH A HYDROSTATIC RELIEF VALVE BUILT IN WITH AN ANSI/APSP 16-2011 CERTIFICATION.

INLETS

THE INLET FITTINGS SHALL BE OF CYCOLAC CONSTRUCTION, WITH ADJUSTABLE DIRECTION NOZZLE.

UNDER WATER LIGHTING

THE POOL LIGHTS SHALL BE FOR UNDER WATER OPERATION ONLY AND SHALL BE LED RETURN INLET FITTING TYPE A MINIMUM 18" BELOW THE STATIC WATER ELEVATION. THE LENS SHALL BE SEALED WITH HEAT AND AGE RESISTING SYNTHETIC RUBBER GASKETS. ALL LIGHTING SHALL BE 190 W INCANDESCENT EQUIVALENT LED FIXTURES.

JUNCTION BOX SHALL BE OF THE INVERTED COVER DESIGN ALL BRASS CONSTRUCTION. THE TRANSFORMER SHALL BE 120 V TO 12V WITH 13 AND 14 VOLT TAPS. THE TRANSFORMERS SHALL BE UL APPROVED FOR UNDERWATER LIGHTS. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF N.E.C. ARTICLE 680. LIGHTING LEVEL TO BE MINIMUM OF 0.5 WATTS PER SQUARE FOOT OF POOL SURFACE AREA. FINAL LOCATION OF JUNCTION BOXES SHALL BE COORDINATED WITH THE LANDSCAPE ARCHITECT.

CHEMICAL FEED

ALL OUTDOOR POOLS SHALL BE TREATED WITH CHLORINE. THE BROMINE/CHLORINE FEED APPARATUS SHALL BE AS LISTED IN THE EQUIPMENT SCHEDULE AND SHALL BE INSTALLED ON A BYPASS LOOP WITH FLOW ADJUSTMENT PERFORMED AUTOMATICALLY BY A SOLENOID VALVE OPERATED BY THE CHEMICAL CONTROLLER.

TEST EQUIPMENT

A COMPLETE TEXT KIT SHALL BE FURNISHED TO TEST BROMINE/CHLORINE RESIDUAL (SEE CHEMICAL FEED SECTION), PH LEVEL, CYANURIC ACID LEVEL, CALCIUM HARDNESS AND TOTAL ALKALINITY. TEST KIT SHALL USE DPD METHOD AND ALLOW FOR FREE AND AVAILABLE CHLORINE TESTING.

TEST

THIS CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, INSTRUMENTS OR OTHER SERVICES REQUIRED FOR THE COMPLETE AND SATISFACTORY TEST AND ADJUSTMENT OF ALL SWIMMING POOL EQUIPMENT. TEST ALL PIPING WITH WATER PRESSURE 24 HOURS, REPAIR ANY LEAKS, TEST AGAIN BEFORE BURIAL OR CONCEALMENT.

CERTIFICATE OF INSPECTION

THE CONTRACTOR SHALL DELIVER TO THE ENGINEER A CERTIFICATE OF INSPECTION AND ACCEPTANCE OF THE WORK BY THE APPROPRIATE AUTHORITIES FOR THE SYSTEMS INVOLVED.

RULE SIGN

THE OWNER SHALL PROVIDE A CUSTOM POOL RULES SIGN TO BE POSTED WITHIN THE POOL AREA IN ACCORDANCE WITH FLORIDA BUILDING CODE FBC 454.

INSTRUCTIONS TO OWNER

THIS CONTRACTOR SHALL SUPPLY THREE COPIES OF PRINTED INSTRUCTIONS FOR THE OPERATION OF THE SWIMMING POOL EQUIPMENT. TWO COPIES SHALL BE GIVEN TO THE OWNER FOR HIS USE IN THE MAINTENANCE MANUAL AND THE OTHER COPY SHALL BE POSTED IN A CONSPICUOUS LOCATION IN THE FILTER ROOM. A QUALIFIED REPRESENTATIVE OF THE POOL CONTRACTOR SHALL VISIT EQUIPMENT INTO OPERATION, AND HALL ASSIST AND INSTRUCT THE OWNER IN THE OPERATION OF ALL SUCH EQUIPMENT.

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CROSS GATES THERAPY POOLS

200 N. MILITARY RD.
SLIDELL, LA 70461

No.	Description	Date
	Issued for Permit	8.22.2024

SEAL

STATE OF LOUISIANA
8/22/2024
RYAN C. DUNLEVY
License No. 42707
PROFESSIONAL ENGINEER
CIVIL ENGINEERING

CROSS GATES THERAPY POOLS

GENERAL NOTES

Project number	SE-24-845
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Drawn by	RD
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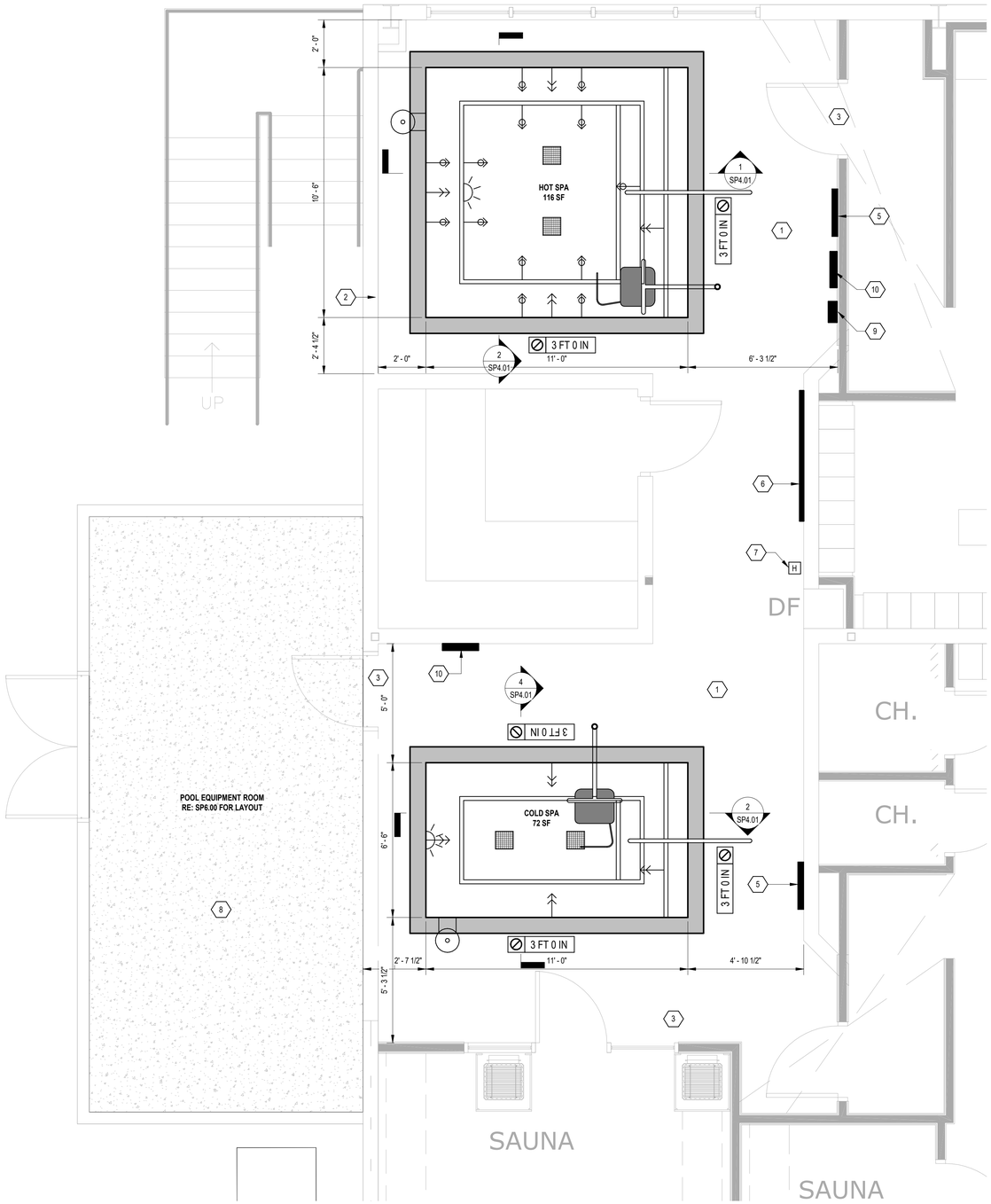

1 THERAPY POOL PLAN
3/8" = 1'-0"

GENERAL POOL NOTES:

SWIMMING POOL DECK FOR THIS PROJECT SHALL BE SLIP-RESISTANT AND EASILY CLEANABLE. REFER TO INTERIOR DESIGN DRAWINGS FOR SPECIFICATIONS.

ALL POOL DECKS BELOW SHALL SLOPE A MINIMUM OF 2% MAXIMUM AWAY FROM THE POOL IN ALL DIRECTIONS TO PREVENT STANDING WATER. FURNISH DECK DRAINAGE DESIGNED BY OTHERS.

WALKWAYS SHALL BE PROVIDED TO ALL ACCESSIBLE SANITARY FACILITIES.

MAXIMUM VERTICAL CLEARANCE OF 7'-0" REQUIRED FOR ALL PORTIONS OF THE SWIMMING POOL DECK.

REFER TO PLUMBING DRAWINGS FOR DECK DRAINAGE.

LAYOUT SHOWN FOR GENERAL DESIGN INTENT AND CODE COMPLIANCE ONLY. CONTRACTOR SHALL COORDINATE THE INTERIOR SPA DRAWINGS WITH ALL OTHER DRAWINGS.

SPA RULES SIGN SHALL BE PROVIDED IN THE IMMEDIATE POOL VICINITY.

EDGE OF SWIMMING POOL DECK SHALL BE TAPERED OR ROUNDED TO PREVENT SHARP CORNERS.

HOSE BIBS WITH VACUUM BREAKERS SHALL BE PROVIDED AROUND THE DECK AREA FOR PROPER WASHING AND GENERAL CLEANING OF THE SWIMMING POOL DECK AREA.

ALL JOINTS IN THE SWIMMING POOL DECK SHALL BE WATER-TIGHT.

A COMPLETELY EQUIPPED FIRST AID KIT SHALL BE PROVIDED WITH THE POOL AREA, TO BE CLEARLY IDENTIFIED AND ACCESSIBLE AT ALL TIMES.

LIGHTING NOTES:

LIGHTING SHALL BE PROVIDED WITH A MINIMUM 10 FOOTCANDLES (100 LUX) OF ILLUMINATION AT THE POOL WATER SURFACE AND POOL WET DECK SURFACE.

EQUIPMENT NOTES:

THE EQUIPMENT AREA SHALL BE CONSTRUCTED OF CONCRETE OR NON-ABSORBANT MATERIALS. THE EQUIPMENT ROOM SHALL HAVE A SLIP-RESISTANT FINISH AND MAINTAIN POSITIVE DRAINAGE TO A FLOOR DRAIN.

EQUIPMENT ROOM SHALL BE ILLUMINATED WITH A MINIMUM OF 30 FOOT CANDLES OF ILLUMINATION AT THE FLOOR LEVEL.

MINIMUM OF 1 HOSE BIB REQUIRED IN ALL POOL EQUIPMENT ROOMS FOR CLEANING/MAINTENANCE.

KEYNOTE LEGEND

#	
1	SLIP RESISTANT TILE FLOORING SLOPED TO DRAINAGE AT 2% MAXIMUM. REF: ID PLANS.
2	WALL ENCLOSURE TO FULLY ENCLOSE SPA AREA. REF: ARCH.
3	DOOR WITH SELF-CLOSING AND SELF-LATCHING MECHANISM.
4	EMERGENCY STOP BUTTON. POOL CONTRACTOR TO PROVIDE AND GENERAL CONTRACTOR TO WIRE AND TERMINATE.
5	SPA POOL RULES SIGN PROVIDED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR.
6	SPA POOL SAFETY EQUIPMENT MOUNTING LOCATION. REFER TO SP1.00 FOR SCHEDULE OF EQUIPMENT.
7	WALL HYDRANT FOR DECK CLEANING.
8	POOL EQUIPMENT ROOM, REFER TO SP6.00 FOR DETAILED LAYOUT.
9	SPA THERAPY JET PUMP ACTIVATOR BUTTON WITH 15-MINUTE TIMER ON THERAPY PUMP CIRCUIT. (1 HOT SPA)
10	DIGITAL OR ANALOG CLOCK.

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CROSS GATES THERAPY POOLS

THERAPY POOLS SITE LAYOUT

Project number	SE-24-845
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SP2.00

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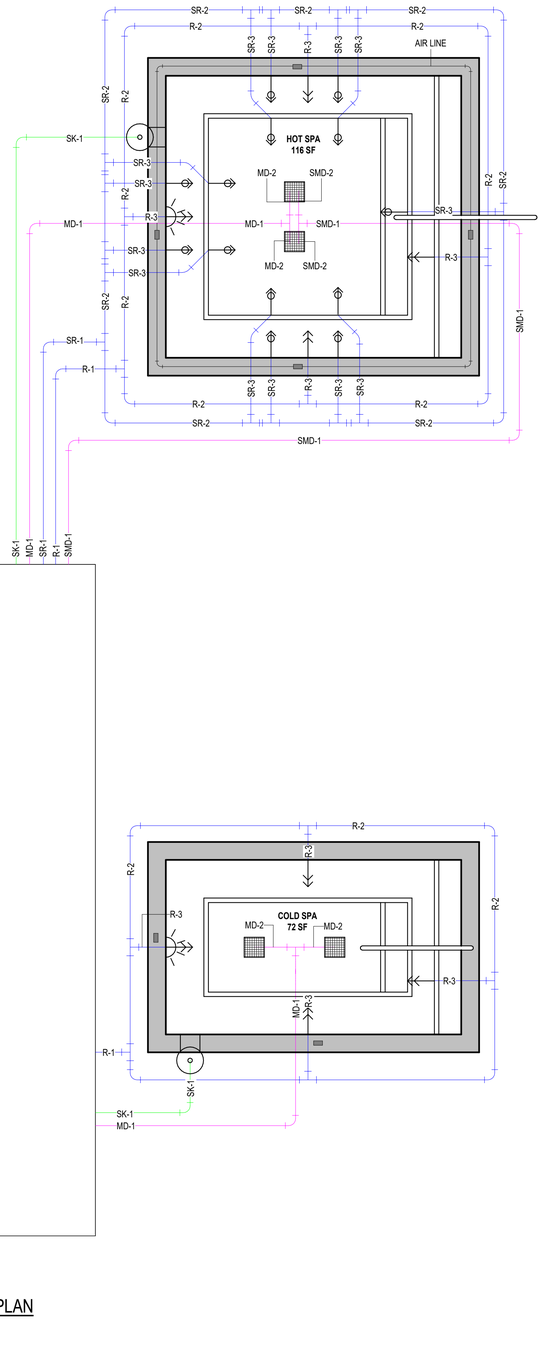

POOL EQUIPMENT ROOM
RE: SP6.00 FOR LAYOUT

1 THERAPY POOL PLUMBING PLAN
3/8" = 1'-0"

SPA SIZING		
HOT PLUNGE BATHER LOAD	14	
COLD PLUNGE BATHER LOAD	9	

HOT PLUNGE SYSTEM DATA		
SPA AREA	116	SF
TOTAL WATER VOLUME	1829	GALLONS
TURNOVER TIME	0.50	HR
FLOWRATE AT OPERATING POINT	61	GPM
TOTAL DYNAMIC HEAD AT OPERATING POINT	31	FT

HOT SPA RECIRCULATION SYSTEM PLUMBING SCHEDULE

MARK	DESCRIPTION	DIAMETER (IN)	FLOWRATE (GPM)	VELOCITY (FPS)	APPROXIMATE LENGTH (FT)
SK-1	TRUNK LINE TO PUMP	2	37	3.50	21
R-1	TRUNK LINE FROM PUMP	2	61	5.83	10
R-2	LOOP FROM R-1 TO R-3	1 1/2	30.5	4.81	56
R-3	BRANCH FROM R-2 LOOP TO WALL/FLOOR INLET	1 1/2	15.2	2.40	6
MD-1	TRUNK LINE TO PUMP	2	61	5.83	22
MD-2	BRANCH FROM MAIN DRAIN TO MD-1	2	30.5	2.92	3

HOT SPA JET SYSTEM DATA		
FLOWRATE	195	GPM
TOTAL DYNAMIC HEAD AT OPERATING POINT	37	FT

HOT SPA JET SYSTEM PLUMBING SCHEDULE

MARK	DESCRIPTION	DIAMETER (IN)	FLOWRATE (GPM)	VELOCITY (FPS)	APPROXIMATE LENGTH (FT)
SMD-1	TRUNK LINE TO PUMP	4	195	4.92	30
SMD-1	BRANCH FROM MAIN DRAIN TO SMD-1	4	97.5	2.46	3
SR-1	TRUNK LINE FROM PUMP	3	195	8.47	11
SR-2	LOOP FROM FR-1 TO FR-3	2 1/2	97.5	6.54	61
SR-3	BRANCH FROM FR-2 TO SPA JET	1 1/2	15	2.37	40

COLD PLUNGE SYSTEM DATA		
SPA AREA	72	SF
TOTAL WATER VOLUME	988	GALLONS
TURNOVER TIME	0.30	HR
FLOWRATE AT OPERATING POINT	55	GPM
TOTAL DYNAMIC HEAD AT OPERATING POINT	32	FT

COLD SPA RECIRCULATION SYSTEM PLUMBING SCHEDULE

MARK	DESCRIPTION	DIAMETER (IN)	FLOWRATE (GPM)	VELOCITY (FPS)	APPROXIMATE LENGTH (FT)
SK-1	TRUNK LINE TO PUMP	2	33	3.15	6
R-1	TRUNK LINE FROM PUMP	2	55	5.25	2
R-2	LOOP FROM R-1 TO R-3	1 1/2	27.5	4.33	46
R-3	BRANCH FROM R-2 LOOP TO WALL/FLOOR INLET	1 1/2	13.7	2.16	6
MD-1	TRUNK LINE TO PUMP	2	55	5.25	18
MD-2	BRANCH FROM MAIN DRAIN TO MD-1	2	27.5	2.63	3

POOL GENERAL NOTES:

ELECTRICAL DISCONNECT SWITCH SHALL BE PROVIDED IN ACCORDANCE WITH 5.6.1. AND 5.6.1.1 OF ANSI/NSPI-2.

SWIMMING POOL HAS BEEN DESIGNED TO TURNOVER A MINIMUM OF ONCE EVERY 30 MINUTES.

ALL CIRCULATION SYSTEM PIPING SHALL BE SUBJECTED TO AN INDUCED STATIC HYDRAULIC PRESSURE TEST AT 25 PSI FOR 30 MINUTES. THIS TEST SHALL BE PERFORMED PRIOR TO DECK CONCRETE PLACEMENT AND SHALL BE MAINTAINED THROUGHOUT THE DECK POUR, WHERE APPLICABLE.

ALL PVC PIPING LAYOUTS ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL ENSURE GENERAL COMPLIANCE TO THESE DIAGRAMS; HOWEVER, PERMANENT PLACEMENT OF PIPING IN COORDINATION WITH ON-SITE CONDITIONS IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL SUBMIT FINAL PLUMBING LAYOUT TO ENGINEER PRIOR TO INSTALLATION OF PIPING.

CHEMICAL NOTES:

DISINFECTING AGENT FOR THE SPAS SHALL BE LIQUID CHLORINE

WATER QUALITY REQUIREMENTS:

THE CYANURIC ACID LEVEL IN ALL AQUATIC VENUES SHALL REMAIN AT OR BELOW 90 PPM. CYANURIC ACID SHOULD BE TESTED MONTHLY. IF THE TESTS INDICATE A CYANURIC ACID LEVEL GREATER THAN 90 PPM, THE SWIMMING POOL SHALL BE PARTIALLY DRAINED AND REFILLED WITH FRESH WATER UNTIL THE CONCENTRATION IS TESTED BELOW THE 90 PPM LIMIT.

pH SHALL BE MAINTAINED BETWEEN 7.2 AND 7.8.

FREE AVAILABLE CHLORINE CONCENTRATIONS (FAC) SHALL BE MAINTAINED AS FOLLOWS AT ALL TIMES:

AQUATIC VENUES NOT USING CYANURIC ACID FOR STABILIZATION SHALL MAINTAIN A MINIMUM FAC CONCENTRATION OF 1.0 PPM.

AQUATIC VENUES USING CYANURIC ACID FOR STABILIZATION SHALL MAINTAIN A MINIMUM FAC CONCENTRATION OF 2.0 PPM.

SPAS SHALL MAINTAIN A MINIMUM FAC CONCENTRATION OF 3.0 PPM.

MAXIMUM FAC CONCENTRATIONS SHALL NOT EXCEED 10.0 PPM IN ANY AQUATIC VENUE UNDER ANY CIRCUMSTANCE.

TOTAL ALKALINITY AT ALL AQUATIC VENUES SHALL BE MAINTAINED IN THE RANGE OF 60 TO 180 PPM AT ALL TIMES.

METER NOTES:

FLOW METERS, ACCURATE FROM 1/2 TO 1 1/2 TIMES THE TOTAL FLOW RATE SHALL BE INSTALLED WITH THE APPROPRIATE MANUFACTURER RECOMMENDED PIPE RUNS ON THE INFLUENT AND EFFLUENT SIDE OF THE METER.

PRESSURE GAUGES SHALL BE INSTALLED BY THE POOL CONTRACTOR ON THE INFLUENT AND EFFLUENT LINE OF EACH FILTER OR PRESSURE GAUGES WITH CLEAN OPERATING PRESSURE AND BACKWASH LEVELS SHALL BE PROVIDED.

SPA THERAPY JET NOTES:

THE OPERATION OF THE HYDROTHERAPY JETS SHALL BE LIMITED BY A CYCLE TIMER HAVING A MAXIMUM SETTING OF 15 MINUTES. THE CYCLE TIMER SHALL BE LOCATED NOT LESS THAN 5 FEET AWAY, ADJACENT TO, AND WITHIN SIGHT OF THE SPA.

REFER TO THE SITE PLAN FOR SOFT-TOUCH ACTIVATOR LOCATION.

THE FOLLOWING IN BOLD SHALL BE POSTED AND VISIBLE AT ALL SPAS WITH AN EMERGENCY CUT OFF:

"ALARM INDICATES SPA PUMPS OFF. DO NOT USE SPA WHEN ALARM SOUNDS UNTIL ADVISED OTHERWISE"

SWIMMING POOL LEGEND

	1.90" O.D. 3-BEND HANDRAIL
	RECESSED AUTOMATIC SURFACE SKIMMER
	MAIN DRAIN
	WALL INLET
	SPA JET
	UNDERWATER LED POOL LIGHT
	2" X 4" HAYWARD DRAIN COVER FOR AIR LINE

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CROSS GATES THERAPY POOLS

200 N. MILITARY RD.
SLIDELL, LA 70461

No.	Description	Date
	Issued for Permit	8.22.2024

SEAL

STATE OF LOUISIANA
8/22/2024
RYAN C. DUNLEY
License No. 42707
PROFESSIONAL ENGINEER
CIVIL ENGINEERING

CROSS GATES THERAPY POOLS

INTERIOR SPA PLUMBING PLAN

Project number	SE-24-845
Date	8/13/24
Drawn by	RD
Checked by	RD

SP3.00

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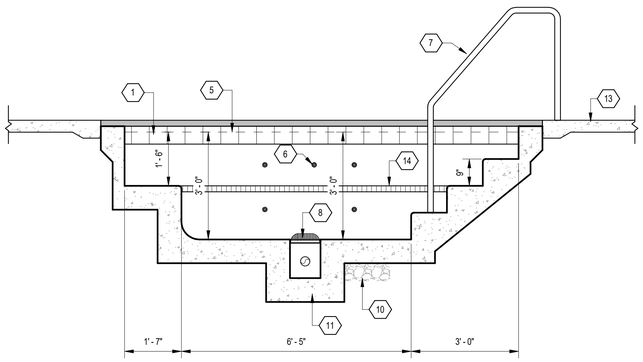
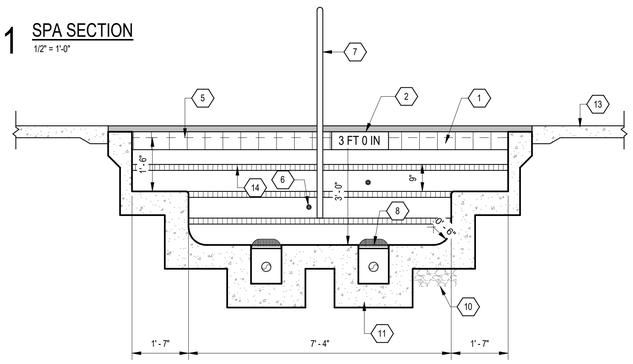
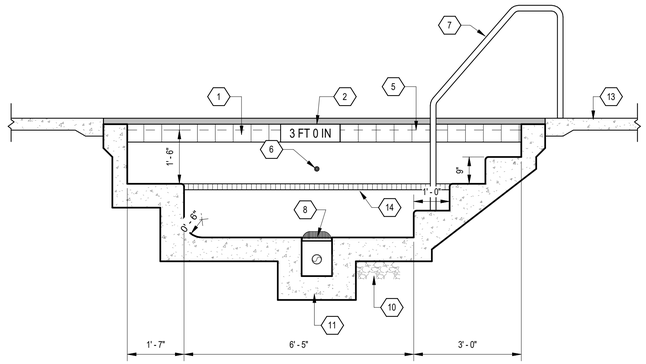


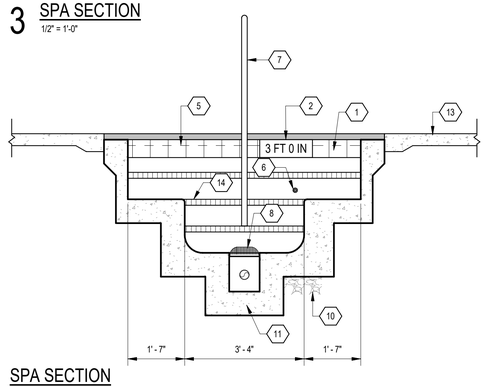
1 SPA SECTION
1/2" = 1'-0"



2 SPA SECTION
1/2" = 1'-0"



3 SPA SECTION
1/2" = 1'-0"



4 SPA SECTION
1/2" = 1'-0"

#	KEYNOTE LEGEND
1	6" GLAZED WATERLINE TILE.
2	DEPTH MARKER, POOL CONTRACTOR TO PLACE A CORRESPONDING DEPTH MARKER ON ADJACENT DECK FLOOR WITHIN 18" OF POOL EDGE.
3	RECESSED AUTOMATIC SURFACE SKIMMER.
4	SKIMMER EQUALIZER COVER PER EQUIPMENT SCHEDULE.
5	STATIC WATERLINE, 2" BELOW BOTTOM OF COPING.
6	3/4" ADJUSTABLE EYEBALL RETURN INLET FITTING OR THERAPY JET. REFER TO PLUMBING PLANS FOR LOCATIONS.
7	1.90" O.D. 3-BEND STAINLESS STEEL HANDRAIL BY S.R. SMITH OR EQUAL, TYPICAL.
8	ANSI/APSP 16 APPROVED MAIN DRAIN COVER WITH SUMP. CONTRACTOR TO PROVIDE PERMANENT DARK RING AROUND ALL MAIN DRAIN COVERS.
9	BULLNOSE COPING, TO BE SELECTED BY OWNER/LANDSCAPE ARCHITECT.
10	6" COMPACTED GRAVEL BASE OVER GEOTEXTILE FABRIC.
11	REINFORCED GUNITE SHELL. REFER TO STRUCTURAL SECTIONS FOR ADDITIONAL INFORMATION.
12	UNDERWATER LED POOL LIGHT (NICHELESS)
13	ADJACENT SLIP-RESISTANT CONCRETE DECK BY OTHERS.
14	2" SLIP RESISTANT AND DARK CONTRASTING TILE BAND ON VERTICAL AND HORIZONTAL PLANE OF TANNING LEDGES, BENCHES AND STEPS. PROVIDE MINIMUM 1" RADII AT EDGE.

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CROSS GATES THERAPY POOLS

200 N. MILITARY RD.
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CROSS GATES THERAPY POOLS

INTERIOR SPA SECTION VIEWS

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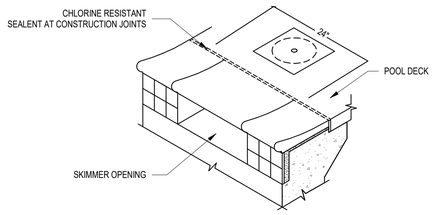

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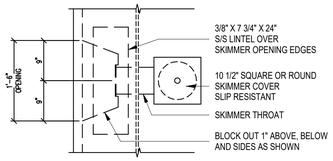
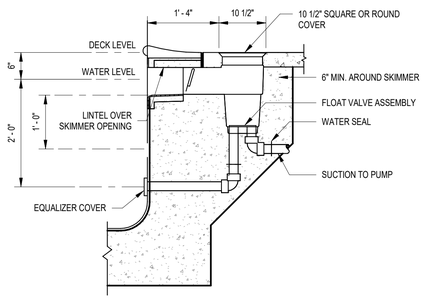
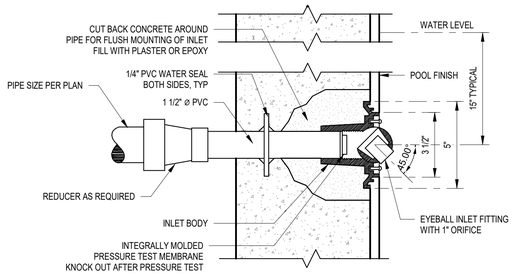


PLAN VIEW

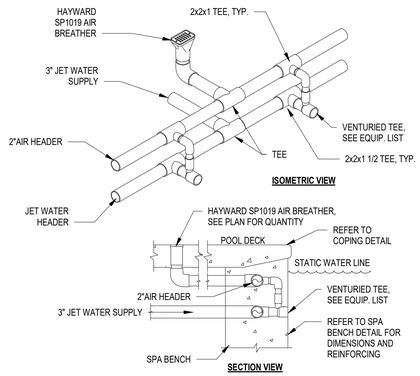


SECTION

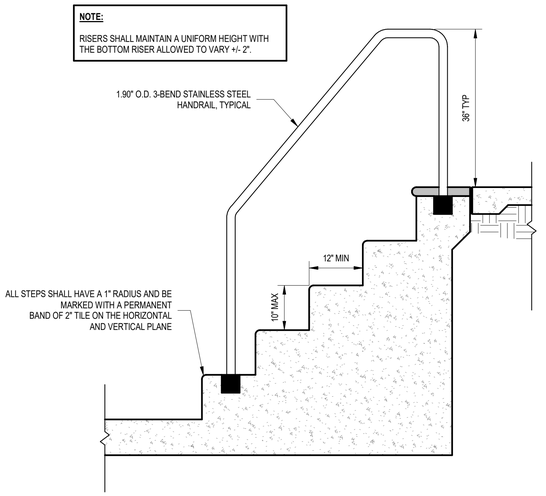
1 TYPICAL SPA SKIMMER
3/4" = 1'-0"



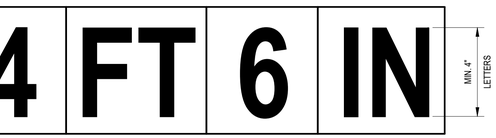
2 TYPICAL WALL INLET
3" = 1'-0"



3 TYPICAL SPA JET DETAIL
3/4" = 1'-0"



4 TYPICAL POOL STEPS DETAIL
3/4" = 1'-0"



DEPTH MARKERS

NO DIVING SYMBOL

DEPTH MARKER REQUIREMENTS:

DEPTH MARKERS SHALL DISPLAY FEET AND INCHES

"NO DIVING" SYMBOL MARKER SHALL BE LOCATED AT EACH DECK DEPTH MARKER

MARKING GENERAL NOTES:

DEPTH MARKERS SHALL BE PLACED ON THE DECK WITH SPACING NOT TO EXCEED 25'-0", POINTS OF CHANGE IN SLOPE.

ALL DECK MARKERS SHALL HAVE A CORRESPONDING MARKER LOCATED AT THE WATERLINE TILE.

DECK TILES TO BE PLACED WITHIN 18" OF THE POOL WATER SURFACE.

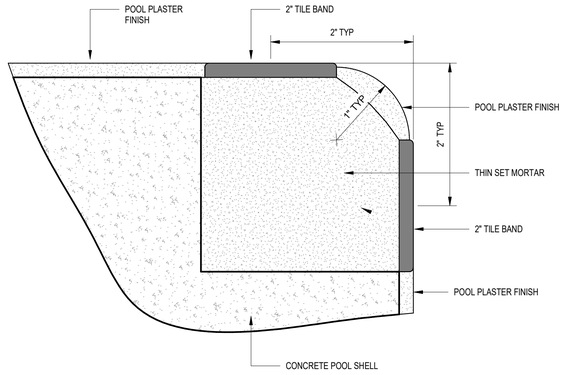
DECK TILES TO BE POSITIONED TO BE READ WHILE STANDING ON THE DECK FACING THE WATER.

DEPTH MARKERS TO BE IN IMPERIAL UNITS.

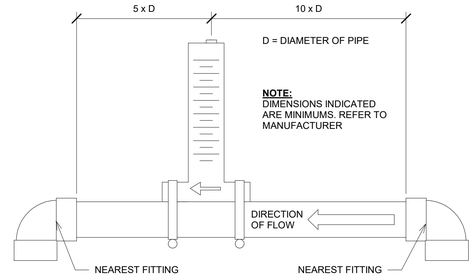
NUMERICAL COLOR OF LETTERING TO BE CONTRASTING TEXT.

"NO DIVING" INTERNATIONAL SYMBOL MARKER TO BE PLACED AT ALL LOCATIONS OF DECK DEPTH MARKERS.

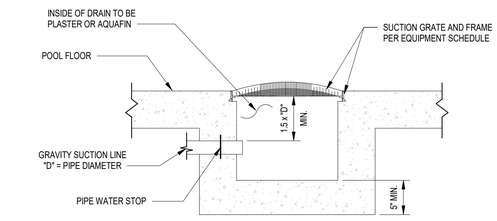
5 DEPTH MARKER DETAIL
3/4" = 1'-0"



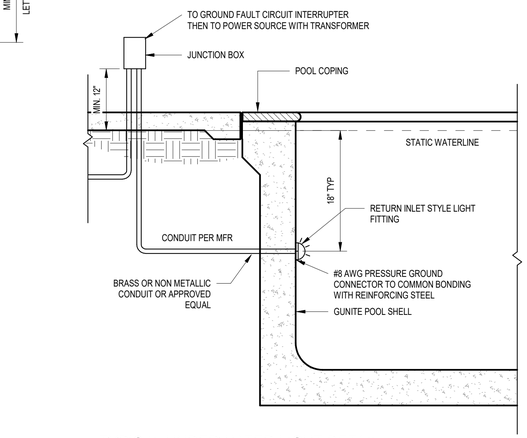
6 EDGE OF STEPS, TANNING LEDGE, AND BENCH TILE DETAIL
1" = 1'-0"



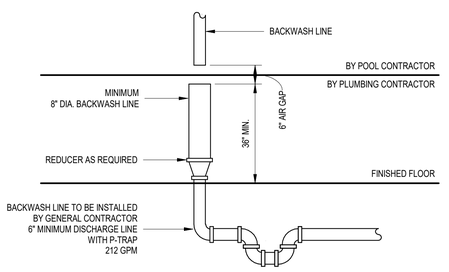
7 IMPACT FLOW METER
3/4" = 1'-0"



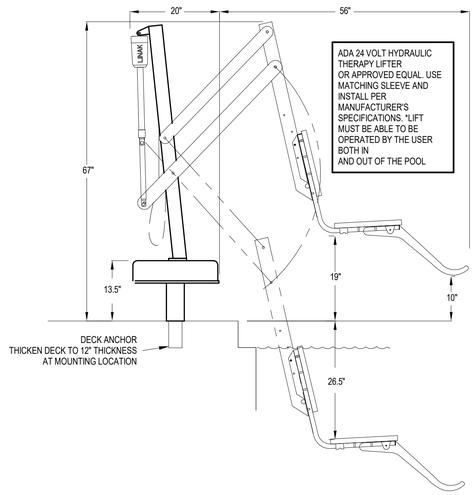
8 TYPICAL MAIN DRAIN
1" = 1'-0"



9 TYPICAL UNDERWATER LIGHT DETAIL
3/4" = 1'-0"



10 TYPICAL BACKWASH STAND PIPE DETAIL
1" = 1'-0"



11 TYPICAL ADA CHAIRLIFT
3/4" = 1'-0"

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CROSS GATES THERAPY POOLS

200 N. MILITARY RD.
SLIDELL, LA 70461

No.	Description	Date
	Issued for Permit	8.22.2024

SEAL

STATE OF LOUISIANA
8/22/2024
RYAN C. DUNLEVY
License No. 42707
PROFESSIONAL ENGINEER
CIVIL ENGINEERING

CROSS GATES THERAPY POOLS

SWIMMING POOL DETAILS

Project number	SE-24-845
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Drawn by	RD
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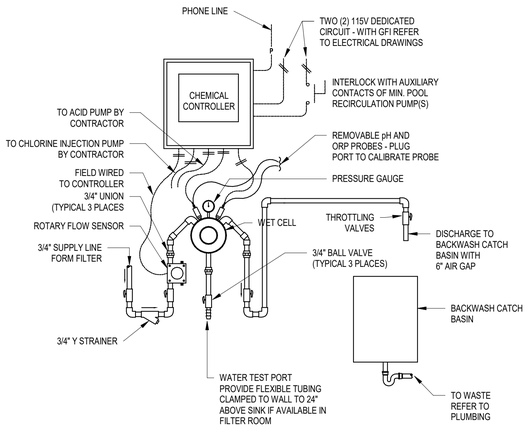
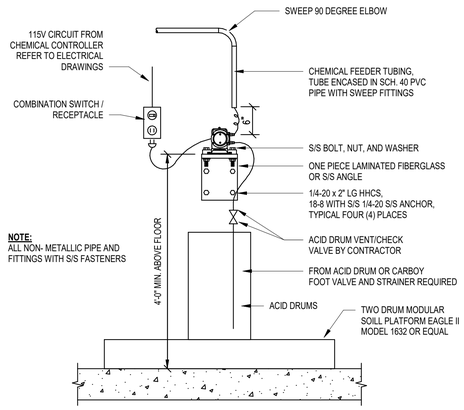
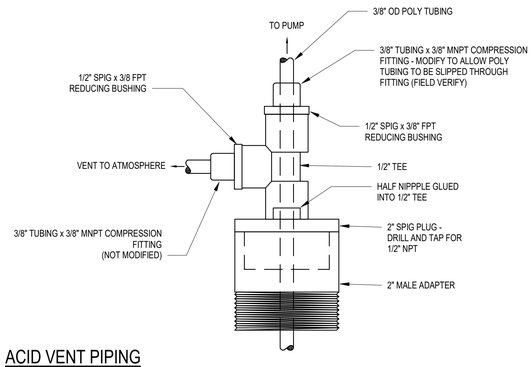


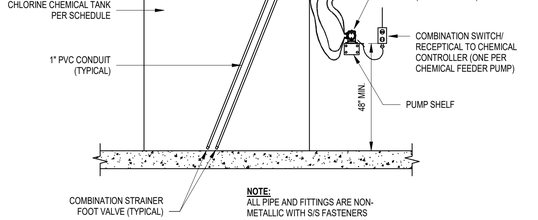
1 CHEMICAL CONTROLLER
1/2" = 1'-0"



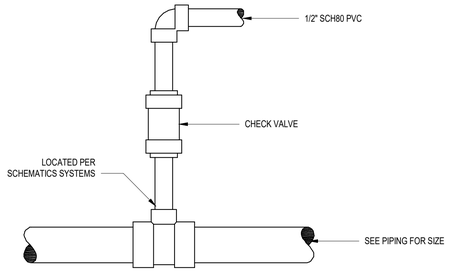
2 ACID PUMP
3/4" = 1'-0"



3 ACID VENT PIPING
3/4" = 1'-0"



4 CHEMICAL PUMP
3/4" = 1'-0"



5 CHEMICAL TAP & VALVE
1 1/2" = 1'-0"

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CROSS GATES THERAPY POOLS

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SWIMMING POOL DETAILS

Project number	SE-24-845
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NOTES:

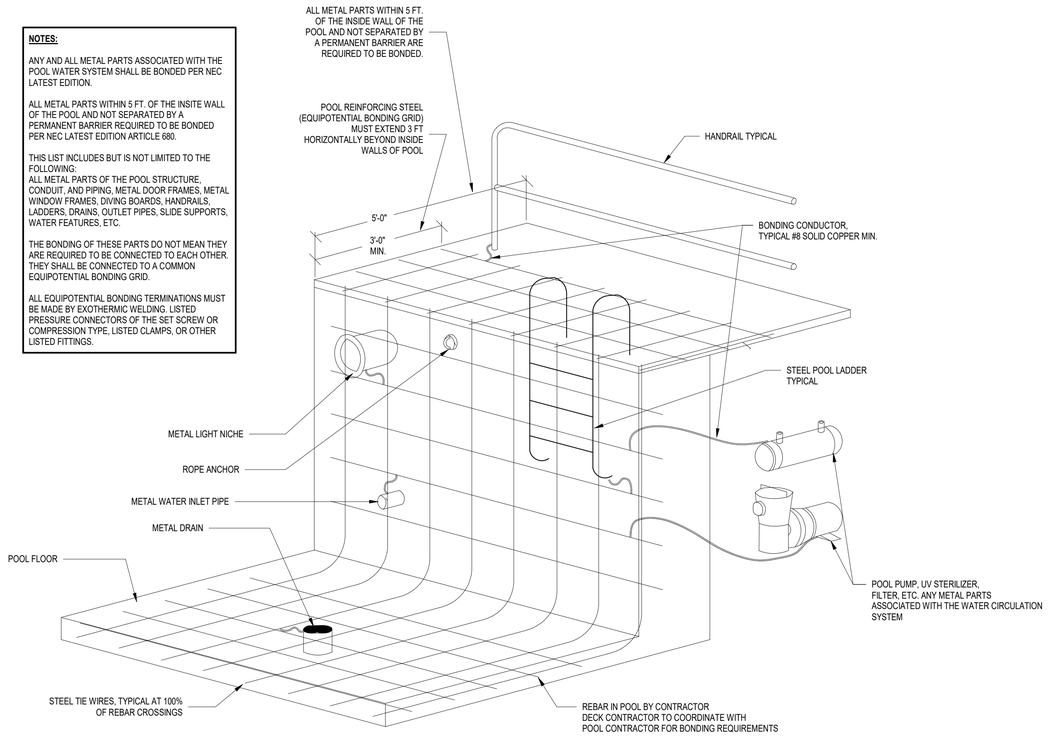
ANY AND ALL METAL PARTS ASSOCIATED WITH THE POOL WATER SYSTEM SHALL BE BONDED PER NEC LATEST EDITION.

ALL METAL PARTS WITHIN 5 FT. OF THE INSITE WALL OF THE POOL AND NOT SEPARATED BY A PERMANENT BARRIER REQUIRED TO BE BONDED PER NEC LATEST EDITION ARTICLE 680.

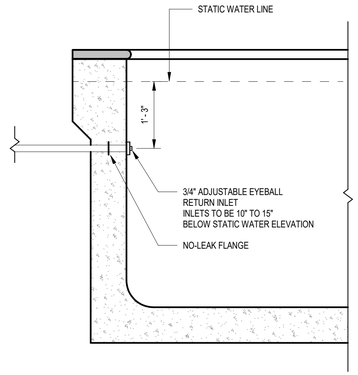
THIS LIST INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
ALL METAL PARTS OF THE POOL STRUCTURE, CONDUIT, AND PIPING, METAL DOOR FRAMES, METAL WINDOW FRAMES, DIVING BOARDS, HANDRAILS, LADDERS, DRAINS, OUTLET PIPES, SLIDE SUPPORTS, WATER FEATURES, ETC.

THE BONDING OF THESE PARTS DO NOT MEAN THEY ARE REQUIRED TO BE CONNECTED TO EACH OTHER. THEY SHALL BE CONNECTED TO A COMMON EQUIPOTENTIAL BONDING GRID.

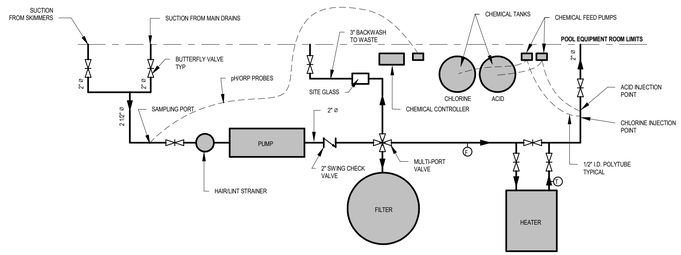
ALL EQUIPOTENTIAL BONDING TERMINATIONS MUST BE MADE BY EXOTHERMIC WELDING. LISTED PRESSURE CONNECTORS OF THE SET SCREW OR COMPRESSION TYPE, LISTED CLAMPS, OR OTHER LISTED FITTINGS.



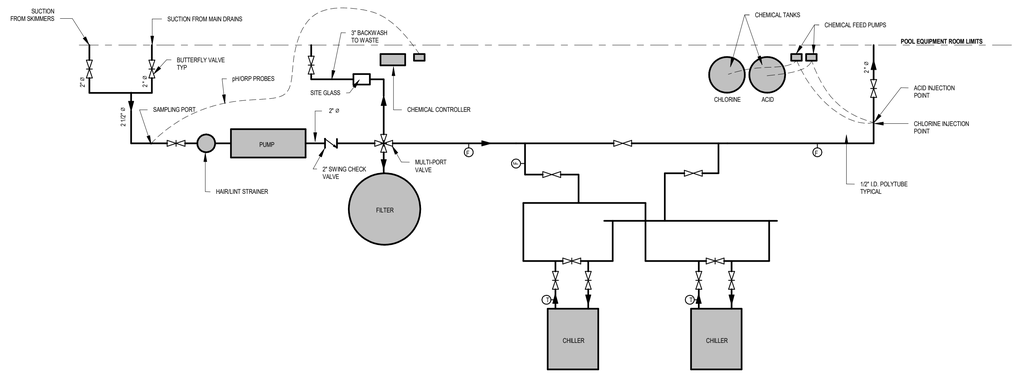
1 TYPICAL POOL BONDING DETAIL
3/4" = 1'-0"



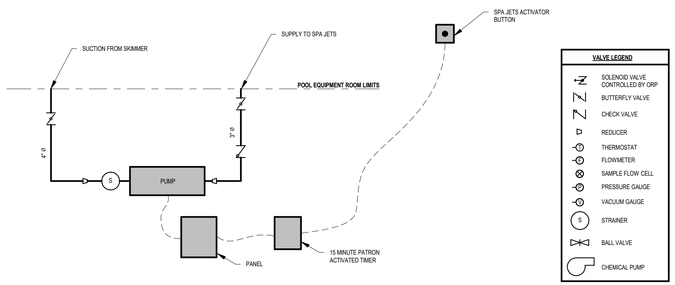
2 TYPICAL RETURN INLET DETAIL
3/4" = 1'-0"



HOT SPA RECIRCULATION SCHEMATIC



COLD SPA RECIRCULATION SCHEMATIC



HOT SPA JETS SCHEMATIC

VALVE LEGEND

- SOLENOID VALVE CONTROLLED BY ORP
- BUTTERFLY VALVE
- CHECK VALVE
- REDUCER
- THERMOSTAT
- FLOWMETER
- SAMPLE FLOW CELL
- PRESSURE GAUGE
- VACUUM GAUGE
- STRAINER
- BALL VALVE
- CHEMICAL PUMP

3 SYSTEM SCHEMATICS
1/2" = 1'-0"

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CROSS GATES THERAPY POOLS

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CROSS GATES THERAPY POOLS

SWIMMING POOL DETAILS

Project number	SE-24-845
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REINFORCED GUNITE SCHEDULE					
POOL MAXIMUM DEPTH "D"	POOL WALL THICKNESS "Tw"	POOL FLOOR THICKNESS "Tf" MIN.	POOL WALL REINFORCEMENT	POOL FLOOR REINFORCEMENT	MINIMUM REINFORCEMENT LAP
3'-0"	8"	8"	#4 BARS @ 10" O.C. E.W. CENTERED	#4 BARS @ 10" O.C. E.W. CENTERED	24"

TENSION DEVELOPMENT/SPLICE LENGTHS													
BAR SIZE	BAR GRADE	f'c = 3,000 psi				f'c = 4,000 psi				f'c = 5,000 psi			
		CLASS A (1.0*Ld)		CLASS B (1.3*Ld)		CLASS A (1.0*Ld)		CLASS B (1.3*Ld)		CLASS A (1.0*Ld)		CLASS B (1.3*Ld)	
		CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	60	25	17	33	22	22	15	28	19	20	13	25	17
#4	60	33	22	43	29	29	19	37	25	26	17	34	23
#5	60	42	28	54	36	36	24	47	31	32	26	42	28
#6	60	50	33	65	43	43	29	56	37	39	26	50	34
#7	60	72	48	94	63	63	42	81	54	56	38	73	49
#8	60	83	55	107	73	72	48	93	62	64	43	83	56
#9	60	93	62	121	81	81	54	105	70	72	48	94	63
#10	60	105	70	136	91	91	61	118	79	81	54	106	71
#11	60	116	78	151	101	101	67	131	87	90	60	117	78

NOTES:

1. THIS TABLE SHALL ONLY BE USED FOR DEVELOPMENT AND SPLICE LENGTHS FOR CONCRETE SLABS ONLY.
2. ALL DEVELOPMENT/SPLICE LENGTHS ARE IN INCHES.
3. Ld = TENSION DEVELOPMENT LENGTH PER CHAPTER 25 OF ACI 318.
4. CASE 1 SHALL APPLY WHEN THE CONCRETE COVER > 2*db
5. CASE 2 SHALL APPLY WHEN THE CONCRETE COVER > 1.5*db AND CENTER TO CENTER BAR SPACING IS > 4*db
6. FOR BARS WITH MORE THAN 12" OF FRESH CONCRETE PLACED BELOW THE DEVELOPMENT LENGTH OR SPLICE, DEVELOPMENT LENGTH/SPLICE LENGTHS TABULATED ABOVE SHALL BE MULTIPLIED BY 1.3.
7. WHEN LAP SPLICING BARS OF DIFFERENT SIZES, THE LAP LENGTHS DETERMINED BY THE SMALL BAR, BUT SHALL NOT BE LESS THAN THE CLASS A SPLICE LENGTH OF THE LARGER BAR.
8. FOR EPOXY COATED BARS, MULTIPLY DEVELOPMENT/SPLICE LENGTH BY 1.5 (THE PRODUCT OF THE TOP BAR MULTIPLIER AND THE EPOXY COATED BAR MULTIPLIER NOT BE MORE THAN 1.7).

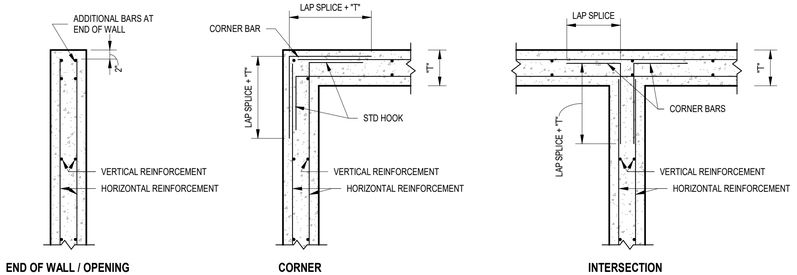
1 DEVELOPMENT LENGTH SCHEDULE
3/4" = 1'-0"

NOTES:

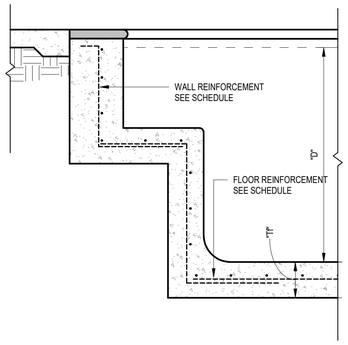
AL HOOKS SHALL BE STD 90 DEGREE HOOKS.

CORNER BARS TO BE THE SAME SIZE AND SPACING AS HORIZONTAL BARS.

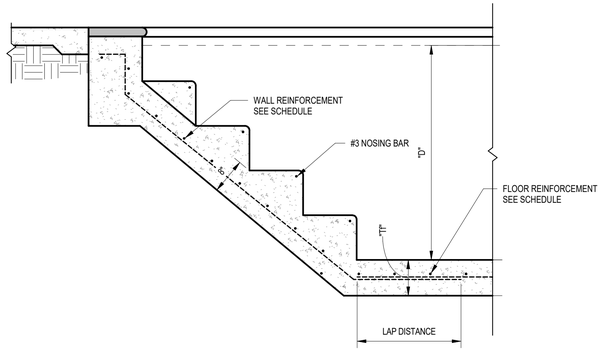
MAINTAIN CLEAR COVER AT ALL LAP SPLICES.



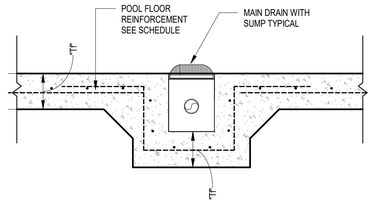
2 TYPICAL WALL INTERSECTION DETAIL
3/4" = 1'-0"



3 TYPICAL UNDERWATER BENCH STRUCTURAL SECTION
3/4" = 1'-0"



4 TYPICAL STRUCTURAL SECTION AT STEPS
3/4" = 1'-0"



5 TYPICAL STRUCTURAL SECTION AT MAIN DRAIN1
3/4" = 1'-0"

REINFORCED GUNITE

ALL CONCRETE REINFORCEMENT SHALL BE DETAILED AND ACCESSORIES PROVIDED WITH THE PROVISIONS OF ACI 315 (LATEST EDITION).

REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.

ALL BAR SPLICES/LAPS, WHERE REQUIRED, SHALL BE 24". ALL LAPS SHALL BE NON-CONTACT LAPS OR SPLICES WITH A MINIMUM OF 2" IN BETWEEN BARS.

ALL REINFORCING STEEL SHALL HAVE 3" COVER AGAINST SURFACES IN CONTACT WITH SOIL AND 1 1/2" FOR ALL OTHER SURFACES.

ALL REINFORCING STEEL SHALL BE PROPERLY TIED TOGETHER AND SUPPORT PROVIDED TO ENSURE PROPER LOCATION OF REINFORCEMENT STEEL PER THE STRUCTURAL DESIGN.

PNEUMATICALLY APPLIED CONCRETE (GUNITE/SHOTCRETE)

PNEUMATICALLY APPLIED CONCRETE SHALL BE APPLIED IN ACCORDANCE WITH IBC 2021 SECTION 1908.

ALL REBOUND SHALL BE PROPERLY SCRAPED/REMOVED PRIOR TO APPLYING SUBSEQUENT LAYERS OF GUNITE OR SHOTCRETE.

SHOTCRETE/GUNITE SHALL BE MAINTAINED ABOVE 40 DEGREES FAHRENHEIT AND SHALL BE CONTINUOUSLY DAMP FOR 24 HOURS AFTER APPLICATION.

SHOTCRETE OR GUNITE SHALL MEET OR EXCEED 4,500 PSI 28 DAY COMPRESSIVE STRENGTH.

ALL CONCRETE WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE ACI STANDARD "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318 LATEST EDITION).

ENGINEER OF RECORD DOES NOT PERMIT THE USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS THAT MAY CAUSE EXCESSIVE CORROSION IN THE REINFORCING STEEL.

ALL PNEUMATICALLY APPLIED CONCRETE FOR SWIMMING POOL CONSTRUCTED SHALL BE COVERED WITH A WATERPROOF SILICA PLASTER PRIOR TO FILLING.

SOUTHEAST ENGINEERS
4915 S. SHERWOOD FOREST BOULEVARD | BATON ROUGE, LA
225.295.1880 | WWW.SEENGINEERS.COM

CROSS GATES THERAPY POOLS

200 N. MILITARY RD.
SLIDELL, LA 70461

No.	Description	Date
	Issued for Permit	8.22.2024

SEAL

CROSS GATES THERAPY POOLS

POOL STRUCTURAL DETAILS

Project number	SE-24-845
Date	8/13/24
Drawn by	RD
Checked by	RD

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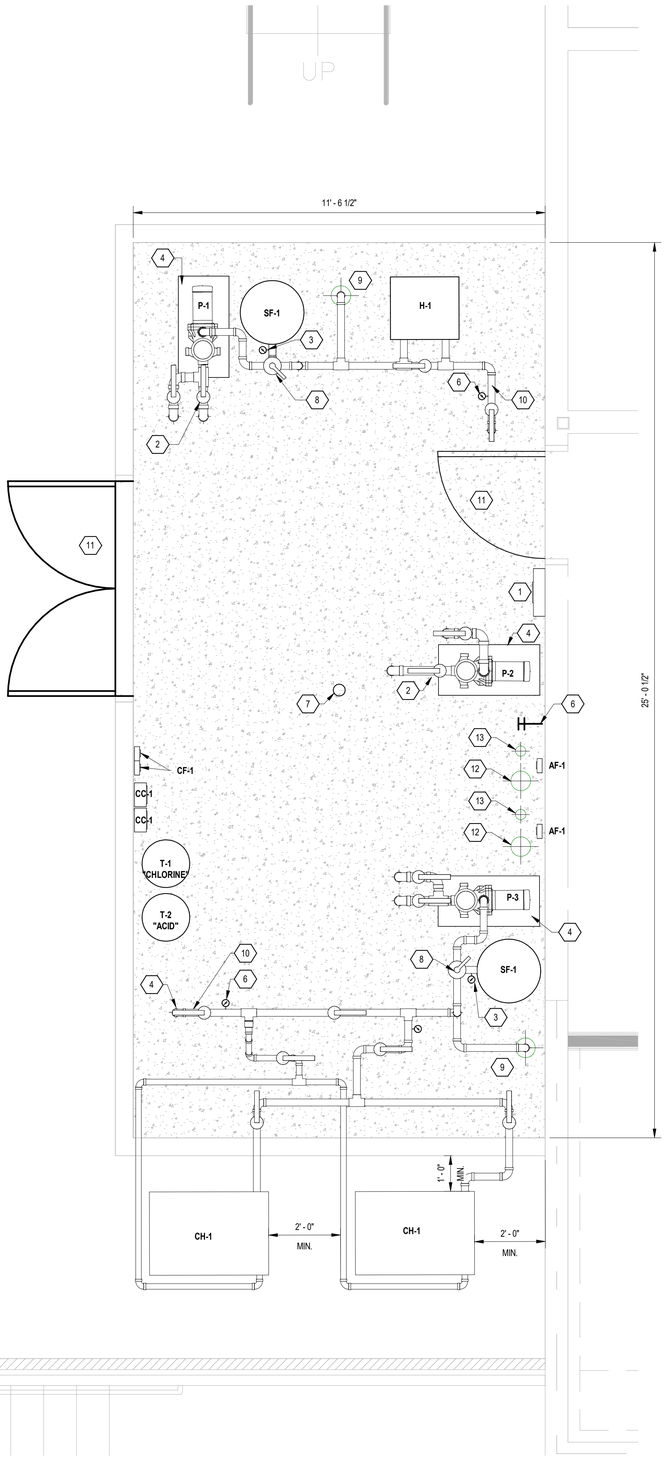

1 SPA EQUIPMENT ROOM
1/2" = 1'-0"

KEYNOTE LEGEND

#	
1	ELECTRICAL SUBPANEL/TIMER BOX BY OTHERS. LOCATED PER ELECTRICAL DRAWINGS. INSTALL WITH 3'-0" OF NEC REQUIRED CLEARANCE IN FRONT OF PANEL.
2	BUTTERFLY VALVE, TYPICAL ALL SUCTION AND RETURN LINES FOR FLOW ADJUSTMENT.
3	PRESSURE GAUGES ON INFLUENT AND EFFLUENT FILTER LINE.
4	4" CONCRETE HOUSE KEEPING PAD FOR POOL PUMP MOUNTING.
5	BLUE WHITE F300 FLOWMETER.
6	HOSE BIB WITH VACUUM BREAKER FOR MAINTENANCE.
7	FLOOR DRAIN. RE: MEP.
8	PENTAIR MULTIPORT VALVE
9	6" STAND PIPE WITH 8" BELL TO SANITARY SEWER FOR BACKWASH.
10	ACID/ CHLROINE INJECTION POINT
11	ACCESS DOOR FOR POOL EQUIPMENT ROOM.
12	STANDPIPE FOR AUTOFILL DEVICE TO POOL OR SPA. REFER TO DETAIL ON SP5.00.
13	FILL FUNNEL TO POOL OR SPA. REFER TO AUTOFILL DETAIL ON SP5.00.

POOL EQUIPMENT NOTES:

SWIMMING POOL EQUIPMENT LAYOUT SHOWN IS DIAGRAMMATIC ONLY. SWIMMING POOL CONTRACTOR REQUIRED TO SUBMIT FINAL POOL EQUIPMENT LAYOUT TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO INSTALLATION.

CONTRACTOR SHALL PRACTICE BEST MANAGEMENT TO LIMIT THE AMOUNT OF EXPOSED RUNS. ROUTE PIPES BELOW SLAB WHERE POSSIBLE.

ALL PIPING TO BE PROPERLY STRAPPED/ANCHORED AGAINST WATER HAMMER AND VIBRATIONS.

BUTTERFLY VALVES SHALL BE INSTALLED ON ALL SUCTION AND DISCHARGE LINES FOR FLOW ADJUSTMENT.

ALL SWIMMING POOL PIPING SHALL BE SIZED WITH THE LARGEST POOL EQUIPMENT TIE-IN SIZE. INSTALL REDUCERS WHERE NECESSARY FOR ADDITIONAL EQUIPMENT TIE-INS.

VALVES SHALL NOT BE INSTALLED UNDERNEATH CONCRETE UNDER ANY CIRCUMSTANCE.

CHLORINE FEEDER SHALL BE CONTROLLED BY VALVING.

POOL CONTRACTOR PROVIDE ALL PUMP STARTERS, TIMERS, ETC. FOR PUMP OPERATIONS.

ADDITIONAL EQUIPMENT MAY BE REQUIRED FOR SATISFACTORY OPERATIONS. CONTRACTOR TO PROVIDE ALL MISCELLANEOUS EQUIPMENT NOT SHOWN HERE FOR CLARITY.

INDOOR EQUIPMENT ROOMS REQUIRE VENTILATION DESIGNED BY OTHERS. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION.

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SLIDELL, LA 70461

No.	Description	Date
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SEAL

STATE OF LOUISIANA
8/22/2024
RYAN C. DUNLEVY
License No. 42707
PROFESSIONAL ENGINEER
CIVIL ENGINEERING

CROSS GATES THERAPY POOLS

SPA EQUIPMENT ROOM

Project number	SE-24-845
Date	8/13/24
Drawn by	RD
Checked by	RD

SP6.00

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