



RFP#2023-011 PINETREE RECREATION CENTER MANAGEMENT AND OPERATIONS

ADDENDUM 1

Return to: Lumpkin County Board of Commissioners
Ryan McDuffie, Purchasing Agent
99 Courthouse Hill, Suite D
Dahlonega, GA 30533

Bid Closing Date: November 28, 2023 at 2:00 PM, EDT
Bid Issue Date: November 1, 2023
Addendum Issue Date: November 15, 2023 at 5:00 PM, EDT
Pages: 8
By: Ryan McDuffie, Purchasing Agent

Vendor Name: _____
(A copy must be attached to the Addenda Acknowledgement)

-
1. The provided plan shows 3 slides but there are now only 2. See attached updated plan.
 2. See attached plan showing the inside of the gymnasium room layout.
 3. See attached plans for additional information on sterilization systems.
 4. How many cabanas are there?
 - a. 12 – 10x10 and 2- 10x20
 5. How would the County like for vendors to present information on janitorial/cleaning budget since there is no information currently available on the new building? We would like for them to provide their proposal on maintaining the pool area and building to include:
 - maintain pool deck free of trash
 - cleaning and sanitizing restrooms at least once a day and as needed to maintain cleanliness during hours of high use
 - sweeping and mopping floors
 - disinfecting surfaces, especially high-touch areas
 - trash removal from building and pool area
 - cleaning of glass and surfaces as needed
 6. In the RFP, it says to operate the facility for 7 days per weeks and a minimum of 8 hours per day. Could the County elaborate on the pool open days and hours as well as the facility open days and hours?
With the exception of closures due to weather pool is to be open;
7:00 AM – 10:00 AM for lessons, classes, programs, adult exercise
10:00 AM – 6:00 PM open to public

6:00 PM – 9:00 PM for lessons, classes, programs, parties, private events

Building hours will be 8:00AM – 8:00PM Monday – Saturday and 1:00 PM – 6:00 PM on Sunday

7. The awarded vendor will not be responsible for creating and administering recreation leagues/programs within the building?
 - a. Correct.
8. What POS system will the County use for this facility? Or, does the vendor need to budget for this item?
 - a. The vendor does not need to budget for a POS system. The POS system is TBD.



Construction Documents

LUMPKIN COUNTY RECREATION CENTER

215 PINETREE WAY
DAHLONEGA, GA 30533

DIMENSION & WALL TYPES FLOOR PLAN

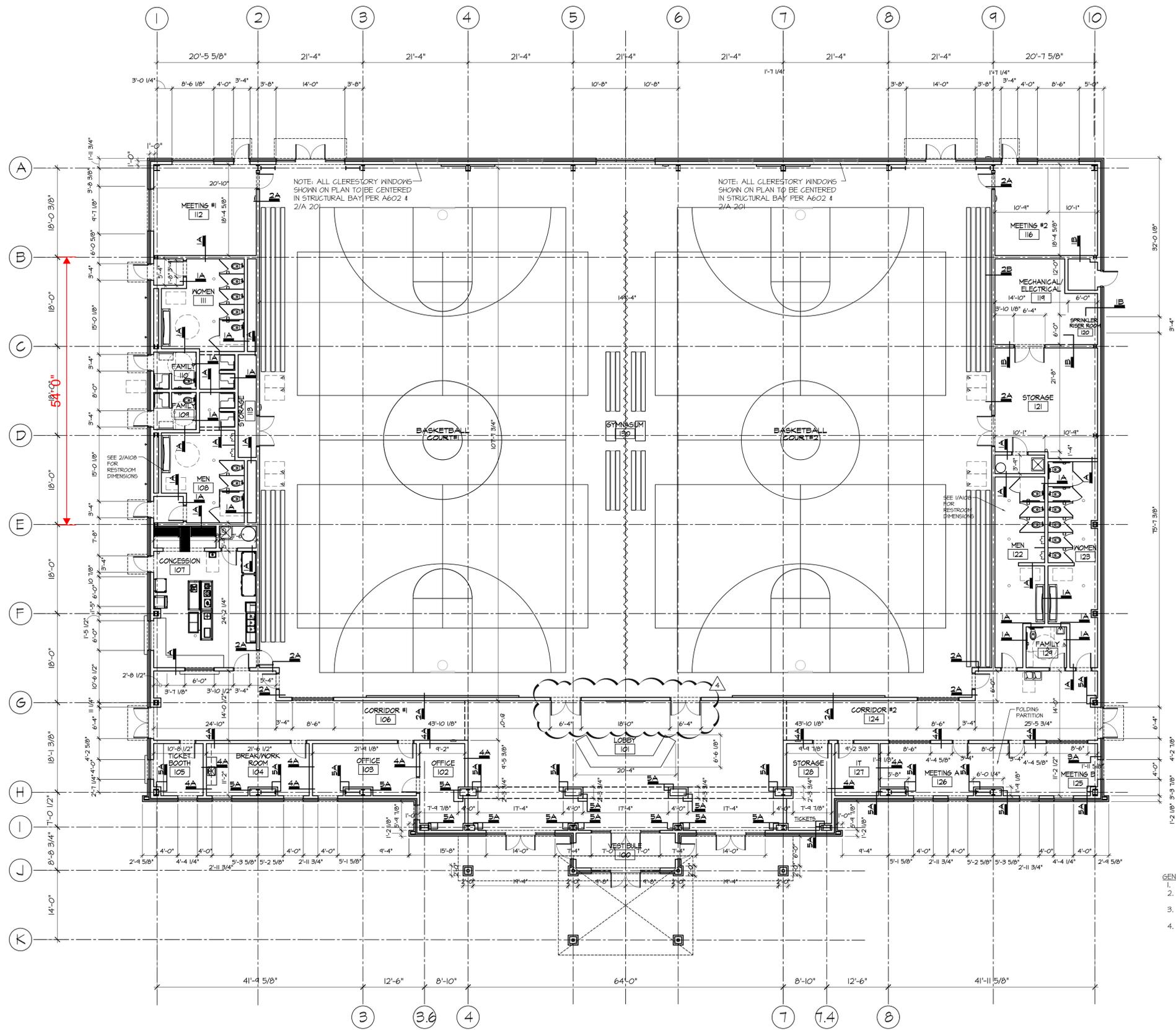
Progress Date:

PROJECT MANAGER:	JEFF SHERRIN
DRAWN BY:	NSP
REVISIONS	
No. 4	Date 3/28/2023
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____
No. _____	Date _____

Issue Date: 12/12/2022

Project Number: 20-022-01

Sheet Number:

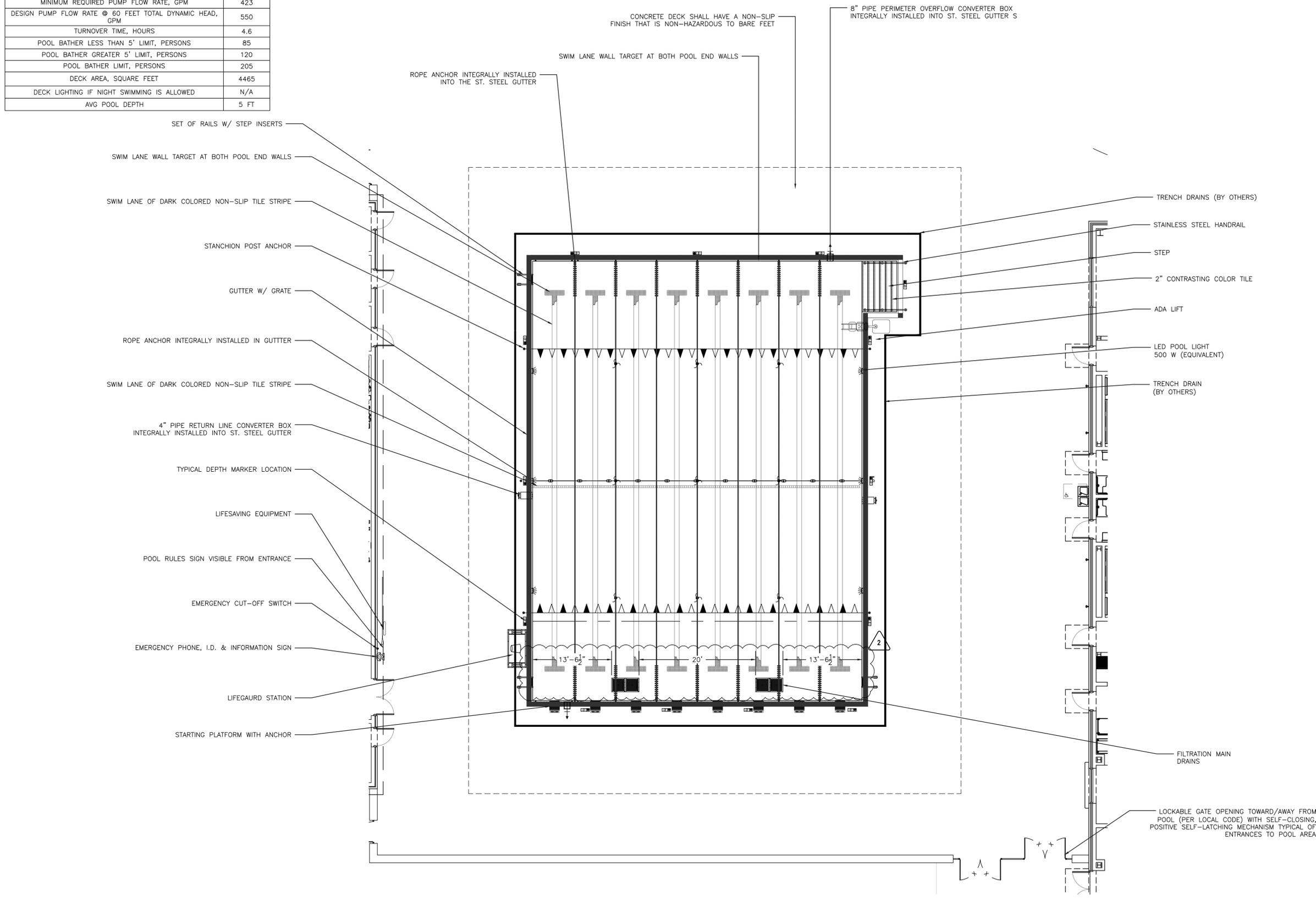


- GENERAL NOTES:
1. INTERIOR DIMENSIONS ARE TO FACE OF STUDS OR CMU
 2. EXTERIOR DIMENSIONS ARE TO FACE OF BRICK WHEN ONLY DIMENSIONING TO BRICK
 3. EXTERIOR DIMENSIONS AT WINDOWS, STOREFRONT OR DOORS ARE TO THEIR OUTER FRAMES
 4. SEE I/A100 FOR WALL TYPES



SCALE: 3/32" = 1'-0"
DIMENSION FLOOR PLAN (1)

COMPETITION POOL DATA	
POOL TYPE	A
PERIMETER FEET AT WATER EDGE	275'-2"
WATER SURFACE AREA, SQUARE FEET	4,294
WATER VOLUME, GALLONS	152,316
MINIMUM REQUIRED PUMP FLOW RATE, GPM	423
DESIGN PUMP FLOW RATE @ 60 FEET TOTAL DYNAMIC HEAD, GPM	550
TURNOVER TIME, HOURS	4.6
POOL BATHER LESS THAN 5' LIMIT, PERSONS	85
POOL BATHER GREATER 5' LIMIT, PERSONS	120
POOL BATHER LIMIT, PERSONS	205
DECK AREA, SQUARE FEET	4465
DECK LIGHTING IF NIGHT SWIMMING IS ALLOWED	N/A
AVG POOL DEPTH	5 FT



110 MATTHEWS STATION STREET
SUITE 2J
MATTHEWS, NC 28105
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Construction Documents

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215 PINETREE WAY
DAHLONEGA, GA 30533

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PROJECT MANAGER: JEFF SHERER	
DRAWN BY: BH / KL	
REVISIONS	
No. 0	Date: 10.25.22
No. 1	Date: 12.19.22
No. 2	Date: 04.19.23
No. 3	Date: 06.23.23
No. 4	Date:

Issue Date: 06/23/2023

COMPETITION POOL COVER SHEET

Project Number: 20-022-01

Sheet Number:

SP-1.1

1 COMPETITION POOL
SP-1.1 SCALE 1/8" = 1'-0"



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908 Applegate Parkway
Wahaw, NC 28133
(P) 704.618.1959
PROJECT # - 22-341

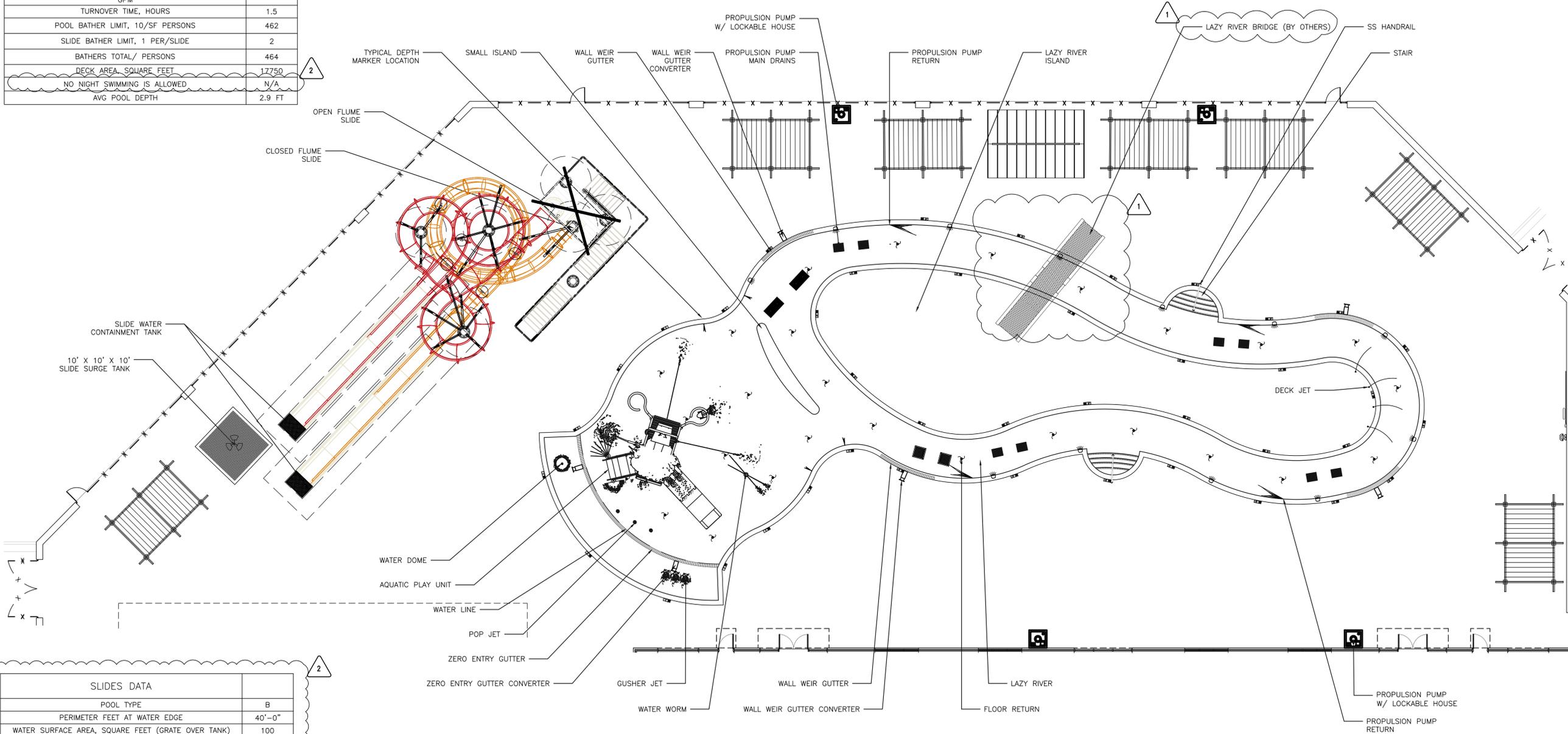
RECREATIONAL WATER PARK/ACTIVITY POOL DATA	
POOL TYPE	B
PERIMETER FEET AT WATER EDGE	456'-10"
WATER SURFACE AREA, SQUARE FEET	25,101
WATER VOLUME, GALLONS	88,580
MINIMUM REQUIRED PUMP FLOW RATE, GPM	738
DESIGN PUMP FLOW RATE @ 60 FEET TOTAL DYNAMIC HEAD, GPM	975
TURNOVER TIME, HOURS	1.5
POOL BATHER LIMIT, 10/SF PERSONS	462
SLIDE BATHER LIMIT, 1 PER/SLIDE	2
BATHERS TOTAL/ PERSONS	464
DECK AREA, SQUARE FEET	17750
NO NIGHT SWIMMING IS ALLOWED	N/A
AVG POOL DEPTH	2.9 FT

NOTE: BRIDGES SPANNING A POOL OR ANY OTHER STRUCTURES NOT INTENDED FOR INTERACTIVE PLAY SHALL HAVE THE FOLLOWING:

- A MINIMUM CLEARANCE OF SEVEN FEET FROM THE BOTTOM OF THE STRUCTURE TO THE BOTTOM OF THE POOL AND A MINIMUM HEIGHT OF FOUR FEET ABOVE THE WATER SURFACE.
- A MINIMUM FORTY-TWO INCH HIGH BARRIER ON BOTH SIDES.
- A SLIP RESISTANT WALKING SURFACE CONSTRUCTED OF CONCRETE OR A NON ABSORBENT MATERIAL.
- A "NO DIVING AND NO-JUMPING" SIGN; IT SHALL BE PLACED AT BOTH ENDS OF THE BRIDGE.

NOTE:

- THE PLAY STRUCTURES AND OTHER EQUIPMENT SHALL MEET ALL REQUIREMENTS SET BY APPROPRIATE AUTHORITIES SUCH AS BUILDING CODES, THE U.S. CONSUMER PRODUCT SAFETY COMMISSION, ASTM STANDARDS, AND AMUSEMENT RIDE REGULATIONS. THE ACTIVITY POOL AND LEISURE RIVER MUST COMPLY WITH CHAPTER 120-3-27. ALL AMUSEMENT RIDES MUST BE PERMITTED AND INSPECTED PRIOR TO OPERATION PURSUANT TO THE CHAPTER.
- THE AQUATIC PLAY UNIT MUST COMPLY WITH ASTM F2469-09, CHAPTER 511-3-5.20(6)
- SEE AQUATIC PLAY APPROVED DRAWINGS



SLIDES DATA	
POOL TYPE	B
PERIMETER FEET AT WATER EDGE	40'-0"
WATER SURFACE AREA, SQUARE FEET (GRATE OVER TANK)	100
WATER VOLUME, GALLONS	5,284
MINIMUM REQUIRED PUMP FLOW RATE, GPM	200
DESIGN PUMP FLOW RATE @ 60 FEET TOTAL DYNAMIC HEAD, GPM	235
TURNOVER TIME, MINTUES	26
SLIDE BATHER LIMIT, 1 PER/SLIDE	2
DECK LIGHTING IF NIGHT SWIMMING IS ALLOWED	N/A

NOTE:
 THE SLIDES MUST BE DESIGNED AND CERTIFIED BY A STATE REGISTERED PROFESSIONAL ENGINEER FOR COMPLIANCE TO CHAPTER 511-3-5, ASTM F2376-13, ASTM F2469-09, AND GA RULES & REGS. CHAPTER 120-3-27. THE ENGINEER MUST PLACE A CERTIFICATION STATEMENT ON THE PLANS THAT THE SLIDE DESIGN IS IN COMPLIANCE WITH GA RULES & REGS. CHAPTER 120-3-27, ASTM F2376-13, AND ASTM F2469-09. PLEASE ENSURE THE WATERSLIDES COMPLY WITH CHAPTER 120-3-27. AMUSEMENT RIDES MUST BE PERMITTED AND INSPECTED PRIOR TO OPERATION PURSUANT TO THE CHAPTER.

1 RECREATIONAL WATER PARK/ACTIVITY POOL
 SP-1.1 SCALE 3/32" = 1'-0"



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REC. WATER PARK /ACTIVITY POOL COVER SHEET

Project Number: 20-022-01

Sheet Number:

SP-1.2



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 PROJECT # - 22-341



ARCHITECTURE
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6-27-23

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DRAWN BY:	DH / KL
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Issue Date: 06/23/2023

REC. WATER PARK /ACTIVITY POOL PARTS LIST & GENERAL SPECIFICATIONS

Project Number: 20-022-01

Sheet Number:

SP-2.1



GEORGE W. AUSTIN JR., PE
908 Applegate Parkway
Wahaw, NC 28133
(P) 704.618.1959
PROJECT # - 22-341

SAFETY & LIFE SAVING EQUIPMENT				
QTY	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
1	UTILITY POLE	PENTAIR	R191106	820-1212' NON-TELESCOPING ALUMINUM POLE WITH POLE CAP
1	POOL HOOK (SHEPHERD'S CROOK)	PENTAIR	R221026	MODEL 153 ALUMINUM, PERMANENTLY ATTACHED TO UTILITY POLE WITH BRASS SCREWS & WING NUTS
1	HARDWARE KIT	PENTAIR	R221030	FOR MODEL 153 SAFETY POOL HOOK
1	LIFE RING	JIM BUOY / CAL-JUNE	GW-20	20" DIAMETER, U.S. COAST GUARD APPROVED 160.050/48/2
1	THROW LINE	JIM BUOY / CAL-JUNE	HR-50	1/4" X 50' POLYETHYLENE ROPE & FLOAT ATTACHED TO LIFE RING
1	FIRST AID KIT	WATER SAFETY PRODUCTS	4715	25 PERSON OSHA APPROVED
1	RESCUE BACKBOARD KIT	WATER SAFETY PRODUCTS	735MPL	MODEL MAXx 72" X 16" X 2-1/4" BACKBOARD, LAERDAL HEAD IMMOBILIZER, 4 VELCRO STRAPS
1	CPR MASK AND HOLDER	WATER SAFETY PRODUCTS	190	ENCASE WALL MOUNT UNIT, INCLUDES 1 LAERDAL CPR MASK, 2 NITRILE GLOVES, 2 ONE WAY VALVES, & USER INSTRUCTIONS

MAINTENANCE EQUIPMENT				
QTY	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
1	PORTABLE PUMP & MOTOR	WATERCO	16V1167	ULTRAVAC MODEL, 3/4 HP, 115 VAC, GFCI SWITCH, CC100 CARTRIDGE FILTER, 100 SQ FT, 1-1/2" PIPE CONNECTION, FILTER BYPASS TO WASTE
1	VACUUM HEAD	PENTAIR	R201296	COMMERCIAL MODEL, PROVAC 29", BALL BEARING WHEELS, STAINLESS STEEL SHAFT
1	EXTENSION POLE	PENTAIR	R191380	3 PIECE TELESCOPIC ALUMINUM POLE, E-Z LOCK DEVICE, EXTENDS FROM 12' TO 36'
1	WALL BRUSH	PENTAIR	R111316	MODEL 902, 18" CURVED BRUSH WITH ALUMINUM BACK
1	HAND SKIMMER	PENTAIR	R121196	MODEL 126, HEAVY DUTY ALUMINUM FRAME, REPLACEABLE NET
1	VACUUM HOSE	SERVICE KING	425-75	1.5" X 75' FLOATING SUCTION HOSE WITH SWIVEL END
1	WATER CHEMISTRY TESTER	PALIN	SPH 7009	BLUETOOTH STANDARD KIT, POOL TEST 9, PHOTOMETRIC TESTER
1	TEST KIT	PADDOCK	2814	COMMERCIAL TEST SET DPD FREE CHLORINE TYPE

REQUIRED SIGNS				
QTY	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
1	POOL RULE SIGN	PENTAIR	R235200	24" X 68", 2" LETTERS, COMPLIES WITH GDPH 511-3-5 2017
1	WARNING-NO LIFE GUARD ON DUTY RISK OF DROWNING SUPERVISE CHILDREN CLOSELY SIGN			COMPLIES WITH GDPH 511-3-5 2017
1	EMERGENCY SHUT-OFF SWITCH SIGN	RECREONICS	12-211	9" X 12" WEATHERPROOF PLASTIC, RED LETTERS ON A WHITE BACKGROUND STATING 'POOL EMERGENCY SHUT-OFF SWITCH'
1	911 EMERGENCY PHONE SIGN	OWNER	CUSTOM	INCLUDE EMERGENCY NUMBERS, PHYSICAL ADDRESS OF POOL, AND TELEPHONE NUMBER AT SITE
1	WATERSLIDE RULE SIGN	CUSTOM		1 1/2" AND 1" LETTERS, COMPLIES WITH GDPH 511-3-5 20(3)(6)

RECREATIONAL WATER PARK/ACTIVITY POOL PERIMETER OVERFLOW & RECIRCULATION EQUIPMENT				
QTY	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
28	FLOOR RETURN INLET FITTING	STA RITE	08417-0000	WHITE COLOR, ADJUSTABLE FLOW, NON-CORROSIVE RETURN OUTLET FOR 1 1/2" & 2" PIPE SIZES, MAX FLOW RATE 50 GPM
4	WALL FITTING	WATERWAY PLASTICS	215-9890	2" SLIP X 1-1/2" FIP
4	WALL RETURN	HAYWARD	SP-1419E	1" ADJUSTABLE EYEBALL, 25 GPM
1	ZERO ENTRY GUTTER	PADDOCK	R300TG	APPROX 45 LINEAR FEET W/ 28"-6"R ZERO ENTRY GUTTER WITH SLIP RESISTANT 1" WHITE HDPE GRATE
6	PERIMETER OVERFLOW	PADDOCK		8" FLANGED CONVERTER BOX
6	WALL-WIER GUTTER	PADDOCK	R300TG	12-LINEAR FEET WITH HDPE GRATE
2	MAIN DRAINS, FILTRATION	PADDOCK	2448	MODEL 2848-FC-12, 24" X 48" 304 ST.ST. ENTRAPMENT SAFE MAIN DRAIN SUMP W/ 12" CONNECTION & (2) ST.ST. 24" X 24" V.G.B. CERTIFIED FLAT COVERS, 425.78 SQ. IN. 1996 GPM @ 1.5 FPS
2	HYDROSTATIC RELIEF VALVE	PADDOCK	8703-S	INCLUDED WITH MAIN DRAIN
2	COLLECTOR TUBE	PADDOCK		INCLUDED WITH MAIN DRAIN

FILTRATION EQUIPMENT				
QTY	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
1	VACUUM SAND FILTER	PADDOCK	9795-1565-SS	65 SQUARE FEET, 975 GPM @ 15 GPM/FT ² , STAINLESS STEEL, 487 GPM BACKWASH RATE
1	FILTRATION PUMP	PADO	50957 LC	30 HP VERTICAL FLOODED SUCTION PUMP
1	PACO VFD PANEL	SCHNEIDER ELECTRIC	E-FLEX	SQUARE D ADJUSTABLE SPEED DRIVE CONTROLLER
1	AIR BLOWER	ALL STAR	RBB-805-3	AIR SCOUR BLOWER FOR VACUUM SAND FILTER
1	FLOW METER	BLUE-WHITE	F-30800P	HORIZONTAL PIPE MOUNT, 300 SERIES SADDLE PITOT TUBE, 8" SCH 40 IPS PIPE, 500-1900 GPM

CHLORINATION EQUIPMENT				
QTY	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
1	AUTOMATIC CHEMISTRY CONTROLLER	BECS	BECSy5	pH, ORP, & TEMPERATURE SENSORS, FLOW SWITCH
1	CHLORINE EROSION FEEDER	PULSAR	PRECISION	70 LB CAL HYPO TABLETS CAPACITY, 2-8 LBS/HR MIN-MAX, 1/2" MNPT INLET, 1/2" MNPT OUTLET, 115VAC
1	ACID EROSION FEEDER	PULSAR	ACID PLUS	60 LB PULSAR PH DOWN +4 GRANULAR CAPACITY
1	UV SYSTEM	EVOQUA	WF-225-8	2 LAMP, 2.5KW EACH, 316L STAINLESS STEEL, 8" INLET & OUTLET FLANGES, 1540 GPM FOR 40 M/L/MIN DOSE, 8" EZ CLEAN STRAINER INCLUDED

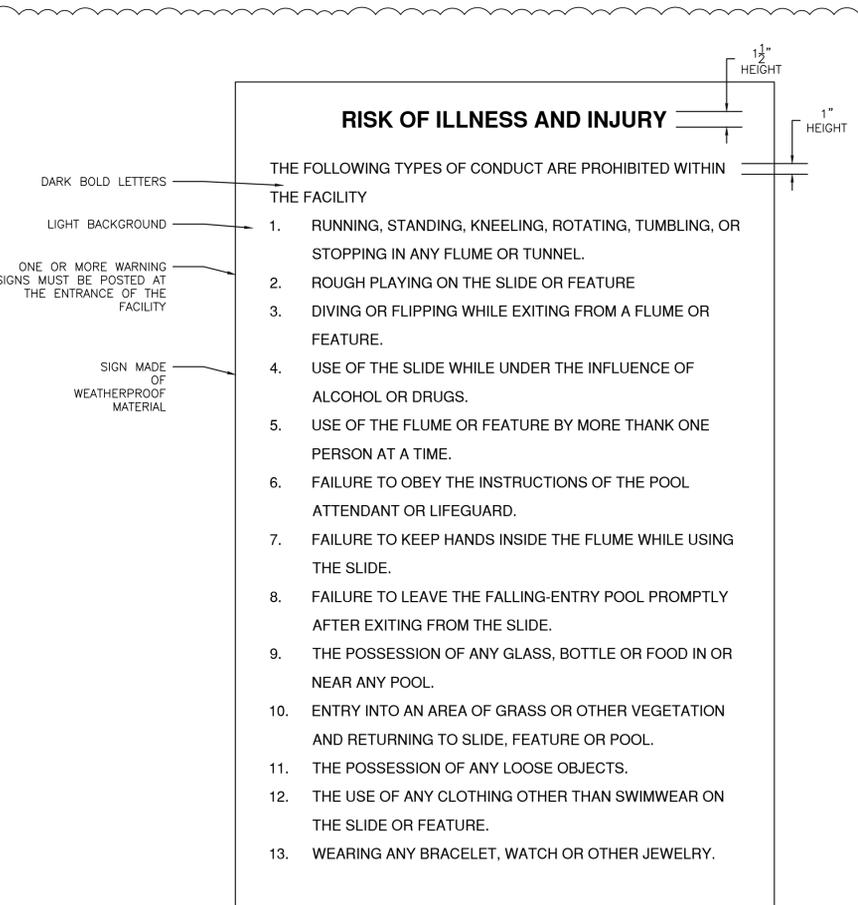
FEATURE EQUIPMENT				
QTY	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
1	AQUATIC PLAY UNIT PUMP	HAYWARD	HCP40753	HCP 4000 SERIES, 7.5 HP, 430 GPM @ 55 TDH
1	FLOW METER	BLUE-WHITE	F-30600P	HORIZONTAL PIPE MOUNT, 300 SERIES SADDLE PITOT TUBE, 6" SCH 40 IPS PIPE, 250-1050 GPM
1	ZERO ENTRY FEATURES/LAZY RIVER DECK JETS PUMP	HAYWARD	HCP30501	HCP 3000 SERIES PUMP, 5 HP, 210 GPM @ 55 TDH
12	FLOW METER	H2FLOW CONTROLS	FV-15	FOR 1.5" SCH 40 PVC PIPE, 10-80 GPM
4	PROPULSION PUMP- RIVER FLOW SYSTEM	RIVER FLOW/CURRENT SYSTEMS INC.	RFS 200	PROPULSION PUMP 10 HP, 3, PH, 60HZ, 2400 GPM, UTILIZES (2) RFS125 NSF COMPLIANT SUMP AND GRATES
4	ACCELERATOR NOZZLE	CURRENT SYSTEMS		
1	AQUATIC PLAY UNIT	SPLASHTACULAR		400 GPM TOTAL
3	GUSHER JET	SPLASHTACULAR	GND-GJ	TOP OF NOZZLE FLUSH W/ SURFACE, MIN. 1.5" PVC PIPE, 30 GPM @ 35 TDH
3	POP JET	SPLASHTACULAR		1" PVC PIPE, 5 GPM @ 35 TDH
1	WATER WORM	SPLASHTACULAR		1.5" PVC PIPE, 30 GPM @ 35 TDH
1	WATER DOME	SPLASHTACULAR		1.5" PVC PIPE, 40 GPM @ 35 TDH
4	DECK JET	ROMAN FOUNTAINS	RBBK-APJ	FLUSH MOUNT, BRONZE BODY WITH BONDING LUG, REMOVABLE CAP, 1" FNPT CONNECTION, 3/8" JET ORIFICE, 8 GPM
2	FEATURES MAIN DRAIN VGB GRATE COVER & SUMP	PADDOCK	2424ESMD-FC	24" X 24" ENTRAPMENT SAFE MAIN DRAIN WITH PADDOCK CERTIFIED FLAT GRATE (RATED 915 GPM, NSF MAX)
2	HYDROSTATIC RELIEF VALVE	PADDOCK	8703-S	INCLUDED WITH MAIN DRAIN
2	COLLECTOR TUBE	PADDOCK		INCLUDED WITH MAIN DRAIN

POOL NOTES:

- SURGE CAPACITY: MINIMUM SURGE REQUIRED = POOL SF = **4,620 GALS.**
 - GUTTER= .9782 SQ FT X 48FT X 7.48 GALS/CU.FT.= 351 GALS.
GUTTER SURGE CAPACITY= 70% OF 351 GALS = **245 GALS.**
 - FILTER TANK= 65 S.F. X 5FT X 7.48 GALS/CU.FT.= **2,431 GALS.**
 - SLOPED GUTTER= 43' X .5472FT X 7.48 X 50% = 88 GALS.
IN=POOL= 4,620 SF POOL AREA X .0833 X 7.48= 2878 GAS
(2,878 + 88) X 0.0833FT X 7.48 GALS/CU.FT.= **2,966 GALS.**
 - 8" SCHEDULE 40 PVC PIPE= .3474 SQ.FT. X 335 FT X 7.48 GALS/CU.FT. X 50% = **435 GALS.**
 - 10" SCHEDULE 40 PVC PIPE= .5476 SQ.FT X 436 FT X 7.48 GALS/CU.FT. X 50% = **892 GALS.**
- TOTAL SURGE CAPACITY= 978 GALS + 2,643 GALS + 1,824 GALS + 344 + GALS + 588 GALS = **6,969 GALS.**

SLIDES EQUIPMENT				
QTY	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
1	PUMP, FILTRATION	HAYWARD	HCP40553	HCP 4000 SERIES, 5.5 HP, 3 PH, 235 GPM @ 60 TDH
3	FILTER	HAYWARD	HCF236C	HCF FIBERGLASS SAND FILTER, 105 GPM @ 15 GPM/FT ²
1	FLOW METER	BLUE-WHITE	F-30600P	HORIZONTAL PIPE MOUNT, 300 SERIES SADDLE PITOT TUBE, 6" SCH 40 IPS PIPE, 250-1050 GPM
1	AUTOMATIC CHEMISTRY CONTROLLER	PROMINENT	DCM 5 SERIES	pH, ORP, & TEMPERATURE SENSORS, FULLY INTERACTIVE ETHERNET
2	ACID/CHLORINE CHEMICAL PUMP	STENNER	45M3	25 PSI MAX, 1.1-22 GALLONS PER DAY
2	DUAL CONTAINMENT CHEMICAL TANK	CHEM-TAINER	TC2435DC	35 GALLON DOUBLE WALL TANK, 24"DX35"H
1	SURGE TANK	CUSTOM		10' X 10' X 10' TANK
1	SURGE TANK FLOATING SKIMMER	OILSLIMMERS	3F360-3	316 STAINLESS STEEL, 150 GPM CAPACITY, 3" CONNECTION, 15.6" X 1.75"
3	SLIDE PUMP	HAYWARD	HCP401253	HCP 4000 SERIES, 12.5 HP, 580 GPM @ 55 TDH
1	FLOW METER	BLUE-WHITE	F-30600P	HORIZONTAL PIPE MOUNT, 300 SERIES SADDLE PITOT TUBE, 6" SCH 40 IPS PIPE, 250-1050 GPM
1	FLOW METER	BLUE-WHITE	F-30800P	HORIZONTAL PIPE MOUNT, 300 SERIES SADDLE PITOT TUBE, 8" SCH 40 IPS PIPE, 500-1900 GPM
3	VFD	HAYWARD	HCPVFD-44150	COMMERCIAL, VARIABLE FREQUENCY DRIVE
1	42" OPEN FLUME BODY SLIDE	SPLASHTACULAR		RUNOUT SLIDE, 800-1000 GPM, 19.83' HEIGHT, 195.37' LENGTH
1	32" ENCLOSED BODY SLIDE	SPLASHTACULAR		RUNOUT SLIDE, 300-500 GPM, 19.83' HEIGHT, 141.57' LENGTH

EQUIPMENT				
QTY	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
2	HANDRAIL	S.R. SMITH	CUSTOM	STAINLESS STEEL, 1.9" O.D. X .065" WALL X 72" LONG, 2 BEND, MARINE GRADE
4	WEDGE ANCHOR	PADDOCK	4801	1.9" X 4" BRONZE SOCKET WITH LOCKING BRONZE WEDGE & STAINLESS STEEL BOLT
4	ESCUTCHEON	PADDOCK	4837	4.5" DIAMETER, STAINLESS STEEL
12	UNDERWATER LIGHT	PENTAIR	601307	INTELLIBRITE 5g Led, 500 WATT EQUIVALENT, 55 WATT 12 VAC, 100 FT CORD
12	LIGHT NICHE	PENTAIR	78210600	STAINLESS STEEL, 1" REAR HUB, INTERNAL GROUND LUG
12	WET NICHE LUG SEALANT	3M	2135	SCOTCHCAST WET-NICHE POTTING COMPOUND
4	TRANSFORMER	INTERMATIC	PX300	300 WATT, 120 VAC INPUT, 12 VAC OUTPUT



1
SP-2.1
GA WATERSLIDE RULES SIGN
SCALE: NTS

680.26 Equipotential Bonding

680.26 (A) Performance. The equipotential bonding required by this section shall be installed to reduce voltage gradients in the pool area.

680.26 (B) Bonded Parts. The parts specified in 680.26(B)(1) through (B)(7) shall be bonded together using solid copper conductors, insulated covered, or bare, not smaller than 8 AWG or with rigid metal conduit of brass or other identified corrosion-resistant metal. Connections to bonded parts shall be made in accordance with 250.8 (see note following). An 8 AWG or larger solid copper bonding conductor provided to reduce voltage gradients in the pool area shall not be required to be extended or attached to remote panel boards, service equipment, or electrodes.

NOTE: Article 250.8 specifies equipment grounding conductors, grounding electrode conductors, and bonding jumpers shall be connected by pressure connectors listed as grounding and bonding equipment.

680.26(B)(1) Conductive Pool Shells. Bonding to conductive pool shells shall be provided as specified in 680.26(B)(1)(a) or (B)(1)(b). Poured concrete, pneumatically applied or sprayed concrete and concrete block with painted or plastered coatings shall all be considered conductive materials due to water permeability and porosity. Vinyl liners and fiberglass composite shells shall be considered to be non-conductive materials.

(a) Structural Reinforcing Steel. Uni-encapsulated structural reinforcing steel shall be bonded together by steel tie wires or the equivalent. Where structural reinforcing steel is encapsulated in a nonconductive compound, a copper conductor grid shall be installed in accordance with 680.26(B)(1)(b).

(b) Copper Conductor Grid. A copper conductor grid shall be provided and shall comply with (b)(1) through (b)(4).

(1) Be constructed of minimum 8 AWG bare solid copper conductors bonded to each other at all points of crossing. The bonding shall be in accordance with 250.8 or other approved means.

(2) Conform to the contour of the pool.

(3) Be arranged in a 300-mm (12-in.) by 300-mm (12-in.) network of conductors in a uniformly spaced perpendicular grid pattern with a tolerance of 100-mm (4 in.).

(4) Be secured within or under the pool no more than 150-mm (6 in.) from the outer contour of the pool shell.

680.26(B)(2) Perimeter Surfaces. The perimeter surface shall extend for 1 m (3 ft) horizontally beyond the inside walls of the pool and shall include unpaved surfaces, as well as paved concrete surfaces and other types of paving. Perimeter surfaces less than 1 m (3 ft) separated by a permanent wall or building 1.5 m (5 ft) in height or more shall require equipotential bonding on the pool side of the permanent wall or building. Bonding to perimeter surfaces shall be provided as specified in 680.26(B)(2)(a) or (2)(b) and shall be attached to the pool reinforcing steel or copper conductor grid at a minimum of four (4) points uniformly spaced around the perimeter of the pool. For nonconductive pool shells, bonding at four points shall not be required.

(a) Structural Reinforcing Steel. Structural reinforcing steel shall be bonded in accordance with 680.26(B)(1)(a).

(b) Alternate Means. Where structural reinforcing steel is not available or is encapsulated in a non-conductive compound, a copper conductor(s) shall (1) At least one minimum 8 AWG bare solid copper conductor shall be provided. (2) The conductors shall follow the contour of the perimeter surface. (3) Only listed splices shall be permitted. (4) The required conductor shall be 450 mm to 600 mm (18 in. to 24 in.) from the inside walls of the pool. (5) The required conductor shall be secured within or under the perimeter surface 100 mm to 150 mm (4 in. to 6 in.) below the subgrade.

680.26(B)(3) Metallic Components. All metallic parts of the pool structure, including reinforcing metal not addressed in 680.26(B)(1)(a), shall be bonded. Where reinforcing steel is encapsulated with a nonconductive compound, the reinforcing steel shall not be required to be bonded.

680.26(B)(4) Underwater Lighting. All metal forming shells and mounting brackets of no-niche luminaries shall be bonded. Exception: Listed low-voltage lighting systems with non-metallic forming shells shall not require bonding.

680.26(B)(5) Metal Fittings. All metal fittings within or attached to the pool structure shall be bonded, isolated parts that are not over 100 mm (4 in.) in any dimension and do not penetrate into the pool structure more than 25 mm (1 in.) shall not require bonding.

680.26(B)(6) Electrical Equipment. Metal parts of electrical equipment associated with the pool water circulating system, including pump motors and metal parts of equipment associated with pool covers, including electric motors, shall be bonded.

Exception: Metal parts of listed equipment incorporating an approved system of double insulation shall not be bonded.

(a) Double-insulated Water Pump Motors. Where a double-insulated water pump motor is installed under the provisions of this rule, a solid 8 AWG copper conductor of sufficient length to make a bonding connection to a replacement motor shall be extended from the bonding grid to an accessible point in the vicinity of the pool pump motor. Where there is no connection for the premises, this bonding conductor shall be connected to the equipment grounding conductor of the motor circuit.

(b) Pool Water Heaters. For pool water heaters rated at more than 50 amperes and having specific instructions regarding bonding and grounding, only those parts designated to be bonded shall be bonded and only those parts designated to be grounded shall be grounded.

680.26(B)(7) Fixed Metal Parts. All fixed metal parts shall be bonded including, but not limited to, metal-sheathed cables and raceways, metal piping, metal awnings, metal fences, and metal door and window frames.

Exception No. 1: Those separated from the pool by a permanent barrier that prevents contact by a person shall not be required to be bonded.

Exception No. 2: Those greater than 1.5m (5 ft) horizontally of the inside walls of the pool shall not be required to be bonded.

Exception No. 3: Those greater than 3.7m (12 ft) measured vertically above the maximum water level of the pool, or as measured vertically above any observation stands, towers, or platforms, or any diving structures, shall not be required to be bonded.

680.26(C) Pool Water. An intentional bond of a minimum conductive surface area of 5800 mm² (9 in.²) shall be installed in contact with the pool water. This bond shall be permitted to consist of parts that are required to be bonded in 680.26(B).

POOL SHELL CONCRETE REQUIREMENTS:

POOL SHELL STRUCTURAL SPECIFICATIONS ARE BASED UPON SHOTCRETE CONSTRUCTION. GUNITE MAY BE USED AT CONTRACTORS OPTION UPON SUBMITAL OF INFORMATION AND APPROVAL BY ENGINEER. STANDARDS:

ACI 506.2 SPECIFICATIONS FOR MATERIALS, PROPORTIONING, AND APPLICATION OF SHOTCRETE

ACI 506.3R GUIDE TO CERTIFICATION OF SHOTCRETE NOZZLEMEN

GENERAL:

- SHOTCRETE WORK SHALL BE PERFORMED BY A FIRM OR COMPANY REGULARLY ENGAGED IN THE BUSINESS OF APPLYING SHOTCRETE MATERIALS, USING NOZZLE OPERATORS AND WORKERS SKILLED AND EXPERIENCED IN THE TYPE OF WORK SPECIFIED.
- SHOTCRETE SUPERVISOR SHALL HAVE NOT LESS THAN TWO YEARS EXPERIENCE AS A SHOTCRETE NOZZLE OPERATOR.
- NOZZLE OPERATOR SHALL HAVE NOT LESS THAN ONE YEAR EXPERIENCE AND, UPON REQUEST OF THE ENGINEER, SHALL DEMONSTRATE ABILITY TO PROPERLY PLACE SHOTCRETE.
- PROOF OF COMPLIANCE WITH ACI 506.3R SHALL BE FURNISHED FOR EACH NOZZLE OPERATOR.
- SHOTCRETE SHALL NOT BE PLACED DURING INCLEMENT OR WINDY WEATHER.

MIX DESIGN:

- DESIGN OF MIX, WHETHER DRY-MIX SHOTCRETE OR WET-MIX SHOTCRETE, INCLUDING RECOMMENDED AMOUNTS OF ADMIXTURE AND WATER TO BE USED, SHALL BE OBTAINED BY THE CONTRACTOR FROM A QUALIFIED INDEPENDENT TESTING LABORATORY OR AGENCY, OR FROM A MILL OR READY-MIX PLANT, PROPERLY EQUIPPED TO DESIGN SHOTCRETE/CONCRETE MIXES. THE LABORATORY, AGENCY, MILL OR READY-MIX PLANT SHALL MEET THE APPLICABLE REQUIREMENTS OF ASTM E329, AND SHALL MEET WITH APPROVAL OF THE ENGINEER. THE MIX DESIGN SHALL BE CERTIFIED AND SIGNED BY A PROFESSIONAL ENGINEER.
- UPON RECEIPT OF ACCEPTABLE SHOTCRETE MIX DESIGN AND TEST RESULTS FROM THE PRE-APPROVED INDEPENDENT TESTING LABORATORY, AGENCY, MILL, OR READY-MIX PLANT, CONFORMING WITH SPECIFIED REQUIREMENTS, THE CONTRACTOR SHALL SUBMIT THE ACCEPTED MIX DESIGN TO THE ENGINEER FOR REVIEW PRIOR TO PLACING ANY SHOTCRETE.

HIGHLY RECOMMENDED FOR ALL AQUATIC PROJECTS:

- CONCRETE ADDITIVE: PREVENT-C. SHRINKAGE-REDUCING/COMPENSATING ADMIXTURE
- DESCRIPTION: SHRINKAGE-REDUCING/COMPENSATING ADMIXTURE FOR CEMENTITIOUS MIXES NEEDING CRACK AND CURL CONTROL.
- DOSAGE RATES: TYPICAL PREVENT-C ADDITION RATES RANGE FROM 2-7%, BASED ON CEMENT CONTENT, OR 2-7 LBS FOR EACH 100 LBS OF CEMENT IN CONCRETE, MORTAR OR GROUT. PREVENT-C WHEN USED AT 5% ADDITION RATE HAS SHOWN INDEPENDENT DOCUMENTED REDUCTION IN SHRINKAGE CRACKING AS HIGH AS 90-100%.

SHOTCRETE MIX SHALL CONFORM WITH THE FOLLOWING REQUIREMENTS:

- PROPORTION OF CEMENT TO AGGREGATE SHALL BE AS REQUIRED TO ACHIEVE THE INDICATED OR SPECIFIED STRENGTH.
 - WATER CONTENT AT TIME OF DISCHARGE FROM NOZZLE SHALL NOT EXCEED AMOUNT REQUIRED TO ACHIEVE THE MAXIMUM PERMITTED SLUMP.
 - COMPRESSIVE STRENGTH OF SHOTCRETE SHALL BE NOT LESS THAN 4000 PSI 28-DAY COMPRESSIVE STRENGTH.
- MIXING, DELIVERY & DISCHARGE
- ALL MATERIALS MUST BE DISCHARGED WITHIN 90 MINUTES OF THE ADDITION OF MIX WATER.
 - IF MIX WATER IS ADDED AT BATCH PLANT, DISCHARGE MUST COMMENCE WITHIN 60 MINUTES.
 - SUPER PLASTICIZER SHOULD BE ADDED AT THE JOB SITE, NOT AT THE BATCH PLANT.

GUNNING/NOZZLE OPERATION:

- BUILD EACH LAYER BY MAKING SEVERAL PASSES OVER THE WORKING AREA. THICKNESS OF EACH LAYER SHALL BE GOVERNED BY THE REQUIREMENT THAT SAGGING OF SHOTCRETE SHALL NOT OCCUR. MAINTAIN TOP SURFACE OF THICK LAYERS AT 45 DEGREE SLOPE. EACH LAYER TO BE COVERED BY A SUCCEEDING LAYER SHALL BE ALLOWED TO TAKE ITS INITIAL SET.
- LANTANCE, LOOSE MATERIAL, AND REBOUND SHALL BE REMOVED BY AIR-JETTING. LANTANCE THAT HAS TAKEN A FINAL SET SHALL BE REMOVED BY SANDBLASTING AND THE SURFACE CLEANED WITH AIR-WATER JET. ALL LAYERS TO BE SHOT SHALL BE DAMP.
- UNLESS OTHERWISE PERMITTED, BEGIN APPLICATION AT THE LOWEST ELEVATION.
- DO NOT TROWEL OR FINISH INITIAL LAYERS IN ANY WAY.
- REBOUND: ANY REBOUND OR ACCUMULATED LOOSE AGGREGATE SHALL BE REMOVED FROM THE SURFACE TO BE COVERED PRIOR TO PLACING SUCCEEDING LAYERS. REBOUND SHALL NOT BE SALVAGED FOR REUSE.

CONSTRUCTION JOINTS:

UNFINISHED WORK SHALL NOT STAND MORE THAN 30 MINUTES UNLESS JOINTS ARE PREPARED. ENTIRE JOINT SURFACE SHALL BE CLEANED, ROUGHENED, AND DAMPENED PRIOR TO APPLICATION OF ADDITIONAL SHOTCRETE.

FINISHING:

BRING SHOTCRETE LAYERS TO WITHIN 1/4 INCH OF FINAL FINISHED SURFACE. WHEN SURFACE HAS TAKEN ITS INITIAL SET, TRIM EXCESS MATERIAL WITH A SHARP EDGE CUTTING SCREED.

CURING:

IMMEDIATELY FOLLOWING SHOTCRETE FINISHING, SURFACES SHALL BE CURED FOR NOT LESS THAN SEVEN DAYS USING AN APPROVED CURING METHOD AS SPECIFIED IN ACI 506.2.

INSPECTION:

AFTER SHOTCRETE HAS BEEN IN PLACE FOR A MINIMUM OF 14 DAYS, INSPECT STRUCTURE FOR CRACKING. ALL CRACKS SHOULD BE REPAIRED BY EPOXY INJECTION OR OTHER METHODS APPROVED BY ENGINEER. IF CRACKING IS EXCESSIVE IN THE OPINION OF THE ENGINEER, CORE SAMPLES WILL BE TAKEN AT THE EXPENSE OF THE CONTRACTOR AND THE STRUCTURE EVALUATED BY ENGINEER FOR REPAIRABILITY. IF DEEM UNREPAIRABLE BY ENGINEER, CONTRACTOR SHALL REMOVE POOL SHELL AND REPLACE AT HIS EXPENSE.

COMPETITION POOL PERIMETER OVERFLOW & RECIRCULATION EQUIPMENT

QTY	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
±278'	GUTTER	PADDOCK	R-300 DTG	5" DECK TO RIM STRAIGHT BACK(8-LANE POOL) TYPE 316 STAINLESS STEEL RECIRCULATION SYSTEM W/ HDPE GRATING
2	PERIMETER OVERFLOW	PADDOCK		8" FLANGED CONVERTER BOX
2	RETURN LINE	PADDOCK		4" FLANGED CONVERTER BOX
2	MAIN DRAINS, FILTRATION	PADDOCK	2448ESMD-FC-12	MODEL 2448ESMD-FC-12, 24" X 48" 304 ST.ST. ENTRAPMENT SAFE MAIN DRAIN SLUMP W/ 12" CONNECTION & ST.ST. 24" X 48" V.G.B. CERTIFIED FLAT COVER, 1996 GPM @ 1.5 FT/SEC, 425.78 SQ IN
2	HYDROSTATIC RELIEF VALVE	PADDOCK	8703-S	INCLUDED WITH MAIN DRAIN
2	COLLECTOR TUBE	PADDOCK		INCLUDED WITH MAIN DRAIN

FILTRATION EQUIPMENT

1	VACUUM SAND FILTER	PADDOCK	9798-1540-SS	40 SQUARE FEET, 600 GPM @ 15 GPM/FT ² , STAINLESS STEEL
1	FILTRATION PUMP	PACO	40957-LC	25 HP VERTICAL FLOODED SUCTION PUMP
1	PACO VFD PANEL	SCHNEIDER ELECTRIC	E-FLEX	SQUARE D ADJUSTABLE SPEED DRIVE CONTROLLER
1	AIR BLOWER	ALL STAR	RBB-805-3	AIR SCOUR BLOWER FOR VACUUM SAND FILTER
1	FLOW METER	BLUE-WHITE	F-30600P	HORIZONTAL PIPE MOUNT, 300 SERIES SADDLE PITOT TUBE, 6" SCH 40 IPS PIPE, 250-1050 GPM
1	FLOW METER	H2FLOW CONTROLS	FV-3	FOR 3" SCH 40 PVC PIPE, 70-240 GPM

CHLORINATION EQUIPMENT

1	AUTOMATIC CHEMISTRY CONTROLLER	BECS	BECSys5	pH, ORP, & TEMPERATURE SENSORS, FLOW SWITCH
1	CHLORINE EROSION FEEDER	PULSAR	PRECISION	70 LB CAL HYPO TABLETS CAPACITY, 2-8 LBS/HR MIN-MAX, 1/2" MNPT INLET, 1/2" MNPT OUTLET, 115VAC
1	ACID EROSION FEEDER	PULSAR	ACID PLUS	60 LB PULSAR PH DOWN 44 GRANULAR CAPACITY

LAP SWIMMING EQUIPMENT

8	STARTING PLATFORM	PADDOCK	4912	MODEL FAST TRACK 24" X 32" STARTING PLATFORM
8	ANCHOR	PADDOCK	4912-A	FOR FAST TRACK PLATFORM
7	LANE LINE	COMPETITOR	200383	COMPETITOR 6" WAVE QUELLING FOR 75 FT
14	LANE LINE ANCHOR	PADDOCK	9026	RECESSED STAINLESS STEEL CUP ANCHOR INTEGRALLY INSTALLED IN GUTTER AND BULKHEAD FOR LANE LINE
6	BACKSTROKE STANCHION	PADDOCK	4905	STAINLESS STEEL BACKSTROKE POST WITH ANCHOR
2	BACKSTROKE ROPE AND FLAGS	PADDOCK	4906	BACKSTROKE FLAGS AND ROPE, 79+/- FEET LONG
2	BACKSTROKE ROPE AND FLAGS	PADDOCK	4906	BACKSTROKE FLAGS AND ROPE, 86+/- FEET LONG
1	TIMING SYSTEM	COLORADO TIME SYSTEMS		SEE SPECIFICATION SHEET

EQUIPMENT

6	HANDRAIL	PADDOCK	4497-C	SET OF CALIFORNIA STYLE HANDRAILS, 304 STAINLESS STEEL, 1.9" O.D.
3	STEP INSERTS	PADDOCK	9027	3", 304 STAINLESS STEEL
8	STEP INSERTS	PADDOCK	4501	5", 304 STAINLESS STEEL
2	HANDRAIL	S.R. SMITH	CUSTOM	STAINLESS STEEL, 1.9" O.D. X .065" WALL X 84" LONG, 3 BEND, MARINE GRADE
12	WEDGE ANCHOR	PADDOCK	4801	1.9" X 4" BRONZE SOCKET WITH LOCKING BRONZE WEDGE & STAINLESS STEEL BOLT
12	ESCUTCHEON	PADDOCK	4837	4.5" DIAMETER, STAINLESS STEEL
6	UNDERWATER LIGHT	PENTAIR	601306	INTELLIBRITE 5g LED, 500 WATT EQUIVALENT, 55 WATT 12 VAC, 50 FT CORD
6	LIGHT NICHE	PENTAIR	78210600	STAINLESS STEEL, 1" REAR HUB, INTERNAL GROUND LUG
6	WET NICHE LUG SEALANT	3M	2135	SCOTCHCAST WET-NICHE POTTING COMPOUND
2	TRANSFORMER	INTERMATIC	PX300	300 WATT, 120 VAC INPUT, 12 VAC OUTPUT
1	ADA LIFT	S.R. SMITH	290-0000	PAL SERIES PORTABLE ADA LIFT KIT, INCLUDES BATTERY, CHARGER, BATTERY CONSOLE COVER, WATER RESISTANT HAND CONTROL, FOOTREST, SEATBELT ASSEMBLY, ARMRESTS, & SECURE-IT-ANCHOR
9	FLOOR RETURN INLET FITTING	STA RITE	08417-0000	WHITE COLOR, ADJUSTABLE FLOW, NON-CORROSIVE RETURN OUTLET FOR 1 1/2" & 2" PIPE SIZES

POOL NOTES:

1. SURGE CAPACITY: MINIMUM SURGE REQUIRED = POOL SF = **4,294 GALS.**

a.) GUTTER= .9782 SQ FT X 278FT X 7.48 GALS/CU.FT.= 2034 GALS.
GUTTER SURGE CAPACITY= 70% OF 351 GALS = **1,423 GALS.**

b) FILTER TANK= 40 S.F. X 5FT X 7.48 GALS/CU.FT.= **1,496 GALS.**

c.) IN-POOL= 4,294 SF POOL AREA X .0833 X 7.48= **2,675 GALS.**

d.) 8" SCHEDULE 40 PVC PIPE= .3474 SQ.FT. X 146 FT X 7.48 GALS/CU.FT. X 50% = **189 GALS.**

e.) 10" SCHEDULE 40 PVC PIPE= .5476 SQ.FT X 26 FT X 7.48 GALS/CU.FT. X 50% = **53 GALS.**

2. TOTAL SURGE CAPACITY= 1,423 GALS + 1,496 GALS + 2,675 GALS + 189 GALS + 53 GALS = **5,836 GALS.**

MAINTENANCE EQUIPMENT

1	PORTABLE PUMP & MOTOR	WATERCO	16V1167	ULTRAVAC MODEL, 3/4 HP, 115 VAC, GFCI SWITCH, CC100 CARTRIDGE FILTER, 100 SQ FT, 1-1/2" PIPE CONNECTION, FILTER BYPASS TO WASTE
1	VACUUM HEAD	PENTAIR	R201296	COMMERCIAL MODEL, PROVAC 29", BALL BEARING WHEELS, STAINLESS STEEL SHAFT
1	EXTENSION POLE	PENTAIR	R191380	3 PIECE TELESCOPIC ALUMINUM POLE, E-Z LOCK DEVICE, EXTENDS FROM 12' TO 36'
1	WALL BRUSH	PENTAIR	R111316	MODEL 902, 18" CURVED BRUSH WITH ALUMINUM BACK
1	HAND SKIMMER	PENTAIR	R121196	MODEL 126, HEAVY DUTY ALUMINUM FRAME, REPLACEABLE NET
1	VACUUM HOSE	SERVICE KING	425-75	1.5" X 75' FLOATING SUCTION HOSE WITH SWIVEL END
1	WATER CHEMISTRY TESTER	PALIN	SPH 7009	BLUETOOTH STANDARD KIT, POOL TEST 9, PHOTOMETRIC TESTER
1	TEST KIT	PADDOCK	2814	COMMERCIAL TEST SET DPD FREE CHLORINE TYPE

REQUIRED SIGNS

QTY	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
1	POOL RULE SIGN	PENTAIR	R235200	24" X 68", 2" LETTERS, COMPLIES WITH GDPH 511-3-5 2017
1	WARNING-NO LIFE GUARD ON DUTY RISK OF DROWNING SUPERVISE CHILDREN CLOSELY SIGN			COMPLIES WITH GDPH 511-3-5 2017
1	EMERGENCY SHUT-OFF SWITCH SIGN	RECREONICS	12-211	9" X 12" WEATHERPROOF PLASTIC, RED LETTERS ON A WHITE BACKGROUND STATING 'POOL EMERGENCY SHUT-OFF SWITCH'
1	911 EMERGENCY PHONE SIGN	OWNER	CUSTOM	INCLUDE EMERGENCY NUMBERS, PHYSICAL ADDRESS OF POOL, AND TELEPHONE NUMBER AT SITE

SAFETY & LIFE SAVING EQUIPMENT

QTY	ITEM	MANUFACTURER	MODEL NO.	DESCRIPTION
1	UTILITY POLE	PENTAIR	R191106	820-1212' NON-TELESCOPING ALUMINUM POLE WITH POLE CAP
1	POOL HOOK (SHEPARD'S CROOK)	PENTAIR	R221026	MODEL 153 ALUMINUM, PERMANENTLY ATTACHED TO UTILITY POLE WITH BRASS SCREWS & WING NUTS
1	HARDWARE KIT	PENTAIR	R221030	FOR MODEL 153 SAFETY POOL HOOK
1	LIFE RING	JIM BUOY / CAL-JUNE	GW-20	20" DIAMETER, U.S. COAST GUARD APPROVED 160.050/48/2
1	THROW LINE	JIM BUOY / CAL-JUNE	HR-50	1/4" X 50' POLYETHYLENE ROPE & FLOAT ATTACHED TO LIFE RING
1	FIRST AID KIT	WATER SAFETY PRODUCTS	4715	25 PERSON OSHA APPROVED
1	RESCUE BACKBOARD KIT	WATER SAFETY PRODUCTS	735MPL	MODEL Maxx 72" X 16" X 2-1/4" BACKBOARD, LAERDAL HEAD IMMOBILIZER, 4 VELCRO STRAPS
1	CPR MASK AND HOLDER	WATER SAFETY PRODUCTS	190	ENCASE WALL MOUNT UNIT, INCLUDES 1 LAERDAL CPR MASK, 2 NITRILE GLOVES, 2 ONE WAY VALVES, & USER INSTRUCTIONS



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6-27-23

Construction Documents

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REVISIONS:	
No. <u>0</u>	Date: 10.25.22
No. <u>1</u>	Date: 12.19.22
No. <u>2</u>	Date: 04.19.23
No. <u>3</u>	Date: 06.23.23
No. <u> </u>	Date: <u> </u>

Issue Date: 06/23/2023

COMPETITION POOL
PARTS LIST
& GENERAL
SPECIFICATIONS

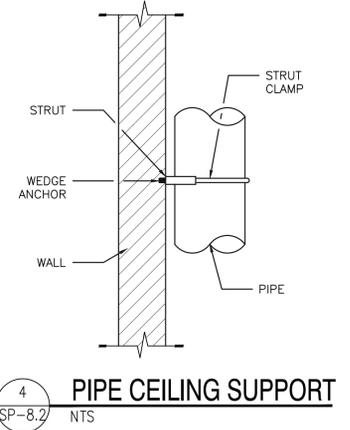
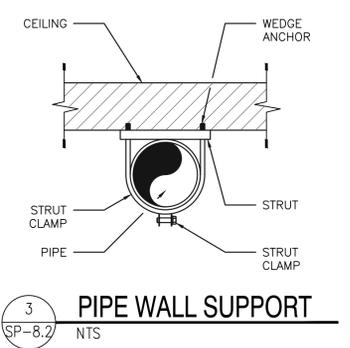
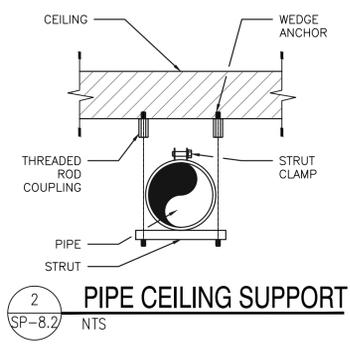
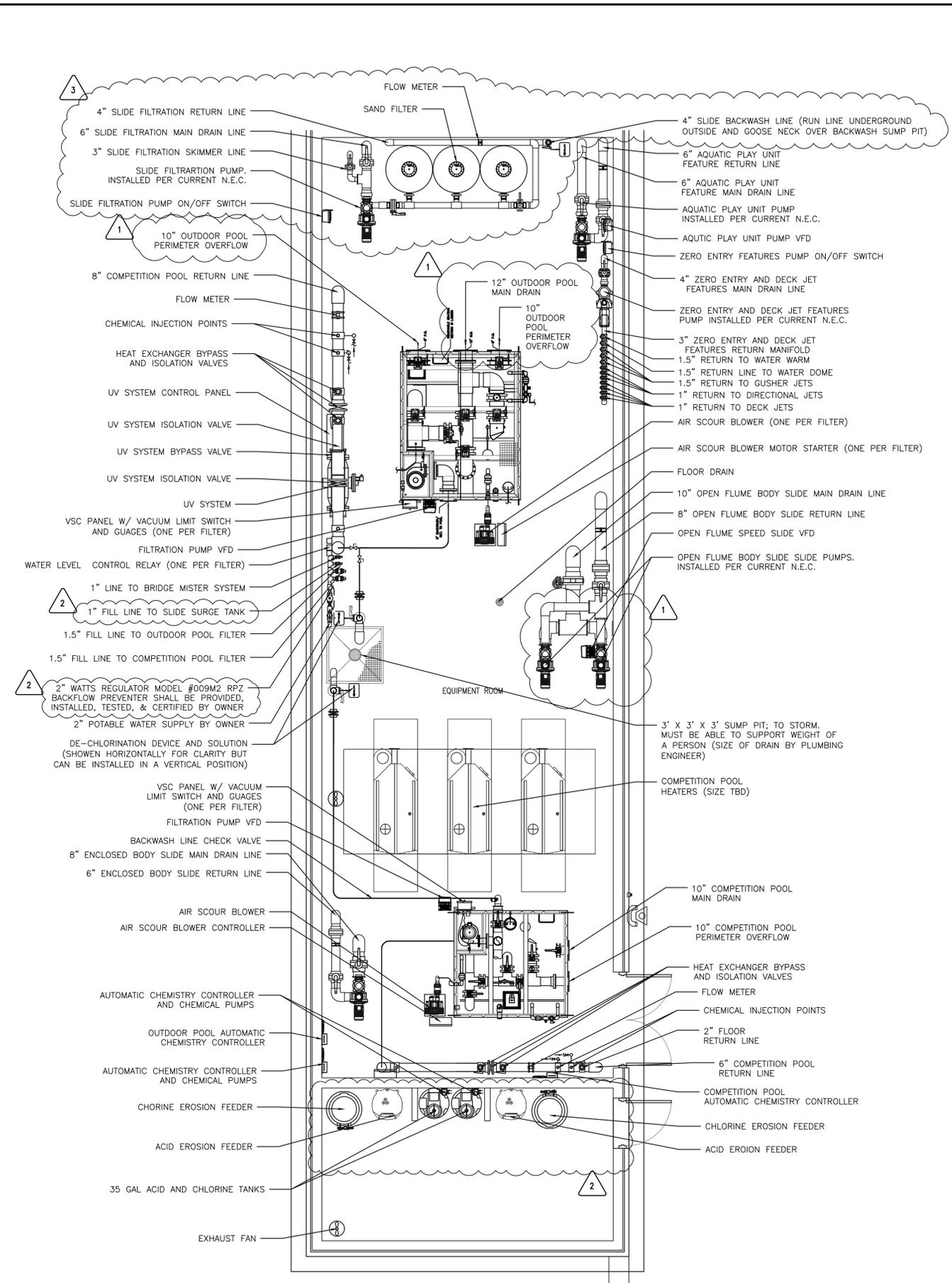
Project Number: 20-022-01

Sheet Number:

SP-2



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PROJECT # - 22-341



RECREATIONAL WATER PARK/ACTIVITY POOL ELECTRICAL REQUIREMENTS

QTY	EQUIPMENT	ELECTRICAL	NOTES (WORK BY OTHERS)
1	20 HP PUMP, FILTRATION	230/460V, THREE PHASE	RUN POWER TO DISCONNECT/VFD IN EQUIPMENT ROOM
1	2.5 HP AIR BLOWER	208-230/460 VAC, 3 PHASE, 7.4/6.7/3.8 AMPS	RUN POWER TO AIR SCOUR MOTOR STARTER
1	VSC AIR RELEASE & VACUUM CONTROL PANEL	120 VAC, SINGLE PHASE	WIRE TO FILTRATION PUMP VFD
4	10 HP LAZY RIVER PROPULSION PUMP	230/460V, 27/13.5A, 3PH	RUN POWER TO DISCONNECT/VFD IN PROPULSION PUMP HOUSE
3	VFD	HP, 3 PH	RUN POWER IN EQUIPMENT ROOM
1	UV SYSTEM	208/240V, 20/17A, 3PH	RUN POWER TO DISCONNECT IN EQUIPMENT ROOM
1	WATER CHEMISTRY CONTROLLER	115/230 VAC, SINGLE PHASE, 5A/3A	INTERLOCK WITH FILTRATION PUMP. IN THE EVENT THE POWER TO PUMP CUTS OFF, THEN CONTROLLER POWER CENTER CUTS OFF. WIRE TO FLOW SWITCH
1	1.5 HP CHLORINE BOOSTER PUMP	120 VAC, 15 AMP RATING	CONTROLLED BY AND INTERLOCKED WITH WATER CHEMISTRY CONTROLLER. IN THE EVENT THE FILTRATION PUMP CUTS OFF, THEN CHLORINATOR PUMP CUTS OFF.
1	1.5 HP ACID BOOSTER PUMP	120 VAC, 15 AMP RATING	CONTROLLED BY AND INTERLOCKED WITH WATER CHEMISTRY CONTROLLER. IN THE EVENT THE FILTRATION PUMP CUTS OFF, THEN CHLORINATOR PUMP CUTS OFF.
12	LED WHITE POOL LIGHT	55 WATT, 12V	POWER FROM POOL EQUIPMENT ROOM GFCI CIRCUITS TO TRANSFORMER/JUNCTION BOXES ON POOL DECK
4	STEP DOWN TRANSFORMER	300 WATT, 120V, 1 AMP INPUT, 12 OR 13 VAC OUTPUT	POWER FROM GFCI CIRCUITS TO LIGHT CONTROLLER, TO TRANSFORMER/JUNCTIONS BOXES ON POOL DECK
1	POOL EQUIPOTENTIAL BONDING GRID	MINIMUM 8 AWG SOLID COPPER BONDING WIRE	LOCATED AROUND POOL AND CONNECTED INTO POOL EQUIPMENT ROOM BONDING

SLIDES ELECTRICAL REQUIREMENTS

QTY	EQUIPMENT	ELECTRICAL	NOTES (WORK BY OTHERS)
1	5.5 HP PUMP	230/460V, 14.6-7.3A, 3PH	RUN POWER TO 'SOFT START' DISCONNECT IN EQUIPMENT ROOM
3	12.5 HP SLIDE FEATURE PUMP	230/460V, 3 PH, 31.6/15.8A	RUN POWER TO DISCONNECT/VFD IN EQUIPMENT ROOM
1	VFD	HP, 3 PH	RUN POWER IN EQUIPMENT ROOM
1	7.5 HP AQUATIC PLAY UNIT PUMP	230/460V, 3 PH, 21.0/10.5A	RUN POWER TO DISCONNECT IN EQUIPMENT ROOM
1	5 HP ZERO ENTRY AND DECK JET FEATURES PUMP	208-230/460V, 21/20A	RUN POWER TO DISCONNECT IN EQUIPMENT ROOM
1	WATER CHEMISTRY CONTROLLER	115/230 VAC, SINGLE PHASE, 5A/3A	INTERLOCK WITH FILTRATION PUMP. IN THE EVENT THE POWER TO PUMP CUTS OFF, THEN CONTROLLER POWER CENTER CUTS OFF. WIRE TO FLOW SWITCH
2	1/30 HP PUMP, CHEMICAL	120-220V, 1.7/0.9A	POWER CORD TO WATER CHEMISTRY CONTROLLER CONTACT, CHEMISTRY CONTROLLER CONTROLS PUMP POWER

COMPETITION POOL ELECTRICAL REQUIREMENTS

QTY	EQUIPMENT	ELECTRICAL	NOTES (WORK BY OTHERS)
1	15 HP PUMP, FILTRATION	230/460V, THREE PHASE	RUN POWER TO DISCONNECT/VFD IN EQUIPMENT ROOM
1	VFD	HP, 3 PH	RUN POWER IN EQUIPMENT ROOM
2	2.5 HP AIR BLOWER	208-230/460 VAC, 3 PHASE, 7.4/6.7/3.8 AMPS	RUN POWER TO AIR SCOUR MOTOR STARTER
2	VSC AIR RELEASE & VACUUM CONTROL PANEL	120 VAC, SINGLE PHASE	WIRE TO FILTRATION PUMP VFD
1	WATER CHEMISTRY CONTROLLER	115/230 VAC, SINGLE PHASE, 5A/3A	INTERLOCK WITH FILTRATION PUMP. IN THE EVENT THE POWER TO PUMP CUTS OFF, THEN CONTROLLER POWER CENTER CUTS OFF. WIRE TO FLOW SWITCH
1	1.5 HP CHLORINE BOOSTER PUMP	120 VAC, 15 AMP RATING	CONTROLLED BY AND INTERLOCKED WITH WATER CHEMISTRY CONTROLLER. IN THE EVENT THE FILTRATION PUMP CUTS OFF, THEN CHLORINATOR PUMP CUTS OFF.
1	1.5 HP ACID BOOSTER PUMP	120 VAC, 15 AMP RATING	CONTROLLED BY AND INTERLOCKED WITH WATER CHEMISTRY CONTROLLER. IN THE EVENT THE FILTRATION PUMP CUTS OFF, THEN CHLORINATOR PUMP CUTS OFF.
TBD	POOL HEATER	TBD	
6	LED WHITE POOL LIGHT	55 WATT, 12V	POWER FROM POOL EQUIPMENT ROOM GFCI CIRCUITS TO TRANSFORMER/JUNCTION BOXES ON POOL DECK
2	STEP DOWN TRANSFORMER	300 WATT, 120V, 1 AMP INPUT, 12 OR 13 VAC OUTPUT	POWER FROM GFCI CIRCUITS TO LIGHT CONTROLLER, TO TRANSFORMER/JUNCTIONS BOXES ON POOL DECK
1	POOL EQUIPOTENTIAL BONDING GRID	MINIMUM 8 AWG SOLID COPPER BONDING WIRE	LOCATED AROUND POOL AND CONNECTED INTO POOL EQUIPMENT ROOM BONDING



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Construction Documents

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REVISIONS	No.	Date
	0	10.25.22
	1	12.19.22
	2	04.19.23
	3	06.23.23

Issue Date: 06/23/2023

EQUIPMENT ROOM DETAILS

Project Number: 20-022-01

Sheet Number:

SP-7



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