A.M.D.G.

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV
West Memphis, AR 72301

CURRENT ISSUE: ISSUE FOR PERMIT
ISSUE DATE: 2026-05-01

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DRAWING ISSUE

IN	DATE	DESCRIPTION
	2025-09-29	ISSUE FOR SCHEMATIC DESIGN
	2025-12-22	ISSUE FOR DESIGN DEVELOPMENT
	2026-03-06	ISSUE FOR SITE PERMIT
	2026-03-16	75% CONSTRUCTION DOCUMENT PROGRESS

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JOB INFO

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SHEET TITLE

COVER PAGE

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G-000

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ABBREVIATIONS

	@	AT
	&	AND
A	AB	ANCHOR BOLT
	AFF	ABOVE FINISHED FLOOR
	AHJ	AUTHORITY HAVING JURISDICTION
	ALUM	ALUMINUM
	ANOD	ANODIZED
	AFES	AUTOMATIC FIRE EXTINGUISHING SYSTEM
B	BD	BOARD
	BLDG	BUILDING
	BLKG	BLOCKING
C	CL	CENTER LINE
	CAB	CABINET
	CB	CATCH BASIN
	CER	CERAMIC
	CJ	CONTROL JOINT
	CLG	CEILING
	CLO	CLOSET
	CLR	CLEAR
	CO	CASED OPENING
	COL	COLUMN
	CONC	CONCRETE
	CONSTR	CONSTRUCTION
	CONT	CONTINUOUS
	CONTR	CONTRACTOR
D	DBL	DOUBLE
	DET	DETAIL
	DIA	DIAMETER
	DN	DOWN
	DS	DOWN SPOUT
	DWG	DRAWING
E	EA	EACH
	EDF	ELECTRIC DRINKING FOUNTAIN
	EL	ELEVATION
	ELEC	ELECTRICAL
	ELEV	ELEVATOR
	EQ	EQUAL
	EJ	EXPANSION JOINT
	EXT	EXTERIOR
F	FA	FIRE ALARM
	FD	FLOOR DRAIN
	FE	FIRE EXTINGUISHER W/ WALL BRACKET
	FEC	FIRE EXTINGUISHER CABINET
	FHC	FIRE HOSE CABINET
	FIN	FINISH
	FLR	FLOOR
	FOC	FACE OF CONCRETE
	FOM	FACE OF MASONRY
	FOS	FACE OF STUD
	FT	FEET
G	GA	GAUGE
	GALV	GALVANIZED
	GI	GALVANIZED IRON
	GL	GLASS
	GYP BD	GYPSUM BOARD
H	HC	HOLLOW CORE
	HM	HOLLOW METAL
	HORIZ	HORIZONTAL
	HNDRL	HAND RAIL
	HT	HEIGHT
	HW	HOT WATER
I	ID	INSIDE DIAMETER
	IN	INCH
	INSUL	INSULATION
K	KIT	KITCHEN
L	LAV	LAVATORY
	LB	POUND
M	MAX	MAXIMUM
	MB	MINI BLINDS
	MEMB	MEMBRANE
	MFR	MANUFACTURER
	MTL	METAL
N	NIC	NOT IN CONTRACT
	NTS	NOT TO SCALE
O	OC	ON CENTER
	OD	OUTSIDE DIAMETER
	OPH	OPPOSITE HAND
P	PL	PROPERTY LINE
	PLAM	PLASTIC LAMINATE
	PLAS	PLASTIC
	PLYWD	PLYWOOD
	PTD	PAINTED
	PTN	PARTITION
R	R	RADIUS
	RA	RETURN AIR
	RB	RESILIENT BASE
	RD	ROOF DRAIN
	REF	REFERENCE
	REQD	REQUIRED
	RO	ROUGH OPENING
S	SC	SOLID CORE
	STN	STAIN
	SST	STAINLESS STEEL
	STD	STANDARD
	STOR	STORAGE
	STRUCT	STRUCTURAL
T	TOC	TOP OF CURB
	TCH	TRASH CHUTE
	THK	THICK
	TOC	TOP OF CONCRETE
	TOP	TOP OF PARAPET
	TOS	TOP OF STEEL
	TOW	TOP OF WALL
	TYP	TYPICAL
U	UR	URINAL
	UNO	UNLESS NOTED OTHERWISE
V	VR	VAPOR RETARDER
	VERT	VERTICAL
	VIF	VERIFY IN FIELD
W	WI	WITH
	WC	WATER CLOSET
	WH	WATER HEATER
	WP	WATER PROOF
	WD	WOOD

GRAPHICS AND SYMBOLS

CONSTRUCTION TYPE SYMBOLS

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED
- NEW NON-RATED CONSTRUCTION
- NEW SMOKE RATED CONSTRUCTION (30 MIN)
- NEW 1 HR. RATED CONSTRUCTION
- NEW 2 HR. RATED CONSTRUCTION
- NEW 3 HR. RATED CONSTRUCTION
- PROPERTY LINE
- MATCH LINE

PLAN REFERENCE SYMBOLS

- OFFICE / 1002 — ROOM NAME / ROOM NO. — ROOM SYMBOL
- 03 / A3.2 — DETAIL NO. — BUILDING SECTION SYMBOL
- 03 / A3.2 — SHEET NO. — WALL SECTION SYMBOL
- 01 / A12.34 — DETAIL NO. / SHEET NO. — INTERIOR ELEVATION SYMBOL
- 01 / A12.34 — DETAIL NO. / SHEET NO. — EXTERIOR ELEVATION SYMBOL
- 03 / A3.2 — DETAIL NO. / SHEET NO. — SECTION DETAIL SYMBOL (NOTE: SHADED ARROW IDENTIFIES VIEW DIRECTION)
- 03 / A3.1 — DETAIL NO. / SHEET NO. — ENLARGED DETAIL SYMBOL SECTION OR PLAN
- N — TRUE NORTH — PLAN NORTH
- DR/A — DOOR NO. — DOOR TAG
- W140 — PARTITION TAG (RE:PARTITION SCHEDULE)
- W1 — WINDOW TYPE SYMBOL
- TA-1 — EQUIPMENT REFERENCE
- 01.00 — KEY NOTE
- 1 — REVISION DELTA
- LEVEL 10'-0" — DATUM POINT
- ST PT — START POINT FOR CEILING GRIDS, FINISHES, ETC.
- 105.05 — FINISH GRADE ELEVATION

MATERIAL SYMBOLS - PLAN

- BRICK
- CONCRETE MASONRY UNIT
- CAST-IN-PLACE CONCRETE
- PRECAST CONCRETE
- STONE
- GRAVEL
- COMPACTED EARTH FILL

MATERIAL SYMBOLS - DETAIL

- STEEL
- OTHER METALS
- BATT INSULATION
- RIGID INSULATION
- GYPSUM BOARD
- PLASTER ON LATHE
- PLYWOOD
- MDF BOARD
- FINISHED WOOD
- GLASS
- TILE
- CARPET
- ACOUSTICAL TILE
- CONTINUOUS WOOD BLOCKING
- WOOD SHIM
- GRAVEL
- CONCRETE
- SAND

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	2026-01-12	ISSUE FOR DESIGN DEVELOPMENT
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JOB No.: WESCIT00561

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PROJECT INFORMATION

SCOPE OF WORK:
NEW CONSTRUCTION OF A RECREATION CENTER WITH NATATORIUM, COURTS,CONCESSIONS, OFFICES AND RESTROOMS.

AUTHORITES HAVING JURISDICTION:
CITY OF WEST MEMPHIS BUILDING DEPARTMENT AND FIRE DEPARTMENT

APPLICABLE CODES:

BUILDING CODE:	2021 ARKANSAS FIRE PREVENTION CODE VOL II (BUILDING)
ENERGY CODE:	2014 ARKANSAS ENERGY CODE
MECHANICAL CODE:	2021 ARKANSAS MECHANICAL CODE
ELECTRICAL CODE:	2023 NATIONAL ELECTRICAL CODE
PLUMBING CODE:	2018 ARKANSAS PLUMBING CODE AND ARKANSAS GAS CODE
FIRE CODE:	2021 ARKANSAS FIRE PREVENTION CODE VOL 1 (FIRE)
ACCESSIBILITY:	2010 ADA STANDARDS

BUILDING ADDRESS:
ST HWY 191I-40 SERV, West Memphis, AR 72301

BUILDING NUMBER:
1 OF 1

BUILDING HEIGHT:
37'-5 1/4"

NUMBER OF STORIES:
1 STORY

BUILDING AREA:

TYPE	AREA
CONDITIONED	83,108 SF
UNCONDITIONED	4,495 SF
TOTAL GROSS	87,603 SF

VICINITY MAP

BUILDING OCCUPANCY AND CONSTRUCTION

OCCUPANCY CLASSIFICATION (IBC SECTION 302):
NON-SEPARATED MIXED USE:
A-4 ASSEMBLY (PRIMARY USE)
A-2 ASSEMBLY
A-3 ASSEMBLY
B BUSINESS
S STORAGE

H-2 HAZARD

CONSTRUCTION TYPE (IBC TABLE 601):
TYPE II-B

ALLOWABLE HEIGHT/STORIES ABOVE GRADE PLANE (IBC TABLE 504.3 & 504.4)
HEIGHT: 75FT
STORIES : 1 (PER 507.4 RESTRICTIONS)

ALLOWABLE BUILDING AREA (IBC TABLE 506.2)
BASED ON THE MOST RESTRICTIVE USE FOR NON-SEPARATED MIX USE
AREA (SPRINKLERED): 38,000 SF
FRONTAGE INCREASE: N/A
TOTAL ALLOWABLE: UNLIMITED PER SEC 507.4

REQUIRED SEPARATION OF OCCUPANCIES (IBC TABLE 508.4)

OCCUPANCY TYPE	ADJACENT OCCUPANCY	REQUIRED SEPARATION (HOURS)
H-2	A,S-2	3
H-2	B	2

FIRE RESISTANCE REQUIREMENTS

FIRE RESISTANCE REQUIREMENTS FOR ALL BUILDING ELEMENTS (IBC TABLE 601)

BUILDING ELEMENT	FIRE RATING (HOURS)	UL ASSEMBLY
PRIMARY STRUCTURAL FRAME	0	N/A
BEARING WALLS		
EXTERIOR	0	N/A
INTERIOR	0	N/A
NON-BEARING WALLS & PARTITIONS		
INTERIOR	0	N/A
FLOOR CONSTRUCTION & ASSOCIATED SECONDARY STRUCTURAL MEMBERS	0	N/A
ROOF CONSTRUCTION & ASSOCIATED SECONDARY STRUCTURAL MEMBERS	0	N/A

FIRE PROTECTION (IBC SECTION 903, 906.1 & 907.2.1)
AUTOMATIC FIRE SPRINKLER SYSTEM: REQUIRED & PROVIDED, RE: SHEET XX.XXXX
PORTABLE FIRE EXTINGUISHER: REQUIRED & PROVIDED, RE: SHEET G-012
FIRE ALARM DETECTION SYSTEM
MANUAL FIRE ALARM BOXES: NOT REQUIRED

FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS (IBC TABLE 705.5)

FIRE SEPARATION (FEET)	FIRE RESISTANCE (HOURS)
X ≥ 30'	H OCC = 0 HR A,B,S-E OCC = 0 HR

MAXIMUM AREA OF EXTERIOR WALL OPENINGS (IBC TABLE 705.8)

FIRE SEPARATION (FEET)	DEGREE OF OPENING PROTECTION	ALLOWABLE PERCENT:
X ≥ 30'	UNPROTECTED, SPRINKLERED	NO LIMIT

CONCEALED SPACES (SECTION 718)
DRAFTSTOPPING NOT REQUIRED IN NON-COMBUSTIBLE CONSTRUCTION AND BUILDINGS EQUIPPED WITH AUTOMATIC SPRINKLER SYSTEM.
FIREBLOCKING (718.2)
CONCEALED WALL SPACES (718.2.2)
DRAFTSTOPPING IN FLOORS NOT REQUIRED (718.3)
DRAFTSTOPPING IN ATTICS NOT REQUIRED (718.4)

CORRIDOR FIRE-RESISTANCE RATING (TABLE 1020.2)

OCCUPANCY	OCCUPANCY LOAD SERVED BY CORRIDOR	REQUIRED FIRE RATING
A	> 30	WITH SPRINKLER = 0 HR

PLUMBING FIXTURE COUNTS - BUILDING

MINIMUM FIXTURES REQUIRED ARE CALCULATED BASED ON 50% MALE AND 50% FEMALE OCCUPANTS

ASSEMBLY
1,195 OCCUPANTS = 598 MALE, 598 FEMALE

STORAGE
5 OCCUPANTS = 3 MALE, 3 FEMALE

CLASSIFICATION	DESCRIPTION	WATER CLOSET MALE	WATER CLOSET FEMALE	LAVATORIES MALE	LAVATORIES FEMALE	SHOWERS	DRINKING FOUNTAINS	SERVICE SINKS
ASSEMBLY CODE REQTS.	INDOOR SPORTING EVENTS	FIRST 1,500 = 1/75 REMAINDER = 1/120	FIRST 1,520 = 1/40 REMAINDER = 1/60	1/200	1/150	--	1/1,000	1
FIXTURES REQUIRED		7.97	14.95	2.99	3.99	--	1.20	1
STORAGE CODE REQTS.	CHEMICAL STORAGE ROOMS	1/100	1/100	1/100	1/100	--	1/1,000	1
FIXTURES REQUIRED		.03	.03	.03	.03	--	.01	1
TOTAL FIXTURES REQUIRED		8	15	4	5	--	2	2
TOTAL FIXTURES PROVIDED		15+2*	15	11+2*	11	--	4	2

NOTES:
* UNISEX RESTROOMS

PLUMBING FIXTURE COUNTS - POOL

ISPSC 2018 SECTION 609
MINIMUM FIXTURES REQUIRED ARE CALCULATED BASED ON 50% MALE AND 50% FEMALE OCCUPANTS

2,000 OCCUPANTS = 600 MALE, 600 FEMALE

	WATER CLOSET MALE	WATER CLOSET FEMALE	URINAL MALE	LAVATORIES MALE	LAVATORIES FEMALE	CLEANSING SHOWERS MALE	CLEANSING SHOWERS FEMALE	RINSE SHOWERS MALE	RINSE SHOWERS FEMALE
FIXTURES REQUIRED	1**	3	1	1***	2	2	2	1	1
TOTAL FIXTURES PROVIDED *	--	--	--	--	--	3	3	1	1

NOTES:
* SEE SECTION ABOVE FOR TOTAL WATER CLOSETS AND LAVATORIES PROVIDED
** .7X(8,067/7,500)= .76 =1
*** .85X(8,067/7,500)= .92 =1

ENERGY CODE

CLIMATE ZONE:
3

INTERNATIONAL ENERGY CONSERVATION CODE REQUIREMENTS:

	CODE DESIGN REQUIREMENTS	PROPOSED DESIGN VALUES
WINDOWS	U-FACTOR: ≤ 0.50 SHGC: ≤ 0.30 VISIBLE LIGHT TRANSMISSION:	U-FACTOR: SHGC: VISIBLE LIGHT TRANSMISSION:
DOORS	U-FACTOR: ≤ 0.65	U-FACTOR:
OVERHEAD DOOR	U-FACTOR:	U-FACTOR:
WALL INSULATION	METAL BUILDING R-VALUE: R-13 + R-3 CONTINUOUS INSULATION OR EQUIVALENT	R-VALUE: X
ROOF INSULATION	METAL BUILDING R-VALUE: R-19 W/ R-5 THERMAL BLOCKS	R-VALUE: X

NOTE: R-VALUES LISTED ARE MINIMUMS, U-FACTORS LISTED ARE MAXIMUMS

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TBAE REG. No. BR-4215

CONSULTANT

JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191I-40 SERV
West Memphis, AR 72301

JOB No.: WESCIT00561

SHEET TITLE

CODE ANALYSIS

SHEET NUMBER

G-010

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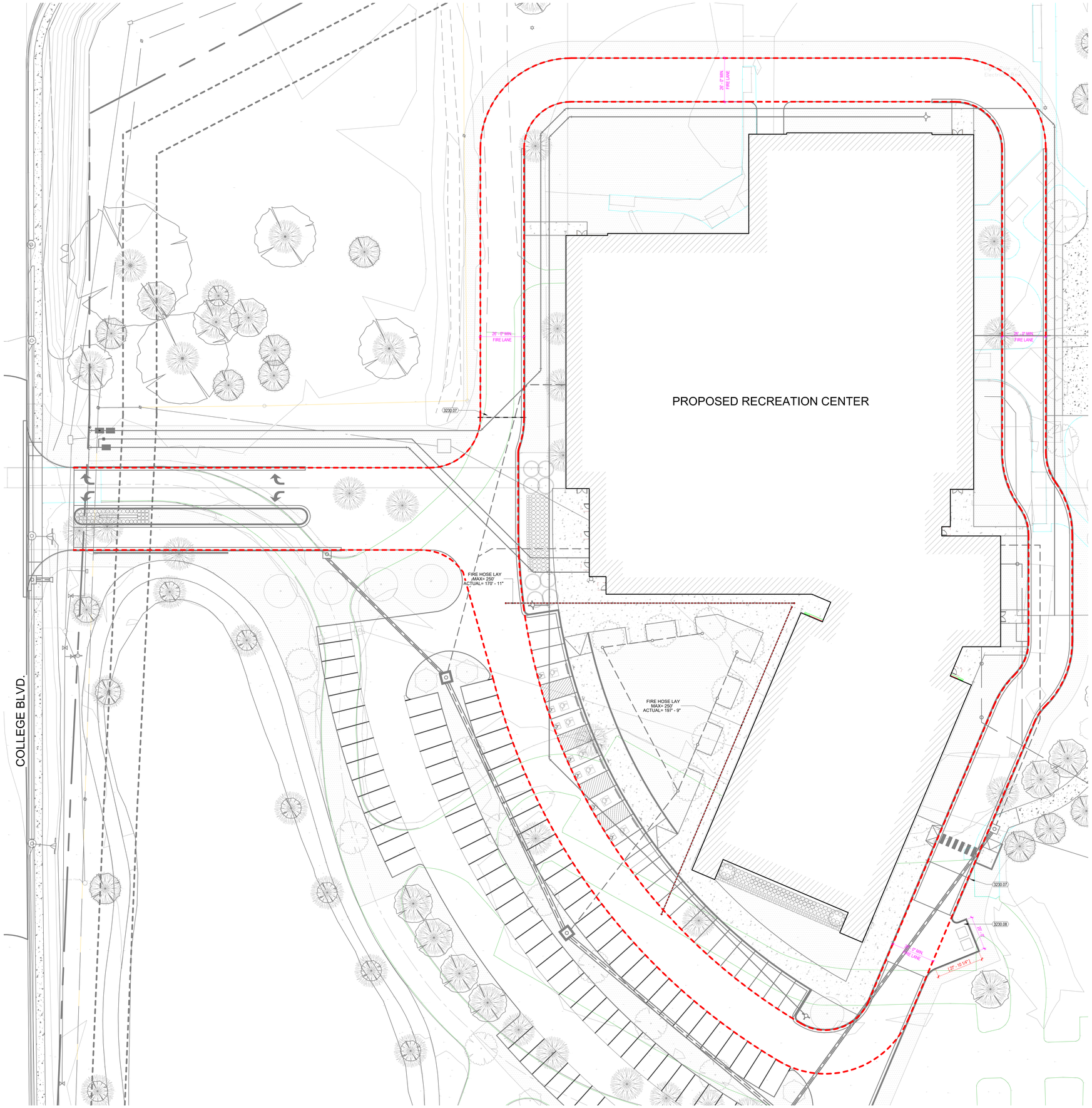

GENERAL NOTES - FIRE HOSE LAY

1. ANY DIMENSIONS INDICATED ON THIS PLAN ARE FOR LIFE SAFETY REVIEW ONLY AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES OR SIZES.
2. FIRE ACCESS ROADS TO MEET ALL APPLICABLE REQUIREMENTS OF APPENDIX D OF THE INTERNATIONAL FIRE CODE
3. REFER TO CIVIL DRAWINGS FOR LOCATIONS OF EXISTING AND PROPOSED FIRE HYDRANTS.

LEGEND - FIRE HOSE LAY

FIRE LANE

START — END

FIRE HOSE LAY DISTANCE
MAX = _____
ACTUAL= _____

*(S) SPRINKLED

KEYNOTES

NOTE: KEYNOTE NUMBERING IS FOR ORGANIZATIONAL PURPOSES ONLY AND NOT INTENDED TO REFERENCE A SPECIFIC CSI DIVISION

NUMBER	DESCRIPTION
3230.07	EMERGENCY BREAKAWAY GATE RE: LANDSCAPE
3230.08	ASPHALT DUMPSTER PAD

FIRE HOSE LAY 1
1" = 20'-0"

SEAL

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LICENSE #912494

IT IS NOT TO BE USED FOR CONSTRUCTION PURPOSES

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City of West Memphis
205 Redding St. West
Memphis, AR 72301

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	2025-04-04	ISSUE FOR 50% SET
	2025-05-16	75% CONSTRUCTION DOCUMENT PROGRESS

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CONSULTANT

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CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV
West Memphis, AR 72301

JOB No.: WESCIT00561

SHEET TITLE

FIRE ACCESS PLAN

SHEET NUMBER

G-011

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A.M.O.G.

MEANS OF EGRESS REQUIREMENTS

MEANS OF EGRESS SIZING (IBC SECTION 1005)

EXIT WIDTH REQUIRED FOR OTHER EGRESS COMPONENTS: 1,200 X .15 = 180"
TOTAL EGRESS DOOR WIDTH PROVIDED: (2) 3' DOORS AND (6) 6' DOUBLE DOORS = 648"

NOTES:
1. EGRESS REQUIREMENTS SHALL NOT BE LESS THAN REQUIRED BY 2021 ARKANSAS FIRE PREVENTION CODE VOL II AND ELSEWHERE AS REQUIRED BY APPLICABLE CODE. INCLUDING THE AMERICANS WITH DISABILITIES ACT (ADA). IN THE EVENT OF DISCREPANCIES BETWEEN CODES, COMPLY WITH THE MORE RESTRICTIVE REQUIREMENT IN ALL CASES.
2. MEANS OF EGRESS DOORS SHALL MEET THE REQUIREMENTS OF THE 2021 ARKANSAS FIRE PREVENTION CODE VOL II SECTION 1005 AND ADA SECTION 404. DOORS PROVIDED FOR EGRESS PURPOSES IN NUMBERS GREATER THAN REQUIRED BY CODE SHALL ALSO MEET THE REQUIREMENTS OF THESE SECTIONS.
3. PROJECTIONS INTO THE REQUIRED EGRESS CLEAR OPENING WIDTH, INCLUDING HANDRAILS, SHALL COMPLY WITH THE 2021 ARKANSAS FIRE PREVENTION CODE VOL II SECTION 1005.7 AND ADA SECTION 307 NOT TO EXCEED 4" BETWEEN 27" AND 80" ABOVE THE FLOOR OR GROUND.

COMMON PATH OF EGRESS TRAVEL DISTANCE (IBC TABLE 1006.2.1)

OCCUPANCY TYPE	MAX OCC LOAD OF SPACE:	MAX COMMON PATH OF EGREES TRAVEL DISTANCE
A	49	WITH SPRINKLER SYSTEM = 75'
H-2	3	WITH SPRINKLER SYSTEM = 25'

MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY (IBC TABLE 1006.3.3)
NUMBER OF EXITS REQUIRED: 4
NUMBER OF EXITS PROVIDED:

EXIT ACCESS TRAVEL DISTANCE (IBC TABLE 1017.2)
OCCUPANCY TYPE A WITH SPRINKLER SYSTEM = 250' MAX

DEAD END CORRIDOR (SECTION 1020.5)
20FT

GENERAL NOTES - LIFE SAFETY

1. ANY DOORS SHOWN IN RATED ASSEMBLIES SHALL ALSO BE RATED AS REQUIRED BY CODE. REFERENCE DOOR SCHEDULE.
2. ANY SIZES INDICATED ON THIS PLAN ARE FOR LIFE SAFETY REVIEW ONLY AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES OR SIZES.
3. ALL LIFE SAFETY DEVICES SHOWN ARE REQUIRED, BUT PRODUCT TYPES, DETAILS, MEANS, AND METHODS MUST BE FULLY COORDINATED BY THE CONTRACTOR.
4. MINIMUM SETBACKS SHOWN FOR REFERENCE ONLY IN THESE DRAWINGS.
5. DO NOT SCALE DIMENSIONS FROM DRAWINGS, ANY UNKNOWN DIMENSIONS SHALL BE OBTAINED FROM DESIGN PROFESSIONALS.
6. ROOM AND DOOR NUMBERS ARE FOR CONSTRUCTION & DESIGN COORDINATION. FINAL ROOM NAMES AND NUMBERS SHALL BE CONFIRMED PRIOR TO FABRICATION OF SIGNAGE.
7. FURNITURE SHOWN IS BY OTHERS AND IS FOR PLANNING PURPOSES ONLY.
8. FIRE EXTINGUISHERS SHALL BE INSTALLED PER NFPA 10.
9. REFER TO MECHANICAL DRAWINGS FOR SMOKE AND/OR FIRE DAMPER LOCATIONS.
10. REFER TO ELECTRICAL DRAWINGS SMOKE DETECTOR LOCATIONS.
11. EXIT SIGN LOCATIONS/QUANTITIES INDICATED ARE APPROXIMATE AND ADDITIONAL SIGNS MAY BE REQUIRED BY THE AUTHORITY HAVING JURISDICTION. CONFIRM FINAL LOCATIONS WITH THE AHJ PRIOR TO INSTALLATION AND PROVIDE ANY ADDITIONAL EXIT SIGNS AS REQUIRED BY THE AHJ.

LEGEND - LIFE SAFETY

START — EXIT — TRAVEL DISTANCE MAX = _____ ACTUAL= _____ *(S) SPRINKLED

COMMON PATH MAX = _____ ACTUAL= _____

FEC — FE: WALL MOUNTED FIRE EXTINGUISHER
FEC: FIRE EXTINGUISHER CABINET
75' RADIUS SHOWN

EXIT SIGN

.5 HOUR RATED WALL

1 HOUR RATED WALL

2 HOUR RATED WALL

3 HOUR RATED WALL

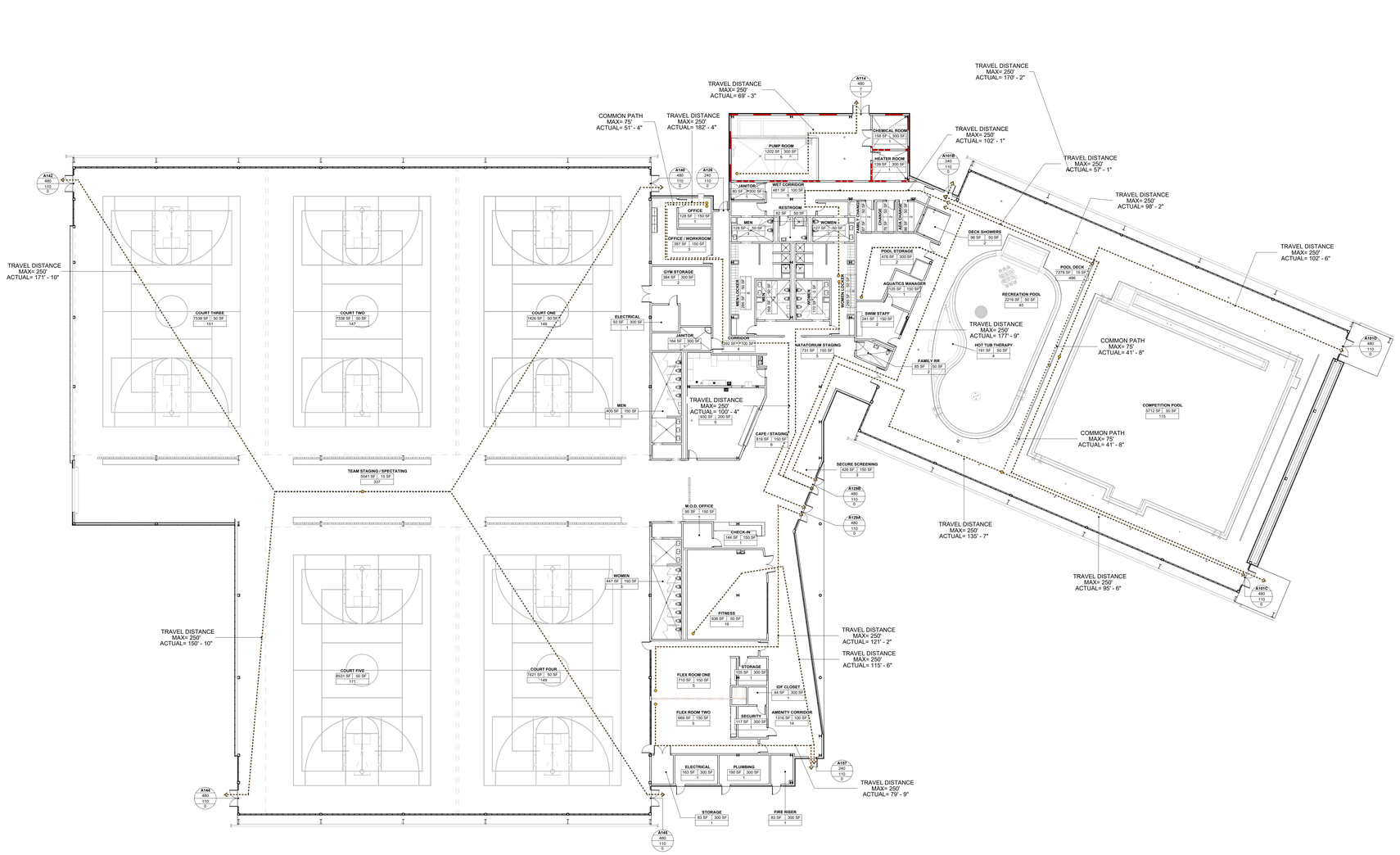
ROOM NAME
5,000 SF | 50 SF — OCCUPANCY LOAD FACTOR
100 — OCCUPANCY LOAD
ROOM AREA

100 — DOOR NUMBER
180 — MAX EGRESS CAPACITY
50 — ACTUAL EGRESS LOAD
1 HR — DOOR FIRE RATING

KEYNOTES

NOTE: KEYNOTE NUMBERING IS FOR ORGANIZATIONAL PURPOSES ONLY AND NOT INTENDED TO REFERENCE A SPECIFIC CSI DIVISION

NUMBER	DESCRIPTION



OCCUPANCY LOADS (IBC TABLE 1004.5)

ROOM DATA				OCCUPANCY LOADS		
RM #	NAME	AREA	OCC. TYPE	O.L.F.	O.L.
A137	CONCESSION	930 SF	A-2	200 SF	5
A-2		930 SF			5
A134	FITNESS	938 SF	A-3	50 SF	19
A-3		938 SF			19
A100	COMPETITION POOL	5,712 SF	A-4	50 SF	115
A101	POOL DECK	7,279 SF	A-4	15 SF	486
A102	RECREATION POOL	2,216 SF	A-4	50 SF	45
A103	HOT TUB THERAPY	191 SF	A-4	50 SF	4
A125	WOMEN	170 SF	A-4	0 SF	
A140	COURT ONE	7,426 SF	A-4	50 SF	149
A141	COURT TWO	7,338 SF	A-4	50 SF	147
A142	COURT THREE	7,538 SF	A-4	50 SF	151
A144	COURT FIVE	8,531 SF	A-4	50 SF	171
A145	COURT FOUR	7,421 SF	A-4	50 SF	149
A146	TEAM STAGING / SPECTATING	5,041 SF	A-4	15 SF	337
A-4		58,862 SF			1,754
A104	SWIM STAFF	241 SF	B	150 SF	2
A105	AQUATICS MANAGER	125 SF	B	150 SF	1
A107	DECK SHOWERS	96 SF	B	50 SF	2
A108	ADA CHANGE	86 SF	B	50 SF	2
A109	CHANGE	76 SF	B	50 SF	2
A110	FAMILY CHANGE	87 SF	B	50 SF	2
A111	WOMEN SHOWER	142 SF	B	50 SF	3
A112	WOMEN LOCKER	285 SF	B	50 SF	6
A113	FAMILY RR	85 SF	B	50 SF	2
A115	WET CORRIDOR	481 SF	B	100 SF	5
A117	VESTIBULE	57 SF	B	100 SF	1
A118	VESTIBULE	62 SF	B	100 SF	1
A119	WOMEN	127 SF	B	50 SF	3
A120	RESTROOM	82 SF	B	50 SF	2
A121	MEN	128 SF	B	50 SF	3
A122	MEN SHOWER	140 SF	B	50 SF	3
A123	MEN LOCKER	286 SF	B	50 SF	6
A124	MEN	168 SF	B	50 SF	4
A126	CORRIDOR	392 SF	B	100 SF	4
A127	NATATORIUM STAGING	731 SF	B	150 SF	5
A129	SECURE SCREENING	426 SF	B	150 SF	3
A132	FLEX ROOM TWO	669 SF	B	150 SF	5
A133	FLEX ROOM ONE	710 SF	B	150 SF	5
A135	ENTRY / STAGING	906 SF	B	150 SF	7
A136	CHECK-IN	144 SF	B	150 SF	1
A138	OFFICE / WORKROOM	387 SF	B	150 SF	3
A139	OFFICE	128 SF	B	150 SF	1
A153	WOMEN	447 SF	B	150 SF	3
A154	MEN	405 SF	B	150 SF	3
A156	M.O.D. OFFICE	95 SF	B	150 SF	1
A157	AMENITY CORRIDOR	1,316 SF	B	100 SF	14
A158	CAFE / STAGING	819 SF	B	150 SF	6
B		10,329 SF			111
A114	PUMP ROOM	1,202 SF	H-2	300 SF	5
A151	CHEMICAL ROOM	158 SF	H-2	300 SF	1
H-2		1,360 SF			6
A106	POOL STORAGE	476 SF	S-2	300 SF	2
A116	HEATER ROOM	139 SF	S-2	300 SF	1
A128	JANITOR	164 SF	S-2	300 SF	1
A130	PLUMBING	190 SF	S-2	300 SF	1
A131	STORAGE	83 SF	S-2	300 SF	1
A148	ELECTRICAL	93 SF	S-2	300 SF	1
A149	GYM STORAGE	384 SF	S-2	300 SF	2
A150	SECURITY	117 SF	S-2	300 SF	1
A152	STORAGE	105 SF	S-2	300 SF	1
A155	FIRE RISER	83 SF	S-2	300 SF	1
A159	JANITOR	80 SF	S-2	300 SF	1
A160	ELECTRICAL	163 SF	S-2	300 SF	1
A161	IDF CLOSET	44 SF	S-2	300 SF	1
S-2		2,122 SF			15
		74,540 SF			1,910

CALCULATION NOTES

1. BUILDING OCCUPANT LOAD SHALL BE LIMITED TO 1,200 OCCUPANTS.
2. OCCUPANCY TYPES B, S-2, A-2, A-3 DO NOT EXCEED 10% OF FLOOR AREA AND SERVICE THE PRIMARY A-4 OCCUPANCY, THEREFORE CLASSIFYING THEM AS ACCESSORY OCCUPANCIES PER IBC SECTION 508.2.
3. 'N/A' OCCUPANCY CATEGORY - NOT REGULARLY OCCUPIED SPACES.

LEVEL 01 - LIFE SAFETY 1
1/16" = 1'-0"

SEAL

CLIENT

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205 Redding St. West
Memphis, AR 72301

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IN	DATE	DESCRIPTION
	2025-01-17	ISSUE FOR DESIGN DEVELOPMENT
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JOB No.: WESCIT00561

SHEET TITLE
LIFE SAFETY PLAN

SHEET NUMBER
G-012

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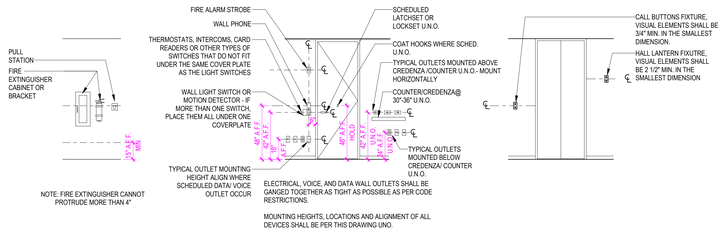
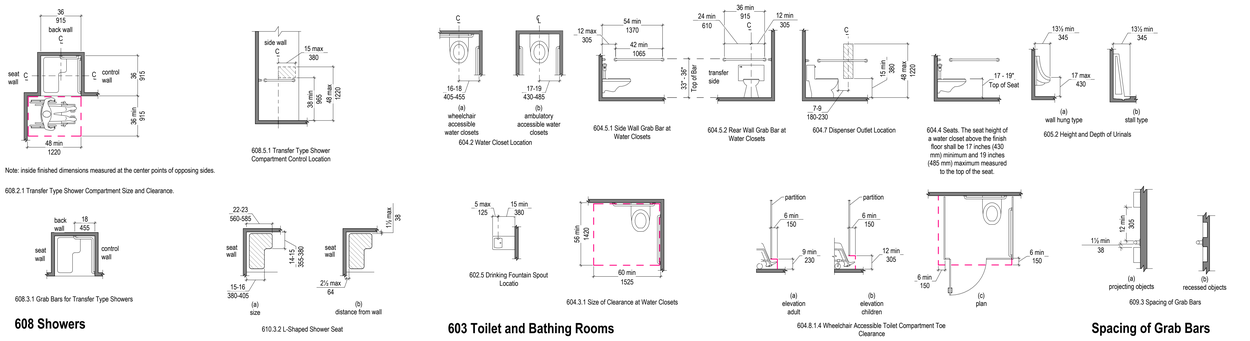


FIRE PROTECTION **TYPICAL** **ELEVATOR**

Graphic Convention for Figures

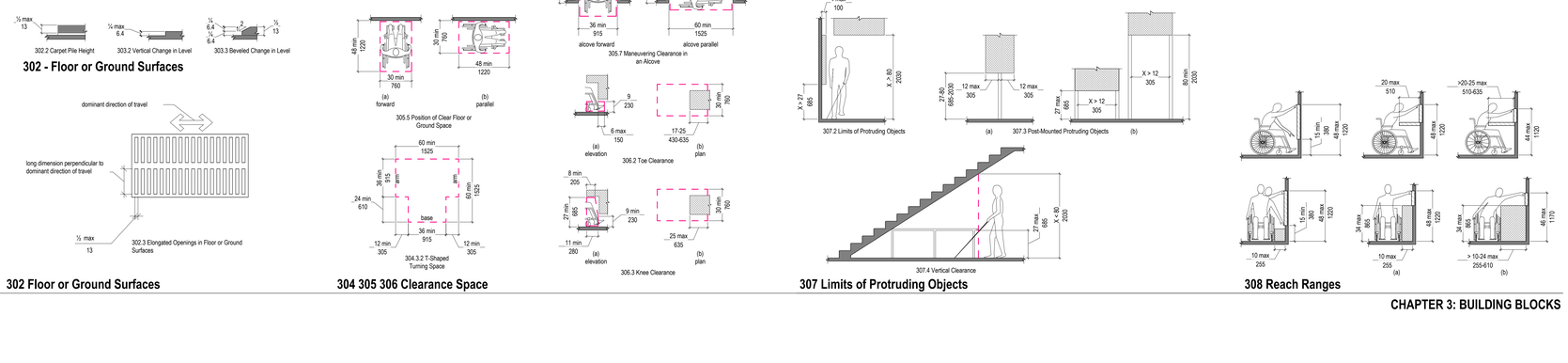
Convention	Description
36 915	dimension showing English units (in inches unless otherwise specified) above the line and SI units (in millimeters unless otherwise specified) below the line
6 150	dimension for small measurements
33-36 840-915	dimension showing a range with minimum - maximum
min	minimum
max	maximum
>	greater than
≥	greater than or equal to
<	less than
≤	less than or equal to
	boundary of clear floor space or maneuvering clearance
	centerline
	a permitted element or its extension
	direction of travel or approach
	a wall, floor, ceiling or other element cut in section or plan
	a highlighted element in elevation or plan
	location zone of element, control or feature

TYPICAL INSTALLATION HEIGHTS



CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

CHAPTER 4: ACCESSIBLE ROUTES



CHAPTER 3: BUILDING BLOCKS

SEAL

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Memphis, AR 72301

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JOB No.: WESCIT00561

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SHEET NUMBER
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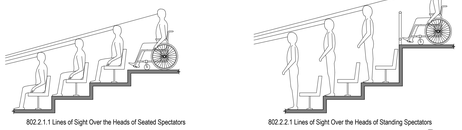
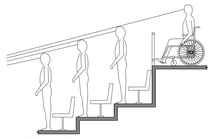
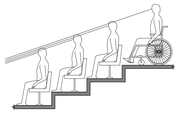
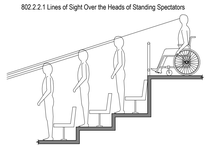

802.2.1.1 Lines of Sight Over the Heads of Seated Spectators

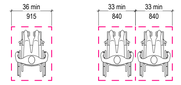

802.2.2.1 Lines of Sight Over the Heads of Standing Spectators


802.2.1.2 Lines of Sight Between the Heads of Seated Spectators


802.2.2.2 Lines of Sight Between the Heads of Standing Spectators

Lines of Sight Over the Heads of Seated Spectators

NOTE: NOT ALL DETAILS OR CONDITIONS SHOWN ON THIS SHEET WILL BE USED .

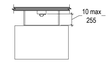


Width of Wheelchair Spaces in Assembly Areas

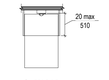
CHAPTER 8: SPECIAL ROOMS, SPACES AND ELEMENTS

703.7.2.4 International Symbol of Access for Hearing Loss

703.7.2.1 International Symbol of Accessibility



704.2.1.1 Parallel Approach to Telephone



704.2.1.2 Forward Approach to Telephone

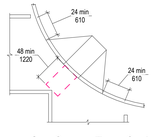
(a) 12-key ascending (b) 12-key descending
707.6.2 Numeric Key Layout

703.7.2.3 Volume-Controlled Telephone

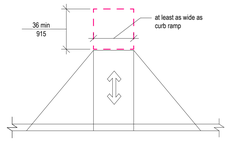
703.7.2.2 International TTY Symbol

CHAPTER 7: COMMUNICATION ELEMENTS AND FEATURES

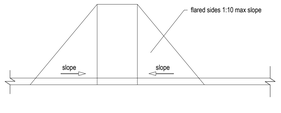
Counter Slope of Surfaces Adjacent to Curb Ramps



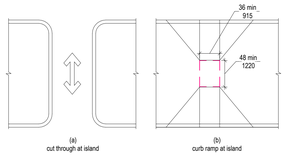
Diagonal or Corner Type Curb Ramps



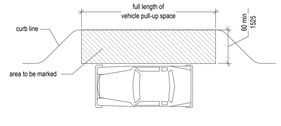
Landings at the Top of Curb Ramps



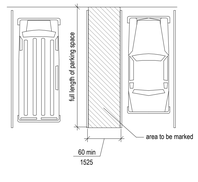
Sides of Curb Ramps



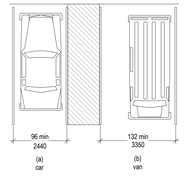
Islands in Crossings



Passenger Loading Zone Access Aisle



Parking Space Access Aisle



Vehicle Parking Spaces

CHAPTER 5: GENERAL SITE AND BUILDING ELEMENTS

SEAL

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	2025-01-17	ISSUE FOR DESIGN DEVELOPMENT
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ARCHITECT

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SHEET TITLE

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GENERAL NOTES

A. ENGINEER SEAL

1. THESE DRAWINGS HAVE BEEN PREPARED FOR THE EXCLUSIVE USE OF THE CLIENT AND ARE NOT INTENDED FOR ANY OTHER PURPOSE. TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS MEET THE REQUIREMENTS SET FORTH BY THE LOCAL GOVERNMENTAL AUTHORITY (LGA). THESE DRAWINGS SHOULD NOT BE CONSTRUED TO MEET ALL REQUIREMENTS FOR THE CONSTRUCTION OF THE WATER FEATURE, BUT ONLY THOSE REQUIREMENTS SET FORTH BY THE LGA.
2. THE WATER FEATURE(S) THAT IS INCORPORATED INTO THESE DRAWINGS MUST BE IN STRICT ACCORDANCE WITH THE APPROVED DRAWINGS IN ORDER TO QUALIFY FOR A LGA OPERATING PERMIT OR COMPLETION CERTIFICATE. ALL CHANGES MUST HAVE WRITTEN APPROVAL FROM MARTIN AQUATIC AND THE LGA PRIOR TO SUCH CHANGE OR ALTERATION BEING IMPLEMENTED. SUCH CHANGES INCLUDE THE UNAUTHORIZED SUBSTITUTIONS OR ALTERATIONS CONCERNING THE COLORS AND TEXTURES OF THE SPECIFIED MATERIALS.
3. UNLESS THE WATER FEATURE CONSTRUCTION COMMENCES WITHIN ONE YEAR FROM THE LGA APPROVAL DATE, THE PERMIT AND THESE DRAWINGS ARE NO LONGER VALID.
4. REFER TO THE CONTRACTUAL AGREEMENT FOR ADDITIONAL INFORMATION PERTAINING TO MARTIN AQUATIC'S CONSTRUCTION ADMINISTRATION (CA) SERVICES APPLICABLE TO THIS PROJECT; HOWEVER, IN ORDER TO BE ELIGIBLE FOR AN ENGINEERING CERTIFICATION (NECESSARY FOR AN OPERATING PERMIT APPLICATION - IF APPLICABLE), THE FOLLOWING SUCCESSFUL PROJECT OBSERVATION(S) AND WORKMANSHIP STANDARDS ARE REQUIRED BY MARTIN AQUATIC:
   a. OBSERVATIONS: REFER TO THE TECHNICAL SPECIFICATIONS FOR THE REQUIRED INTERIM OBSERVATIONS & SUBSTANTIAL COMPLETION OBSERVATION.
   b. A SUBSTANTIAL COMPLETION ENGINEERING ON-SITE CERTIFICATION OBSERVATION MUST BE SUCCESSFULLY CONDUCTED BY MARTIN AQUATIC PRIOR TO THE OWNER'S ACCEPTANCE, ISSUANCE OF THE OPERATING PERMIT, AND CONTRACTOR'S RECOGNIZED COMPLETION. REFER TO THE TECHNICAL SPECIFICATIONS FOR THE REQUIREMENTS.
   c. WORKMANSHIP STANDARDS: THE QUALITY AND APPEARANCE OF THE "WORK" SHALL BE "HIGH QUALITY AND BE SUBJECT TO THE ENGINEER'S JUDGMENT AS TO COMPLIANCE WITH EXCELLENT WORKMANSHIP STANDARDS. WORK DEEMED BY THE ENGINEER AS "SUB-STANDARD" OR "SUB-QUALITY" WILL NOT BE RECOMMENDED FOR ACCEPTANCE.
5. UNLESS OTHERWISE NOTED, THE ENGINEERING SEAL AFFIXED TO THESE DRAWINGS IS LIMITED TO HYDRAULICS FOR AQUATIC EQUIPMENT, THE LGA COMPLIANCE, STRUCTURAL ENGINEERING, ELECTRICAL CONTROLS, AND ELECTRICAL ENGINEERING FOR AQUATIC SUB-PANELS WITH DISTRIBUTION TO AQUATIC EQUIPMENT ONLY. ALL STRUCTURAL ENGINEERING IS SUBJECT TO THE CONTRACTOR'S COMPLIANCE WITH THE GEOTECHNICAL CONSULTANT'S EXACTING RECOMMENDATIONS AND REQUIRED SOILS PREPARATIONS.
6. ONLY DRAWINGS FROM MARTIN AQUATIC THAT ARE MARKED "FOR CONSTRUCTION" AND WITH THE LGA APPROVAL NUMBER AND APPROVAL DATE AFFIXED SHALL BE USED FOR THE WATER FEATURE CONSTRUCTION IMPLEMENTATION.
7. SUBSTITUTIONS: ALL ASSEMBLIES, PRODUCTS, AND MODEL NUMBERS SHALL BE PROVIDED (AS SPECIFIED HEREIN) BY THE CONTRACTOR WITHOUT EXCEPTION.
   a. HOWEVER, IF A POSSIBLE SUBSTITUTION MIGHT RESULT IN A SUBSTANTIAL COSTS SAVINGS FOR THE OWNER / CLIENT AND IT IS DETERMINED BY MARTIN AQUATIC THAT THE PRODUCT SUBSTITUTION IS ACCEPTABLE AND SUBSTANTIALLY EQUAL TO THE SPECIFIED PRODUCT, A WRITTEN APPROVAL OF THE SUBSTITUTION WILL BE ISSUED BY MARTIN AQUATIC. SUBSTITUTIONS THAT ARE NOT EQUAL OR DO NOT RESULT IN SUBSTANTIAL COSTS SAVINGS FOR THE OWNER / CLIENT SHALL NOT BE CONSIDERED. THE CONTRACTOR SHALL NOT PROCEED WITH THE POSSIBLE SUBSTITUTION UNLESS THE WRITTEN APPROVAL IS PROVIDED BY MARTIN AQUATIC. ALL SUBSTITUTION REQUESTS SHALL BE MADE IN WRITING AND APPROVED PRIOR TO BID BY THE CONTRACTOR AND SHALL INCLUDE THE FOLLOWING INFORMATION:
      i. NAME AND ADDRESS OF PROJECT
      ii. NAME OF CONTRACTOR (GENERAL CONTRACTOR AND ANY SUB-CONTRACTORS INVOLVED IN THE SUBSTITUTION REQUEST)
      iii. NAME AND DESCRIPTION OF THE ORIGINAL SPECIFIED EQUIPMENT OR MATERIAL, BILL OF MATERIALS ID #, OR DRAWING DETAIL(S) APPLICABLE TO THE SUBSTITUTION.
      iv. THE SPECIFIC AMOUNT OF COSTS SAVINGS TO BE RETURNED TO THE OWNER IF THE SUBSTITUTION IS APPROVED BY MARTIN AQUATIC (NOTE: WITHOUT A SUBSTANTIAL COSTS SAVINGS TO THE OWNER, MA WILL MOST LIKELY DECLINE TO APPROVE ANY SUBSTITUTION REQUEST).
      v. A COMPLETE DESCRIPTION OF THE PRODUCT, EQUIPMENT, OR MATERIALS WHICH USE (IF APPROVED) WILL RESULT IN COSTS SAVINGS TO THE OWNER.
      vi. FOR THE NEW PRODUCT: A COMPLETE MANUFACTURERS' CUT SHEET, DESCRIPTIVE BROCHURE, MSDS SHEETS (AS APPLICABLE), MANUFACTURERS' INSTALLATION INSTRUCTIONS, MANUFACTURERS' LISTING OF AUTHORIZED AND INTENDED USES WITH ACCOMPANYING LIMITATIONS OF USE, OWNERS' INSTRUCTION MANUAL, COLOR CHARTS (AS APPLICABLE), ETC.
      vii. ALL THE ABOVE INFORMATION SHALL BE PROVIDED IN ELECTRONIC FORMAT (PDF OR SIMILAR) TO MARTIN AQUATIC.
   b. THE USE OR INSTALLATION OF UNAUTHORIZED EQUIPMENT OR MATERIAL(S) SUBSTITUTIONS (THOSE NOT AUTHORIZED IN WRITING BY MARTIN AQUATIC), ALTERNATE, INADEQUATE, SUB-STANDARD WORKMANSHIP, OMISSIONS, DEVIATIONS, IMPLEMENTATION OF UNAUTHORIZED DETAILS AND/OR UNAUTHORIZED DIMENSIONS SHALL TOTALLY RELIEVE MARTIN AQUATIC FROM ALL LIABILITY AND RESPONSIBILITY FOR THE SAFETY OR PERFORMANCE OF THE PROJECT DESCRIBED HEREIN.
8. THESE GENERAL NOTES, THE DRAWINGS, AND THE REFERENCED TECHNICAL SPECIFICATIONS SHALL BE UNIFORMLY APPLIED TO THE PROJECT. IN THE EVENT OF A DISCREPANCY OR CONFLICT, THE STRICTEST INTERPRETATION SHALL APPLY. CONTACT MARTIN AQUATIC FOR ALL CLARIFICATIONS NEEDED.
9. EACH ELEVATED CONCRETE POOL BASIN MUST HAVE A MANDATORY WATER FILL TEST AND BE CERTIFIED AS BEING WATERPROOF, AFTER THE INSTALLATION OF THE BASECONCRETE WATERPROOFING, BUT BEFORE THE POOL PLASTER SYSTEM IN INSTALLED.
10. THE CONTRACTOR MUST PROVIDE A SHOTCRETE POOL CONCRETE BASIN WITH A ROUGH, TEXTURED CONCRETE SURFACE PROFILE (CSP) THAT WILL ASSIST IN CREATING A MECHANICAL BONDABLE SURFACE COMPLYING WITH THE INTERNATIONAL CONCRETE REPAIR INSTITUTE (ICRI) REQUIREMENTS, AND THE REQUIREMENTS OF THE POOL'S INTERIOR PLASTER MANUFACTURER'S WRITTEN REQUIREMENTS.

    BASED UPON THE POLYMER MATERIALS CONTAINED WITHIN THE PERMAKOTE AND THE BASECRETE CEMENTITIOUS WATERPROOFING, EACH OF THE FOLLOWING REQUIREMENTS ARE MANDATORY:

    a) COMPLY WITH THESE DRAWINGS AND TECHNICAL SPECIFICATIONS.

    b) COMPLY WITH THE ICRI RELATING THE MECHANICAL BONDABLE CONCRETE SURFACE PROFILE (CSP) RANGING FROM A MINIMUM CSP 5 TO A MAXIMUM CSP 9.

    c) COMPLY WITH THE POOL PLASTER MANUFACTURER MINIMUM REQUIREMENTS FOR ROUGHNESS AND TEXTURE.

    d) UTILIZE THE REQUIRED WATER JETTING AND OTHER PREPARATIONS NECESSARY AND DESCRIBED IN THE PREPARATIONS BEFORE APPLYING THE BASECRETE CEMENTITIOUS WATERPROOFING, APPLYING THE PERMAKOTE AND APPLYING THE POOL PLASTER.

B. OWNERS MINIMUM OPERATING RESPONSIBILITIES

1. THE OWNER SHALL PROVIDE SUFFICIENT CARE, OPERATIONAL SAFETY, MAINTENANCE, ROUTINE PREVENTATIVE MAINTENANCE (P.M.), REPAIR, AND SERVICING TO ALL WATER FEATURE COMPONENTS, EQUIPMENT, AND SYSTEMS TO ENSURE CONTINUED COMPLIANCE WITH ALL INTERNATIONAL, LOCAL BUILDING CODES, AND ESTABLISHED DEPARTMENT OF HEALTH STANDARDS AS APPLICABLE.
2. ALL DAILY, WEEKLY, MONTHLY, QUARTERLY, AND ANNUAL CLEANING MAINTENANCE HOUSEKEEPING-TYPE TASKS SHALL BE PERFORMED BY THE OWNER AS FREQUENTLY AS NEEDED TO PROVIDE THE SAFE ENVIRONMENT AND WATER FEATURE AREA. OWNER'S LIFEGUARD AND SAFETY PLAN MUST BE IMPLEMENTED CONTINUOUSLY.
3. A PARTIAL LISTING OF MINIMUM CLEANING, MAINTENANCE, AND SAFETY TASKS THAT SHALL BE PERFORMED ON A REGULAR, AND AS-NEEDED BASIS INCLUDE (BUT ARE NOT LIMITED TO):
   a. CLEANING OF ALL TILES, EPOXY-GROUTING, AND RELATED, SIMILAR SURFACES WHILE MAINTAINING THEM IN LIKE-NEW CONDITION.
   b. REMOVING WATER PUDDLES, OILS, RESIDUES, CONTAMINANTS, ETC. FROM NON-SLIP / SLIP-RESISTANT SURFACES ALLOWING THEM TO MAINTAIN THE REQUIRED SLIP-RESISTANT QUALITIES. IT IS CUSTOMARY TO EXPERIENCE SOME PUDDLES ESPECIALLY ON WET DECKS, IWF SURFACES, SLIDE RUN-OUTS, AND WET PLAY AREAS. A DAILY/WEEKLY REGULAR WATER REMOVAL OF SUCH PUDDLES SHALL BE PROVIDED BY THE OWNER.
   c. REGULARLY CONDUCT PROFESSIONAL TESTING ON NON-SLIP / SLIP RESISTANT SURFACES TO ENSURE THAT THESE SURFACES RETAIN THEIR REQUIRED SLIP-RESISTANT QUALITIES.
   d. IF SUCH TESTING REVEALS THAT THE SLIP-RESISTANCE OF A RATED NON-SLIP SURFACE IS LESS THAN ORIGINALLY REQUIRED BY THE MANUFACTURER OR IS LESS THAN THE CURRENT CODE REQUIREMENTS, THE OWNER SHALL CORRECT THE POTENTIAL SAFETY HAZARD IN ACCORDANCE WITH DIRECTIONS FROM THE MANUFACTURER OR REPLACE THE SURFACE AS NEEDED TO ACHIEVE A CODE-COMPLIANT NON-SLIP SURFACE.
   e. MAINTAIN ALL WATER CHEMISTRY.
   f. THE OWNER SHALL MAINTAIN WRITTEN DAILY RECORDS TO ACCURATELY RECORD THE MAINTENANCE PERFORMED AND THE CONDITIONS MAINTAINED TO PROVIDE A SAFE ENVIRONMENT.
   g. ALL PUMPING SYSTEMS, FILTRATION SYSTEMS, CHEMICAL SYSTEMS, UNDERWATER LIGHTING SYSTEMS, OVERHEAD LIGHTING SYSTEMS, ETC. SHALL BE MAINTAINED AND OPERATED TO BE LIKE-NEW, FULLY FUNCTIONAL, AND OPERATE CORRECTLY AT THE DESIGN POINTS SET FORTH BY MARTIN AQUATIC AND OTHER LICENSED CONSULTANTS RETAINED BY THE OWNER.
   h. UNDERWATER EXPANSION, CONSTRUCTION, ISOLATION, AND DECK JOINTS WILL REQUIRE FREQUENT AND REGULAR MAINTENANCE TO MAINTAIN THE WATER-PROOFING AND AESTHETIC QUALITY OF THE JOINTS.
   i. FREEZING TEMPERATURE CONDITIONS, REQUIRING WINTERIZATION OPERATIONAL PRACTICES TO INCLUDE WATER REMOVAL & DRAINING PROCEDURES ARE THE RESPONSIBILITY OF THE OWNER.
4. MARTIN AQUATIC STRONGLY RECOMMENDS THAT A LICENSED, QUALIFIED ELECTRICAL CONTRACTOR BE RETAINED BY THE OWNER ON A REGULAR BASIS TO ENSURE PROPER OPERATION & PERFORMANCE, MONITOR, AND RECORD OVERHEAD ILLUMINATION LEVELS TO ENSURE THAT THE LIGHTING SYSTEMS ARE IN COMPLIANCE WITH THE INTERNATIONAL AND LOCAL BUILDING CODES.
5. IT IS NORMAL FOR OVERHEAD LIGHTING SYSTEMS' ILLUMINATION OUTPUT TO DETERIORATE OVER TIME REQUIRING ON-GOING MAINTENANCE TO INCLUDE (BUT NOT LIMITED TO) INSTALLATION OF NEW BALLASTS, NEW LAMPS, AND THE CLEANING OF LENSES / REFLECTORS IN ORDER TO MAINTAIN THE MINIMUM ILLUMINATION LEVELS REQUIRED FOR SAFE NIGHT-TIME SWIMMING.
6. PROVIDING A SAFE SWIMMING AND RECREATIONAL ENVIRONMENT IS A CRITICAL MANDATE THAT THE OWNER SHALL CONTROL, EXERCISE, AND EXERT COMPLETE CARE IN ORDER TO ENSURE A MANDATORY, REGULATED, SAFE ENVIRONMENT. ALLOWING THE BATHERS, GUESTS, PATRONS, OCCUPANTS, RIDERS, AND RESIDENTS TO USE THE WATER FEATURE FACILITIES IS THE SOLE RESPONSIBILITY OF THE OWNER.
7. MURIATIC ACID SHALL ONLY BE ADDED TO THE BASIN FROM THE SPECIFIED ACID DILUTION TANK. TO FILL THE DILUTION TANK, ALWAYS ADD 10 PARTS POTABLE WATER, OR MORE, TO THE DILUTION TANK BEFORE ADDING 1 PART 20° BAUME MURIATIC ACID. THE ADDITION OF MURIATIC ACID TO THE BASIN'S WATER WITHOUT THE MINIMUM 10:1 WATER DILUTION IS PROHIBITED. THE USE OF SULFURIC ACID IS PROHIBITED REGARDLESS OF ITS DILUTION RATIO.

C. APPLICABLE CODES

1. THESE ENGINEERING DRAWINGS WERE CREATED TO COMPLY WITH THE FOLLOWING RULES AND CODES:

   2017 ADA STANDARDS FOR ACCESSIBLE DESIGN
   ACI 318, 2019 MANUAL OF CONCRETE PRACTICE
   NFPA 70; NATIONAL ELECTRIC CODE, **2023** EDITION; CHAPTER 6, SECTION 680
   INTERNATIONAL BUILDING CODE, **2021** EDITION WITH ARKANSAS AMENDMENTS
   BUILDING CODE

D. TECHNICAL SPECIFICATION

1. THE FOLLOWING TECHNICAL SPECIFICATIONS SHALL BE READ AND JOINTLY IMPLEMENTED ALONG WITH THESE ENGINEERING DRAWINGS AS CRITICAL COMPONENTS TO FORM THE COMPLETE ENGINEERING DOCUMENTS:

13 1105	AQUATIC SPECIFICATIONS TABLE OF CONTENTS
13 1110	AQUATICS GENERAL
13 1113	BELOW-GRADE SWIMMING POOLS (CONCRETE)
13 1125	POOL BONDING AND GROUNDING
13 1126	POOL ELECTRICAL
13 1146	SWIMMING POOL ACCESSORIES
22 5100	SWIMMING POOL PLUMBING SYSTEMS

THE SPECIFICATIONS CONTAIN NUMEROUS CODE COMPLIANCE RELATED ITEMS CRITICAL FOR A COMPLETE INSTALLATION.

E. EXCLUSIONS

1. CHEMICAL STORAGE ROOM AND EQUIPMENT ROOM BUILDING DETAILS
2. RESTROOM DESIGN - FOR AQUATIC FEATURES; SIGNAGE DESIGN AND FABRICATION DETAILS - RESTROOM AND SITE
3. GEO-TECHNICAL / SOILS INVESTIGATION, RECOMMENDATIONS, AND REPORT
4. DECK DESIGN - LAYOUT / SIZING / SPECIFICATION / DRAINAGE / GRADING / JOINT DESIGN
5. ELECTRICAL DESIGN FOR POWER TO SUB-PANELS & TRANSFORMERS.
6. OVERHEAD ILLUMINATION DESIGN FOR DECK, AQUATIC BODY, AND EQUIPMENT AREA
7. FENCING DESIGN - AQUATIC BODY(S) AND EQUIPMENT YARDS
8. FINISHES, COLOR, AND TEXTURE SELECTIONS AND DETAILING FOR SLIDES, WATER PLAY, INTERIOR FINISHES, COPING, WATERLINE, AND STEP TILES
9. HVAC DESIGN AND SPECIFICATIONS
10. BACKWASH AND OVERFLOW PIPING DESIGN TO EITHER SANITARY OR STORM SEWER OUTFALL
11. STRUCTURAL AND SPECIALTY ENGINEERING FOR SLIDE AND WATER PLAY (TO BE PROVIDED BY THE SELECTED MANUFACTURER. THE MANUFACTURER'S DELEGATED FLORIDA LICENSED PROFESSIONAL ENGINEER WILL PROVIDE ALL SLIDE AND WET PLAY ENGINEERING, LIFEGUARD & LIFE SAFETY PLANS, & CERTIFICATIONS)
12. CHOREOGRAPHY AND PROGRAMMING CONTROLS OF SHOW FOUNTAIN(S), LIGHTING, AND MUSIC EFFECTS
13. SUPPLY OF EQUIPMENT OR MECHANICAL PARTS

F. CONCRETE EXPOSURE CATEGORIES AND CLASSES PER ACI 318

1. ALL CONCRETE TO COMPLY WITH THE FOLLOWING:

CATEGORY	CLASS
FREEZING AND THAWING (F)	**F0**
SULFATE (S)	CONSULT GEOTECHNICAL ENGINEER
IN CONTACT WITH WATER (W)	**W1**
CORROSION PROTECTION OF REINFORCEMENT (C)	**C2**

G. STRUCTURAL DESIGN NOTES

1. THESE ENGINEERING DRAWINGS WERE CREATED USING THE FOLLOWING PROVIDED REPORTS

   GEOTECHNICAL REPORT: TBD

   DATED: TBD

   GEOTECHNICAL REPORT: TBD

ABBREVIATIONS LEGEND

ABBREVIATION	DESCRIPTION
1P	SINGLE POLE
2P	TWO-POLE
3P	THREE-POLE
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AI	ANALOG INPUT
ALU	ACCESSIBLE LIFT UNIT
AMP, A	AMPERE
AO	ANALOG OUTPUT
AR	AS REQUIRED
ARCH	ARCHITECT
A/V	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BMB	BLUE MAR BASINS™
BTM	BOTTOM
Btu	BRITISH THERMAL UNIT
C	CONDUIT
CFM	CUBIC FEET PER MINUTE
CHEM	CHEMICAL
CKT	CIRCUIT
CL	CENTER LINE
Cl	CHLORINE
CONN	CONNECT; CONNECTION
CPVC	CHLORINATED POLYVINYL CHLORIDE
CT	COLLECTOR TANK
DC	DIRECT CURRENT
DE	DIATOMACEOUS EARTH
DI	DIGITAL INPUT
DIM	DIMENSION
DO	DIGITAL OUPUT
DOH	DEPARTMENT OF HEALTH
DWG	DRAWING
E, ELEC	ELECTRICAL, ELECTRICAL ENGINEER
EL	ELEVATION
EO	ELECTRICALLY OPERATED
FD	FLOOR DRAIN
FFE, FF EL	FINISHED FLOOR ELEVATION
FLA	FULL LOAD AMPS
FM	FLOW METER
FPS, FT/s	FEET PER SECOND
FRP	FIBRE-REINFORCED PLASTIC
FS	FLOW SENSOR
FT	FEET
FT², SF	SQUARE FEET
FT³	CUBIC FEET
G, GND	GROUND
GAL	GALLON
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
HDP	HIGH POWER DISTRIBUTION PANEL
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSEPOWER
HRS	HOURS
Hz	HERTZ
ID	IDENTIFICAITON
IN	INCH
INTL	INTERNATIONAL
INV	INVERT
I/O	INPUT / OUTPUT
IWF	INTERACTIVE WATER FEATURE
JBOX, JB	JUNCTION BOX
kBtu	THOUSAND BRITISH THERMAL UNITS
kVA	KILOVOLT-AMPERE
KW	KILOWATT
LA	LANDSCAPE ARCHITECT
LB	POUND
LDP	LOW VOLTAGE DISTRIBUTION PANEL
LF	LINEAR FEET
LP	LIQUIFIED PROPANE
Lpm	LITER PER MINUTE
LS	LEVEL SENSOR
LTG	LIGHTING
LVLC	LOW VOLTAGE LIGHTING CONTROL CABINET
m	METER
m², SM	SQUARE METER
m³	CUBIC METER
mA	MILLIAMPERE, MILLIAMP
MA	MARTIN AQUATIC
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCP	MAIN CONTROL PANEL
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING ENGINEER
MFG	MANUFACTURING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
mm	MILLIMETER
MOV	MOTOR OPERATED VALVE
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO, #	NUMBER
NPT	NATIONAL PIPE THREAD
NSF	NATIONAL SANITATION FOUNDATION
NTS	NOT TO SCALE
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OCEWEF	ON CENTER EACH WAY EACH FACE
OD	OUTSIDE DIAMETER
P	POLE
pH	ACIDITY OR ALKALINITY OF A SOLUTION
PH, Φ	PHASE
PHE	PLATE HEAT EXCHANGER
pHC	PH CONTROL
PLC	PROGRAMMABLE LOGIC CONTROL
PPD	POUNDS PER DAY
PPM	PARTS PER MILLION
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE (PLASTIC)
PW	POTABLE WATER
QTY	QUANTITY
REF	REFERENCE
REINF	REINFORCE, REINFORCEMENT
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SCHED	SCHEDULE
SHLD	SHIELDED
SHT	SHEET
SPEC	SPECIFICATION
SST	STAINLESS STEEL
STD	STANDARD
STRUCT	STRUCTURAL, STRUCTURAL ENGINEER
T&B	TOP AND BOTTOM
TB	THRUST BLOCK
TBD	TO BE DETERMINED
TDH	TOTAL DYNAMIC HEAD
TOC	TOP OF COPING
TOD	TOP OF DECK
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UNO	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTIL	UTILITY
UV	ULTRAVIOLET
UW	UNDERWATER
V	VOLT
VAC	ALTERNATING CURRENT VOLTAGE
VDC	DIRECT CURRENT VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
VGB	VIRGINIA GRAEME BAKER FEDERAL POOL SPA ACT
VPR	VACUUM PUMP RECEPTACLE
W	WATT
W/	WITH
W/O	WITHOUT
WF	WATER FEATURE
WL	WATER LEVEL
WP	WADING POOL
XFMR	TRANSFORMER

GENERAL SYMBOLS LEGEND

ELEVATION LOCATOR: 3 / W505 — DETAIL NUMBER / DRAWING NUMBER

SECTION LOCATOR: 3 / W505 — DETAIL NUMBER / DRAWING NUMBER

SCHEDULE KEYNOTE: 12.001 — SEE SCHEDULE SHEETS FOR PART INFO

SHEET/DETAIL KEYNOTE: 1 — SEE SHEET/DETAIL KEYNOTE TABLE FOR ITEM DESCRIPTION

UTILITY CONNECTION: D | SIZE — CONNECTION SIZE / CONNECTION TYPE
D = DATA
E = ELECTRICAL
G = GAS
H = HOT WATER LOOP
P = POTABLE WATER
V = VENT / DUCT
W = WASTE WATER

ELEVATION IDENTIFIER: +0.0" / DESC — ELEVATION LOCATION / ELEVATION NAME

DEPTH INDICATOR: -## — DEPTH BELOW WATER LEVEL

FLOW INDICATOR: — FLOW DIRECTION

DRAWING INDEX

SHEET #	TITLE
AQ-000	GENERAL NOTES & LEGENDS
AQ-100	SITE EQUIPMENT ID & UTILITY CONNECTIONS
AQ-200	SPA EQUIPMENT ID, DIMENSION, & SECTIONS
AQ-205	SPA AXONOMETRIC
AQ-210	LAP POOL EQUIPMENT ID
AQ-211	LAP POOL DIMENSIONS
AQ-212	LAP POOL GRAVITY PIPING
AQ-213	LAP POOL FILTER PIPING
AQ-214	LAP POOL SECTIONS
AQ-215	LAP POOL AXONOMETRIC
AQ-220	ACTIVITY POOL EQUIPMENT ID
AQ-221	ACTIVITY POOL DIMENSIONS
AQ-224	ACTIVITY POOL SECTIONS
AQ-225	ACTIVITY POOL AXONOMETRIC
AQ-300	MECH ROOM 1 EQUIPMENT ID
AQ-301	MECH ROOM 1 DIMENSIONS & HOUSEKEEPING PADS
AQ-303	MECH ROOM 1 AXONOMETRIC
AQ-310	SPA PIPING DIAGRAM
AQ-311	SPA TANK (HYDRAULIC)
AQ-312	SPA TANK (STRUCTURE)
AQ-320	LAP POOL PIPING DIAGRAM
AQ-321	LAP POOL TANK (HYDRAULIC)
AQ-322	LAP POOL TANK (STRUCTURE)
AQ-330	ACTIVITY POOL PIPING DIAGRAM
AQ-331	ACTIVITY POOL TANK (HYDRAULIC)
AQ-332	ACTIVITY POOL TANK (STRUCTURE)
AQ-400	ELECTRICAL GENERAL NOTES
AQ-401	SITE ELECTRICAL PLAN
AQ-402	MECH ROOM 1 ELECTRICAL PLAN
AQ-410	SPA BONDING
AQ-411	SPA FUNCTIONAL BLOCK DIAGRAM
AQ-420	LAP POOL BONDING
AQ-421	LAP POOL FUNCTIONAL BLOCK DIAGRAM
AQ-430	ACTIVITY POOL BONDING
AQ-431	ACTIVITY POOL FUNCTIONAL BLOCK DIAGRAM
AQ-450	MECH ROOM 1 SINGLE LINE DIAGRAM
AQ-451	MECH ROOM 1 SINGLE LINE DIAGRAM
AQ-452	MECH ROOM 1 SINGLE LINE DIAGRAM
AQ-453	MECH ROOM 1 MCP DIAGRAM
AQ-460	MECH ROOM 1 PANEL SCHEDULES
AQ-470	MECH ROOM 1 ELECTRICAL EQUIPMENT SCHEDULES
AQ-500	DETAILS (SITE)
AQ-510	DETAILS (SPA)
AQ-511	DETAILS (SPA)
AQ-520	DETAILS (LAP POOL)
AQ-521	DETAILS (LAP POOL)
AQ-522	DETAILS (LAP POOL)
AQ-523	DETAILS (LAP POOL)
AQ-530	DETAILS (ACTIVITY POOL)
AQ-531	DETAILS (ACTIVITY POOL)
AQ-532	DETAILS (ACTIVITY POOL)
AQ-540	DETAILS (COMMON)
AQ-550	DETAILS (MECH)
AQ-551	DETAILS (MECH)
AQ-600	EQUIPMENT SCHEDULES
AQ-601	EQUIPMENT SCHEDULES

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

no.	DATE	DESCRIPTION
	2025-12-19	ISSUE FOR 95% DESIGN DEVELOPMENT
	2026-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
	2026-04-13	PERMIT SET

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JOB No.: WESTCIT00561

SHEET TITLE

GENERAL NOTES & LEGENDS

SHEET NUMBER

AQ-000

FILE PATH: J:\Active Docs (CA)\City of West Memphis Recreation Center\RME_MA\CAD\Rvt_AQ\AQ100.rvt
DATE PRINTED: 4/17/2026 2:33:48 PM

GENERAL SHEET NOTES

ALL DECKS SHALL SLOPE AWAY FROM THE POOL. REFER TO THE LANDSCAPE ARCHITECT'S DRAWINGS

MINIMUM CLEAR WET DECK AROUND POOL = 4 FT

POOL WET DECK SHALL BE CONSTRUCTED OF CONCRETE OR OTHER NONABSORBENT MATERIAL, HAVING A SMOOTH SLIP-RESISTANT FINISH. WET DECK AREA FINISHES SHALL BE DESIGNED FOR SUCH USE AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. WOOD DECKS AND WALKWAYS ARE PROHIBITED. REFER TO LANDSCAPE ARCHITECT AND CIVIL DRAWINGS FOR DECK DESIGN, DECK DRAINAGE AND GRADING.

THERE IS NO PROVISION FOR FOOD OR DRINK SERVING FACILITIES WITHIN 12' OF THE WATER'S EDGE.

SCHEDULE KEYNOTES

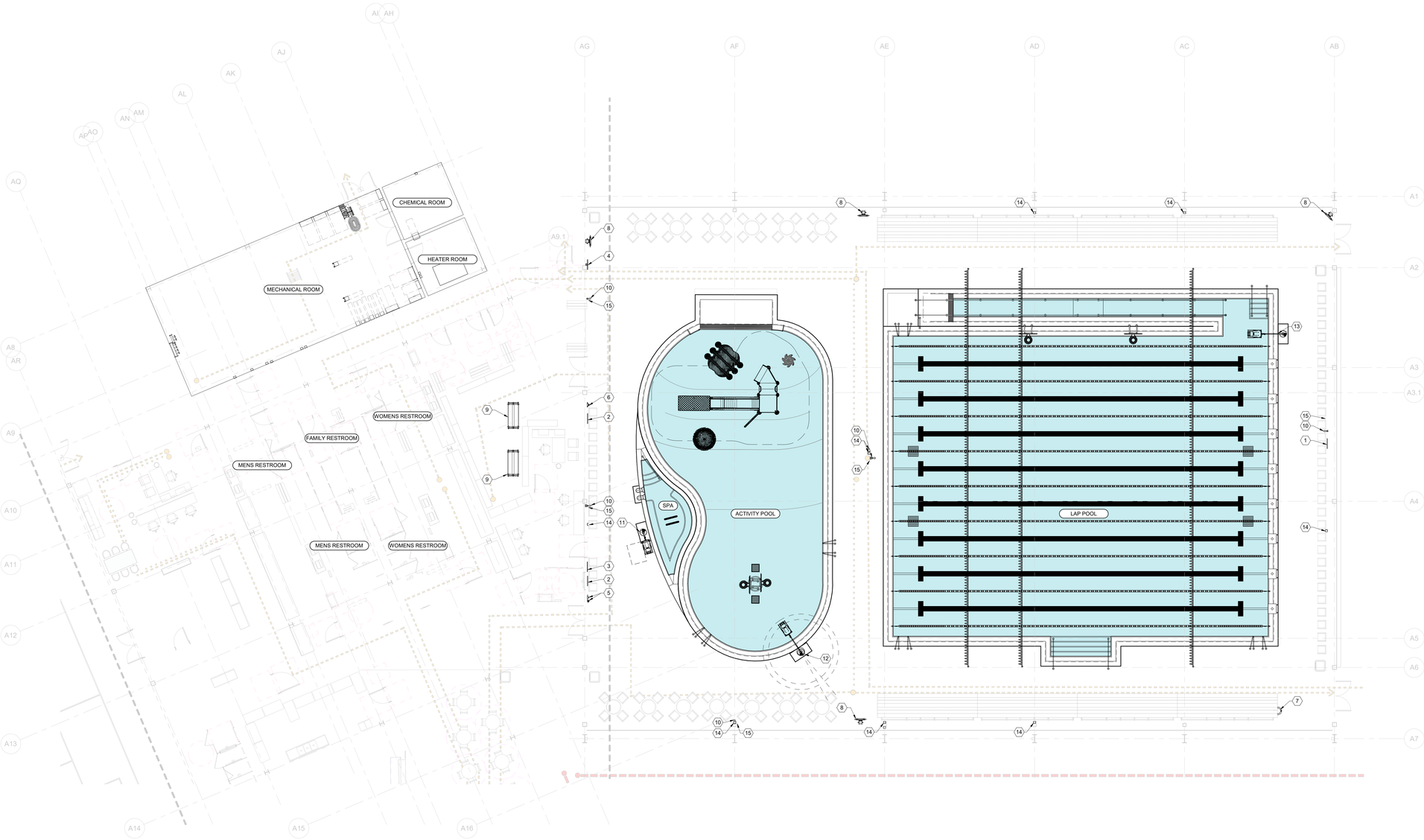
SHEET KEYNOTES

	DESCRIPTION	DETAIL
1	LAP POOL RULES SIGN	TBD
2	ACTIVITY POOL RULES SIGN	TBD
3	SPA RULES SIGN	TBD
4	RESTROOM LOCATOR SIGN	TBD
5	SPA THERAPY CONTROLS	TBD
6	EMERGENCY CUT-OFF	TBD
7	VERTICAL TEST PIPE	TBD
8	VERTICAL SAFETY EQUIPMENT - POST MOUNTED	TBD
9	LAP LANE STORAGE REEL	---
10	GFCI RECEPTACLE	---
11	SPA ACCESSIBLE LIFT UNIT ASSEMBLY	TBD
12	ACTIVITY POOL ACCESSIBLE LIFT UNIT ASSEMBLY	TBD
13	LAP POOL ACCESSIBLE LIFT UNIT ASSEMBLY	TBD
14	UNDERWATER LIGHT POWER SUPPLY	TBD
15	HOSE BIBB	---

RE...

	URINALS	WATER...	LAVATO...	FLOOR...	HOSE...	CHANGIN...	SHOWER
MEN	2	2	2	1	1	1	4
WOMEN	N/A	4	4	1	1	1	4

MINIMUM FIXTURE COUNTS SHOWN ARE BASED ON ARKANSAS DEPARTMENT OF HEALTH BATHER LOAD CALCULATIONS. ADDITIONAL FIXTURES MAY BE REQUIRED PER THE ARKANSAS FIRE PROTECTION CODE / ARKANSAS STATE PLUMBING CODE.



1 SITE EQUIPMENT ID & UTILITY CONNECTIONS
1/8" = 1'-0"

N

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SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DESCRIPTION
	2025-1-10 ISSUE FOR 90% DESIGN DEVELOPMENT
	2025-2-14 ISSUE FOR DESIGN DEVELOPMENT
	2025-4-17 ADDENDUM #1

ARCHITECT

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JOB INFO

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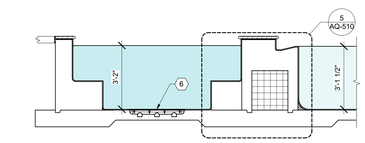
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

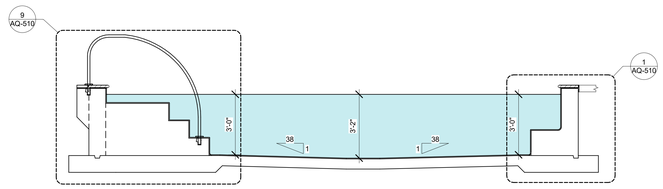
JOB No.: WESTCIT00561

SHEET TITLE
SITE EQUIPMENT ID & UTILITY CONNECTIONS

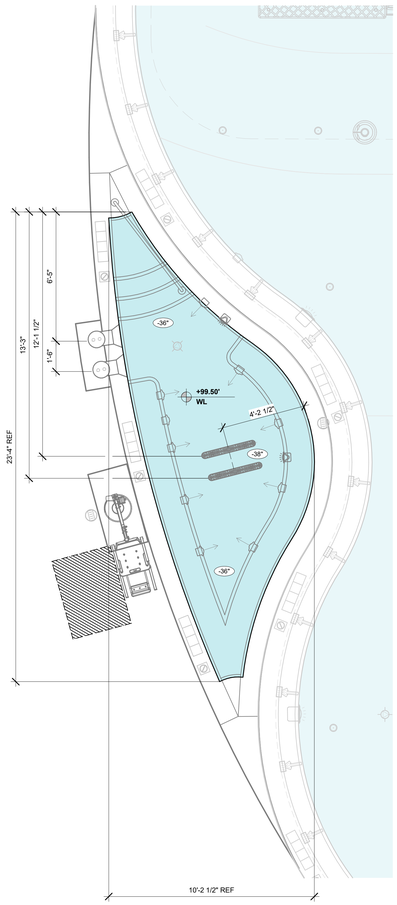
SHEET NUMBER
AQ-100



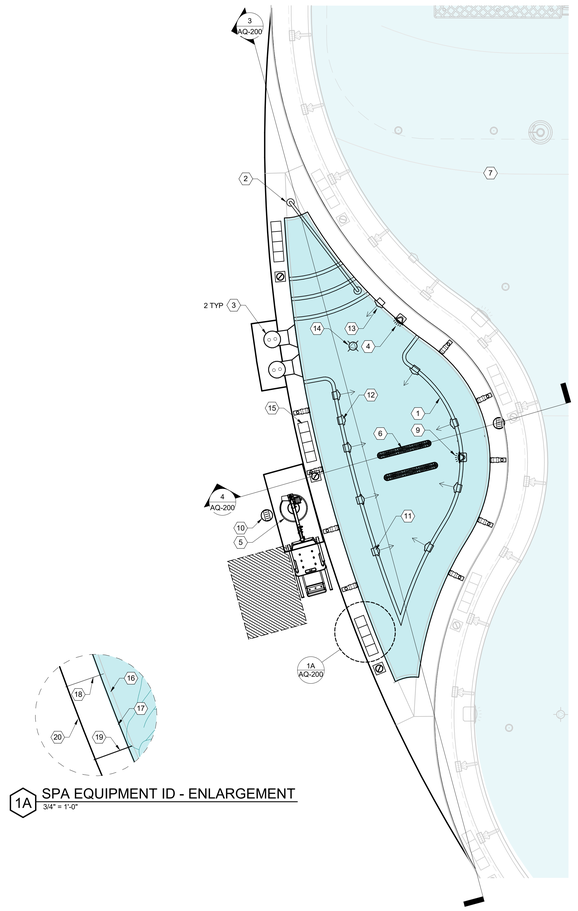
4 SPA SECTION
3/8" = 1'-0"



3 SPA SECTION
3/8" = 1'-0"



2 SPA DIMENSIONS
3/8" = 1'-0"



1A SPA EQUIPMENT ID - ENLARGEMENT
3/4" = 1'-0"

1 SPA EQUIPMENT ID
3/8" = 1'-0"

GENERAL SHEET NOTES

FEATURE CAD FILES AVAILABLE UPON REQUEST

FLOOR SLOPE IS GIVEN AS AN ESTIMATE

MAX SLOPE TO BE NO GREATER THAN 1:10 AND MIN SLOPE TO BE NO LESS THAN 1:60

SHEET KEYNOTES

	DESCRIPTION	DETAIL
1	SPA BEAM STRUCTURE	1 / AQ-510
2	HANDRAIL AND STEP STRUCTURE - 36" DEPTH	9 / AQ-510
3	SPA SKIMMERS	6 / AQ-510
4	BLUEMAR NOVA BRIGHT WHITE LIGHT MODULE - WALL	10 / AQ-510
5	ACCESSIBLE LIFT UNIT ASSEMBLY	2 / AQ-511
6	32" CHANNEL DRAIN	8 / AQ-510
7	WATER FEATURE - ACTIVITY POOL	AQ-220
9	BLUEMAR NOVA BRIGHT WHITE LIGHT MODULE -BENCH	2 / AQ-510
10	GUTTER AIR RELIEF	3 / AQ-510
11	WALL INLET AT BENCH	4 / AQ-510
12	STATIC WATER EQUALIZER INLET AT BENCH	7 / AQ-510
13	WALL INLET	11 / AQ-510
14	HYDROSTATIC RELIEF VALVE - FLOOR MOUNTED	8 / AQ-540
15	DEPTH MARKER WITH NO-DIVING SYMBOL - SLIP RESISTANT	1 / AQ-511
16	EDGE OF COPING	---
17	WATERLINE TILE EDGE	---
18	PAVER CUT JOINT, REFER TO LANDSCAPE ARCHITECT	---
19	COPING EXPANSION JOINT NO MORE THAN 15' OCEW	4 / AQ-540
20	ISOLATION JOINT	3 / AQ-540

SPA FILTRATION NARRATIVE

Spa described herein features a step entry, underwater bench, and therapy jets. The spa basin has an exotic "Eye Shape" and tucks in neatly beside the Activity Pool. The spa described herein is intended to operate continuously with a low-water usage filtration system and automated water chemistry feed equipment. During the open hours of the spa all feature pumps are intended to operate via a timer switch for periods of up to 15 minutes. The system requires normal, routine maintenance provided by the owner to maintain an operational system and a high-quality water environment.

SPA DATA

AREA :	123.1	SF
PERIMETER :	53.4	FT
BATHING LOAD :	12	PERSONS
SPA VOLUME :	2349	GALS
TANK VOLUME :	3695	GALS
TOTAL VOLUME :	3,695	GALS
TURNOVER :	0.5	HRS
DESIGNED FILTER FLOW :	125	GPM
MIN. FILTER FLOW :	36	GPM
MIN. DEPTH :	3.0	FT
MAX. DEPTH :	3.5	FT
FEATURE FLOW :	150	GPM
SPA TO TANK	105	FT
MECH ROOM TO SPA :	105	FT
FILTER WASTE FLOW, INCLUDIN...	25	GPM
PRESSURE OVERFLOW :	125	GPM
PRESSURE OVERFLOW PIPE SIZE :	1	"
PRESSURE OVERFLOW PIPE QTY :	1	

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
	2025-12-19	ISSUE FOR 90% DESIGN DEVELOPMENT
	2026-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
	2026-04-17	ADDENDUM #1

ARCHITECT

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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

SPA EQUIPMENT ID, DIMENSION, & SECTIONS

SHEET NUMBER

AQ-200

FILEPATH: ...\Luong Docs\City of West Memphis Recreation Center\RME_MASTERFILE_AQUATICS.rvt
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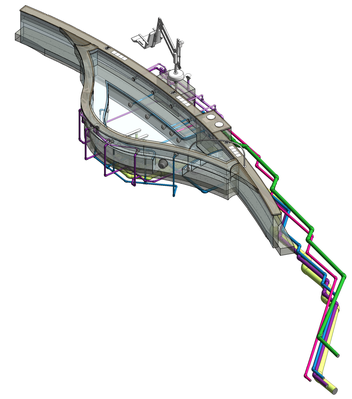
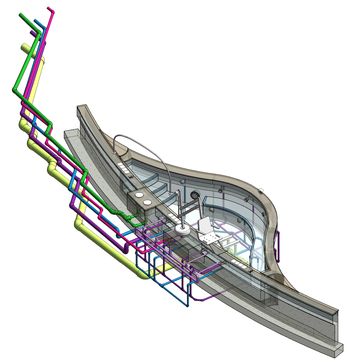
PIPE COLOR LEGEND

- FILTER PIPE
- DRAIN PIPE
- SUCTION PIPE
- GUTTER / SKIMMER
- THERAPY AIR
- THERAPY WATER
- STATIC



2 ACITIVTY POOL AXONOMETRIC



1 ACITIVTY POOL AXONOMETRIC

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SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

no.	DATE	DESCRIPTION
	2020-04-17	CD PROGRESS SET

ARCHITECT

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JOB INFO

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ST HWY 191/I-40 SERV, West Memphis, AR 72301

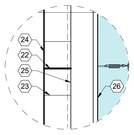
JOB No.: WESTCIT00561

SHEET TITLE

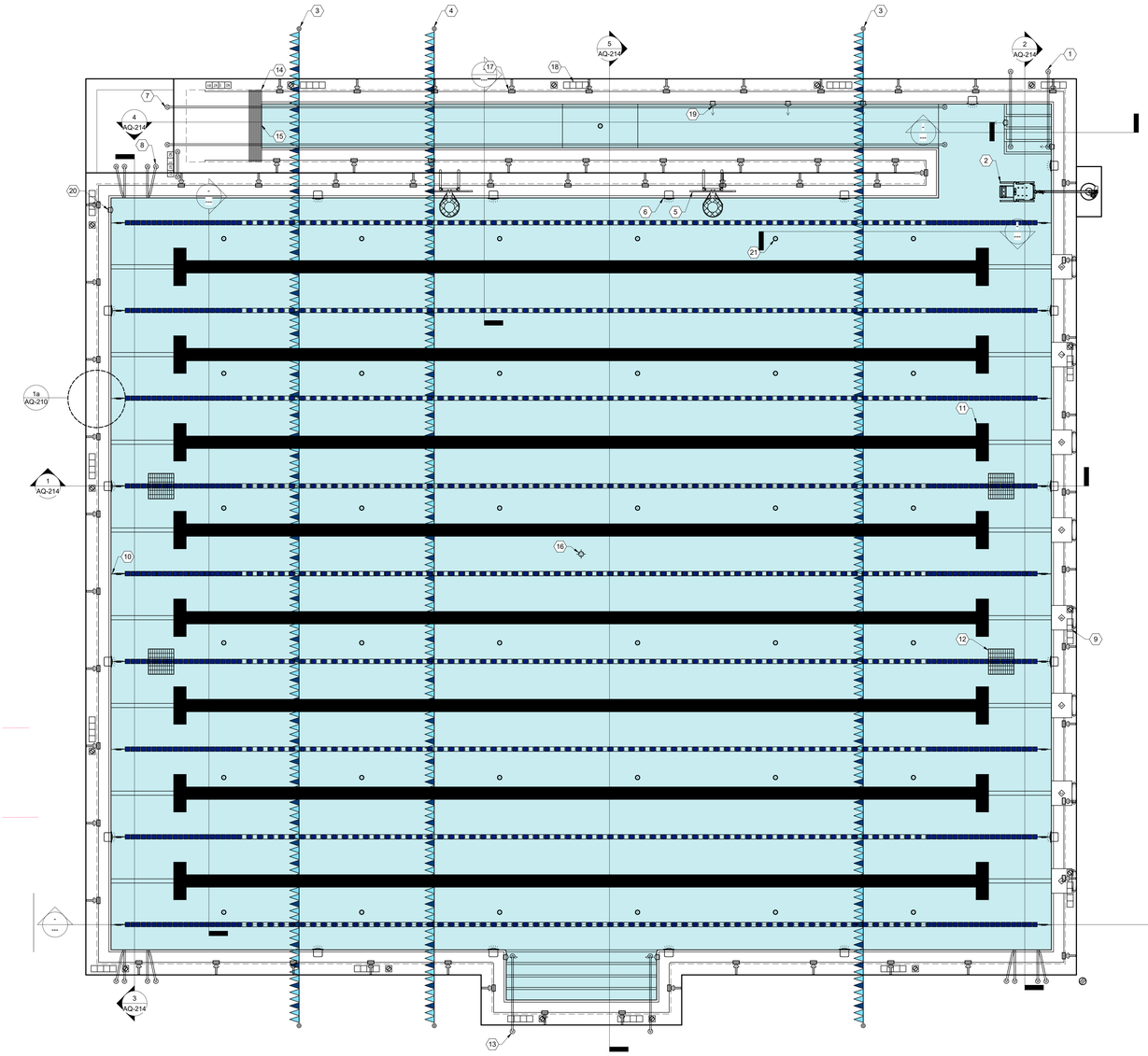
SPA AXONOMETRIC

SHEET NUMBER

AQ-205



1a LAP POOL ENLARGEMENT
1/2" = 1'-0"



1 LAP POOL EQUIPMENT ID
1/4" = 1'-0"

GENERAL SHEET NOTES

FEATURE CAD FILES AVAILABLE UPON REQUEST

THE SPACING BETWEEN DEPTH & NO DIVING MARKERS ON THE POOL DECK ADJACENT TO SWIMMING BASIN AREAS SHALL NOT EXCEED 25 FT

THE SPACING BETWEEN INLETS SHALL NOT EXCEED 20 FT. IF NO WALL INLETS ARE PROVIDED, FLOOR INLETS SHALL BE LOCATED WITHIN 10 FT OF ADJACENT WALL

SHEET KEYNOTES

	DESCRIPTION	DETAIL
1	HANDRAIL AND STEP STRUCTURE - 48" DEPTH	5 / AQ-520
2	ACCESSIBLE LIFT UNIT ASSEMBLY	4 / AQ-521
3	BACKSTROKE FLAG STANCHION ANCHOR LOCATION FOR 25 YARD COURSE	4 / AQ-522
4	FALSE-START FLAG STANCHION ANCHOR LOCATION	4 / AQ-522
5	BASKETBALL HOOP	3 / AQ-521
6	BLUEMAR NOVA BRIGHT WHITE LIGHT MODULE	6 / AQ-521
7	ADA ACCESS RAMP	1 / AQ-521
8	GRAB RAIL WITH INSET STEPS	2 / AQ-521
9	SST STARTING PLATFORM	3 / AQ-522
10	LAP LANE AND CUP ANCHOR	5 / AQ-521
11	COMPETITION SWIM LANE FLOOR "T"	6 / AQ-523 7 / AQ-523
12	DRAIN SUMP ASSEMBLY - 24" X 24"	5 / AQ-522
13	HANDRAIL AND STEP STRUCTURE - 42" DEPTH	6 / AQ-520
14	OPEN GUTTER TO ZERO ENTRY TRANSITION	4 / AQ-523
15	ZERO-ENTRY GUTTER GRATING (LOCKABLE)	1 / AQ-521
16	HYDROSTATIC RELIEF VALVE - FLOOR MOUNTED	9 / AQ-540
17	PERIMETER GUTTER	1 / AQ-523
18	DEPTH MARKER WITH NO-DIVING SYMBOL - SLIP RESISTANT	2 / AQ-523 3 / AQ-523
19	WALL INLET	1 / AQ-522
20	STATIC WATER EQUALIZER FITTING	2 / AQ-522
21	FLOOR INLET	8 / AQ-540
22	COPING EXPANSION JOINT - TO BE PLACED AT EACH CORNER AND SPACED NO MORE THAN 15 FT APART	7 / AQ-540
23	COPING/PAVER / CUT-JOINT	---
24	ISOLATION JOINT	6 / AQ-540
25	EDGE OF COPING	---
26	WATERLINE TILE EDGE	---

LAP POOL FILTRATION NARRATIVE

The Lap Pool described herein features a 25 yard pool which is a multipurpose pool that can be used for any of the following: As a 8-lap lane pool for exercise and competition instruction; Hydro-aerobics; and Instructional Swimming. The pool is intended to operate continuously with a low-water usage filtration system and automated water chemistry feed equipment. The system requires normal, routine maintenance provided by the owner to maintain an operational system and a high-quality water environment.

LAP POOL DATA

AREA :	4,801.0 SF
PERIMETER :	398.8 FT
BATHING LOAD :	192 PERSONS
POOL VOLUME :	150296 GALS
TANK VOLUME :	2064 GALS
TOTAL VOLUME :	150,296 GALS
TURNOVER :	3.9 HRS
DESIGNED FILTER FLOW :	650 GPM
MIN. FILTER FLOW :	417 GPM
MIN. DEPTH :	3.50 FT
MAX. DEPTH :	5.00 FT
POOL TO TANK	175 FT
MECH ROOM TO POOL :	175 FT
FILTER WASTE FLOW, INCLUDIN...	25 GPM
PRESSURE OVERFLOW :	125 GPM
PRESSURE OVERFLOW PIPE SIZE :	1 "
PRESSURE OVERFLOW PIPE QTY :	1

LAP POOL HEATER DESIGN

AREA :	4801 SF
DESIGN WATER TEMPERATURE :	81 °F
COLDEST DESIGN MONTH :	JAN
DESIGN TARGET DAILY AVG AIR TEMP :	84 °F
DESIGN TARGET DEW POINT :	63 °F
AVERAGE WIND SPEED :	0 MPH
TO ENSURE COMFORT, IT IS RECOMMENDED THAT POOL NOT BE OPERATIONAL BELOW :	79 °F
RESULTING HEAT DEMAND :	270 kBtu/hr

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
	2026-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
	2026-04-17	CD PROGRESS SET

ARCHITECT

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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

LAP POOL
EQUIPMENT ID

SHEET NUMBER

AQ-210

FILE PATH: ...\Active Docs (City of West Memphis Recreation Center)\RME_MASTER\RME_AQUATICS.rvt
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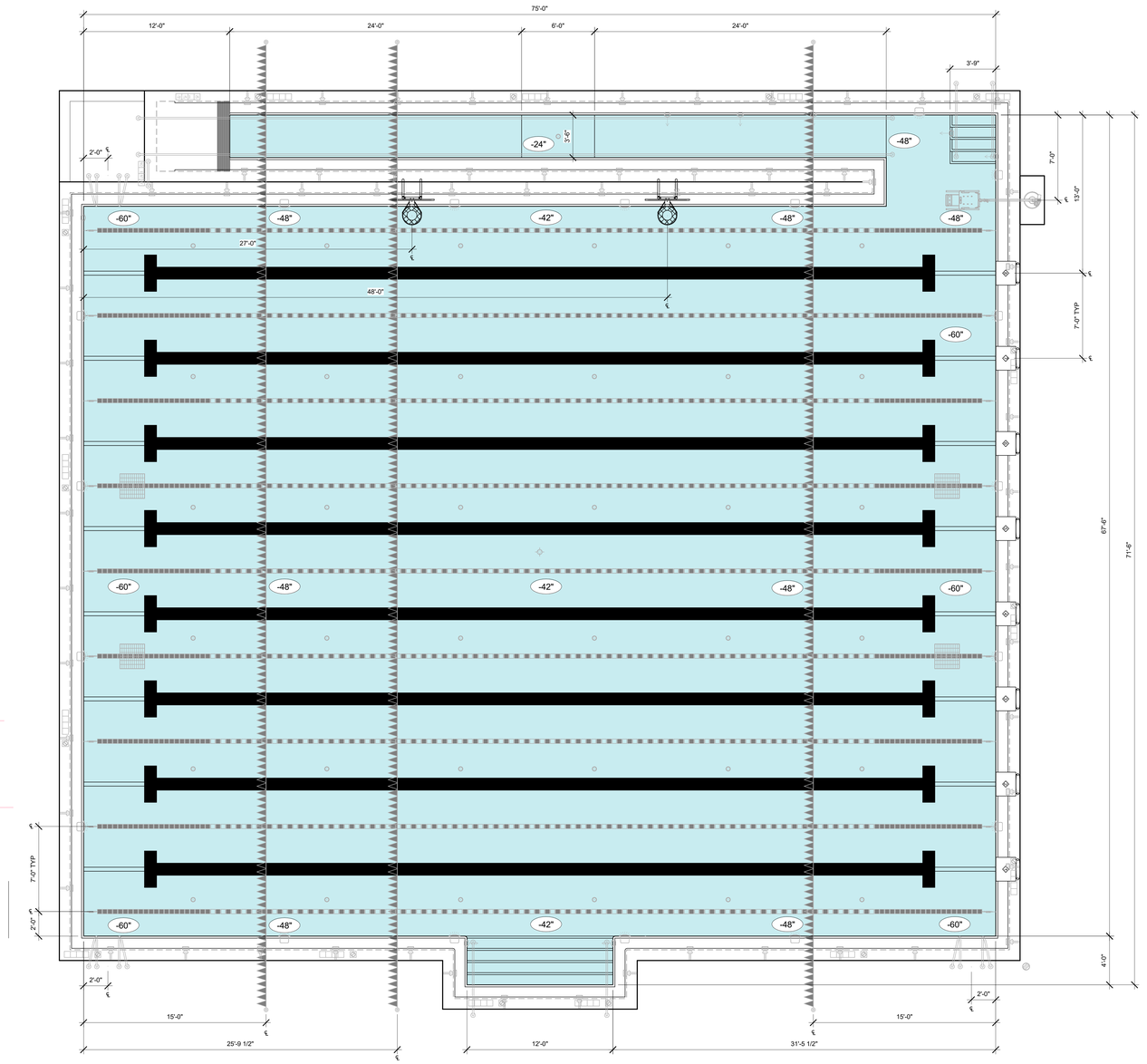
GENERAL SHEET NOTES

FEATURE CAD FILES AVAILABLE UPON REQUEST



1 LAP POOL DIMENSIONS
1/4" = 1'-0"

N

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SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
	2026-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
	2026-04-17	CD PROGRESS SET

ARCHITECT

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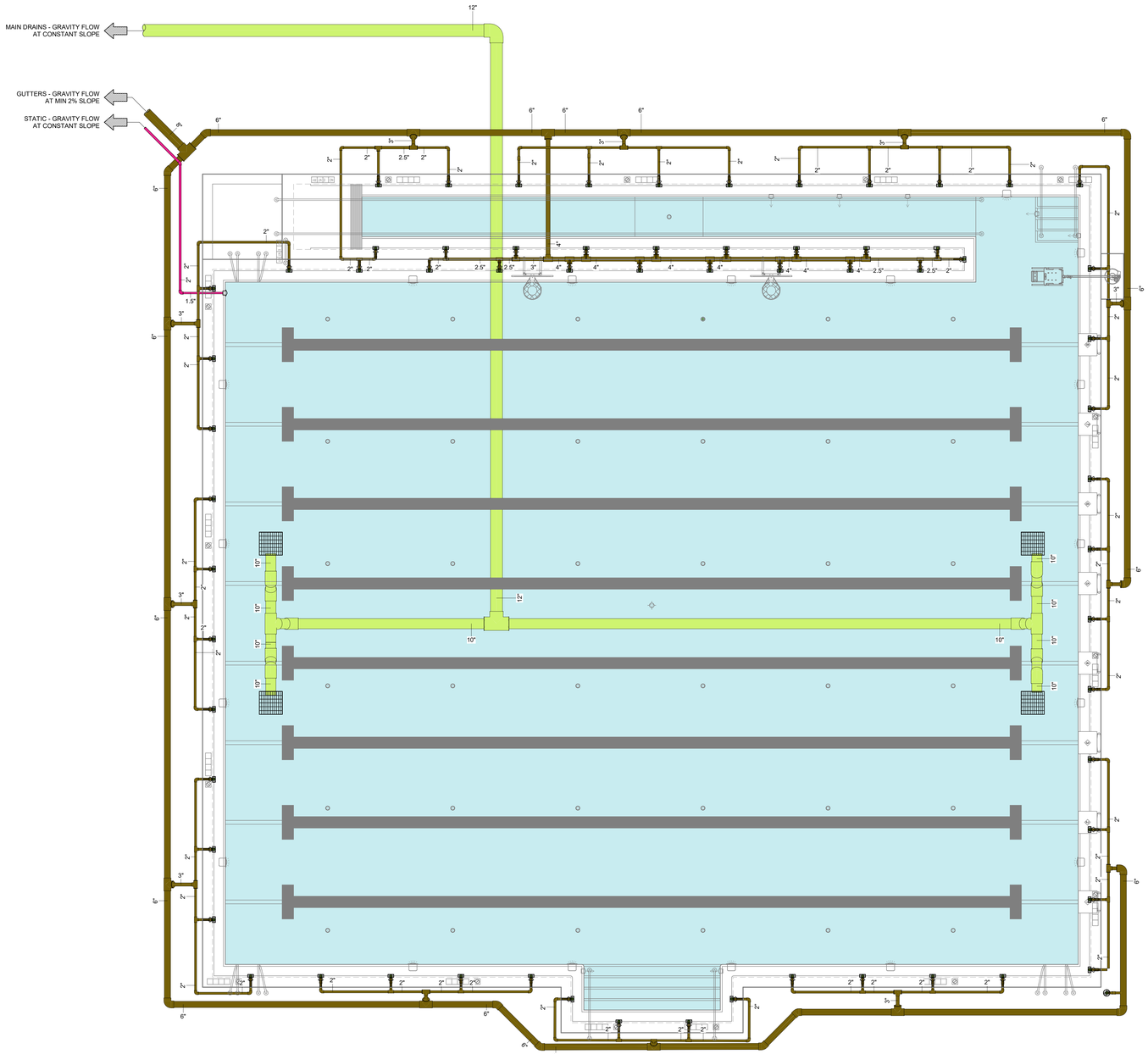
JOB No.: WESTCIT00561

SHEET TITLE

LAP POOL DIMENSIONS

SHEET NUMBER

AQ-211



1 LAP POOL GRAVITY PIPING
1/4" = 1'-0"

GENERAL SHEET NOTES

THE PIPING IS TO BE CONSOLIDATED IN THE IMMEDIATE VICINITY OF THE POOL EDGE TO ALLOW FOR ALL PIPES TO BE INSTALLED WITHIN COMMON SHARED PIPE TRENCHES. REFER TO THE WRITTEN TECHNICAL SPECIFICATIONS FOR ADDITIONAL DIRECTION. REFER ANY QUESTIONS OR INQUIRIES TO THE ENGINEER FOR A RESPONSE AND CLARIFICATION.

REFER TO THE ASSOCIATED PIPING DIAGRAM FOR CONTINUATION OF THE PIPING.

PERIMETER GUTTER PIPE MUST SLOPE AWAY FROM THE POOL AT A 2% SLOPE MINIMUM.

FLOOR DRAIN & STATIC PIPES PIPE MUST MAINTAIN CONSISTENT DOWNWARD SLOPE WITH THE POSSIBILITY OF A SINGLE LOW POINT, AND NO HIGH POINTS ALONG THE RUN, TO ELIMINATE THE POSSIBILITY OF AIR ENTRAPMENT AT ANY POINT IN THE PIPE.

ALL PIPING SHOWN ON THIS SHEET IS SCHEDULE 80 PVC UNLESS NOTED OTHERWISE WITHIN WRITTEN SPECIFICATIONS

ALL PLASTIC PIPE USED IN THE RECIRCULATION SYSTEM SHALL BE IMPRINTED WITH THE MANUFACTURER'S NAME AND THE NSF-PW LOGO FOR POTABLE WATER APPLICATIONS.

PIPE COLOR LEGEND

- DRAIN PIPE
- GUTTER / SKIMMER
- STATIC

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

#	DATE	DESCRIPTION
1	2025-04-17	DD PROGRESS SET

ARCHITECT

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RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

LAP POOL GRAVITY PIPING

SHEET NUMBER

AQ-212

FILE PATH: Autodesk Docs://City of West Memphis Recreation Center/WM_MAINTARM_AQUATICS.rvt
DATE PRINTED: 4/17/2025 2:54:12 PM

GENERAL SHEET NOTES

THE PIPING IS TO BE CONSOLIDATED IN THE IMMEDIATE VICINITY OF THE POOL EDGE TO ALLOW FOR ALL PIPES TO BE INSTALLED WITHIN COMMON SHARED PIPE TRENCHES. REFER TO THE WRITTEN TECHNICAL SPECIFICATIONS FOR ADDITIONAL DIRECTION. REFER ANY QUESTIONS OR INQUIRIES TO THE ENGINEER FOR A RESPONSE AND CLARIFICATION.

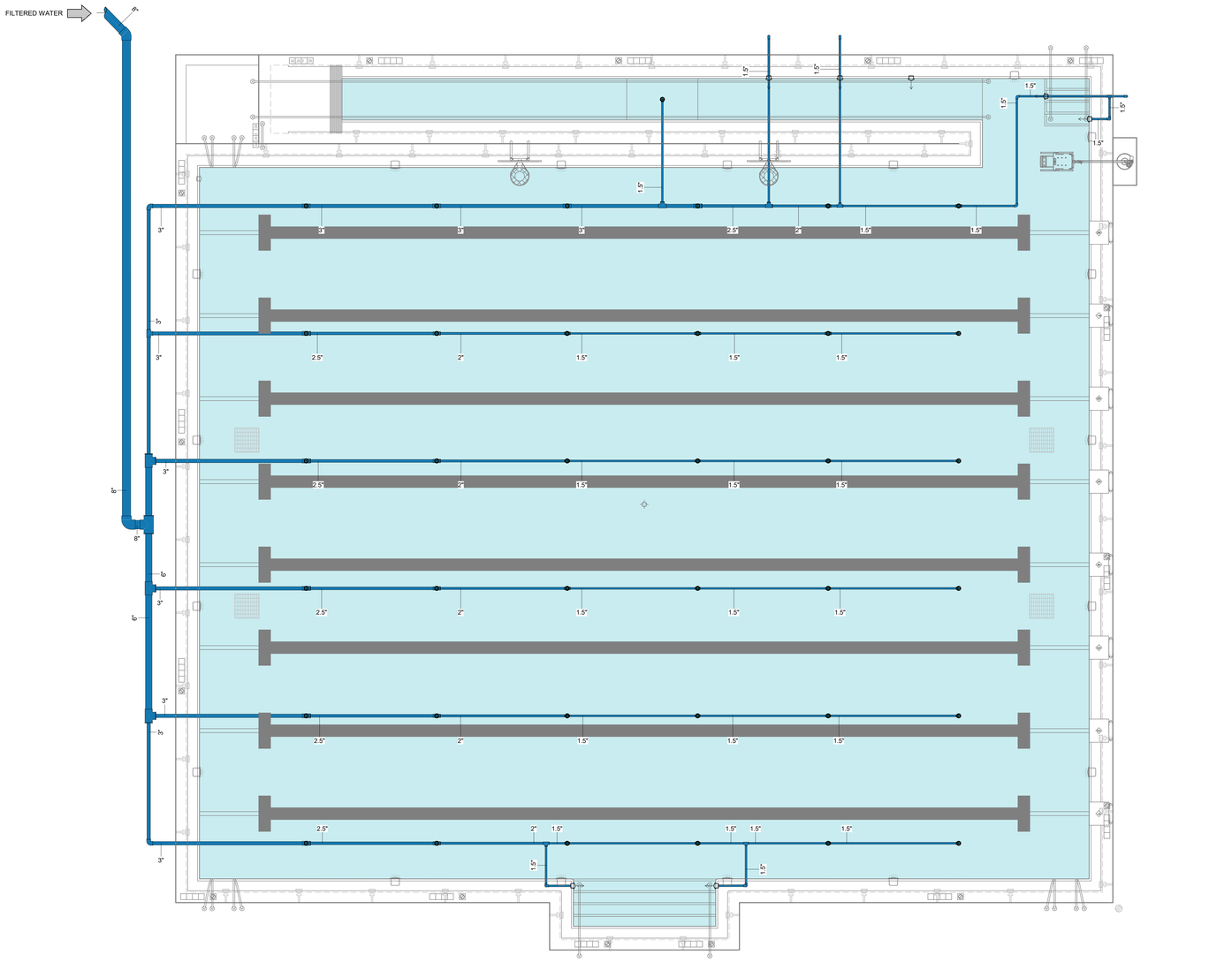
REFER TO THE ASSOCIATED PIPING DIAGRAM FOR CONTINUATION OF THE PIPING.

ALL PIPING SHOWN ON THIS SHEET IS SCHEDULE 80 PVC UNLESS NOTED OTHERWISE WITHIN WRITTEN SPECIFICATIONS

ALL PLASTIC PIPE USED IN THE RECIRCULATION SYSTEM SHALL BE IMPRINTED WITH THE MANUFACTURER'S NAME AND THE NSF-PW LOGO FOR POTABLE WATER APPLICATIONS.

PIPE COLOR LEGEND

FILTER PIPE



1 LAP POOL FILTER PIPING
1/4" = 1'-0"

N

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
1	2026.04.17	CD PROGRESS SET

ARCHITECT

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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

LAP POOL FILTER PIPING

SHEET NUMBER

AQ-213

FILE PATH: Autodesk Docs://City of West Memphis Recreation Center/RAE_MASTERMod_AQUATICS.rvt
DATE PRINTED: 4/17/2026 2:54:13 PM

GENERAL SHEET NOTES

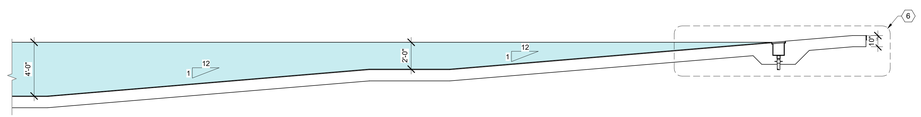
FLOOR SLOPE IS GIVEN AS AN ESTIMATE

MAX SLOPE TO BE NO GREATER THAN 1:10 AND MIN SLOPE TO BE NO LESS THAN 1:60

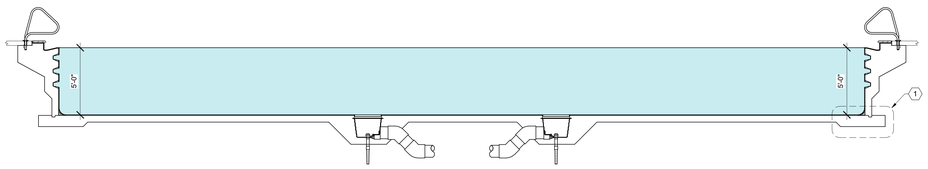
SHEET KEYNOTES

	DESCRIPTION	DETAIL
1	FLOOR/WALL JUNCTION	1 / AQ-520
2	POOL BEAM STRUCTURE	2 / AQ-520
3	HANDRAIL AND STEP STRUCTURE - 48" DEPTH	5 / AQ-520
4	GRAB RAIL WITH INSET STEPS	2 / AQ-521
5	DRAIN SUMP ASSEMBLY - 24" X 24"	5 / AQ-522
6	ZERO ENTRY POOL BEAM STRUCTURE	1 / AQ-521
7	FINGER WALL STRUCTURE	4 / AQ-520
8	HANDRAIL AND STEP STRUCTURE - 42" DEPTH	6 / AQ-520
9	POOL BEAM STRUCTURE AT FINGER WALL	3 / AQ-520

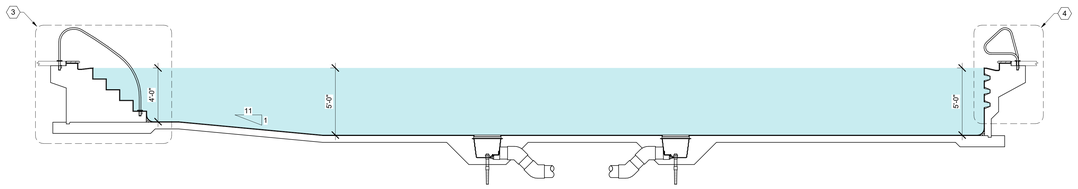
5 LAP POOL SECTION
1/4" = 1'-0"



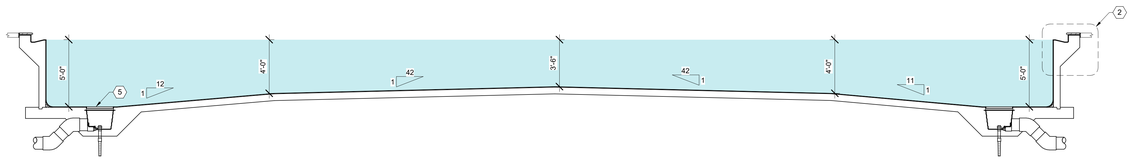
4 LAP POOL SECTION
1/4" = 1'-0"



3 LAP POOL SECTION
1/4" = 1'-0"



2 LAP POOL SECTION
1/4" = 1'-0"



1 LAP POOL SECTION
1/4" = 1'-0"

FILE PATH: Autodesk Docs://City of West Memphis Recreation Center/RAC_MVATWSM_AQUATICS.rvt
DATE PRINTED: 1/17/2025 2:54:14 PM

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DESCRIPTION
	2025-11-19 ISSUE FOR 95% DESIGN DEVELOPMENT
	2025-11-10 ISSUE FOR DESIGN DEVELOPMENT
	2025-04-11 PROGRESS SET

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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

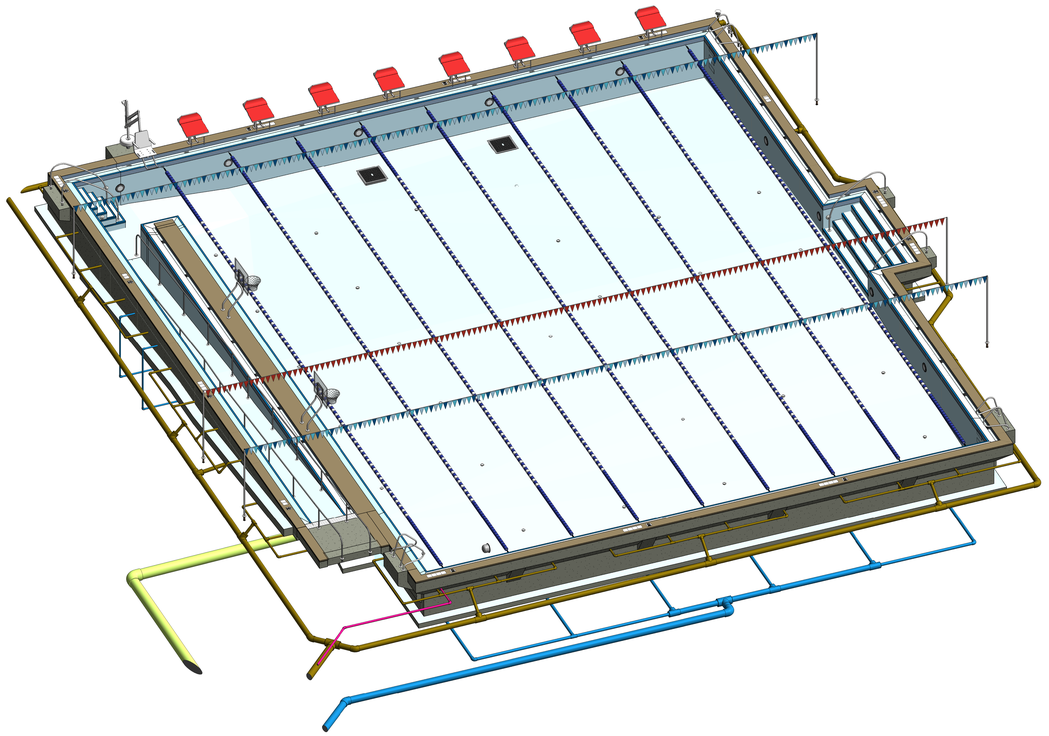
LAP POOL SECTIONS

SHEET NUMBER

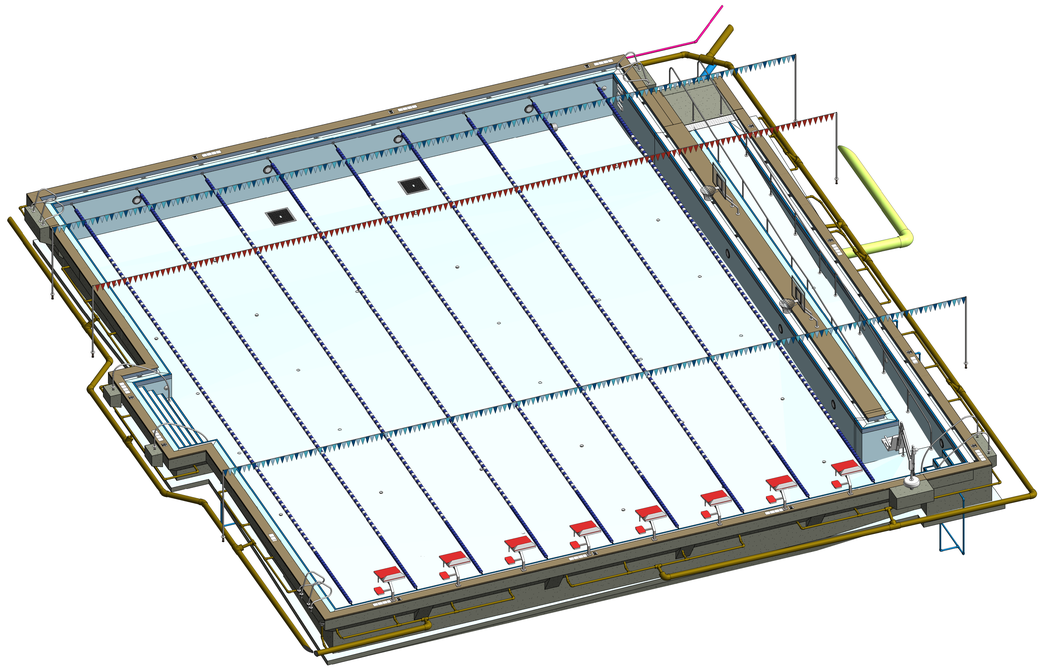
AQ-214

PIPE COLOR LEGEND

- FILTER PIPE
- DRAIN PIPE
- SUCTION PIPE
- GUTTER / SKIMMER
- STATIC



2 LAP POOL AXONOMETRIC



1 LAP POOL AXONOMETRIC

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West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
1	2020-04-17	CD PROGRESS SET

ARCHITECT

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ST HWY 191/I-40 SERV, West Memphis, AR 72301

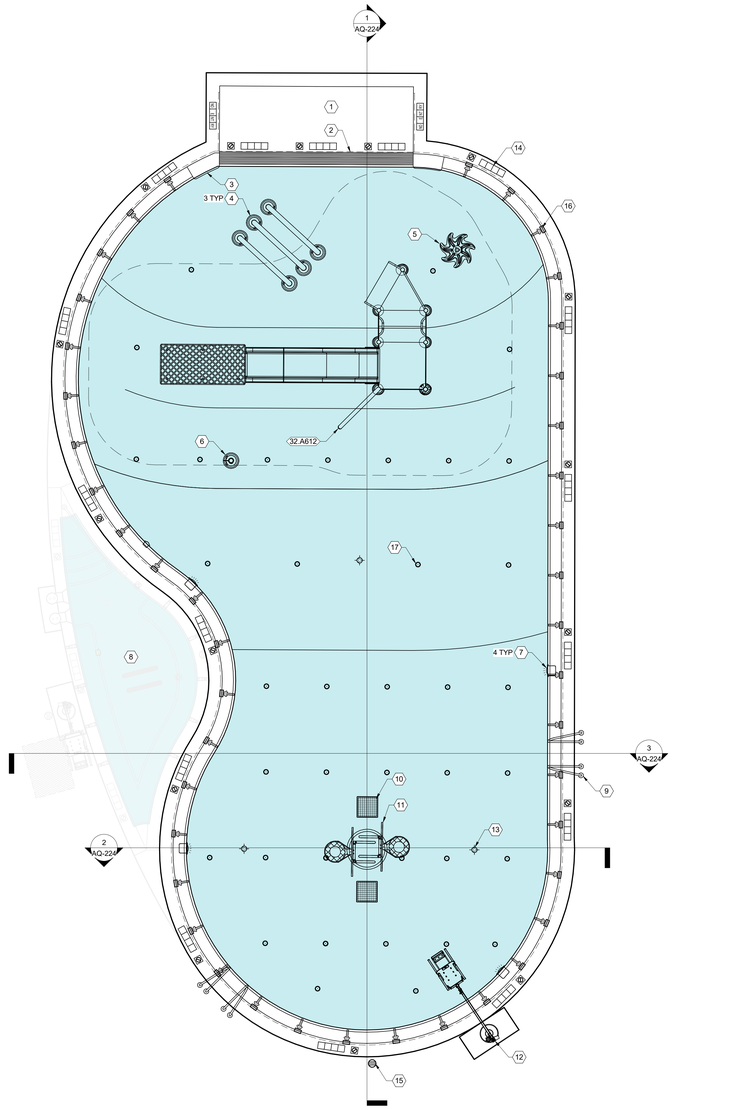
JOB No.: WESTCIT00561

SHEET TITLE

LAP POOL
AXONOMETRIC

SHEET NUMBER

AQ-215



1 ACTIVITY POOL EQUIPMENT ID
1/4" = 1'-0"

N

GENERAL SHEET NOTES

FEATURE CAD FILES AVAILABLE UPON REQUEST

SCHEDULE KEYNOTES

SCHED #	DESCRIPTION
32.A612	PLAYNUK NO.1

SHEET KEYNOTES

	DESCRIPTION	DETAIL
1	ZERO ENTRY POOL BEAM STRUCTURE	5 / AQ-530
2	ZERO-ENTRY GUTTER GRATING (LOCKABLE)	5 / AQ-530
3	OPEN GUTTER TO ZERO ENTRY TRANSITION	4 / AQ-531
4	ARCH WITH NOZZLES	1 / AQ-532
5	HELIO NO. 1	3 / AQ-532
6	AQUADOME NO.2	2 / AQ-532
7	BLUEMAR NOVA BRIGHT WHITE LIGHT MODULE	3 / AQ-530
8	WATER FEATURE - SPA	AQ-200
9	GRAB RAIL WITH INSET STEPS	9 / AQ-530
10	DRAIN SUMP ASSEMBLY - 18" X 18"	8 / AQ-530
11	BASKETBALL HOOP MOUNTED ON COLUMN STRUCTURE	4 / AQ-532
12	ACCESSIBLE LIFT UNIT ASSEMBLY	10 / AQ-530
13	HYDROSTATIC RELIEF VALVE - FLOOR MOUNTED	8 / AQ-540
14	DEPTH MARKER WITH NO-DIVING SYMBOL - SLIP RESISTANT	3 / AQ-531
15	GUTTER AIR RELIEF	7 / AQ-530
16	GUTTER FITTING	7 / AQ-530
17	FLOOR INLET	9 / AQ-540

ACTIVITY POOL FILTRATION NARRATIVE

The Activity Pool described herein features zero and stepped entry. The Activity Pool also feature multiple play elements for swimmers of all ages, including a play structure, basketball goals, as well as wet play elements and nozzles. And the Activity Pool is intended to operate continuously with a low-water usage filtration system and automated water chemistry feed equipment. All feature pumps are intended to operate during the open hours of the activity pool. The system requires normal, routine maintenance provided by the owner to maintain an operational system and a high-quality water environment.

ACTIVITY POOL DATA

AREA :	1,755.7 SF
PERIMETER :	173.1 FT
BATHING LOAD:	70 PERSONS
ACTIVITY POOL VOLUME :	32219 GALS
TANK VOLUME :	2603 GALS
TOTAL VOLUME :	32,219 GALS
TURNOVER :	1.0 HRS
DESIGNED FILTER FLOW :	550 GPM
MIN. FILTER FLOW :	262 GPM
MIN. DEPTH :	3.00 FT
MAX. DEPTH :	4.00 FT
FEATURE FLOW :	220 GPM
ACTIVITY POOL TO TANK	105 FT
MECH ROOM TO ACTIVITY POOL :	105 FT
FILTER WASTE FLOW, INCLUDING COLLECTED DIRT AND FILTER...	25 GPM
PRESSURE OVERFLOW :	125 GPM
PRESSURE OVERFLOW PIPE SIZE :	1 "
PRESSURE OVERFLOW PIPE QTY :	1

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ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
	2020-12-18	ISSUE FOR 90% DESIGN DEVELOPMENT
	2020-01-10	ISSUE FOR DESIGN DEVELOPMENT
	2019-04-17	PROGRESS SET

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JOB INFO

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RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

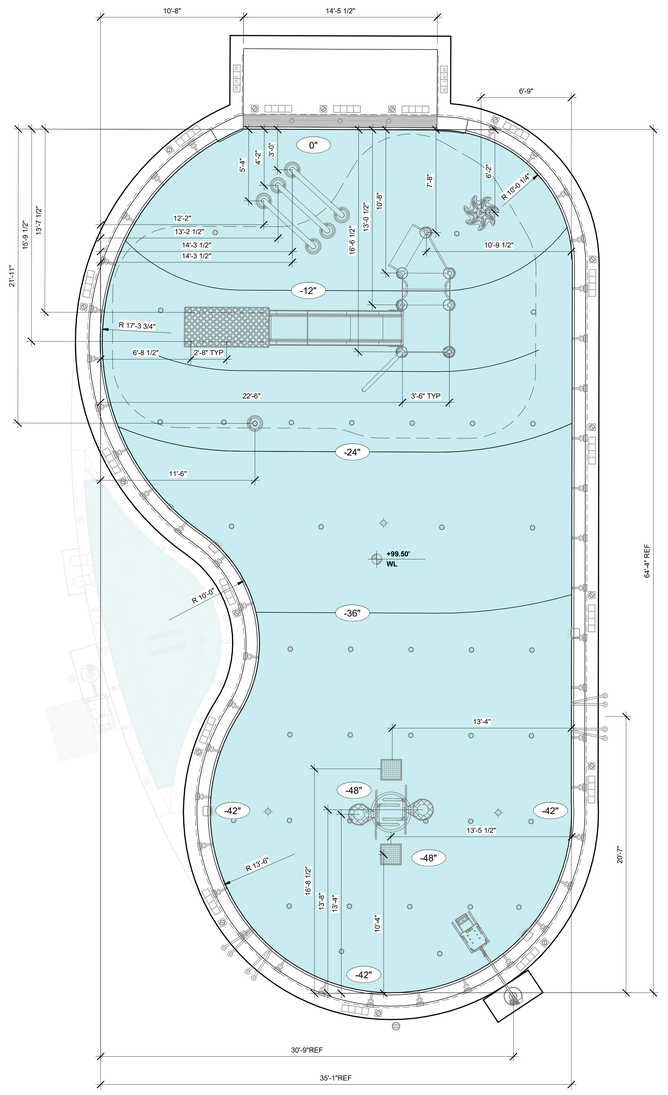
ACTIVITY POOL EQUIPMENT ID

SHEET NUMBER

AQ-220

GENERAL SHEET NOTES

FEATURE CAD FILES AVAILABLE UPON REQUEST



1 ACTIVITY POOL DIMENSIONS
1/4" = 1'-0"

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West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
1	2020-04-17	CD PROGRESS SET

ARCHITECT

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RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

ACTIVITY POOL DIMENSIONS

SHEET NUMBER

AQ-221

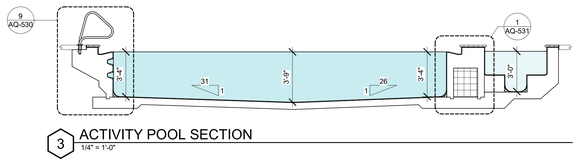
GENERAL SHEET NOTES

FLOOR SLOPE IS GIVEN AS AN ESTIMATE

MAX SLOPE TO BE NO GREATER THAN 1:10 AND MIN SLOPE TO BE NO LESS THAN 1:60

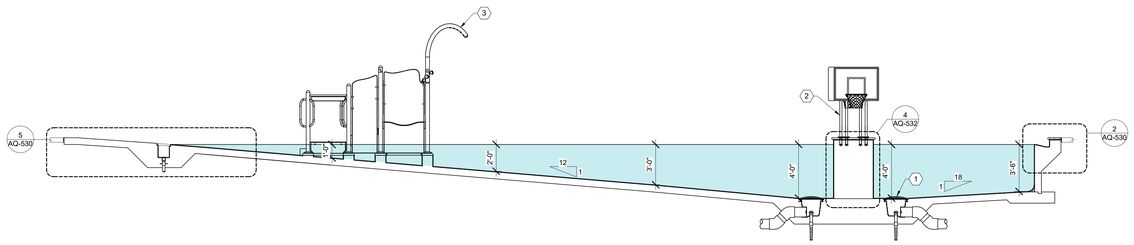
SHEET KEYNOTES

	DESCRIPTION	DETAIL
1	DRAIN SUMP ASSEMBLY - 18"X 18"	8 / AQ-530
2	BASKETBALL HOOP	4 / AQ-532
3	PLAY SLIDE STRUCTURE - REFER TO MANU. SPEC	---



3 ACTIVITY POOL SECTION
1/4" = 1'-0"

2 ACTIVITY POOL SECTION
1/4" = 1'-0"



1 ACTIVITY POOL SECTION
1/4" = 1'-0"

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
	2025-11-19	ISSUE FOR 95% DESIGN DEVELOPMENT
	2025-11-10	ISSUE FOR 50% DESIGN DEVELOPMENT
	2025-10-17	ISSUED SET

ARCHITECT

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RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

ACTIVITY POOL SECTIONS

SHEET NUMBER

AQ-224

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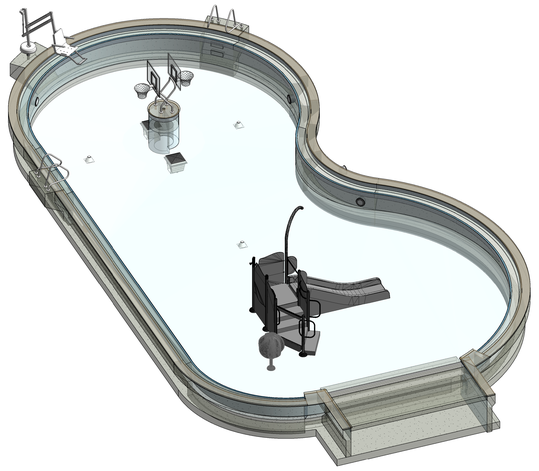
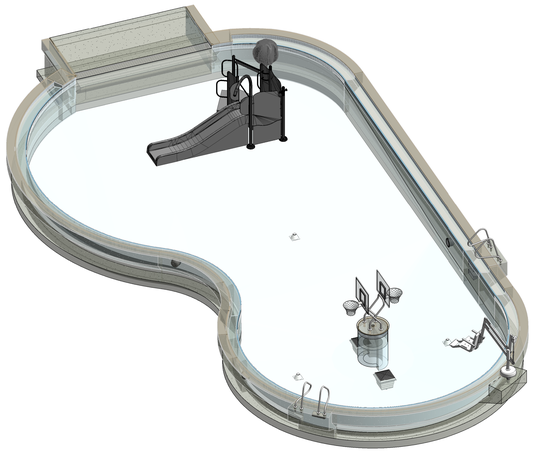
PIPE COLOR LEGEND

- FEATURE PIPE
- FILTER PIPE
- DRAIN PIPE
- SUCTION PIPE
- GUTTER / SKIMMER
- STATIC



2 ACITIVTY POOL AXONOMETRIC



1 ACITIVTY POOL AXONOMETRIC

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SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
1	2025.04.17	CD PROGRESS SET

ARCHITECT

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RECREATION CENTER
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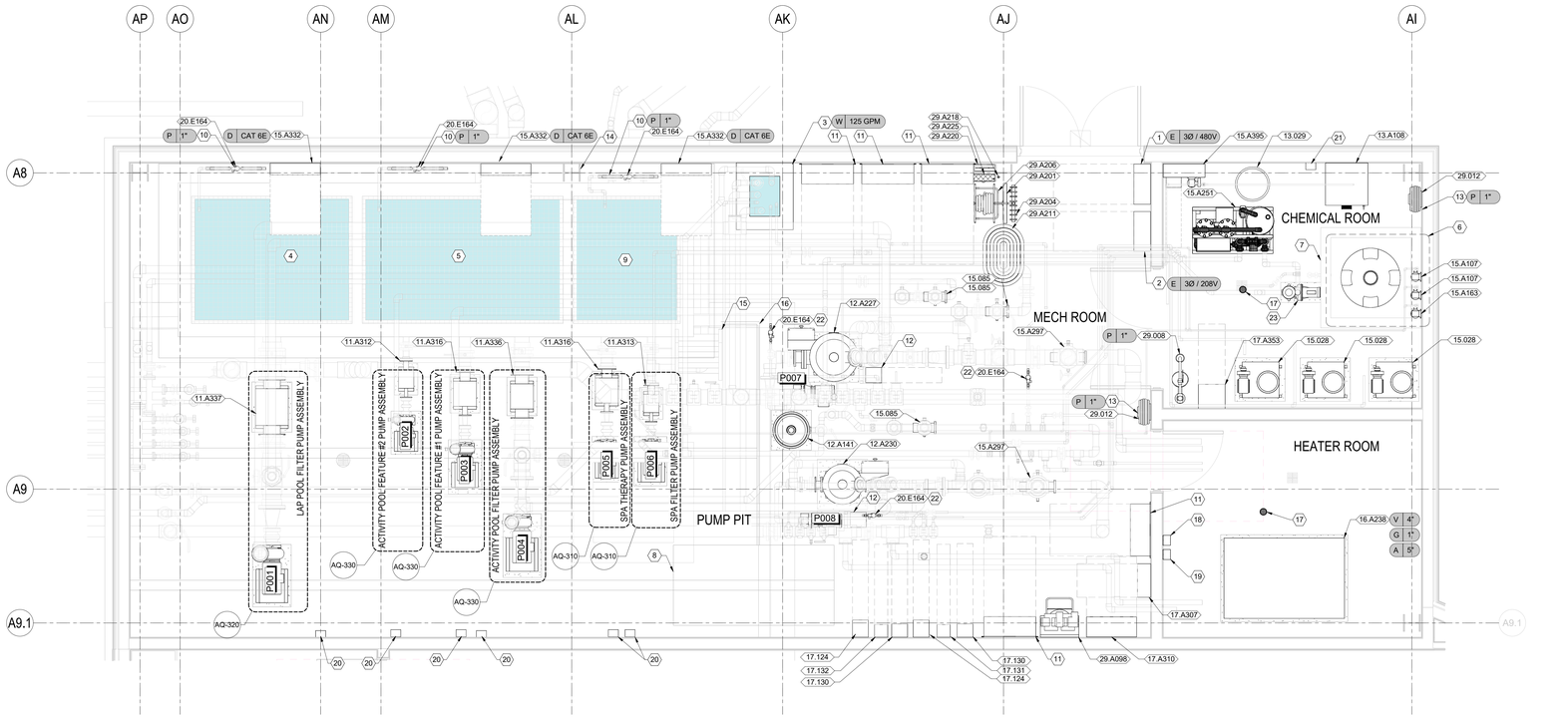
JOB No.: WESTCIT00561

SHEET TITLE

ACTIVITY POOL
AXONOMETRIC

SHEET NUMBER

AQ-225



1 MECHANICAL EQUIPMENT ID
3/8" = 1'-0"

GENERAL SHEET NOTES

ARCHITECTURAL ELEMENTS ARE SHOWN IN THIS PLAN FOR DESIGN INTENT ONLY. REFER TO ARCHITECT FOR FINAL ARCHITECTURAL AND STRUCTURAL PLANS FOR THE FLOOR CONSTRUCTION, FLOOR SLOPES, FLOOR DRAINS, VENTILATION, HOSE BIBS AROUND THE ROOM, OVERHEAD ILLUMINATION AND AIR HEATING / COOLING.

SLOPE THE FLOORS TO THE FLOOR DRAINS

ALL ELECTRICAL COMPONENTS AND EQUIPMENT THAT ARE NOT MANUFACTURER-EQUIPPED WITH A GROUND LUG SHALL BE GROUNDED/BONDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND IN COMPLIANCE WITH THE NEC.

MIN 30 FOOT CANDLES ILLUMINATION REQ'D AT FLOOR LEVEL

PUMP IDENTIFICATION

ID	DESCRIPTION	HP	KEYNOTE
P001	Lap Pool Filter Pump	20.00 hp	10.C300
P002	Activity Pool Feature Pump #2	3.00 hp	10.C036
P003	Activity Pool Feature Pump #1	7.50 hp	10.C044
P004	Activity Pool Filter Pump	20.00 hp	10.C152
P005	Spa Therapy Pump	5.00 hp	10.C025
P006	Spa Filter Pump	7.50 hp	10.C220
P007	Lap Pool Trash Pump	5.00 hp	10.921
P008	Activity Pool Trash Pump	5.00 hp	10.921
P009	NexGen Booster Pump	0.80 hp	

SCHEDULE KEYNOTES

11.A312	ACTIVITY POOL - SST HAIR & LINT STRAINER - ECCENTRIC REDUCING
11.A313	SPA - SST HAIR & LINT STRAINER - ECCENTRIC REDUCING
11.A316	ACTIVITY POOL & SPA - SST HAIR & LINT STRAINER - ECCENTRIC REDUCING
11.A336	ACTIVITY POOL - SST HAIR & LINT STRAINER - STRAIGHT
11.A337	LAP POOL - SST HAIR & LINT STRAINER - STRAIGHT
12.A141	CARTRIDGE FILTER
12.A227	REGENERATIVE MEDIA FILTER
12.A230	REGENERATIVE MEDIA FILTER
13.029	30 GALLON TANK
13.A108	100 GALLON SATURATED SALT FEEDER - SINGLE TANK DESIGN
15.028	EROSION CHLORINATOR
15.085	UV SANITIZER
15.A107	CHEMICAL FEEDER PUMP
15.A163	CHEMICAL FEEDER PUMP
15.A251	ON-SITE CHLORINE GENERATOR
15.A297	UV SANITIZER 240V
15.A332	DCM 513 - 5 SERIES CONTROLLER
15.A395	PERISTALTIC DOSING PUMP
16.A238	CUSTOM DELTA HYDRONICS CENTRALIZED HEATING BOILER PACKAGE
17.124	20 HP VFD, 380-480V, FOR PUMPS, WITH MAINS DISCONNECT, IP55 ENCLOSURE
17.130	7.5 HP VFD, 380-480V, FOR PUMPS, WITH MAINS DISCONNECT, IP55 ENCLOSURE
17.131	5 HP VFD, 380-480V, FOR PUMPS, WITH MAINS DISCONNECT, IP55 ENCLOSURE
17.132	3 HP VFD, 380-480V, FOR PUMPS, WITH MAINS DISCONNECT, IP55 ENCLOSURE
17.A307	LOW VOLTAGE POOL LIGHTING CONTROL CABINET
17.A310	MAIN CONTROL PANEL - SERIES 1 (MCP.S1)
17.A353	NEXGEN MULTI POOL CONTROLLER
20.E164	1" STAINLESS SOLENOID VALVE, 24VDC
29.008	EMERGENCY DRENCH SHOWER
29.012	50' HOSE - 0.75"
29.A098	AIR COMPRESSOR (2 HP)
29.A201	24" COMMERCIAL CURVED WALL BRUSH
29.A204	22" COMMERCIAL VACUUM HEAD
29.A206	STAINLESS STEEL HOSE REEL
29.A211	2" x 50' VACUUM HOSE
29.A218	REPLACEMENT TIP TOOL ADAPTER FOR FIBERGLASS POLES
29.A220	FIRST AID KIT
29.A225	LEAF SKIMMER

SHEET KEYNOTES

	DESCRIPTION	DETAIL
1	ELECTRICAL SUPPLY PANEL (HDP) – 3Ø 480/277V – NEMA 4X	AQ-460
2	ELECTRICAL SUPPLY PANEL (LDP) – 3Ø 208/120V – NEMA 4X	AQ-460
3	CUSTOM CONCRETE WASTE SUMP	TBD
4	LAP POOL COLLECTOR TANK	AQ-321 / AQ-322
5	ACTIVITY POOL COLLECTOR TANK	AQ-331 / AQ-332
6	MURIATIC ACID DILUTION SAFE STORAGE TANK & FEEDER ASSEMBLY	1 / AQ-551
7	CHEMICAL CONTAINMENT CURB WITH DRAIN VALVE	TBD
8	CLEAR SPACE - LIFTING ZONE FOR PUMP PIT	1 / AQ-550
9	SPA COLLECTOR TANK	AQ-311 / AQ-312
10	AUTO-FILL SOLENOID VALVE TO BE PRESSURE TRANSDUCER IN 2.5" STAND-PIPE WITHIN WHEN WATER LEVEL GETS TOO LOW, SOLENOID VALVE OPENS TO ALLOW WATER TO PASS TO TANK	---
11	UV PANEL INCLUDES INTEGRAL DISCONNECT	---
12	MOTOR STARTER WITH DISCONNECT SERVING TRASH PUMP	---
13	HOSE BIBB WITH VACUUM BREAK - REFER TO MEP	---
14	ARCHITECTURAL COLUMN - REFER TO ARCHITECTURE	---
15	ARCHITECTUAL HANDRAIL AND STAIRS TO PUMP PIT - REFER TO ARCHITECT	---
16	GUARDRAIL/HANDRAIL SURROUNDING PUMP PIT - REFER TO ARCHITECT	---
17	RECOMMENDED FLOOR DRAIN LOCATIONS - REFER TO MEP FOR FINAL LOCATIONS	---
18	NEMA 4X DISCONNECT SERVING INTEGRAL BOILER	---
19	NEMA 4X DISCONNECT SERVING INTEGRAL BOILER PUMP	---
20	NEMA 4X DISCONNECT	---
21	NEMA 4X DISCONNECT SERVING SALT CHLORINE GENERATOR	---
22	AUTO-DRAIN SOLENOID VALVE TO BE PRESSURE TRANSDUCER IN 2.5" STAND-PIPE WITHIN WHEN WATER LEVEL GETS TOO HIGH, SOLENOID VALVE OPENS TO ALLOW WATER TO PASS TO WASTE	---
23	NEXGEN BOOSTER PUMP	---

UTILITY DATA

1. WATER SUPPLY REQUIRED TO EQUIPMENT SPACE

A. PIPE SIZE DESIRED :	1 "
B. ESTIMATED PEAK WATER DEMAND :	13 GPM
C. MINIMUM PRESSURE REQUIRED :	50 PSI
D. ESTIMATED PEAK DAILY WATER USAGE :	2984 GAL

2. WASTE WATER LOADS (CAPACITY / FLOW):

A. FILTER WASTE WATER, CONTAINS COLLECTED DIRT AND FILTER MEDIA:	25 GPM
B. PRESSURE FLOW TO WASTE FROM ALL BASINS :	125 GPM

3. ELECTRICAL LOAD RECOMMENDATIONS: SEE PANEL SCHEDULES

4. VENTILATION / HVAC RECOMMENDATIONS:

A. THE CHEMICAL ROOM(S) HAVE SEPARATE VENTILATION SYSTEMS FROM THE FILTRATION / FEATURE ROOM(S) TO COMPLY WITH RELEVANT CODES. AIR FROM ANY CHEMICAL ROOM SHALL VENT TO THE OUTSID...

B. CHEMICAL ROOM VENTILATION SHALL BE PROVIDED BY FANS, CONNECTED TO MANDATORY EMERGENCY POWER, AND MULTIPLE FANS FOR REDUNDANCY IF POSSIBLE. RECOMMENDED AIR CHANGE RATE (TIMES PER HOUR) FOR ANY CHEMICAL STORAGE ROOMS : 20 X/HR

C. THE MAX AIR TEMPERATURE FOR VFD OPERATION SHALL BE : 104° F (40° C)
MEP SHALL PROVIDE CIRCULATION OR COOLING SUFFICIENT TO KEEP INTERIOR AIR TEMPERATURE BELOW 104°F (40°C) TO ENSURE CONTINUOUS VFD OPERATION. EXCEEDING TEMPERATURE WILL RESULT IN REDUCED FUNCTIONALITY AND PERFORMANCE.

D. APPROXIMATE BTU LOAD/HOUR TO AIR FROM PUMPS, VFDs, CAPACITORS, & OTHER EQUIPMENT : 17665 BTU

E. RECOMMENDED AIR CHANGE OR RECIRCULATED FILTRATION RATE (ACPH) FOR MECHANICAL ROOM : 10 X/HR

5. GAS SUPPLY REQUIRED FOR POOL / SPA HEATER(S):

A. TOTAL BTUs FOR ALL POOL HEATERS (x1000) :	539 BTU

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DESCRIPTION
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	2025-11-10 ISSUE FOR DESIGN DEVELOPMENT
	2025-04-14 ISSUED FOR SET

ARCHITECT

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700 N. St. Mary's St., Suite 1400, San Antonio, TX 78205 +1.726.245.1378
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HOUSTON SAN ANTONIO SANTA MONICA
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CONSULTANT

MARTIN AQUATIC
189 S. Orange Avenue, Suite 1220
Orlando, FL 32801
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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

MECH ROOM 1
EQUIPMENT ID

SHEET NUMBER

AQ-300

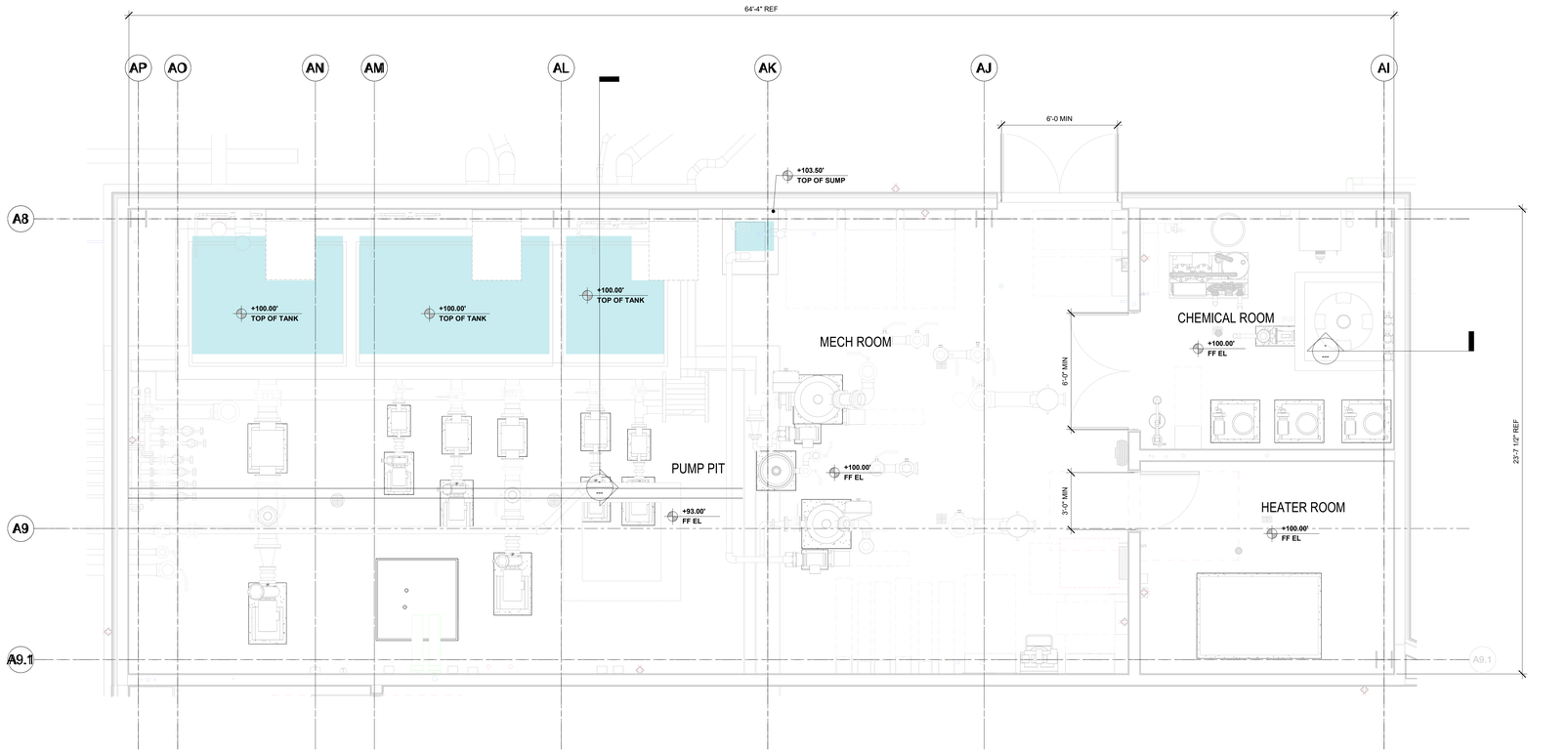
FILE PATH: ...Junction Docs\ City of West Memphis Recreation Center\RME_MASTER\Rvt_AQUATICS.rvt
DATE PRINTED: 4/17/2026 2:35:04 PM

GENERAL SHEET NOTES

MECH ROOM DIMENSION CAD FILES AVAILABLE UPON REQUEST

HOUSEKEEPING PAD ARE CONCRETE, 3,000 PSI @ 28 DAYS WITH #4 GRADE 60, PLACED AT 8-INCHES OCEW.

ALL MOUNTING HARDWARE MUST BE SST 316



1 MECHANICAL DIMENSIONS & HOUSEKEEPING PADS
3/8" = 1'-0"

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FILE PATH: J:\active Docs (City of West Memphis Recreation Center)\RME_MATERIAL AQUATICS.rvt
DATE PRINTED: 4/17/2026 2:26:01 PM

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
	2026-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
	2026-04-17	CD PROGRESS SET

ARCHITECT

PROJECT LUONG
820 Gessner Rd., Suite 775, Houston, TX 77024 +1.346.708.8241
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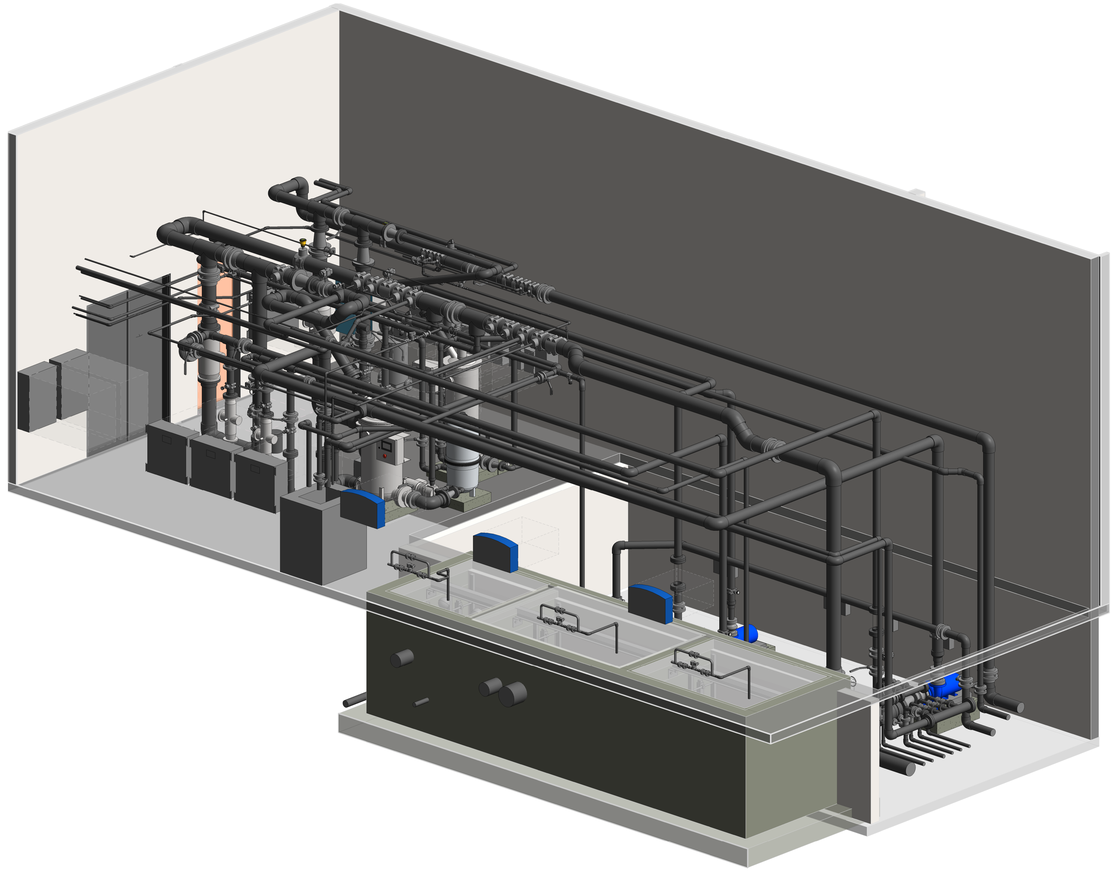
JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

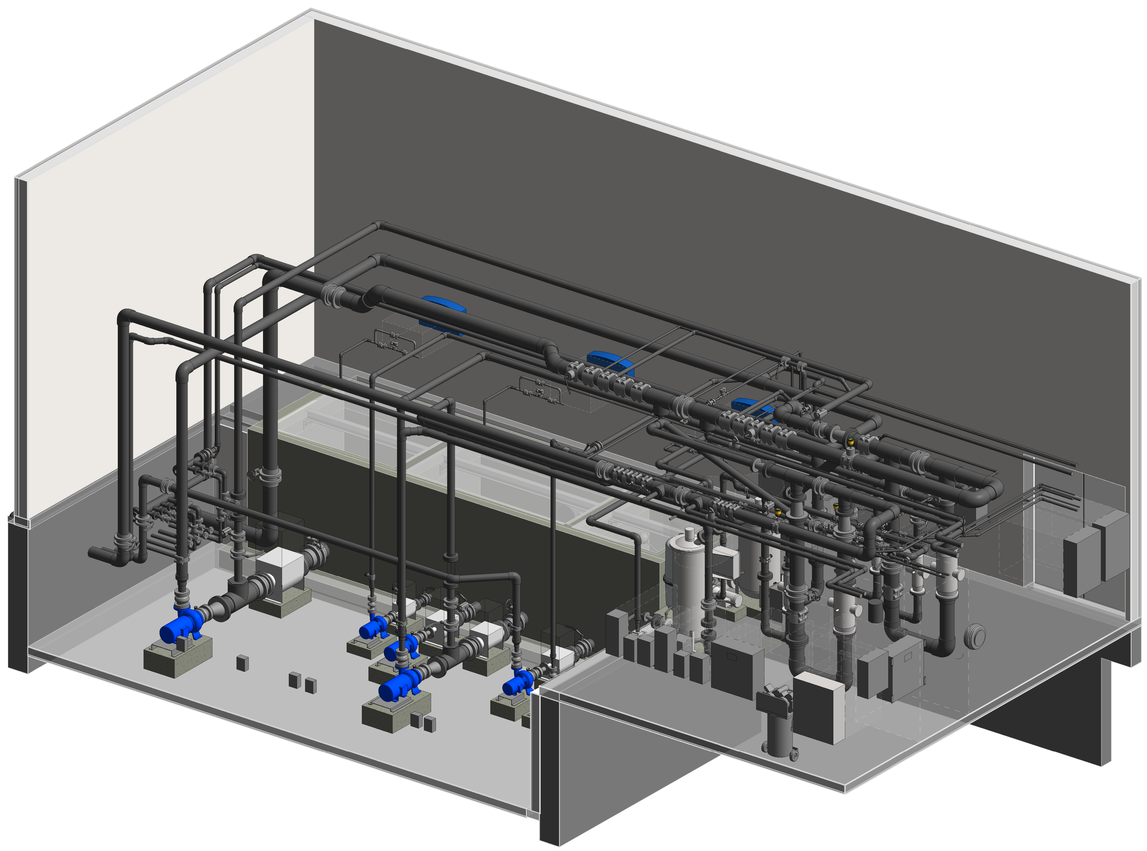
JOB No.: WESTCIT00561

SHEET TITLE
MECH ROOM 1 DIMENSIONS & HOUSEKEEPING PADS

SHEET NUMBER
AQ-301



2 MECHANICAL ROOM - 3D AXONOMETRIC



1 MECHANICAL ROOM - 3D AXONOMETRIC

FILE PATH: Autodesk Docs://City of West Memphis Recreation Center/WEST_MAINTENANCE_AQUATICS.rvt
DATE PRINTED: 2/17/2026 2:53:13 PM

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

no.	DATE	DESCRIPTION
	2026.04.17	CD PROGRESS SET

ARCHITECT

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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

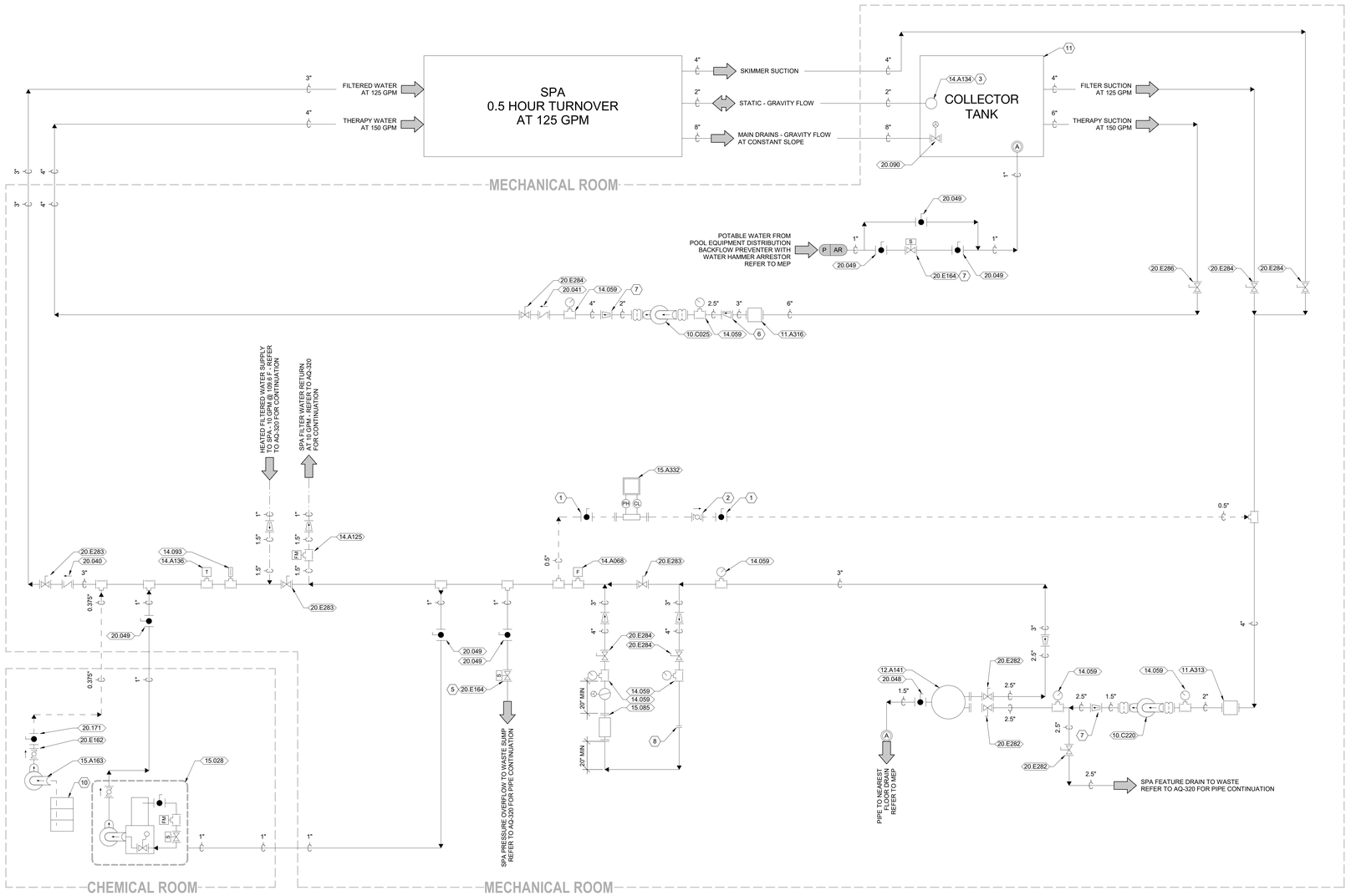
JOB No.: WESTCIT00561

SHEET TITLE

MECH ROOM 1
AXONOMETRIC

SHEET NUMBER

AQ-303



GENERAL SHEET NOTES

FLOOR DRAIN PIPE & STATIC PIPE MUST MAINTAIN CONSISTENT DOWNWARD SLOPE WITH THE POSSIBILITY OF A SINGLE LOW POINT, AND NO HIGH POINTS ALONG THE RUN, TO ELIMINATE THE POSSIBILITY OF AIR ENTRAPMENT AT ANY POINT IN THE PIPE.

ALL PIPING SHOWN ON THIS SHEET IS SCHEDULE 80 PVC UNLESS NOTED OTHERWISE OR WITHIN WRITTEN SPECIFICATIONS

SCHEDULE KEYNOTES

10.C025	SPA - FEATURE PUMP
10.C220	SPA - FILTER PUMP
11.A313	SPA - SST HAIR & LINT STRAINER - ECCENTRIC REDUCING
11.A316	ACTIVITY POOL & SPA - SST HAIR & LINT STRAINER - ECCENTRIC REDUCING
12.A141	CARTRIDGE FILTER
14.059	COMPOUND PRESSURE GAUGE
14.093	TEMPERATURE GAUGE
14.A068	FLOW SENSOR
14.A125	1.5" FLOW METER
14.A134	HYDROSTATIC WATER LEVEL SENSOR
14.A136	TEMPERATURE SENSOR
15.028	EROSION CHLORINATOR
15.085	UV SANITIZER
15.A163	CHEMICAL FEEDER PUMP
15.A332	DCM 513 - 5 SERIES CONTROLLER
20.040	3" WAFER STYLE DUAL DISC CHECK VALVE
20.041	4" WAFER STYLE DUAL DISC CHECK VALVE
20.048	0.75" BALL VALVE
20.049	1" BALL VALVE
20.090	6" BUTTERFLY VALVE - REMOTE EXTENSION OPERATED - 1-6 FT
20.171	0.375" BALL VALVE
20.E162	0.375" BALL CHECK VALVE
20.E164	1" STAINLESS SOLENOID VALVE, 24VDC
20.E282	2.5" LEVER OPERATED WAFER STYLE BUTTERFLY VALVE
20.E283	3" LEVER OPERATED WAFER STYLE BUTTERFLY VALVE
20.E284	4" LEVER OPERATED WAFER STYLE BUTTERFLY VALVE
20.E286	6" LEVER OPERATED WAFER STYLE BUTTERFLY VALVE

SHEET KEYNOTES

1	VENDOR SUPPLIED BALL VALVE
2	VENDOR SUPPLIED BALL CHECK VALVE
3	WATER LEVEL SENSOR MONITORING BASIN WL AND LOCATED WITHIN 2.5" STAND-PIPE IN TANK
5	AUTO-DRAIN SOLENOID VALVE TO BE CONTROLLED BY PRESSURE TRANSDUCER LOCATED IN 3" STAND-PIPE WITHIN ADJACENT PLANTER - WHEN WATER LEVEL BECOMES TOO HIGH, SOLENOID VALVE OPENS FOR WATER TO PASS TO WASTE
6	LOCATED ECCENTRIC REDUCER WITHIN 1-FT OF PUMP INFLUENT
7	LOCATE CONCENTRIC REDUCER WITHIN 1-FT OF PUMP EFFLUENT
8	DOUBLE FLANGE PIPE BREAK AT THIS LOCATION
10	SHARED CHEMICAL DILUTION SAFE TANK - MURIATIC ACID
11	CUSTOM CONCRETE WATERPROOF TANK WITH WHITE COLORED BASE CRETE (TWO COATS)

PIPE LEGEND

- PVC PIPE
- CPVC PIPE
- POLYETHYLENE TUBING ENCASED IN SLEEVE
- SST PIPE

PIPING DIAGRAM SYMBOLS LEGEND

- AIR GAP
- EZ FLOW UV STRAINER
- HOSE BIBB W/ VACUUM BREAK
- VIEW GLASS
- WYE FITTING
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- SADDLE CLAMP
- RUBBER EXPANSION JOINT
- DOUBLE FLANGE

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
1	2025-12-19	ISSUE FOR 90% DESIGN DEVELOPMENT
2	2026-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
3	2026-02-13	PERMISSION SET

ARCHITECT

PROJECT LUDNG
820 Gessner Rd., Suite 770, Houston, TX 77024 +1.346.708.9241
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CONSULTANT

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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

SPA PIPING DIAGRAM

SHEET NUMBER

AQ-310

FILE PATH: ...\...\...\

GENERAL SHEET NOTES

SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION

LINK SEALS WITH SST, GRADE 316, HARDWARE REQUIRED FOR ALL PIPES PENETRATIONS THROUGH TANK WALL

PROVIDE 316 STAINLESS STEEL HARDWARE AND SUPPORTS WITHIN TANK FOR SECUREMENT OF PIPES, VALVES, AND HANDLES EXTENSIONS

REFER TO AQ-322 FOR TANK STRUCTURAL REQUIREMENTS

ADDITIONAL REINFORCING REQUIRED AT ALL PENETRATIONS 8" & LARGER.

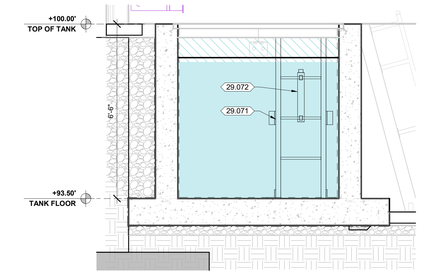
PROVIDE MINIMUM 2" CONCRETE COVER ON ALL REINFORCING AT PENETRATIONS

SCHEDULE KEYNOTES

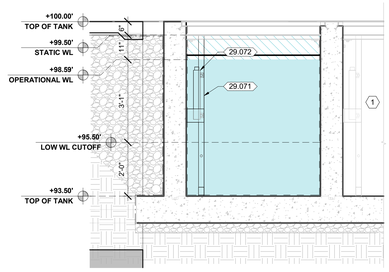
29.071 AMERIRAL FRP LADDER
29.072 LADDER UP - SAFETY POST

SHEET KEYNOTES

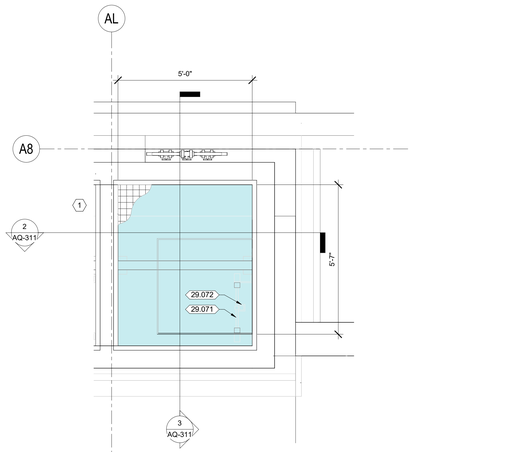
1 ACTIVITY POOL COLLECTOR TANK



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



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



1 SPA COLLECTOR TANK PLAN
1/2" = 1'-0"

N

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
1	2020-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
2	2020-04-17	CD PROGRESS SET

ARCHITECT

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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

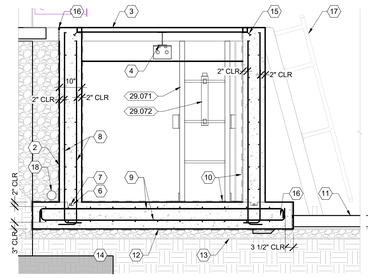
SHEET TITLE

SPA TANK
(HYDRAULIC)

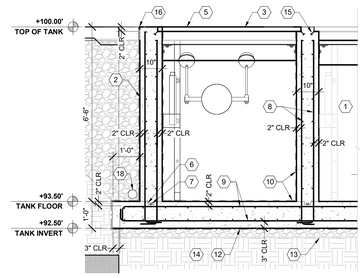
SHEET NUMBER

AQ-311

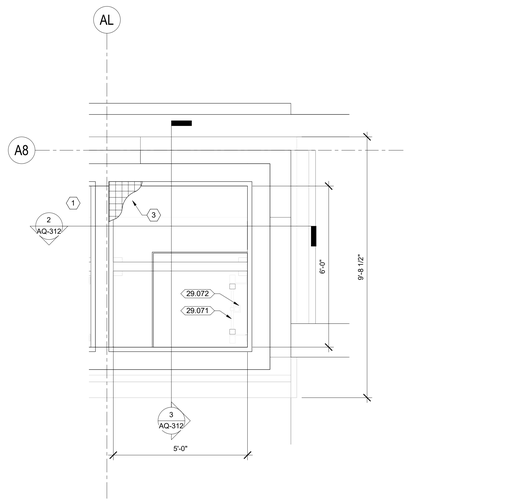
FILE PATH: Autodesk Docs://City of West Memphis Recreation Center/RE_MASTERMod_AQUATICS.rvt
DATE PRINTED: 4/17/2020 2:05:15 PM



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



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



1 SPA COLLECTOR TANK PLAN
1/2" = 1'-0"

GENERAL SHEET NOTES

SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION

SCHEDULE KEYNOTES

29.071	AMERIRAIL FRP LADDER
29.072	LADDER UP - SAFETY POST

SHEET KEYNOTES

1	ACTIVITY POOL COLLECTOR TANK
2	CUSTOM CONCRETE WATERPROOF TANK (SEE GENERAL NOTES AND SPECIFICATIONS FOR CONCRETE REQUIREMENTS)
3	2" x 2" FRP GRATE COVER LOCKED IN PLACE WITH 316 STAINLESS STEEL HARDWARE. GRATING SHALL SUPPORT 100 PSF LIVE LOAD AT MAXIMUM 1/4" DEFLECTION (CONTRACTOR TO PROVIDE SHOP DRAWINGS TO THIS ENGINEER)
4	GRADE 316 SST OR FRP I-BEAM, REQUIRES GRADE 316 HARDWARE - CONTRACTOR TO PROVIDE SHOP DRAWINGS TO THIS ENGINEER
5	PROVIDE OPENING IN GRATING TO ACCESS LADDER BELOW. ACCESS MUST BE LOCKABLE
6	CONTINUOUS 1-1/2" X 3" KEYWAY
7	SIKA/GREENSTREAK HYDROPHILIC WATERSTOP
8	WALL STEEL REINFORCING: #5 AT 10" VERTICAL OCEW EACH FACE (HOOK AT BOTTOM INTO FOUNDATION)
9	FLOOR STEEL REINFORCING: #5 AT 10"OCEW TOP AND BOTTOM (HOOK AT END)
10	COAT ALL TANK INTERIOR SURFACES W/ (2) COATS OF XYPEX CONCENTRATE - COLOR: WHITE
11	MECH FLOOR STRUCTURAL SLAB - REFER TO PROJECT STRUCTURAL ENGINEER
12	VAPOR BARRIER
13	CRUSHED ROCK/STONE
14	WELL-COMPACTED EARTH/SOIL (REFER TO GEOTECHNICAL REPORT)
15	EMBEDDED FIBERGLASS CURB ANGLE OR OTHER SUPPORT METHOD. SELECTED SUPPORT METHOD SHALL BE SHOWN IN STAMPED SHOP DRAWINGS
16	ISOLATION JOINT
17	ARCHITECTUAL HANDRAIL AND STAIRS TO PUMP PIT - REFER TO ARCHITECT
18	PEFORATED PIPE BEHIND TANK WALLS

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
1	2025-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
2	2025-04-17	CD PROGRESS SET

ARCHITECT

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ProjectLuong.com

CONSULTANT

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189 S. Orange Avenue, Suite 1220
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407.598.0550 | MartinAquatic.com

JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

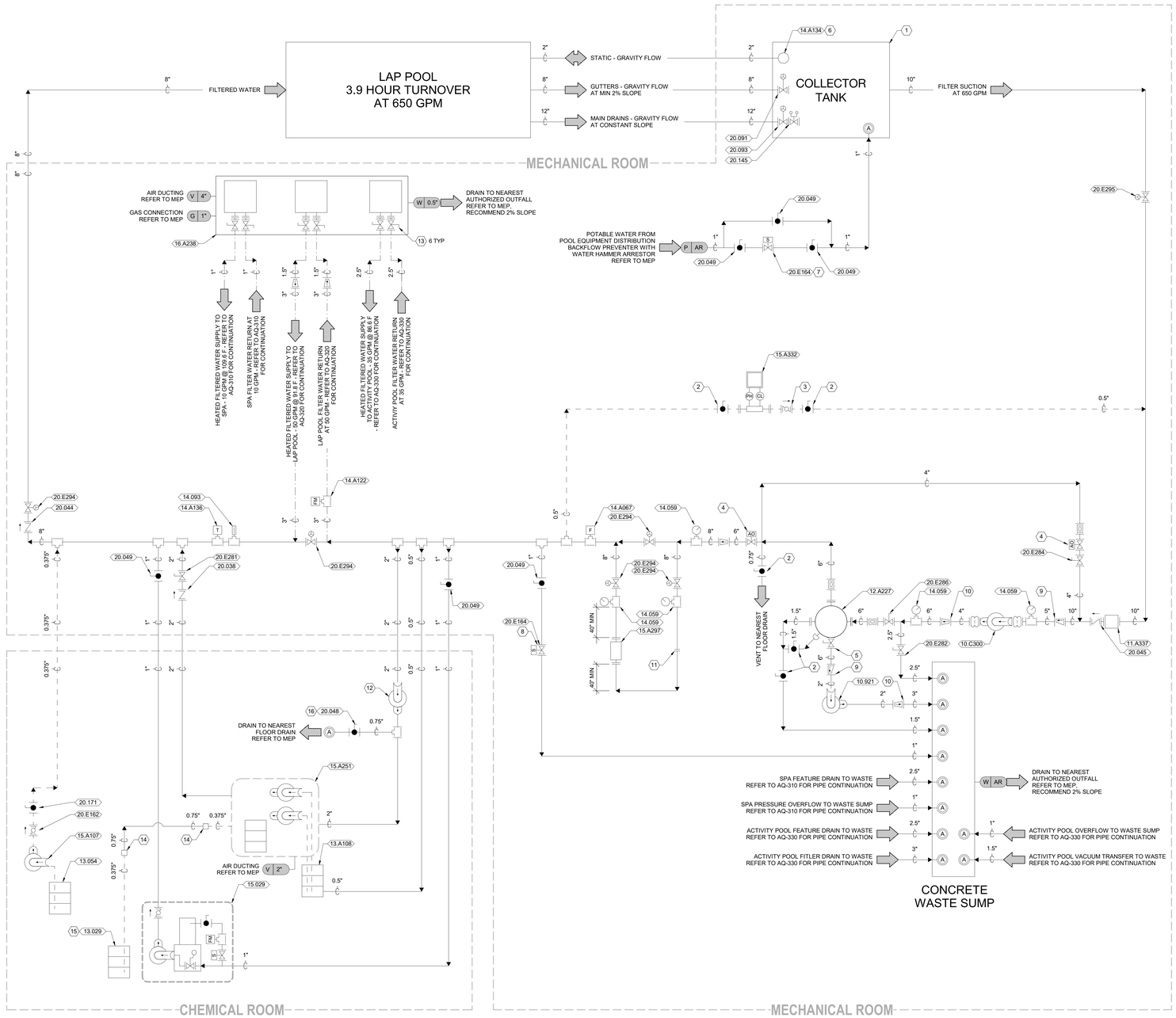
SHEET TITLE

SPA TANK
(STRUCTURE)

SHEET NUMBER

AQ-312

FILE PATH: Autodesk Docs://City of West Memphis Recreation Center/RAE_MASTERfile_AQUATICS.rvt
DATE PRINTED: 4/17/2025 2:55:17 PM



GENERAL SHEET NOTES

PERIMETER GUTTER PIPE MUST SLOPE AWAY FROM THE POOL AT A 2% SLOPE MINIMUM.

FLOOR DRAIN PIPE & STATIC PIPE MUST MAINTAIN CONSISTENT DOWNWARD SLOPE WITH THE POSSIBILITY OF A SINGLE LOW POINT, AND NO HIGH POINTS ALONG THE RUN, TO ELIMINATE THE POSSIBILITY OF AIR ENTRAPMENT AT ANY POINT IN THE PIPE.

ALL PIPING SHOWN ON THIS SHEET IS SCHEDULE 80 PVC UNLESS NOTED OTHERWISE OR WITHIN WRITTEN SPECIFICATIONS

SCHEDULE KEYNOTES

10.921	TRASH PUMP
10.C300	LAP POOL - FILTER PUMP
11.A337	LAP POOL - SST HAIR & LINT STRAINER - STRAIGHT
12.A227	REGENERATIVE MEDIA FILTER
13.029	30 GALLON TANK
13.054	CHEMICAL SAFE TANK - 105 GAL
13.A108	100 GALLON SATURATED SALT FEEDER - SINGLE TANK DESIGN
14.059	COMPOUND PRESSURE GAUGE
14.093	TEMPERATURE GAUGE
14.A067	FLOW SENSOR
14.A122	3" FLOW METER
14.A134	HYDROSTATIC WATER LEVEL SENSOR
14.A136	TEMPERATURE SENSOR
15.029	EROSION CHLORINATOR
15.A107	CHEMICAL FEEDER PUMP
15.A251	ON-SITE CHLORINE GENERATOR
15.A297	UV SANITIZER 240V
15.A332	DCM 513 - 5 SERIES CONTROLLER
16.A238	CUSTOM DELTA HYDRONICS CENTRALIZED HEATING BOILER PACKAGE
20.038	2" WAFER STYLE DUAL DISC CHECK VALVE
20.044	8" WAFER STYLE DUAL DISC CHECK VALVE
20.045	10" WAFER STYLE DUAL DISC CHECK VALVE
20.048	0.75" BALL VALVE
20.049	1" BALL VALVE
20.091	8" BUTTERFLY VALVE - REMOTE EXTENSION OPERATED - 1-6 FT
20.093	12" BUTTERFLY VALVE - REMOTE EXTENSION OPERATED - 1-6 FT
20.145	12" PVC DIVERSION VALVE - INLINE
20.171	0.375" BALL VALVE
20.E162	0.375" BALL CHECK VALVE
20.E164	1" STAINLESS SOLENOID VALVE, 24VDC
20.E281	2" LEVER OPERATED WAFER STYLE BUTTERFLY VALVE
20.E282	2.5" LEVER OPERATED WAFER STYLE BUTTERFLY VALVE
20.E284	4" LEVER OPERATED WAFER STYLE BUTTERFLY VALVE
20.E286	6" LEVER OPERATED WAFER STYLE BUTTERFLY VALVE
20.E294	8" GEAR OPERATED WAFER STYLE BUTTERFLY VALVE
20.E295	10" GEAR OPERATED WAFER STYLE BUTTERFLY VALVE

SHEET KEYNOTES

1	CUSTOM CONCRETE WATERPROOF TANK WITH WHITE COLORED BASE CRETE (TWO COATS)
2	VENDOR SUPPLIED BALL VALVE
3	VENDOR SUPPLIED BALL CHECK VALVE
4	VENDOR SUPPLIED PNEUMATIC ACTUATED VALVE
5	VENDOR SUPPLIED BUTTERFLY VAVLE
6	WATER LEVEL SENSOR MONITORING BASIN WL AND LOCATED WITHIN 2.5" STAND-PIPE IN TANK
7	AUTO-FILL SOLENOID VALVE TO BE PRESSURE TRANSDUCER IN 2.5" STAND-PIPE WITHIN WHEN WATER LEVEL GETS TOO LOW, SOLENOID VALVE OPENS TO ALLOW WATER TO PASS TO TANK
8	AUTO-DRAIN SOLENOID VALVE TO BE CONTROLLED BY HYDROSTATIC WATER LEVEL SENSOR LOCATED IN THE TANK - WHEN WATER LEVEL BECOMES TOO HIGH, SOLENOID VALVE OPENS FOR WATER TO PASS TO WASTE
9	LOCATED ECCENTRIC REDUCER WITHIN 1-FT OF PUMP INFLUENT
10	LOCATE CONCENTRIC REDUCER WITHIN 1-FT OF PUMP EFFLUENT
11	DOUBLE FLANGE PIPE BREAK AT THIS LOCATION
12	NEXGEN BOOSTER PUMP
13	PREASSEMBLED, VENDOR SUPPLIED SHUT OFF VALVES ON PHE SKID
14	TRANSITION BETWEEN NYLON AND PVC PIPE
15	SHARED 30 GAL pH TANK FOR NEXGEN CHLORINE GENERATORS
16	AIR RELIEF PIPE TO BE PLACED AT HIGH POINT

PIPE LEGEND

- PVC PIPE
- CPVC PIPE
- POLYETHYLENE TUBING ENCASED IN SLEEVE
- SST PIPE

PIPING DIAGRAM SYMBOLS LEGEND

- AIR GAP
- EZ FLOW UV STRAINER
- HOSE BIBB W/ VACUUM BREAK
- VIEW GLASS
- WYE FITTING
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- SADDLE CLAMP
- RUBBER EXPANSION JOINT
- DOUBLE FLANGE

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

no.	DATE	DESCRIPTION
	2025-12-19	ISSUE FOR 95% DESIGN DEVELOPMENT
	2026-01-30	ISSUE FOR DESIGN DEVELOPMENT
	2026-02-13	ADDENDUM #1

ARCHITECT

PROJECT LUdNG
HOUSTON
SAN ANTONIO
SANTA MONICA
TBAE REG. No. BR 4215
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730 Arizona Ave., Santa Monica, CA 90401 +1.213.594.7230
Projectluong.com

CONSULTANT

MARTIN AQUATIC
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Orlando, FL 32801
407.598.0550 | MartinAquatic.com

JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

LAP POOL PIPING DIAGRAM

SHEET NUMBER

AQ-320

FILE PATH: ...\...\...\

GENERAL SHEET NOTES

SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION

LINK SEALS WITH SST, GRADE 316, HARDWARE REQUIRED FOR ALL PIPES PENETRATIONS THROUGH TANK WALL

PROVIDE 316 STAINLESS STEEL HARDWARE AND SUPPORTS WITHIN TANK FOR SECUREMENT OF PIPES, VALVES, AND HANDLES EXTENSIONS

REFER TO AQ-322 FOR TANK STRUCTURAL REQUIREMENTS

ADDITIONAL REINFORCING REQUIRED AT ALL PENETRATIONS 8" & LARGER.

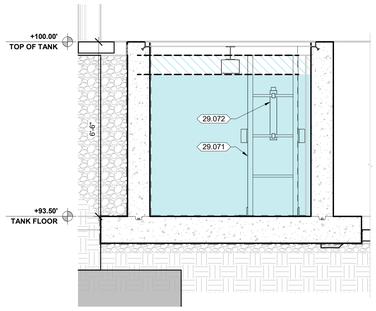
PROVIDE MINIMUM 2" CONCRETE COVER ON ALL REINFORCING AT PENETRATIONS

SCHEDULE KEYNOTES

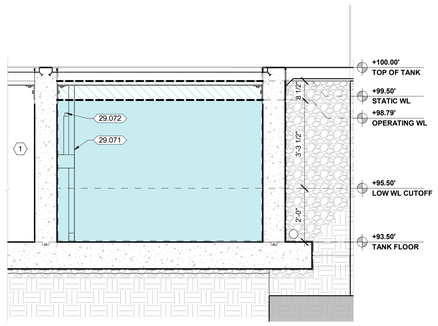
29.071 AMERIRAIL FRP LADDER
29.072 LADDER UP - SAFETY POST

SHEET KEYNOTES

1 ACTIVITY POOL COLLECTOR TANK



3 LAP POOL COLLECTOR TANK SECTION
1/2" = 1'-0"



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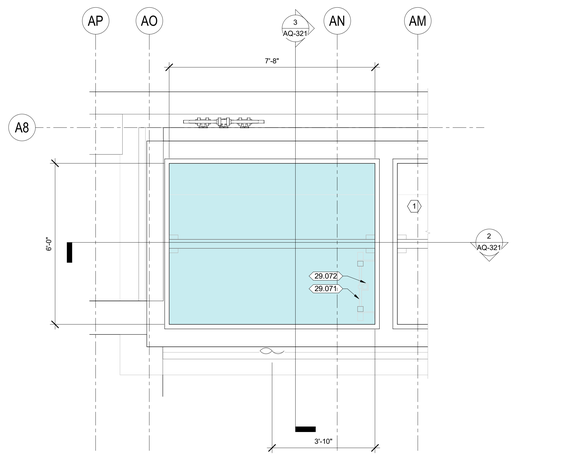

1 LAP POOL COLLECTOR TANK PLAN
1/2" = 1'-0"

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
	2020-04-30	ISSUE FOR 100% DESIGN DEVELOPMENT
	2020-04-17	CD PROGRESS SET

ARCHITECT

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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

LAP POOL TANK
(HYDRAULIC)

SHEET NUMBER

AQ-321

FILE PATH: J:\active Docs (City of West Memphis Recreation Center)\RME_MAT\ATOM_AQUATICS.rvt
DATE PRINTED: 4/17/2020 2:05:19 PM

GENERAL SHEET NOTES

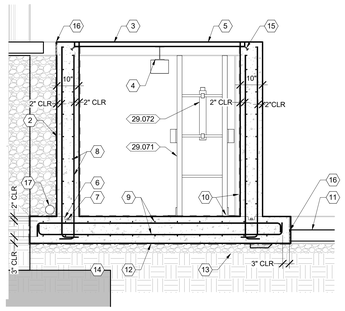
SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION

SCHEDULE KEYNOTES

29.071	AMERIRAIL FRP LADDER
29.072	LADDER UP - SAFETY POST

SHEET KEYNOTES

1	ACTIVITY POOL COLLECTOR TANK
2	CUSTOM CONCRETE WATERPROOF TANK (SEE GENERAL NOTES AND SPECIFICATIONS FOR CONCRETE REQUIREMENTS)
3	2" x 2" FRP GRATE COVER LOCKED IN PLACE WITH 316 STAINLESS STEEL HARDWARE. GRATING SHALL SUPPORT 100 PSF LIVE LOAD AT MAXIMUM 1/4" DEFLECTION (CONTRACTOR TO PROVIDE SHOP DRAWINGS TO THIS ENGINEER)
4	GRADE 316 SST OR FRP I-BEAM, REQUIRES GRADE 316 HARDWARE - CONTRACTOR TO PROVIDE SHOP DRAWINGS TO THIS ENGINEER
5	PROVIDE OPENING IN GRATING TO ACCESS LADDER BELOW. ACCESS MUST BE LOCKABLE
6	CONTINUOUS 1-1/2" X 3" KEYWAY
7	SIKAGREENSTREAK HYDROPHILIC WATERSTOP
8	WALL STEEL REINFORCING: #5 AT 10" VERTICAL OCEW EACH FACE (HOOK AT BOTTOM INTO FOUNDATION)
9	FLOOR STEEL REINFORCING: #5 AT 10"OCEW TOP AND BOTTOM (HOOK AT END)
10	COAT ALL TANK INTERIOR SURFACES W/ (2) COATS OF XYPEX CONCENTRATE - COLOR: WHITE
11	MECH FLOOR STRUCTURAL SLAB - REFER TO PROJECT STRUCTURAL ENGINEER
12	VAPOR BARRIER
13	CRUSHED ROCK/STONE
14	WELL-COMPACTED EARTH/SOIL (REFER TO GEOTECHNICAL REPORT)
15	EMBEDDED FIBERGLASS CURB ANGLE OR OTHER SUPPORT METHOD. SELECTED SUPPORT METHOD SHALL BE SHOWN IN STAMPED SHOP DRAWINGS
16	ISOLATION JOINT
17	PEFORATED PIPE BEHIND TANK WALLS



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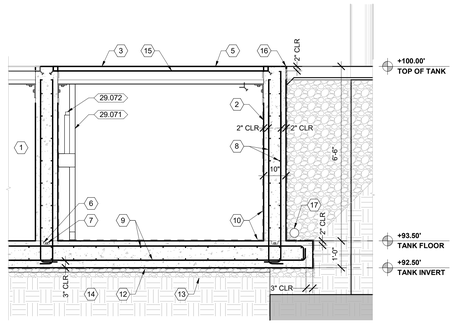
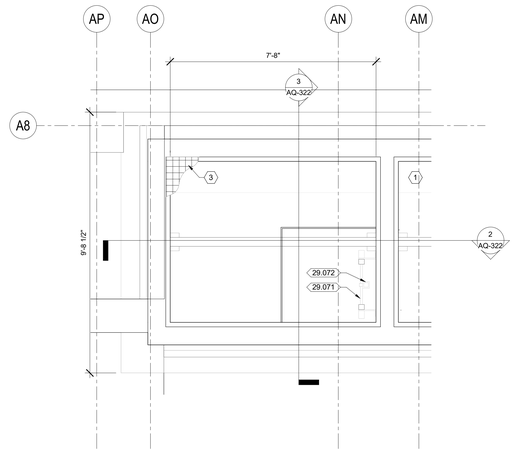
1/2" = 1'-0"



2 LAP POOL COLLECTOR TANK SECTION
1/2" = 1'-0"



1 LAP POOL COLLECTOR TANK PLAN
1/2" = 1'-0"

N

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SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
	2020-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
	2020-04-17	CD PROGRESS SET

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JOB INFO

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RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

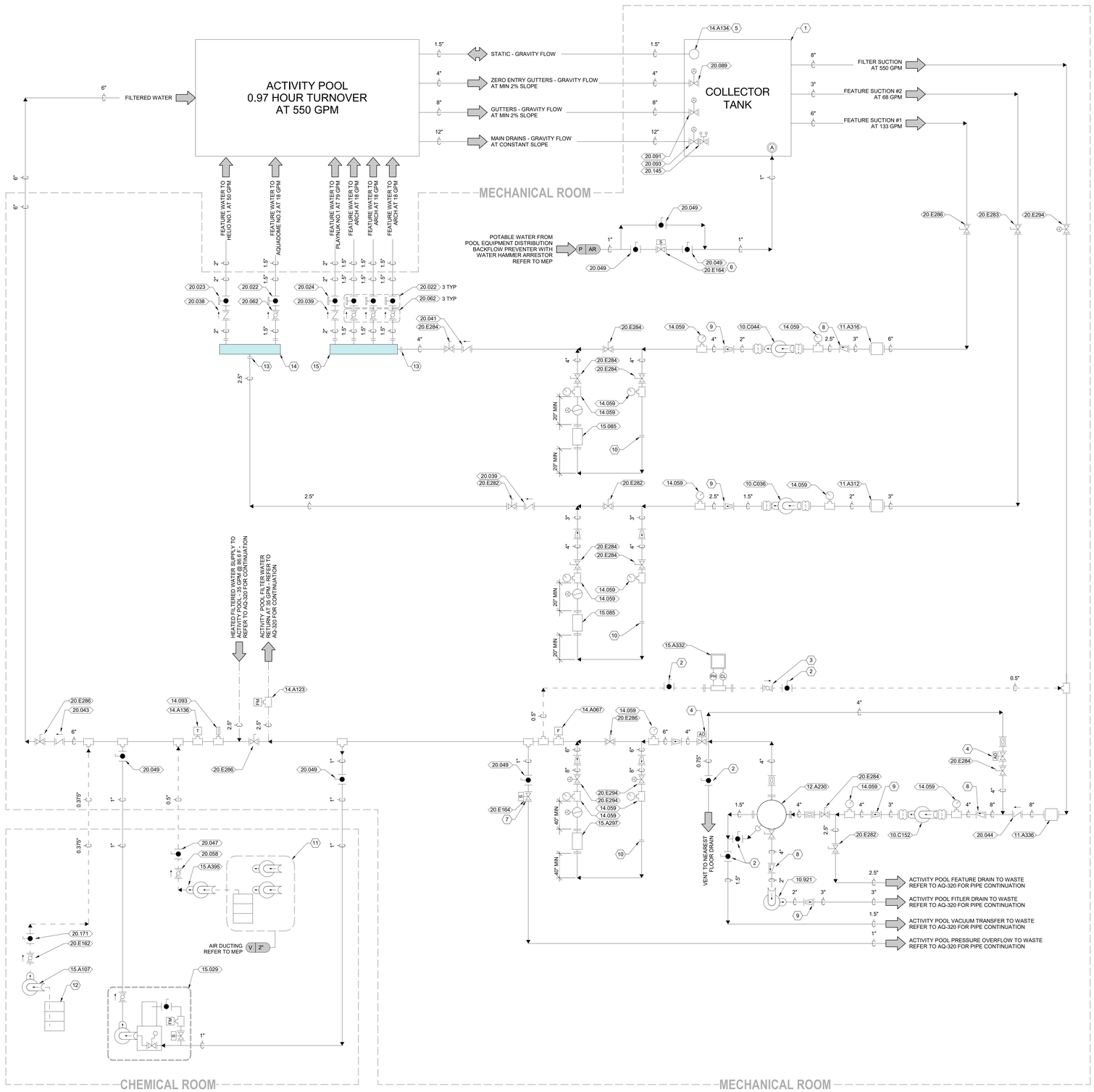
JOB No.: WESTCIT00561

SHEET TITLE

LAP POOL TANK
(STRUCTURE)

SHEET NUMBER

AQ-322



GENERAL SHEET NOTES

PERIMETER GUTTER PIPE MUST SLOPE AWAY FROM THE POOL AT A 2% SLOPE MINIMUM.

FLOOR DRAIN PIPE & STATIC PIPE MUST MAINTAIN CONSISTENT DOWNWARD SLOPE WITH THE POSSIBILITY OF A SINGLE LOW POINT, AND NO HIGH POINTS ALONG THE RUN, TO ELIMINATE THE POSSIBILITY OF AIR ENTRAPMENT AT ANY POINT IN THE PIPE.

ALL PIPING SHOWN ON THIS SHEET IS SCHEDULE 80 PVC UNLESS NOTED OTHERWISE OR WITHIN WRITTEN SPECIFICATIONS

SCHEDULE KEYNOTES

10.921	TRASH PUMP
10.C036	ACTIVITY POOL - FEATURE PUMP
10.C044	ACTIVITY POOL - FEATURE PUMP
10.C152	ACTIVITY POOL - FILTER PUMP
11.A312	ACTIVITY POOL - SST HAIR & LINT STRAINER - ECCENTRIC REDUCING
11.A316	ACTIVITY POOL & SPA - SST HAIR & LINT STRAINER - ECCENTRIC REDUCING
11.A336	ACTIVITY POOL - SST HAIR & LINT STRAINER - STRAIGHT
12.A230	REGENERATIVE MEDIA FILTER
14.059	COMPOUND PRESSURE GAUGE
14.093	TEMPERATURE GAUGE
14.A067	FLOW SENSOR
14.A123	2.5" FLOW METER
14.A134	HYDROSTATIC WATER LEVEL SENSOR
14.A136	TEMPERATURE SENSOR
15.029	EROSION CHLORINATOR
15.085	UV SANITIZER
15.A107	CHEMICAL FEEDER PUMP
15.A297	UV SANITIZER 24IV
15.A332	DCM 513 - 5 SERIES CONTROLLER
15.A395	PERISTALTIC DOSING PUMP
20.022	1.5" FLANGED GLOBE VALVE
20.023	2" FLANGED GLOBE VALVE
20.024	2.5" FLANGED GLOBE VALVE
20.038	2" WAFER STYLE DUAL DISC CHECK VALVE
20.039	2.5" WAFER STYLE DUAL DISC CHECK VALVE
20.041	4" WAFER STYLE DUAL DISC CHECK VALVE
20.043	6" WAFER STYLE DUAL DISC CHECK VALVE
20.044	8" WAFER STYLE DUAL DISC CHECK VALVE
20.047	0.5" BALL VALVE
20.049	1" BALL VALVE
20.058	0.5" BALL CHECK VALVE
20.062	1.5" BALL CHECK VALVE
20.089	4" BUTTERFLY VALVE - REMOTE EXTENSION OPERATED - 1-6 FT
20.091	8" BUTTERFLY VALVE - REMOTE EXTENSION OPERATED - 1-6 FT
20.093	12" BUTTERFLY VALVE - REMOTE EXTENSION OPERATED - 1-6 FT
20.145	12" PVC DIVERSION VALVE - INLINE
20.171	0.375" BALL VALVE
20.E162	0.375" BALL CHECK VALVE
20.E164	1" STAINLESS SOLENOID VALVE, 24VDC
20.E282	2.5" LEVER OPERATED WAFER STYLE BUTTERFLY VALVE
20.E283	3" LEVER OPERATED WAFER STYLE BUTTERFLY VALVE
20.E284	4" LEVER OPERATED WAFER STYLE BUTTERFLY VALVE
20.E286	6" LEVER OPERATED WAFER STYLE BUTTERFLY VALVE
20.E294	8" GEAR OPERATED WAFER STYLE BUTTERFLY VALVE

SHEET KEYNOTES

1	CUSTOM CONCRETE WATERPROOF TANK WITH WHITE COLORED BASE CRETE (TWO COATS)
2	VENDOR SUPPLIED BALL VALVE
3	VENDOR SUPPLIED BALL CHECK VALVE
4	VENDOR SUPPLIED PNEUMATIC ACTUATED VALVE
5	WATER LEVEL SENSOR MONITORING BASIN WL AND LOCATED WITHIN 2.5" STAND-PIPE IN TANK
6	WATER LEVEL SENSOR MONITORING BASIN WL AND LOCATED WITHIN 2.5" STAND-PIPE IN TANK
7	AUTO-DRAIN SOLENOID VALVE TO BE CONTROLLED BY HYDROSTATIC WATER LEVEL SENSOR LOCATED IN THE TANK - WHEN WATER LEVEL BECOMES TOO HIGH, SOLENOID VALVE OPENS FOR WATER TO PASS TO WASTE
8	REDUCER TO LOCATED WITHIN 12" OF PUMP OUTLET
9	REDUCER TO LOCATED WITHIN 12" OF PUMP OUTLET
10	DOUBLE FLANGE PIPE BREAK AT THIS LOCATION
11	SHARED NEX GENERATOR
12	SHARED CHEMICAL DILUTION SAFE TANK - MURIATIC ACID
13	DOUBLE FLANGE TRANSITION BETWEEN PVC PIPE AND SST MANIFOLD
14	2.5" SST MANIFOLD
15	4" SST MANIFOLD

PIPE LEGEND

- PVC PIPE
- CPVC PIPE
- POLYETHYLENE TUBING ENCASED IN SLEEVE
- —SST—SST— SST PIPE

PIPING DIAGRAM SYMBOLS LEGEND

- AIR GAP
- EZ FLOW L/V STRAINER
- HOSE BIBB W/ VACUUM BREAK
- VIEW GLASS
- WYE FITTING
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- SADDLE CLAMP
- RUBBER EXPANSION JOINT
- DOUBLE FLANGE

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

no.	DATE	DESCRIPTION
	2025-12-19	ISSUE FOR 90% DESIGN DEVELOPMENT
	2026-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
	2026-04-17	ADDENDUM #1

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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

ACTIVITY POOL
PIPING DIAGRAM

SHEET NUMBER

AQ-330

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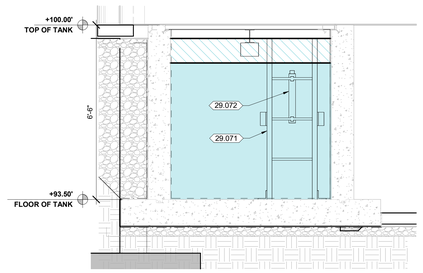
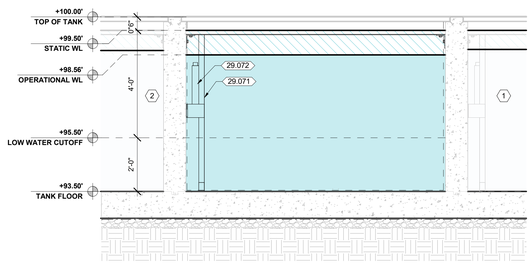


3 ACTIVITY POOL COLLECTOR TANK SECTION
1/2" = 1'-0"



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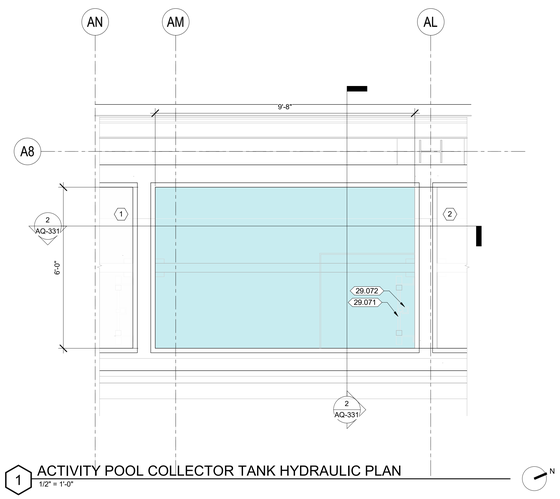

1 ACTIVITY POOL COLLECTOR TANK HYDRAULIC PLAN
1/2" = 1'-0"

N

GENERAL SHEET NOTES

SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION

LINK SEALS WITH SST, GRADE 316, HARDWARE REQUIRED FOR ALL PIPES PENETRATIONS THROUGH TANK WALL

PROVIDE 316 STAINLESS STEEL HARDWARE AND SUPPORTS WITHIN TANK FOR SECUREMENT OF PIPES, VALVES, AND HANDLES EXTENSIONS

REFER TO AQ-332 FOR TANK STRUCTURAL REQUIREMENTS

ADDITIONAL REINFORCING REQUIRED AT ALL PENETRATIONS 8" & LARGER

PROVIDE MINIMUM 2" CONCRETE COVER ON ALL REINFORCING AT PENETRATIONS

SCHEDULE KEYNOTES

29.071 AMERIRAIL FRP LADDER
29.072 LADDER UP - SAFETY POST

SHEET KEYNOTES

1 LAP POOL COLLECTOR TANK
2 SPA COLLECTOR TANK

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

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CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

ACTIVITY POOL
TANK (HYDRAULIC)

SHEET NUMBER

AQ-331

FILE PATH: Autodesk Docs://City of West Memphis Recreation Center/RAE_MASTERfile_AQUATICS.rvt
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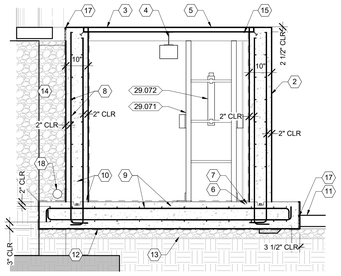

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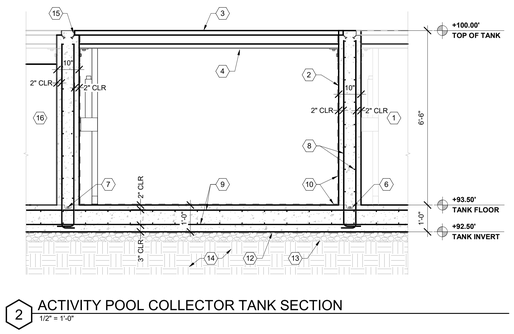

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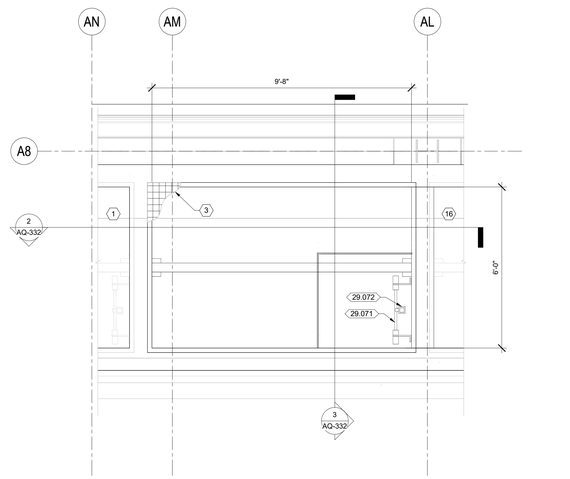

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GENERAL SHEET NOTES

SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION

SCHEDULE KEYNOTES

29.071 AMERIRAIL FRP LADDER
29.072 LADDER UP - SAFETY POST

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1 LAP POOL COLLECTOR TANK
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3 2" x 2" FRP GRATE COVER LOCKED IN PLACE WITH 316 STAINLESS STEEL HARDWARE. GRATING SHALL SUPPORT 100 PSF LIVE LOAD AT MAXIMUM 1/4" DEFLECTION (CONTRACTOR TO PROVIDE SHOP DRAWINGS TO THIS ENGINEER)
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10 COAT ALL TANK INTERIOR SURFACES W/ (2) COATS OF XYPEX CONCENTRATE - COLOR: WHITE
11 MECH FLOOR STRUCTURAL SLAB - REFER TO PROJECT STRUCTURAL ENGINEER
12 VAPOR BARRIER
13 CRUSHED ROCKSTONE
14 WELL-COMPACTED EARTH/SOIL (REFER TO GEOTECHNICAL REPORT)
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16 SPA COLLECTOR TANK
17 ISOLATION JOINT
18 IPEFORATED PIPE BEHIND TANK WALLS

SEAL

CLIENT

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West Memphis, AR 72301

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ARCHITECT

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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE
ACTIVITY POOL TANK (STRUCTURE)

SHEET NUMBER
AQ-332

FILE PATH: ...\united Docs\City of West Memphis Recreation Center\RME_MASTER\MEP_AQUATICS.rvt
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ELECTRICAL SYMBOLS LEGEND

A	AIR COMPRESSOR		INTERLOCK
A/V	AUDIO/VISUAL ALARM	LS	LEVEL SENSOR
	CIRCUIT BREAKER		LIGHT
	DISCONNECT SWITCH		MOTOR STARTER WITH DISCONNECT SWITCH
EC	EMERGENCY CUT-OFF SWITCH	PEC	PHOTOCELL
	FLOW - CONTROL		PUMP
	FLOW - POWER	R	SHUNT-TRIP RELAY
FC	FLOW CELL		TRANSFORMER LOW-VOLTAGE
FS	FLOW SENSOR	AO	VALVE - AIR OPERATED
	GROUND	S	VALVE - SOLENOID
GFCI	GFCI RECEPTACLE	EO	VALVE - ELECTRICALLY OPERATED

XXX-#,#,#
- HOMERUN CIRCUIT
- HOMERUN PANEL

ELECTRICAL GENERAL NOTES AND REQUIREMENTS

1. COMPLIANCE WITH CODES, DRAWINGS, AND TECHNICAL SPECIFICATIONS:
   - A. THE WORK SHALL COMPLY WITH THE LATEST APPLICABLE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC), LOCAL/STATE BUILDING CODE (LSBC), OSHA REQUIREMENTS, AND ALL OTHER LOCAL CODES AND ORDINANCES GOVERNING THIS INSTALLATION, AS A MINIMUM STANDARD.
   - B. ALL WORK SHALL COMPLY WITH THE TECHNICAL SPECIFICATIONS PROVIDED WITH THIS PROJECT AND THE CONTRACT DOCUMENTS.
   - C. THESE GENERAL NOTES AND REQUIREMENTS APPLY TO ALL POOLS, FOUNTAINS, BASINS AND AQUATICS WITHIN MARTIN AQUATIC'S DOCUMENTS & DRAWINGS.
   - D. ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE LISTED, LABELED OR CERTIFIED BY UNDERWRITER'S LABORATORIES, INC. (UL). WHERE SUCH STANDARDS HAVE BEEN ISSUED, EQUIPMENT AND DEVICES WHICH ARE NOT COVERED BY UL STANDARDS SHALL BE ACCEPTED PROVIDED EQUIPMENT AND DEVICE IS LISTED, LABELED, CERTIFIED OR OTHERWISE DETERMINED TO MEET SAFETY REQUIREMENTS OF A NATIONALLY RECOGNIZED TESTING LABORATORY AND HAS BEEN APPROVED BY APPLICABLE AUTHORITY HAVING JURISDICTION(S) (AHJ).
     1. UL LISTINGS FOR AQUATIC ELECTRICAL EQUIPMENT INCLUDE BUT ARE NOT LIMITED TO:

        SWIMMING POOL AND SPA TRANSFORMERS - UL SUBJECT 379
        LUMINAIRES AND FORMING SHELLS - UL 676
        PUMPS - UL 1081
        JUNCTION BOXES - UL 1241
        CONTROLS - UL 1563
        SWIMMING POOL AND SPA EQUIPMENT, WATER TREATMENT EQUIPMENT, MISCELLANEOUS - UL 1563/UL 1081

2. PROVIDED WORK INCLUDES:
   - A. THE PROVIDED WORK CONSISTS OF ALL SUPERVISION, LABOR, MATERIALS, EQUIPMENT, FACILITIES, AND INSTALLATION REQUIRED FOR THE COMPLETE, REQUIRED ELECTRICAL SYSTEM (SUBJECT TO THE APPROVAL OF THIS ENGINEER), AS INDICATED ON THE DRAWINGS, AND AS SPECIFIED IN THESE GENERAL NOTES AND THE TECHNICAL SPECIFICATIONS, OR MAY BE REASONABLY IMPLIED BY EITHER.
   - B. THE ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST-CLASS WORK MANNER. THE CONTRACTOR SHALL TOUCH-UP, REFINISH THE FACTORY FINISH OF EQUIPMENT MARRED DURING SHIPMENT, OR REPLACE AS DEEMED NECESSARY BY THIS ENGINEER.
   - C. THE PROJECT'S ELECTRICAL ENGINEER TO PROVIDE ALL TRANSFORMERS AND SUPPLY CONDUCTORS TO THE AQUATIC SUB-PANELS AS NEEDED.

3. CONSTRUCTION & INSTALLATION COORDINATION:
   - A. THIS CONSTRUCTION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND THE TECHNICAL SPECIFICATIONS.
   - B. IF A DISCREPANCY IS ENCOUNTERED WHILE IN THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THIS ENGINEER IMMEDIATELY AFTER DISCOVERY OF THE CONTRADICTION OR DISCREPANCY AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL THIS ENGINEER HAS DIRECTED THE CORRECTIVE ACTION.
   - C. REFER TO PROJECT'S SITE ELECTRICAL ENGINEER FOR THE POWER WIRING AND SOURCE OF SUPPLY TO EACH AQUATIC ELECTRICAL SUB PANEL.
   - D. DESIGN EXCEPTIONS (TO BE PROVIDED BY PROJECT'S SITE ELECTRICAL ENGINEER) UTILITY POLE / TRANSFORMER, SERVICE EQUIPMENT, UTILITY METER, AND FEEDER CIRCUIT TO THE AQUATIC ELECTRICAL SUB PANELS.

4. DOCUMENTS UNDERSTANDING & SITE FAMILIARIZATION:
   - A. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS OF OTHER DISCIPLINES AND RELATED TRADES IN ADDITION TO THESE ELECTRICAL GENERAL NOTES, PROJECT REQUIREMENTS, AND THE TECHNICAL SPECIFICATIONS.
   - B. ALL SUCH DOCUMENTS & INFORMATION SHALL BE CONSIDERED PART OF THE ELECTRICAL CONTRACTOR DOCUMENTS. COORDINATION OF PROPOSED LOCATIONS AND REQUIREMENTS OF ALL ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE COMPLETED & UNDERSTOOD.
   - C. IF CONFLICTING DRAWINGS ARE DISCERNED OR FOUND, THE ARCHITECTURAL & CIVIL DRAWINGS SHALL TAKE PRECEDENCE OVER THE ELECTRICAL DRAWINGS REGARDING THE BUILDING COMPONENTS, SITE CONSTRUCTION, AND DIMENSIONS; HOWEVER, THE CLEARANCE DIMENSIONS, CONDUIT AND JUNCTION BOX SIZING AS NOTED BY THIS ENGINEER SHALL PREVAIL TO ASSURE CODE COMPLIANCE.
   - D. WHILE THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC, THEY ARE TO BE OBSERVED AS CLOSELY AS THE ACTUAL CONSTRUCTION OF THE BUILDING. THIS ENGINEER'S PRIOR WRITTEN-APPROVAL OF ALL CONTRACTORS' SHOP DRAWINGS AND SUBMITTALS ARE MANDATORY BEFORE DIMENSIONAL AND RELOCATION OF EQUIPMENT ARE ATTEMPTED.
   - E. ON EXISTING PROJECTS, THE CONTRACTOR SHALL VISIT THE SITE AND DETERMINE THE EXTENT OF ALTERATIONS & REVISIONS TO EXISTING EQUIPMENT AND WIRING TO ACCOMMODATE CHANGES AND ADDITIONS. ALL THE NECESSARY REROUTING AND REMOVAL OF EXISTING EQUIPMENT, WIRING, ETC., MUST BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK.
   - F. CONTRACTOR'S SCOPE MUST INCLUDE THE REMOVING FROM THE SITE ALL EXISTING EQUIPMENT AND MATERIALS THAT WILL NOT BE REUSED IN CONSTRUCTION INCLUDING PIPES, CONDUITS, WIRES, TELEPHONE LINES, COMPUTER CABLE OR WIRING THAT PASSED THROUGH THE SITE OF THE CONSTRUCTION AND RELOCATE THOSE THAT SERVE REMAINING SYSTEMS, UNLESS STATED MATERIALS ARE REQUESTED TO BE LEFT BEHIND.
   - G. CONTRACTOR MUST ONLY SUBMIT THEIR BID AFTER ALL DOCUMENTS ARE REVIEWED AND UNDERSTOOD.

5. COORDINATION WITH TRADES & UTILITIES:
   - A. COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING COMPONENTS, CONDUIT, DEVICES, RELATED EQUIPMENT, AND SLEEVES WITH OTHER DISCIPLINES' COMPONENTS, AS THEY ARE CONSTRUCTED, IMPLEMENTED, AND INSTALLED.
   - B. ALL SLAB AND FIREWALL PENETRATIONS MUST BE FIRE-RATED AND CONFORM TO ALL CODES.
   - C. THE ARCHITECT'S & THIS ENGINEER'S PRIOR WRITTEN APPROVAL IS MANDATORY AS IT PERTAINS TO ACCEPTABILITY, CODES, CONSTRUCTION DETAILS, AND EQUIPMENT LOCATION.
   - D. CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES FOR SERVICE REQUIREMENTS AND REFER TO SERVICE STANDARDS AS DOCUMENTED AND REQUIRED BY EACH UTILITY COMPANY AS IT RELATES TO CODE COMPLIANCE AND WORK SCOPE.
   - E. ALL SERVICE INTERRUPTIONS MUST BE PRE-SCHEDULED WITH THE ARCHITECT, THIS ENGINEER, AND THE OWNER.
   - F. ALL DEMOLITION, DISPOSAL, AND REMOVAL ACTIVITIES & WORK SHALL BE FIRST COORDINATED WITH THIS ENGINEER AND THE OWNER.

6. MATERIALS:
   - A. THE MATERIALS AND EQUIPMENT FURNISHED/PROVIDED MUST BE AS INDICATED ON THE DRAWINGS.

7. SUBSTITUTIONS:
   - A. SUBSTITUTIONS MUST NOT BE MADE EXCEPT WHEN EXPRESSLY PRE-APPROVED IN WRITING BY THIS ENGINEER OR THE ARCHITECT BEFORE STARTING INSTALLATION OF THE COMPONENTS AND ITEMS.
   - B. THE ELECTRICAL MATERIALS AND EQUIPMENT FURNISHED/PROVIDED SHALL BE LISTED AND LABELED BY UNDERWRITERS LABORATORIES OR OTHER PRE-APPROVED TESTING AGENCIES.
     1. ALL ALTERNATE LISTINGS ARE SUBJECT TO THE PRIOR APPROVAL FROM THE APPLICABLE GOVERNMENTAL AGENCY.

8. GROUNDING AND BONDING:
   - A. GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH ARTICLE 250, NEC.
   - B. EQUIPOTENTIAL BONDING AT POOLS, FOUNTAINS, AND ALL AQUATIC BASINS SHALL COMPLY WITH ARTICLE 680, NEC.
   - C. THE CONTRACTOR MUST PROVIDE GROUNDING WIRES IN ALL CONDUITS UNLESS OTHERWISE NOTED OR PRE-APPROVED BY THIS ENGINEER.
   - D. ALL GROUNDING FROM AQUATIC DISTRIBUTION PANELS TO MAIN GROUND BUS MUST BE PROVIDED BY PROJECT ELECTRICAL ENGINEER.
   - E. EACH UNDERWATER LIGHT NICHE MUST BE UL & NEC COMPLIANT FOR BONDING & GROUNDING CONNECTIONS.
   - F. THE CONTRACTOR MUST CERTIFY THE BONDING & GROUNDING COMPLETION - REFER TO THE TECHNICAL SPECIFICATIONS.
   - G. IN JURISDICTIONS THAT HAVE ADOPTED THE 2023 NATIONAL ELECTRICAL CODE, THE CONTRACTOR SHALL INSTALL A BONDING GRID IN ACCORDANCE WITH NEC 680.26(B)(2). VISIT https://www.nfpa.org/education-and-research/electrical/nec-enforcement-maps TO VIEW THE LATEST NEC ENFORCEMENT MAP.

9. CONDUITS:
   - A. ALL CONDUIT INSTALLATIONS SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NEC) AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION (AHJ).
   - B. ALL ABOVE CEILING CONDUITS SHALL BE ROUTED TIGHT AGAINST THE STRUCTURE AND SHALL BE PARALLEL OR PERPENDICULAR TO THE BUILDING BEAMS, COLUMNS, & FEATURES.
   - C. THE CONTRACTOR MUST NOT INSTALL CONDUITS UNLESS THOSE LOCATIONS ARE FULLY COORDINATED WITH ALL TRADES AND THIS ENGINEER. NO NEW CONDUITS SHALL BE SUPPORTED BY EXISTING CONDUITS, CEILING SYSTEMS, OR AIR DUCTING, AND RELATED SIMILAR BUILDING COMPONENTS.
   - D. ALL EXPOSED CONDUITS SHALL BE RUN AS NEAT AND INCONSPICUOUS AS POSSIBLE AND PAINTED TO MATCH THE COLOR OF SURROUNDINGS MATERIALS.
   - E. ALL EMPTY CONDUITS MUST HAVE A PULLSTRING, BOTH ENDS CAPPED, LABELED WITH DESCRIPTION OF INTENDED FUTURE USE, AND BE STUBBED AND SECURED 6-INCHES OUT FROM WALLS/ CEILING/ FLOORS, UNLESS INDICATED OR PRE-APPROVED IN WRITING.
   - F. FLEXIBLE CONDUITS MUST BE USED FOR CONNECTION TO ALL VIBRATING EQUIPMENT SUCH AS MOTORS, LIGHTING FIXTURES, ETC. FLEXIBLE CONDUIT SHALL HAVE ALUMINUM ARMOR & INTERNAL GROUND STRAP IN ADDITION TO THE REQUIRED EQUIPMENT GROUND. USE "LIQUID TIGHT" WHEN EXPOSED TO WEATHER.
   - G. ALL CONDUITS SERVING UNDERWATER LIGHT NICHES MUST BE INSTALLED TO BE IN COMPLIANCE WITH THE NEC SEC. 680.23.
   - H. ALL CONDUITS SERVING UNDERWATER LIGHT NICHES MUST BE INSTALLED TO BE WATERTIGHT AND MUST SLOPE TO A PULL BOX OR JUNCTION BOX ABOVE THE DESIGN WATER LINE. IF IN A FREEZING CLIMATE, ALL CONDUITS MUST BE BELOW THE FROST LINE OR PROVIDED WITH A MEANS OF WINTERIZATION.

10. CONDUCTORS:
    - A. OTHER THAN BONDING CONDUCTORS, CONDUCTORS SIZED #8 AND LARGER SHALL BE TYPE THWN STRANDED, COPPER, CONDUCTORS SIZE #10 AND SMALLER SHALL BE COPPER, TYPE THHN SOLID (FOR DRY LOCATIONS) OR TYPE THWN (FOR WET & UNDERGROUND LOCATIONS), UNLESS NOTED OTHERWISE. CONDUCTORS SHALL CONSIST OF 98% CONDUCTIVITY COPPER AS INDICATED. ALL CONDUCTOR SIZES ARE AWG. ALL CONDUCTORS SHALL BE PLACED & PROVIDED WITHIN CONDUITS UNLESS NOTED OTHERWISE.
    - B. CONDUCTORS FOR POWER, LIGHT, AND GROUNDING MUST NOT BE SMALLER THAN #12 AWG, EXCEPT WHERE OTHERWISE INDICATED. CONDUCTORS SHALL BE CONTINUOUS FROM DEVICES WITHOUT SPLICES EXCEPT WITHIN WIREWAY OR JUNCTION BOXES. MARK CONDUCTORS IN PANEL PULL BOXES OR WIREWAYS, AND TERMINAL CONDUCTORS SHALL BE JOINED USING COMPRESSION SPLICE CONNECTORS SUCH AS WAGO #222 OR #773 OR SIMILAR. THE USE OF STANDARD WIRE TWIST CONNECTORS ARE PROHIBITED. CONDUCTORS SHALL BE TERMINATED USING COMPRESSION SPLICES AND USING 3M #33+ OR #88 PLASTIC TAPE. SPLICES IN WET LOCATIONS SHALL BE INSULATED WITH ELECTRICAL COMPRESSION SPLICE CONNECTORS WHEN ENCAPSULATED WITH SCOTCH CAST #2136 POTTING KIT (OR EQUAL) POTTING COMPOUNDS.
    - C. LOW VOLTAGE CONDUCTOR RUNS WITHIN THE RETURN AIR PLENUM SHALL BE PLENUM RATED - SUBMIT A CUT-SHEET FOR REVIEW.
    - D. CONTRACTOR SHALL VERIFY LENGTH OF ALL CONDUCTOR RUNS AND INCREASE WIRE SIZE AS REQUIRED SUCH THAT VOLTAGE DROP DOES NOT EXCEED 3% FOR BRANCH CIRCUITS AND 2% FOR FEEDERS. ADVISE, SEEK, AND OBTAIN PRE-APPROVAL FROM THIS ENGINEER FOR ANY PROPOSED WIRE SIZE CHANGE.

11. RECEPTACLES:
    - A. RECEPTACLES SHALL BE GFCI 15/20A, 120VAC, 2 POLE, 3 WIRE SINGLE OR DUPLEX GROUND TYPE EXCEPT WHERE SPECIFIC PURPOSE, LOCKING OR HIGHER RATED RECEPTACLES ARE SHOWN ON THE DRAWINGS.

12. WALL SWITCHES:
    - A. WALL SWITCHES SHALL BE OF THE TOTALLY-ENCLOSED TUMBLER TYPE WITH BODIES OF PHENOLIC COMPOUND. HANDLES SHALL BE WHITE-COLORED. ALL RECEPTACLES BOXES/ENCLOSURES SHALL BE SUITABLE FOR THEIR LOCATION.

13. JUNCTION BOXES AND PULL BOXES:
    - A. PROVIDE AND INSTALL JUNCTION AND PULL BOXES WHERE INDICATED AND WHERE NECESSARY TO TERMINATE, TAP OFF, OR REDIRECT MULTIPLE CONDUIT RUNS, OF SIZE INDICATED OR AS REQUIRED BY NEC OR LOCAL CODE.
    - B. WHERE FEEDER SPLICES ARE TO BE MADE, INSTALL BOXES LARGE ENOUGH TO PROVIDE AMPLE WORKSPACE. THE CONTRACTOR SHALL SUBMIT FOR PRE-APPROVAL ALL DRAWINGS AND CUT SHEETS FOR JUNCTION BOXES, PULL & FEEDER BOXES.
    - C. ANY JUNCTION BOXES OR PULL BOXES THAT MIGHT ACCUMULATE WATER MUST BE CONNECTED TO THE CONTRACTOR'S WINTERIZATION SYSTEM TO HELP IN PREVENTING WINTER DAMAGE.
    - D. ANY UNDERWATER JUNCTION BOX THAT IS METAL SHALL BE EQUIPPED WITH A BOND LUG AND MUST BE BONDED TO THE BOND LOOP WITH A SOLID #8 AWG BARE COPPER CONDUCTOR.

14. LIGHTING FIXTURES:
    - A. LIGHTING FIXTURES SHALL BE AS INDICATED ON THE DRAWINGS AND SHALL BE INSTALLED COMPLETE WITH LAMP.

15. POWER AND CONTROL WIRING:
    - A. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY POWER AND CONTROL WIRING FOR ALL MECHANICAL EQUIPMENT.
    - B. CONDUCTORS FEEDING VARIABLE FREQUENCY DRIVES SHALL BE SIZED ACCORDING TO MANUFACTURER SPECIFICATIONS AND MAY BE LARGER THAN REQUIRED BY NEC.
    - C. IN JURISDICTIONS THAT HAVE ADOPTED THE 2023 NATIONAL ELECTRICAL CODE, ALL POOL MOTORS SHALL BE SUPPLIED WITH SPECIAL PURPOSE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION THAT IS CONFIGURED NOT TO EXCEED 20mA GROUND-FAULT TRIP CURRENT IN ACCORDANCE WITH 2023 NEC 680.21(C).

16. PANELS AND ENCLOSURES:
    - A. PANEL DIRECTORIES SHALL BE TYPED ACCURATELY TO SHOW AS-BUILT CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY BALANCING ALL BRANCH CIRCUITS BETWEEN THE PHASES OF THE SYSTEM REGARDLESS OF CIRCUITING INDICATED.
    - B. ELECTRICAL PANELS SHALL BE CONSTRUCTED WITH COPPER CONDUCTORS.
    - C. TESTS:
      1. AFTER EACH SYSTEM HAS BEEN COMPLETED, A FUNCTIONAL TEST SHALL BE PERFORMED TO DEMONSTRATE THAT THE SYSTEM OPERATES PER THE REQUIREMENTS OF THE DRAWINGS.
      2. THE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THIS ENGINEER, AND THEN THE OWNER OR HIS REPRESENTATIVE.

17. ACCEPTANCE, RECORD-SET DRAWINGS, AND WARRANTY:
    - A. ALL WORK SHALL BE GUARANTEED FREE FROM DEFECTS FOR TWO YEARS FROM DATE OF THE OWNER'S FINAL ACCEPTANCE.
    - B. BEFORE THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE ALL DEBRIS & MATERIALS, CLEAN THE PROJECT SITE/ROOM ENCLOSURES, & PROVIDE WRITTEN DOCUMENTATION OF THE FINAL ELECTRICAL INSPECTION, AND PROVIDE THE FOLLOWING:
      1. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS (AS-BUILTS) OF THE ACTUAL INSTALLATION AS WELL AS COMPLETE, OPERATION & MAINTENANCE, MANUALS TO THIS ENGINEER AND THE OWNER UPON PROJECT COMPLETION.

18. ELECTRICAL ROOMS:
    - A. ELECTRICAL ROOMS WHERE THE EQUIPMENT IS RATED 800 AMPS OR MORE SHOULD MEET THE APPLICABLE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NEC), STATE OR LOCAL CODES AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

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CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
1	2025-12-19	ISSUE FOR 90% DESIGN DEVELOPMENT
2	2026-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
3	2026-04-17	PERMISSION SET

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JOB INFO

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ST HWY 191/I-40 SERV, West Memphis, AR 72301

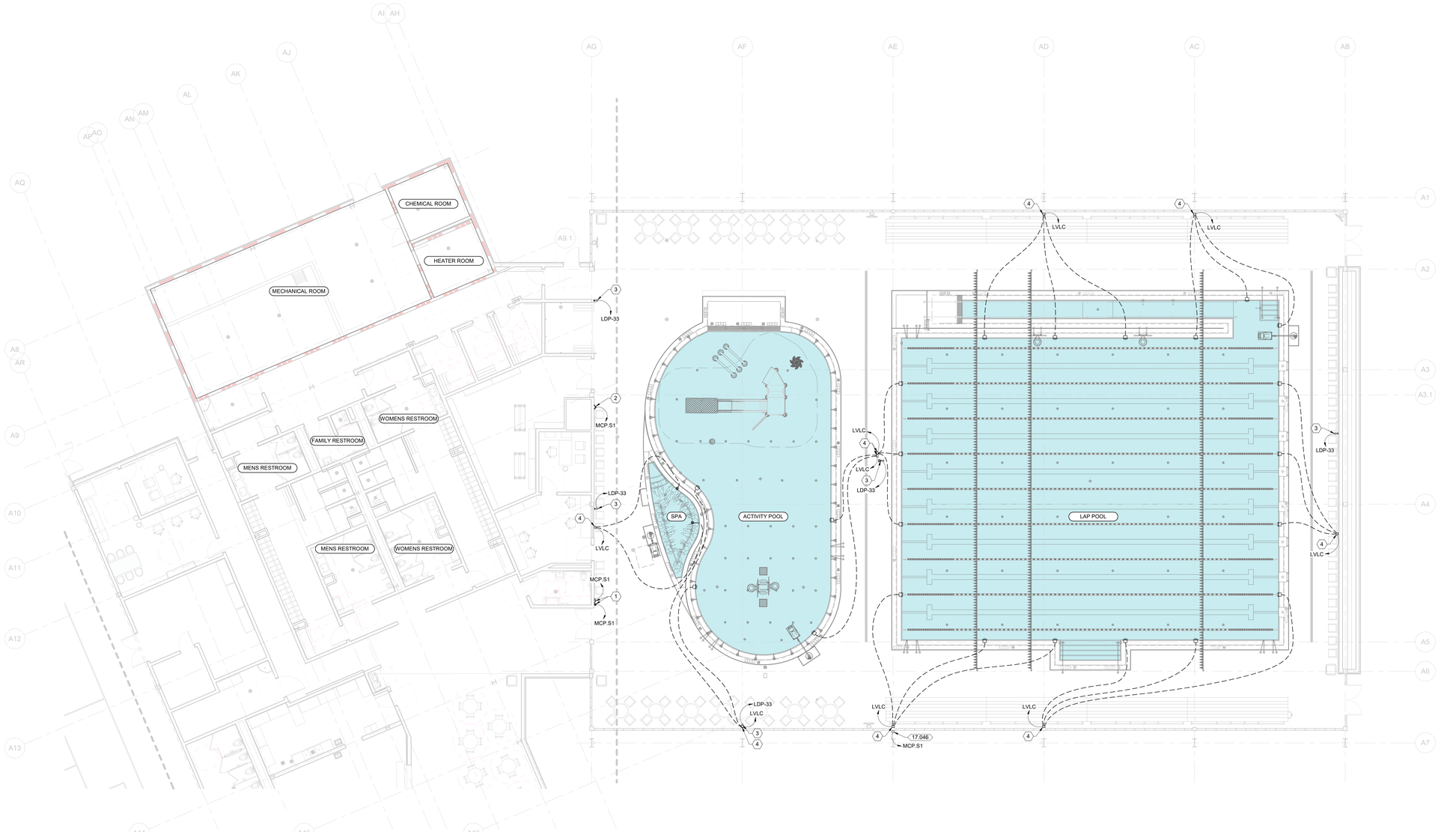
JOB No.: WESTCIT00561

SHEET TITLE

ELECTRICAL
GENERAL NOTES

SHEET NUMBER

AQ-400



1 SITE ELECTRICAL PLAN
1/8" = 1'-0"

GENERAL SHEET NOTES

ALL ELECTRICAL AND METALLIC COMPONENTS SHALL BE EQUIPPED WITH A UL-LISTED GROUND LUG AND BONDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND IN COMPLIANCE WITH THE NEC.

CONDUIT ROUTING FOR ILLUSTRATION PURPOSES ONLY. ROUTE ALL CONDUIT AFTER COORDINATION WITH OTHER CONTRACTORS.

PROVIDE PULL BOX FOR CABLE BETWEEN THE JUNCTION BOX AND THE CONTROL PANEL IN MECHANICAL & CHEMICAL AREAS IN COMPLIANCE WITH THE NEC.

POOL LIGHTS ARE PROVIDED WITH UL LISTED MANUFACTURER PROVIDED CABLES. CONTRACTOR TO ROUTE AND MOUNT CONDUITS AND POSITION DEVICES SUCH THAT CABLE RUN IS COMPLETE, WITH NO SPLICES, TO POWER SUPPLY OR JUNCTION BOX.

LINETYPE LEGEND

24 VDC WIRING, UNDERGROUND RIGID PVC CONDUIT, SCHEDULE 40

SCHEDULE KEYNOTES

17.046 PHOTOCELL CONTROL

SHEET KEYNOTES

1 SPA THERAPY CONTROLS
2 EMERGENCY CUT-OFF
3 GFCI RECEPTACLE
4 UNDERWATER LIGHT POWER SUPPLY

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
	2025-04-17	CD PROGRESS SET

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ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

SITE ELECTRICAL PLAN

SHEET NUMBER

AQ-401

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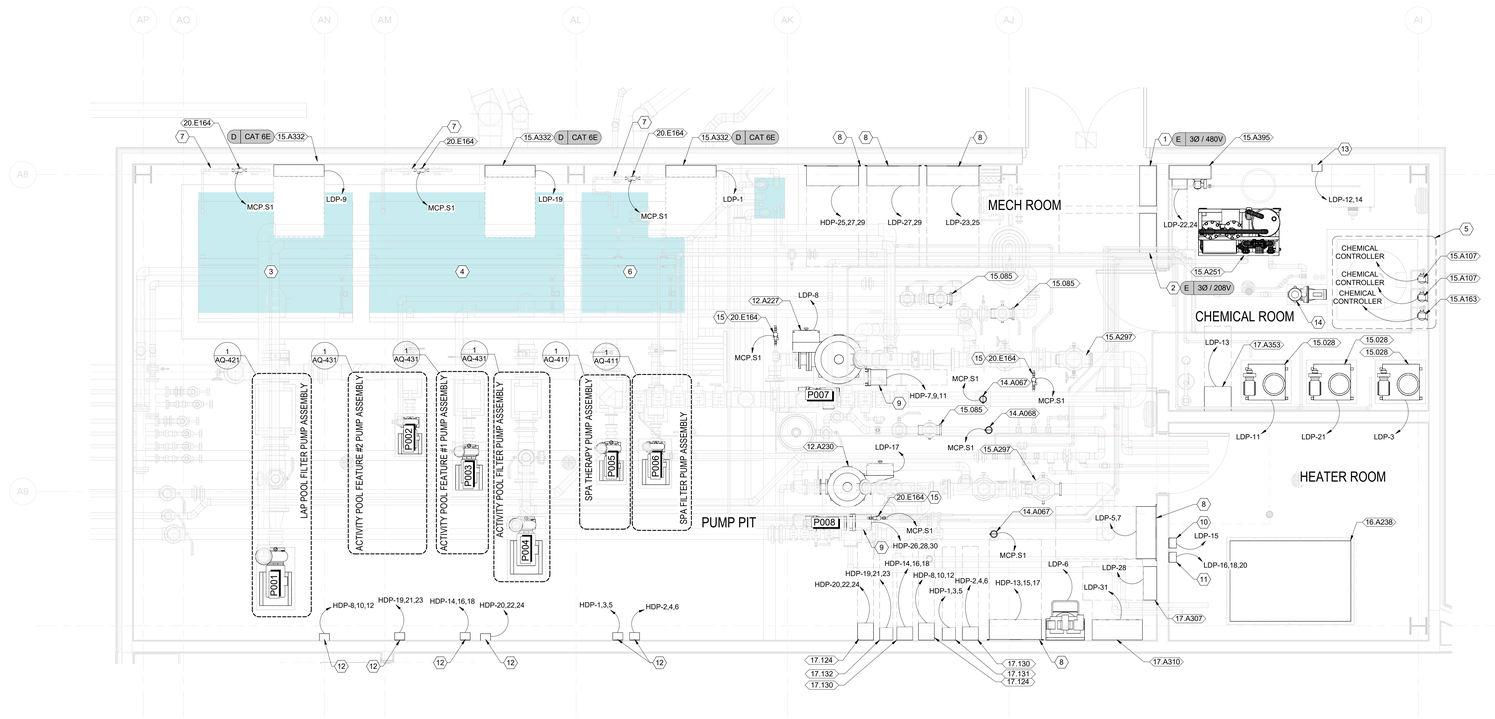

1 MECHANICAL ROOM - ELECTRICAL PLAN
3/8" = 1'-0"

N

GENERAL SHEET NOTES

ALL ELECTRICAL AND METALLIC COMPONENTS SHALL BE EQUIPPED WITH A UL-LISTED GROUND LUG AND BONDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND IN COMPLIANCE WITH THE NEC.

CONTRACTOR TO ROUTE ALL WIRES AND CONDUITS AFTER INVESTIGATION OF SITE AND COORDINATION WITH OTHER CONTRACTORS.

SLOPE THE FLOORS TO THE PROJECT MEP'S DESIGN OF THE FLOOR DRAINS.

PUMP IDENTIFICATION

ID	DESCRIPTION	HP	KEYNOTE
P001	Lap Pool Filter Pump	20.00 hp	10.C300
P002	Activity Pool Feature Pump #2	3.00 hp	10.C036
P003	Activity Pool Feature Pump #1	7.50 hp	10.C044
P004	Activity Pool Filter Pump	20.00 hp	10.C152
P005	Spa Therapy Pump	5.00 hp	10.C025
P006	Spa Filter Pump	7.50 hp	10.C220
P007	Lap Pool Trash Pump	5.00 hp	10.921
P008	Activity Pool Trash Pump	5.00 hp	10.921
P009	NexGen Booster Pump	0.80 hp	

SCHEDULE KEYNOTES

12.A227	REGENERATIVE MEDIA FILTER
12.A230	REGENERATIVE MEDIA FILTER
14.A067	FLOW SENSOR
14.A068	FLOW SENSOR
15.028	EROSION CHLORINATOR
15.085	UV SANITIZER
15.A107	CHEMICAL FEEDER PUMP
15.A163	CHEMICAL FEEDER PUMP
15.A251	ON-SITE CHLORINE GENERATOR
15.A297	UV SANITIZER 240V
15.A332	DCM 513 - 5 SERIES CONTROLLER
15.A395	PERISTALTIC DOSING PUMP
16.A238	CUSTOM DELTA HYDRONICS CENTRALIZED HEATING BOILER PACKAGE
17.124	20 HP VFD, 380-480V, FOR PUMPS, WITH MAINS DISCONNECT, IP55 ENCLOSURE
17.130	7.5 HP VFD, 380-480V, FOR PUMPS, WITH MAINS DISCONNECT, IP55 ENCLOSURE
17.131	5 HP VFD, 380-480V, FOR PUMPS, WITH MAINS DISCONNECT, IP55 ENCLOSURE
17.132	3 HP VFD, 380-480V, FOR PUMPS, WITH MAINS DISCONNECT, IP55 ENCLOSURE
17.A307	LOW VOLTAGE POOL LIGHTING CONTROL CABINET
17.A310	MAIN CONTROL PANEL - SERIES 1 (MCP.S1)
17.A353	NEXGEN MULTI POOL CONTROLLER
20.E164	1" STAINLESS SOLENOID VALVE, 24VDC

SHEET KEYNOTES

1	ELECTRICAL SUPPLY PANEL (HDP) – 3Φ 480/277V – NEMA 4X
2	ELECTRICAL SUPPLY PANEL (LDP) – 3Φ 208/120V – NEMA 4X
3	LAP POOL COLLECTOR TANK
4	ACTIVITY POOL COLLECTOR TANK
5	MURIATIC ACID DILUTION SAFE STORAGE TANK & FEEDER ASSEMBLY
6	SPA COLLECTOR TANK
7	AUTO-FILL SOLENOID VALVE TO BE PRESSURE TRANSDUCER IN 2.5" STAND-PIPE WITHIN WHEN WATER LEVEL GETS TOO LOW, SOLENOID VALVE OPENS TO ALLOW WATER TO PASS TO TANK
8	UV PANEL INCLUDES INTEGRAL DISCONNECT
9	MOTOR STARTER WITH DISCONNECT SERVING TRASH PUMP
10	NEMA 4X DISCONNECT SERVING INTEGRAL BOILER
11	NEMA 4X DISCONNECT SERVING INTEGRAL BOILER PUMP
12	NEMA 4X DISCONNECT
13	NEMA 4X DISCONNECT SERVING SALT CHLORINE GENERATOR
14	NEXGEN BOOSTER PUMP
15	AUTO-DRAIN SOLENOID VALVE TO BE PRESSURE TRANSDUCER IN 2.5" STAND-PIPE WITHIN WHEN WATER LEVEL GETS TOO HIGH, SOLENOID VALVE OPENS TO ALLOW WATER TO PASS TO WASTE

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West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
	2025-04-17	CD PROGRESS SET

ARCHITECT

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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

MECH ROOM 1
ELECTRICAL PLAN

SHEET NUMBER

AQ-402

GENERAL SHEET NOTES

ALL ELECTRICAL AND METALLIC COMPONENTS SHALL BE EQUIPPED WITH A UL-LISTED GROUND LUG AND BONDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND IN COMPLIANCE WITH THE NEC AND LOCAL CODES.

CONDUCTOR ROUTING FOR ILLUSTRATION PURPOSES ONLY. ROUTE ALL CONDUCTORS AFTER COORDINATION WITH OTHER CONTRACTORS.

SHEET KEYNOTES

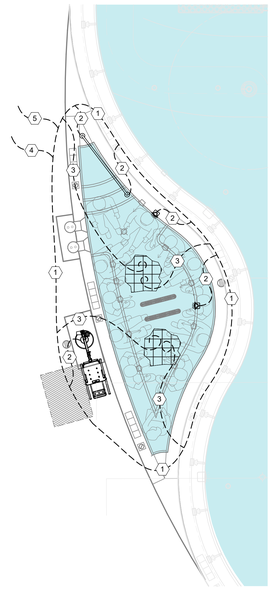
1 BONDING LOOP INSTALLED IN ACCORDANCE WITH NEC 680.26(B)(2) – ALL METAL PARTS MUST BE BONDED TOGETHER WITH A SOLID UNDERGROUND COPPER CONDUCTOR NOT SMALLER THAN #8 AWG WITH LISTED PRESSURE CONNECTORS, TERMINAL BARS, EXOTHERMIC WELDING, OR OTHER LISTED MEANS IN ACCORDANCE WITH NEC SECTION 250.8

2 BONDING JUMPER TO FEATURE EQUIPMENT

3 BONDING JUMPER FROM PERIMETER SURFACE TO STRUCTURAL STEEL, MINIMUM 4 REQUIRED, UNIFORMLY SPACED AROUND PERIMETER AS PER NEC 680.26(B)(2)

4 CONNECTION TO BONDING LOOP IN MECHANICAL SPACE – REFER TO THE MECHANICAL ROOM BONDING DETAIL FOR ADDITIONAL INFORMATION

5 BONDING JUMPER TO COLLECTOR TANK



1 SPA BONDING
1/4" = 1'-0"

N

SEAL

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ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

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ARCHITECT

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JOB No.: WESTCIT00561

SHEET TITLE

SPA BONDING

SHEET NUMBER

AQ-410

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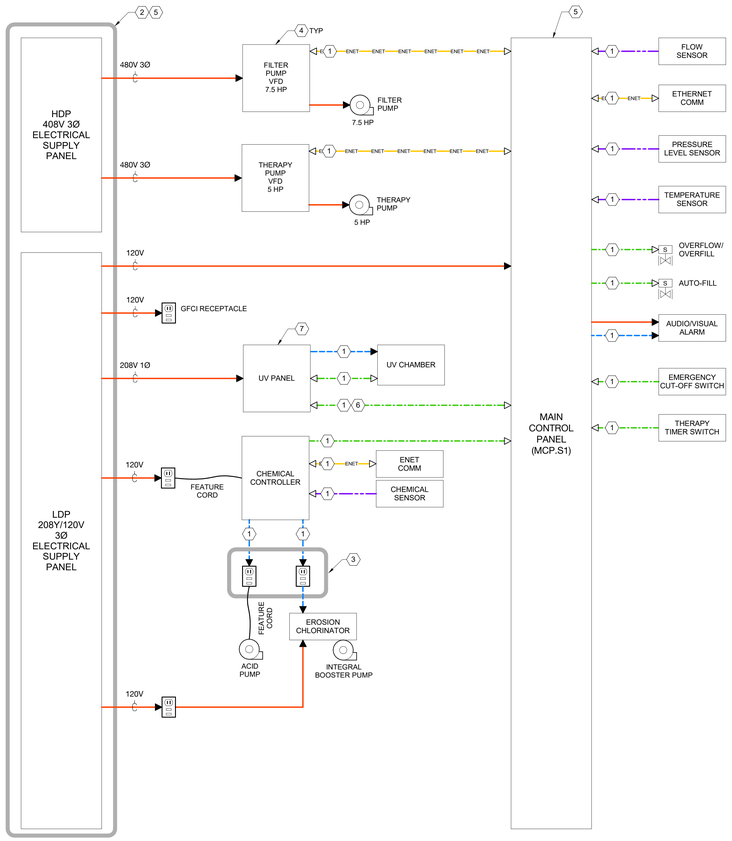

SHEET KEYNOTES

1 REFER TO MANUFACTURER MANUALS FOR POWER AND/OR CONTROL SIGNALS TO BE IMPLEMENTED
2 TRANSFORMER, FEEDER, & DISCONNECT PROVIDED BY SITE ELECTRICAL ENGINEER
3 INTERLOCKED WITH FILTER FLOW VIA CHEMICAL CONTROLLER'S INTEGRATED FLOW CELL
4 MOTOR CONTROLLER LINE SIDE DISCONNECT IS INTEGRAL TO VFD
5 SHARED
6 INTERLOCKED WITH FILTER PUMP
7 UV PANEL INCLUDES INTEGRAL DISCONNECT

LINETYPE LEGEND

- AC POWER
- AC CONTROL SIGNAL
- DC CONTROL SIGNAL
- ANALOG SIGNAL
- PNEUMATIC LINE
- ETHERNET
- DMX CONTROL

ELECTRICAL SYMBOLS LEGEND

- FLOW - CONTROL
- FLOW - ELECTRIC
- GFCI RECEPTACLE
- LIGHT
- PUMP
- VALVE - AIR OPERATED
- VALVE - ELECTRICALLY OPERATED
- VALVE - SOLENOID

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
1	2025-11-19	ISSUE FOR 95% DESIGN DEVELOPMENT
2	2026-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
3	2026-04-13	ADDENDUM NO. 01

ARCHITECT

PROJECT LUONG
HOUSTON
SAN ANTONIO
SANTA MONICA
TBAE REG. No. BR 4215
820 Gessner Rd., Suite 775, Houston, TX 77024 +1.346.708.9241
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CONSULTANT

MARTIN AQUATIC
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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

SPA FUNCTIONAL
BLOCK DIAGRAM

SHEET NUMBER

AQ-411

FILE PATH: ...\Luong Docs\City of West Memphis Recreation Center\RME_MASTER\RME_AQUATICS.rvt
DATE PRINTED: 4/17/2026 2:09:42 PM

GENERAL SHEET NOTES

ALL ELECTRICAL AND METALLIC COMPONENTS SHALL BE EQUIPPED WITH A UL-LISTED GROUND LUG AND BONDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND IN COMPLIANCE WITH THE NEC AND LOCAL CODES.

CONDUCTOR ROUTING FOR ILLUSTRATION PURPOSES ONLY. ROUTE ALL CONDUCTORS AFTER COORDINATION WITH OTHER CONTRACTORS.

SHEET KEYNOTES

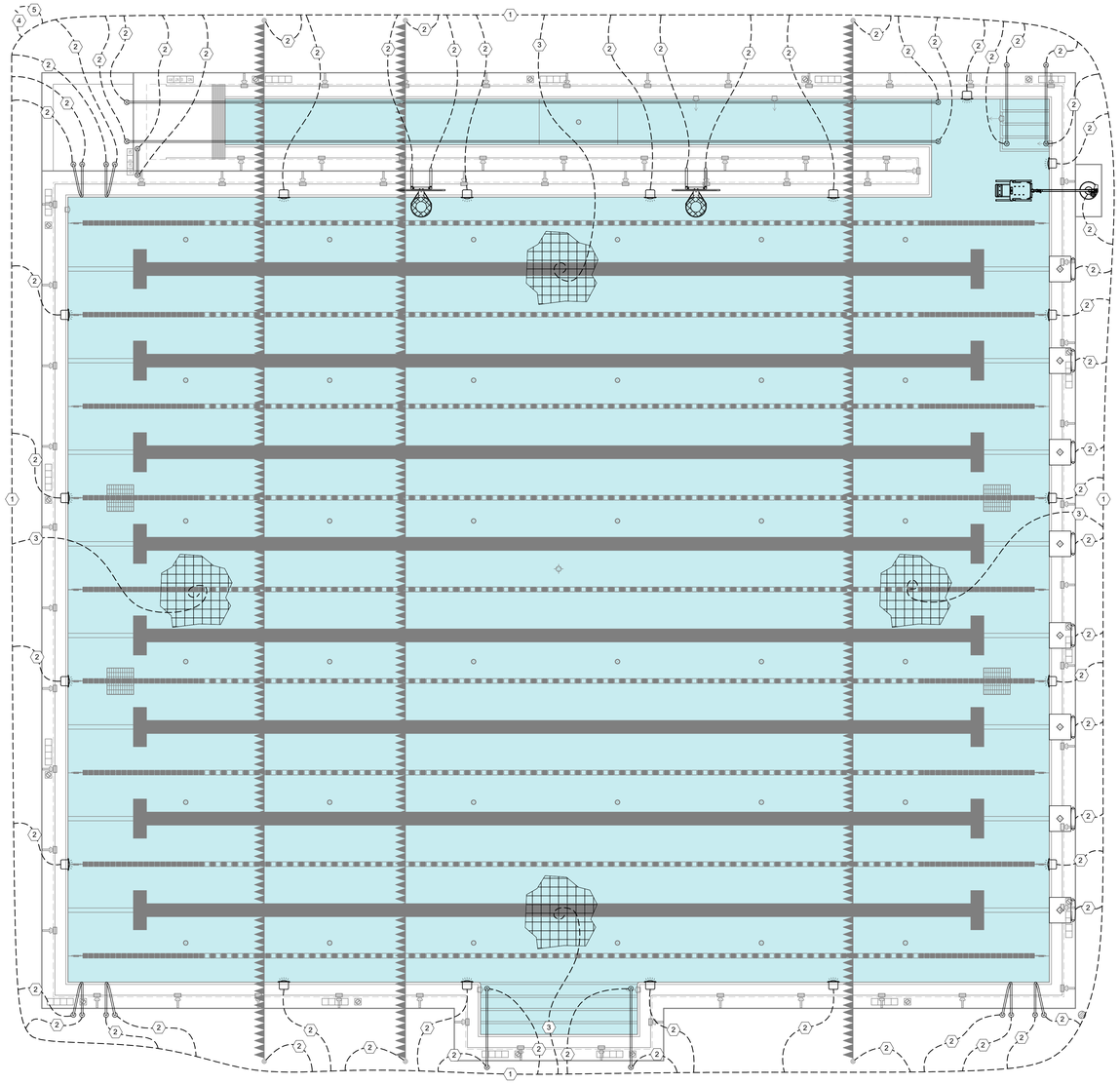
1 BONDING LOOP INSTALLED IN ACCORDANCE WITH NEC 680.26(B)(2) – ALL METAL PARTS MUST BE BONDED TOGETHER WITH A SOLID UNDERGROUND COPPER CONDUCTOR NOT SMALLER THAN #8 AWG WITH LISTED PRESSURE CONNECTORS, TERMINAL BARS, EXOTHERMIC WELDING, OR OTHER LISTED MEANS IN ACCORDANCE WITH NEC SECTION 250.8

2 BONDING JUMPER TO FEATURE EQUIPMENT

3 BONDING JUMPER FROM PERIMETER SURFACE TO STRUCTURAL STEEL, MINIMUM 4 REQUIRED, UNIFORMLY SPACED AROUND PERIMETER AS PER NEC 680.26(B)(2)

4 CONNECTION TO BONDING LOOP IN MECHANICAL SPACE – REFER TO THE MECHANICAL ROOM BONDING DETAIL FOR ADDITIONAL INFORMATION

5 BONDING JUMPER TO COLLECTOR TANK



1 LAP POOL - BONDING
1/4" = 1'-0"

N

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
1	2025.04.17	CD PROGRESS SET

ARCHITECT

PROJECT LUONG
HOUSTON 820 Gessner Rd., Suite 775, Houston, TX 77024 +1 346 708 8241
SAN ANTONIO 700 N. St. Mary's St., Suite 1400, San Antonio, TX 78205 +1 726 248 1378
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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

LAP POOL
BONDING

SHEET NUMBER

AQ-420

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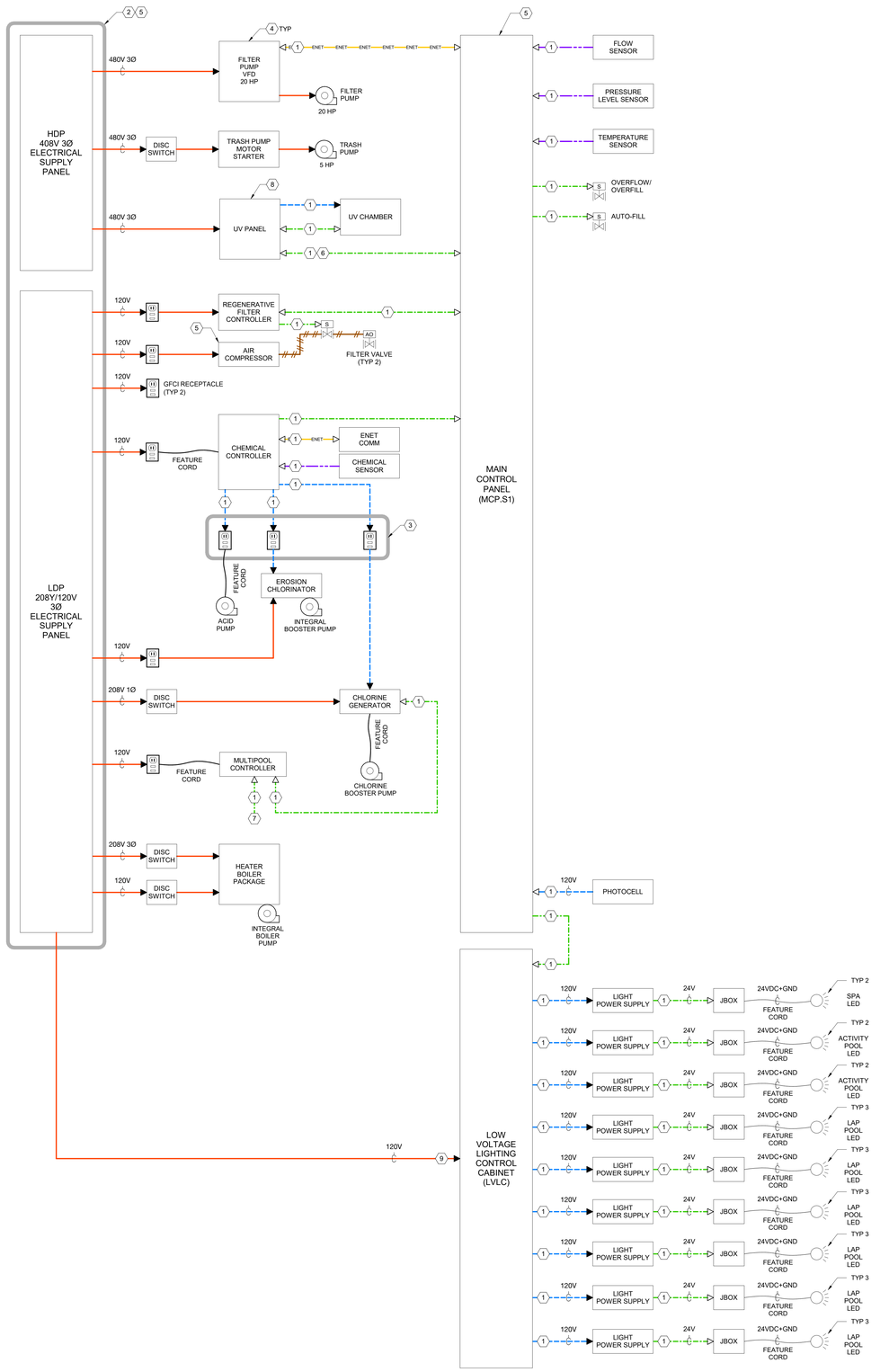

SHEET KEYNOTES

1 REFER TO MANUFACTURER MANUALS FOR POWER AND/OR CONTROL SIGNALS TO BE IMPLEMENTED
2 TRANSFORMER, FEEDER, & DISCONNECT PROVIDED BY SITE ELECTRICAL ENGINEER
3 INTERLOCKED WITH FILTER FLOW VIA CHEMICAL CONTROLLER'S INTEGRATED FLOW CELL
4 MOTOR CONTROLLER LINE SIDE DISCONNECT IS INTEGRAL TO VFD
5 SHARED
6 INTERLOCKED WITH FILTER PUMP
7 FROM PERISTALTIC PUMP DOSING SYSTEM ON SHEET AQ-431
8 UV PANEL INCLUDES INTEGRAL DISCONNECT
9 LIGHTING CONTROL CABINET INCLUDES INTEGRAL DISCONNECT

LINETYPE LEGEND

- AC POWER
- AC CONTROL SIGNAL
- DC CONTROL SIGNAL
- ANALOG SIGNAL
- PNEUMATIC LINE
- ETHERNET
- DMX CONTROL

ELECTRICAL SYMBOLS LEGEND

- FLOW - CONTROL
- FLOW - ELECTRIC
- GFCI RECEPTACLE
- LIGHT
- PUMP
- VALVE - AIR OPERATED
- VALVE - ELECTRICALLY OPERATED
- VALVE - SOLENOID

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DESCRIPTION
	2025-11-19 ISSUE FOR 95% DESIGN DEVELOPMENT
	2025-12-30 ISSUE FOR 100% DESIGN DEVELOPMENT
	2026-01-14 ADDENDUM #1

ARCHITECT

PROJECT LUONG
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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

LAP POOL
FUNCTIONAL
BLOCK DIAGRAM

SHEET NUMBER

AQ-421

FILE PATH: J:\active Docs (City of West Memphis Recreation Center)\RE_MATERIAL AQUATICS.rvt
DATE PRINTED: 4/17/2026 2:26:41 PM

GENERAL SHEET NOTES

ALL ELECTRICAL AND METALLIC COMPONENTS SHALL BE EQUIPPED WITH A UL-LISTED GROUND LUG AND BONDED IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND IN COMPLIANCE WITH THE NEC AND LOCAL CODES.

CONDUCTOR ROUTING FOR ILLUSTRATION PURPOSES ONLY. ROUTE ALL CONDUCTORS AFTER COORDINATION WITH OTHER CONTRACTORS.

SHEET KEYNOTES

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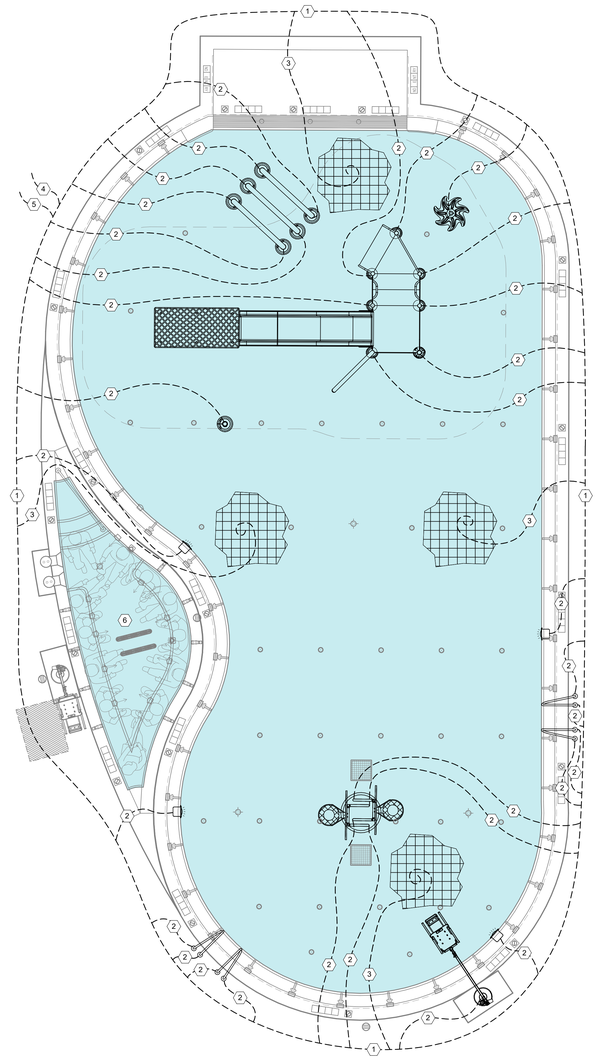
2 BONDING JUMPER TO FEATURE EQUIPMENT

3 BONDING JUMPER FROM PERIMETER SURFACE TO STRUCTURAL STEEL, MINIMUM 4 REQUIRED, UNIFORMLY SPACED AROUND PERIMETER AS PER NEC 680.26(B)(2)

4 CONNECTION TO BONDING LOOP IN MECHANICAL SPACE – REFER TO THE MECHANICAL ROOM BONDING DETAIL FOR ADDITIONAL INFORMATION

5 BONDING JUMPER TO COLLECTOR TANK

6 SEE SHEET AQ-410 FOR SPA BONDING CONNECTIONS



1 ACTIVITY POOL - BONDING
1/4" = 1'-0"

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

no.	DATE	DESCRIPTION
	2020-04-17	CD PROGRESS SET

ARCHITECT

PROJECT LUONG
HOUSTON
SAN ANTONIO
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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

ACTIVITY POOL BONDING

SHEET NUMBER

AQ-430

FILE PATH: Autodesk Docs://City of West Memphis Recreation Center/RAC_MASTERfile_AQUATICS.rvt
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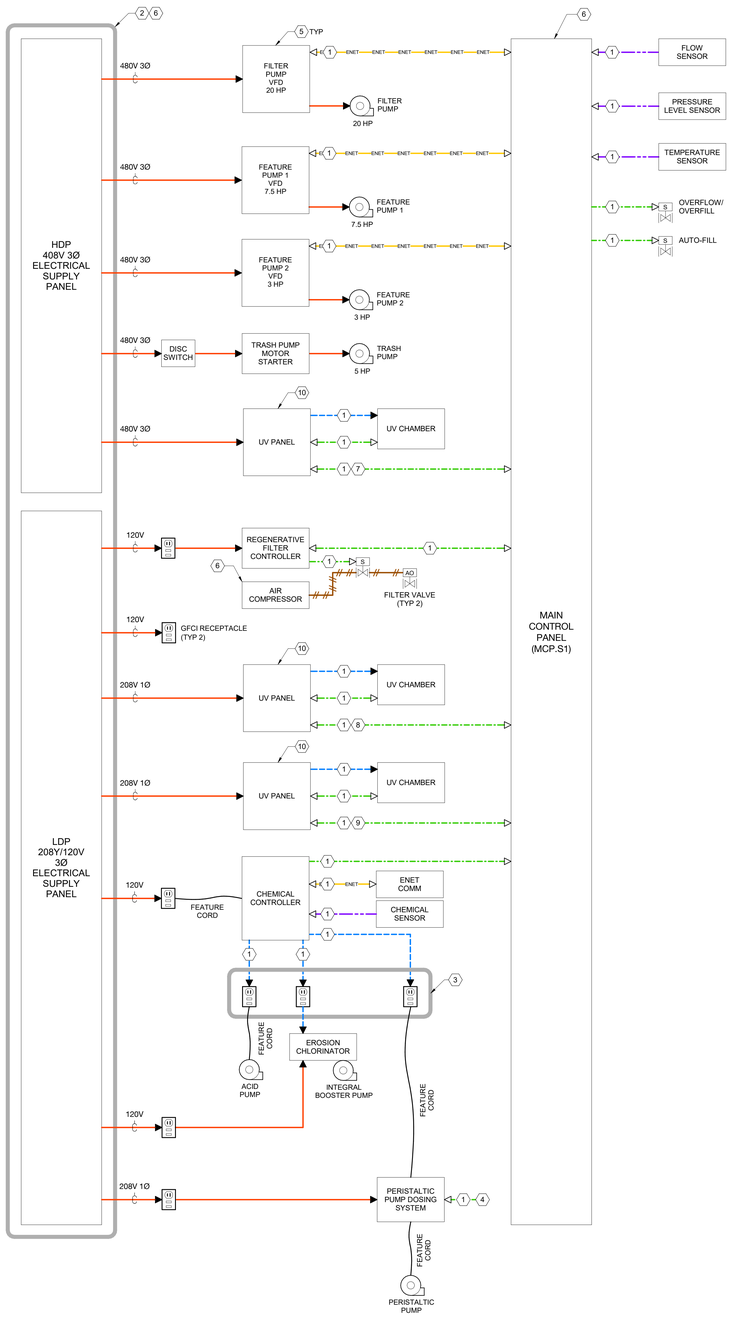

SHEET KEYNOTES

1 REFER TO MANUFACTURER MANUALS FOR POWER AND/OR CONTROL SIGNALS TO BE IMPLEMENTED
2 TRANSFORMER, FEEDER, & DISCONNECT PROVIDED BY SITE ELECTRICAL ENGINEER
3 INTERLOCKED WITH FILTER FLOW VIA CHEMICAL CONTROLLER'S INTEGRATED FLOW CELL
4 FROM MULTIPOOL CONTROLLER ON SHEET AQ-412
5 MOTOR CONTROLLER LINE SIDE DISCONNECT IS INTEGRAL TO VFD
6 SHARED
7 INTERLOCKED WITH FILTER PUMP
8 INTERLOCKED WITH FEATURE PUMP 1
9 INTERLOCKED WITH FEATURE PUMP 2
10 UV PANEL INCLUDES INTEGRAL DISCONNECT

LINETYPE LEGEND

- AC POWER
- AC CONTROL SIGNAL
- DC CONTROL SIGNAL
- ANALOG SIGNAL
- PNEUMATIC LINE
- ETHERNET
- DMX CONTROL

ELECTRICAL SYMBOLS LEGEND

- FLOW - CONTROL
- FLOW - ELECTRIC
- GFCI RECEPTACLE
- LIGHT
- PUMP
- VALVE - AIR OPERATED
- VALVE - ELECTRICALLY OPERATED
- VALVE - SOLENOID

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
	2025-11-19	ISSUE FOR 90% DESIGN DEVELOPMENT
	2025-11-10	ISSUE FOR 50% DESIGN DEVELOPMENT
	2025-10-17	ISSUED FOR SET

ARCHITECT

PROJECT LUONG
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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

ACTIVITY POOL
FUNCTIONAL
BLOCK DIAGRAM

SHEET NUMBER

AQ-431

FILE PATH: ...\Activate Docs\ City of West Memphis Recreation Center\RAE_MASTER\RAE_AQUATICS.rvt
DATE PRINTED: 4/17/2026 2:30:44 PM

GENERAL SHEET NOTES

ALL WIRING SHALL BE PERFORMED, GROUNDED/BONDED IN ACCORDANCE WITH NEC COMPLIANCE AND MANUFACTURER'S INSTRUCTION MANUALS.

REFER TO THE VFD AND DRIVER INSTALLATION AND OPERATING MANUAL.

REFER TO EQUIPMENT MANUFACTURER INSTALLATION MANUALS FOR PROPER WIRING AND PROTECTION RECOMMENDATIONS.

PLC I/O SPARES NOT SHOWN IN SCHEMATIC. INCLUDING AT LEAST 30% FOR RELAY OUTPUT SPARES, 20% FOR DIGITAL/ANALOG I/O SPARES AND SPACE FOR AT LEAST 20% EXPANSION CAPABILITIES INTO THE PANEL IS RECOMMENDED.

OVERLOAD PROTECTION AND WIRING BASED ON MANUFACTURER LOAD DATA. RE-SIZE ACCORDINGLY FOR VOLTAGE DROP AND END LOCATIONS.

MAIN AND BRANCH FEEDERS PROVIDED BY ELECTRICAL CONTRACTOR.

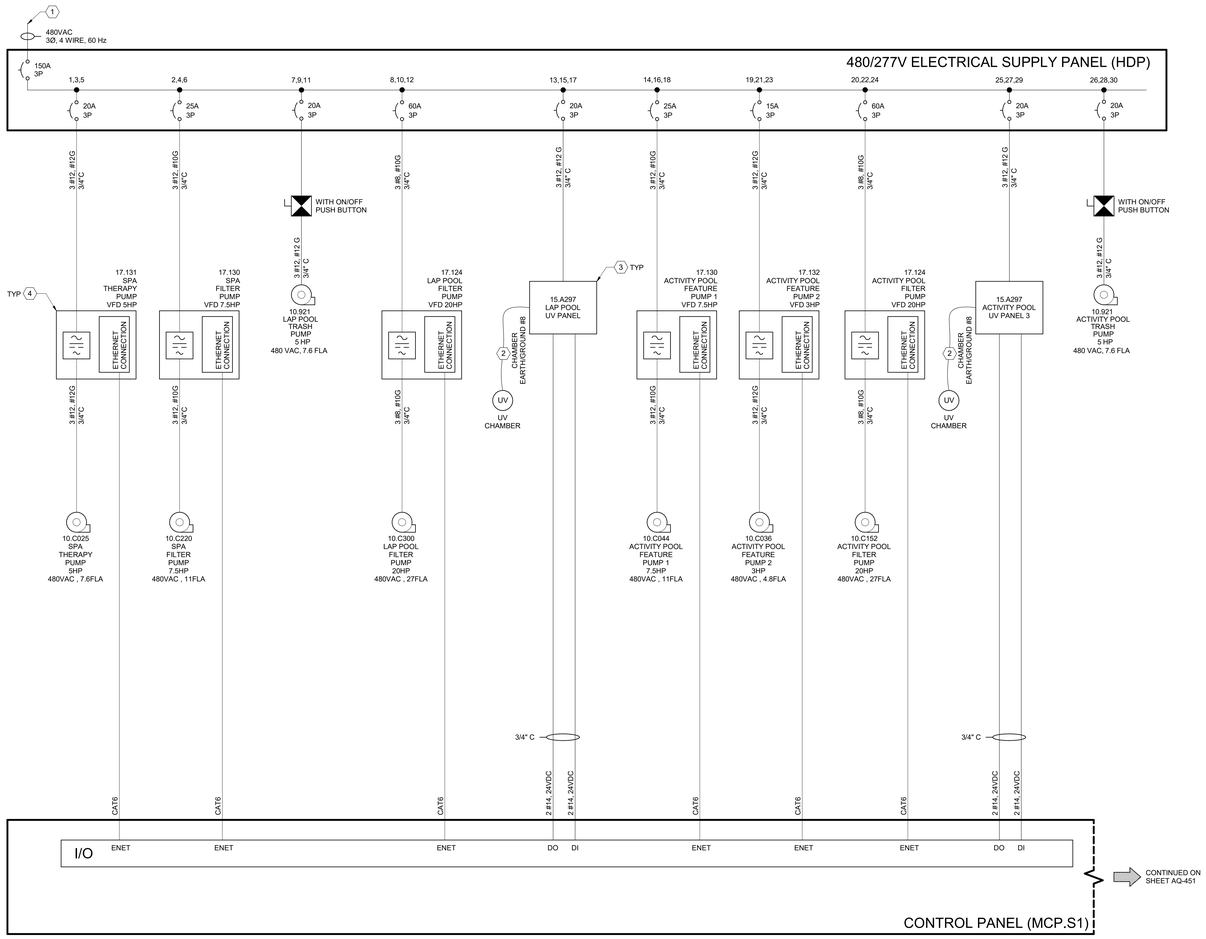
POWER DISTRIBUTION PANEL CIRCUIT SPARES NOT SHOWN IN SCHEMATIC. SPACE FOR AT LEAST 20% EXPANSION CAPABILITIES INTO THE PANEL IS RECOMMENDED.

ALL GROUNDING FROM AQUATIC DISTRIBUTION PANELS TO MAIN GROUND BUS MUST BE PROVIDED BY PROJECT ELECTRICAL ENGINEER

SIZE MOTOR OVERLOADS BASED ON NAMEPLATE FLA IN ACCORDANCE WITH PART III OF NEC ARTICLE 430

SHEET KEYNOTES

1. TRANSFORMER, FEEDER, & DISCONNECT PROVIDED BY SITE ELECTRICAL ENGINEER
2. INCLUDES FEATURES CORDS FOR ORP SENSOR, PH SENSOR, TEMP SENSOR, & FLOW SWITCH
3. UV PANEL INCLUDES INTEGRAL DISCONNECT
4. MOTOR CONTROLLER LINE SIDE DISCONNECT IS INTEGRAL TO VFD



SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

no.	DATE	DESCRIPTION
	2025-11-19	ISSUE FOR 95% DESIGN DEVELOPMENT
	2026-01-30	ISSUE FOR CLIENT DESIGN DEVELOPMENT
	2026-02-11	ADDENDUM #1

ARCHITECT

PROJECT LUONG
HOUSTON
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700 N. St. Mary's St., Suite 1400, San Antonio, TX 78205 +1.726.245.1378
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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

MECH ROOM 1
SINGLE LINE
DIAGRAM

SHEET NUMBER

AQ-450

FILE PATH: ...\...\...\

GENERAL SHEET NOTES

ALL WIRING SHALL BE PERFORMED, GROUNDED/BONDED IN ACCORDANCE WITH NEC COMPLIANCE AND MANUFACTURER'S INSTRUCTION MANUALS.

REFER TO THE VFD AND DRIVER INSTALLATION AND OPERATING MANUAL.

REFER TO EQUIPMENT MANUFACTURER INSTALLATION MANUALS FOR PROPER WIRING AND PROTECTION RECOMMENDATIONS.

PLC I/O SPARES NOT SHOWN IN SCHEMATIC. INCLUDING AT LEAST 30% FOR RELAY OUTPUT SPARES, 20% FOR DIGITAL/ANALOG I/O SPARES AND SPACE FOR AT LEAST 20% EXPANSION CAPABILITIES INTO THE PANEL IS RECOMMENDED.

OVERLOAD PROTECTION AND WIRING BASED ON MANUFACTURER LOAD DATA. RE-SIZE ACCORDINGLY FOR VOLTAGE DROP AND END LOCATIONS.

MAIN AND BRANCH FEEDERS PROVIDED BY ELECTRICAL CONTRACTOR.

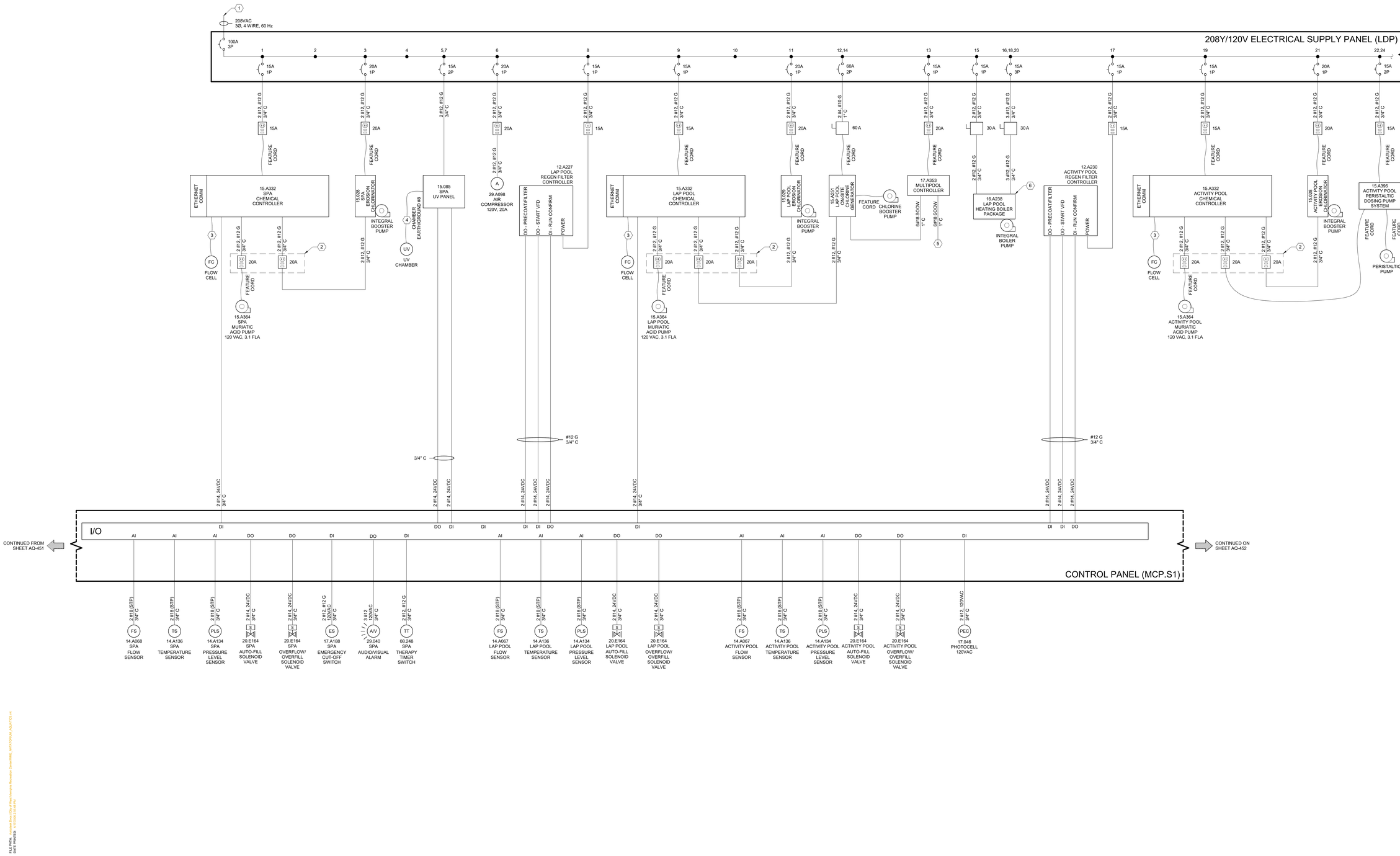
POWER DISTRIBUTION PANEL CIRCUIT SPARES NOT SHOWN IN SCHEMATIC. SPACE FOR AT LEAST 20% EXPANSION CAPABILITIES INTO THE PANEL IS RECOMMENDED.

ALL GROUNDING FROM AQUATIC DISTRIBUTION PANELS TO MAIN GROUND BUS MUST BE PROVIDED BY PROJECT ELECTRICAL ENGINEER

SIZE MOTOR OVERLOADS BASED ON NAMEPLATE FLA IN ACCORDANCE WITH PART III OF NEC ARTICLE 430

SHEET KEYNOTES

1 TRANSFORMER, FEEDER, & DISCONNECT PROVIDED BY SITE ELECTRICAL ENGINEER
2 INTERLOCKED WITH FILTER FLOW VIA CHEMICAL CONTROLLER'S INTEGRATED FLOW CELL
3 INCLUDES FEATURES CORDS FOR ORP SENSOR, PH SENSOR, TEMP SENSOR, & FLOW SWITCH
4 INCLUDES FEATURES CORDS FOR ORP SENSOR, PH SENSOR, TEMP SENSOR, & FLOW SWITCH
5 TO ACTIVITY POOL PERISTALTIC PUMP DOSING SYSTEM ON THIS SHEET
6 INTERLOCKED WITH FILTER FLOW VIA INTEGRATED FLOW SWITCH
7 TO MULTIPOOL CONTROLLER ON THIS SHEET



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SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
	2025-13-19	ISSUE FOR 95% DESIGN DEVELOPMENT
	2025-04-30	ISSUE FOR DESIGN DEVELOPMENT
	2025-04-11	ISSUE FOR SET

ARCHITECT

PROJECT LUDNG
HOUSTON
SAN ANTONIO
SANTA MONICA
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820 Gessner Rd., Suite 775, Houston, TX 77024 +1.346.708.8241
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Projectluong.com

CONSULTANT

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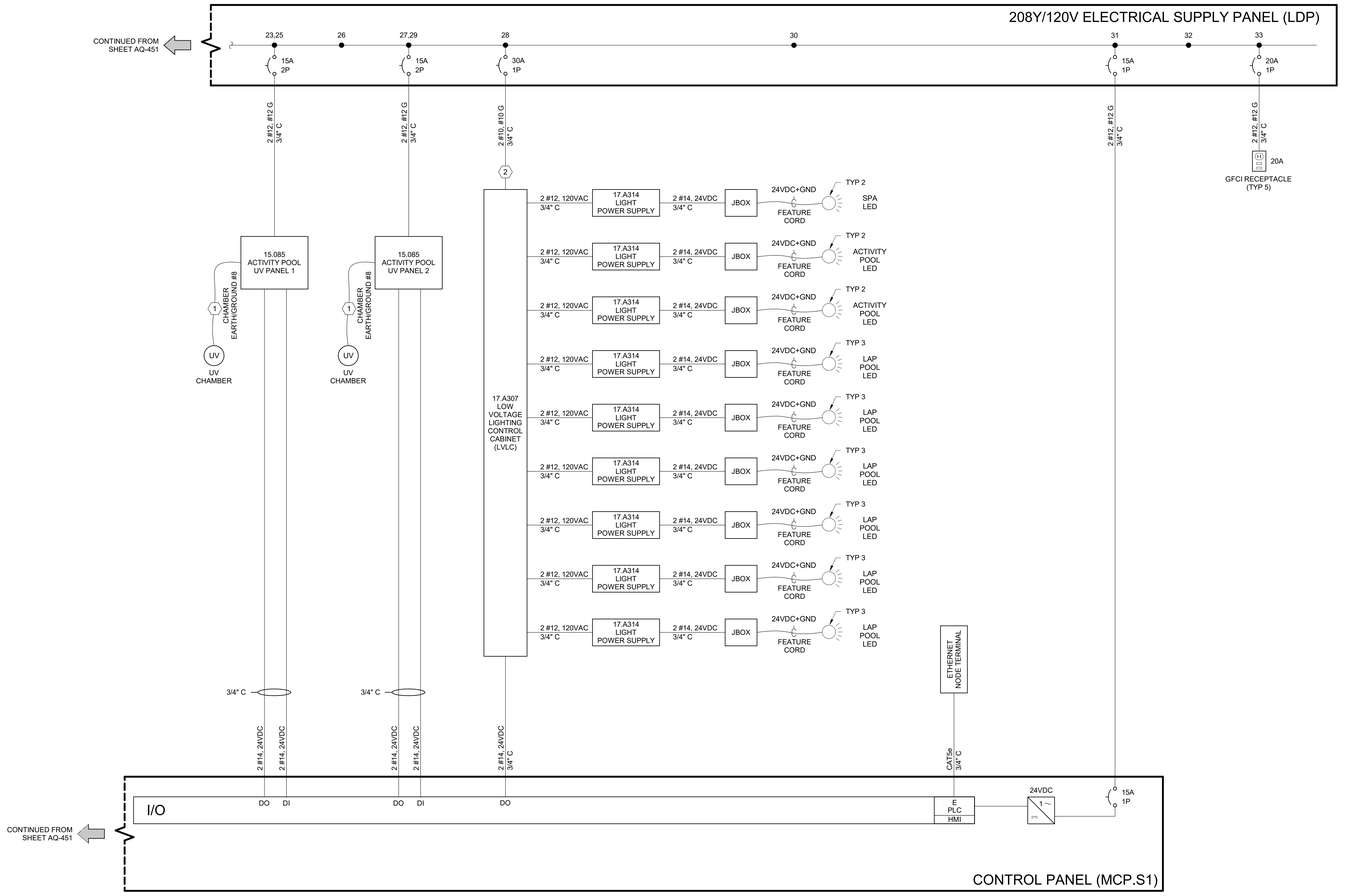
JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE
MECH ROOM 1 SINGLE LINE DIAGRAM

SHEET NUMBER
AQ-451



GENERAL SHEET NOTES

ALL WIRING SHALL BE PERFORMED, GROUNDED/BONDED IN ACCORDANCE WITH NEC COMPLIANCE AND MANUFACTURER'S INSTRUCTION MANUALS.

REFER TO THE VFD AND DRIVER INSTALLATION AND OPERATING MANUAL.

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PLC I/O SPARES NOT SHOWN IN SCHEMATIC. INCLUDING AT LEAST 30% FOR RELAY OUTPUT SPARES, 20% FOR DIGITAL/ANALOG I/O SPARES AND SPACE FOR AT LEAST 20% EXPANSION CAPABILITIES INTO THE PANEL IS RECOMMENDED.

OVERLOAD PROTECTION AND WIRING BASED ON MANUFACTURER LOAD DATA. RE-SIZE ACCORDINGLY FOR VOLTAGE DROP AND END LOCATIONS.

MAIN AND BRANCH FEEDERS PROVIDED BY ELECTRICAL CONTRACTOR.

POWER DISTRIBUTION PANEL CIRCUIT SPARES NOT SHOWN IN SCHEMATIC. SPACE FOR AT LEAST 20% EXPANSION CAPABILITIES INTO THE PANEL IS RECOMMENDED.

ENSURE THAT DC POWER NEGATIVE COMMON RETURNS TO THEIR RESPECTIVE POWER SUPPLY.

ALL GROUNDING FROM AQUATIC DISTRIBUTION PANELS TO MAIN GROUND BUS MUST BE PROVIDED BY PROJECT ELECTRICAL ENGINEER

SIZE MOTOR OVERLOADS BASED ON NAMEPLATE FLA IN ACCORDANCE WITH PART III OF NEC ARTICLE 430

SHEET KEYNOTES

1 INCLUDES FEATURES CORDS FOR ORP SENSOR, PH SENSOR, TEMP SENSOR, & FLOW SWITCH

2 CABINET INCLUDES INTEGRAL DISCONNECT

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
1	2025-12-19	ISSUE FOR 90% DESIGN DEVELOPMENT
2	2026-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
3	2026-04-17	ADDENDUM NO. 01

ARCHITECT

PROJECT LUONG
HOUSTON
SAN ANTONIO
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CONSULTANT

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407.598.0550 | MartinAquatic.com

JOB INFO

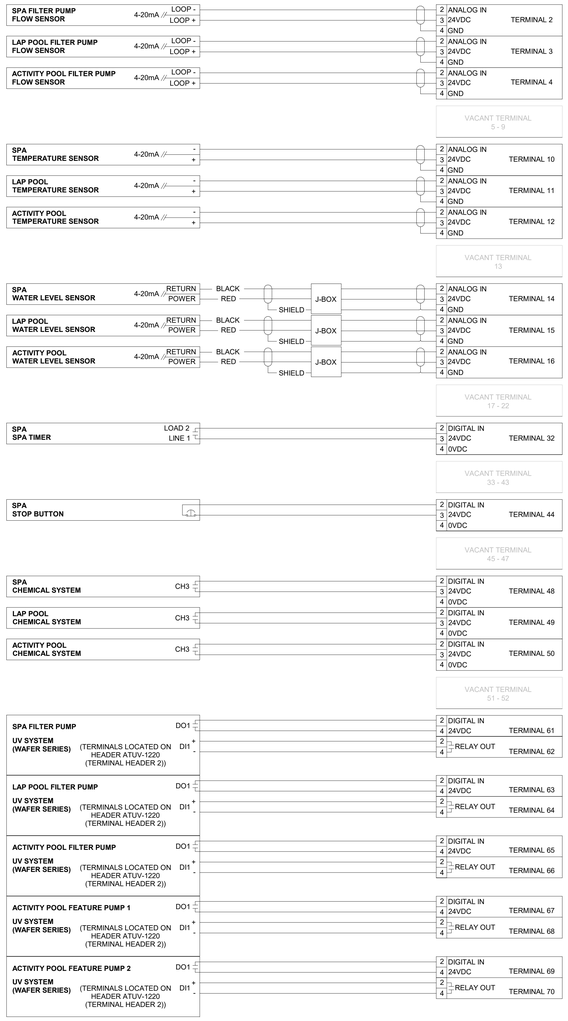
CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE
MECH ROOM 1
SINGLE LINE
DIAGRAM

SHEET NUMBER
AQ-452

FILE PATH: Autodesk Docs://City of West Memphis Recreation Center/RAC_MVXV36XM_AQUATICS.rvt
DATE PRINTED: 4/17/2026 2:55:48 PM



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DATE PRINTED: 4/17/2020 2:26:44 PM

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DESCRIPTION
	2020-12-18 ISSUE FOR 90% DESIGN DEVELOPMENT
	2020-01-30 ISSUE FOR DESIGN DEVELOPMENT
	2019-04-15 ISSUED SET

ARCHITECT

PROJECT LUONG
820 Gessner Rd., Suite 775, Houston, TX 77024 +1.346.708.8241
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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

MECH ROOM 1 MCP DIAGRAM

SHEET NUMBER

AQ-453

HDP PANEL SCHEDULE

VOLTAGE : 480 / 277 VAC | Hz : 60 | MIN. BUS RATING (AMPS) : 150 | LOCATION : MECHANICAL ROOM
MOUNTING : INDOOR | PHASE : 3 | MAIN CIRCUIT BREAKER (AMPS) : 150 | VOLTAGE (V) : 480
ENCLOSURE : NEMA 4X | WIRE : 4 | SCCR : BY SITE ELECTRICAL ENGINEER | FEED FROM : BY SITE ELECTRICAL ENGINEER

CIRCUIT BREAKER			CODE	CIRCUIT NAME	HP	AMPS	FEEDER			KVA	LOAD/PHASE (KVA)			KVA	FEEDER			AMPS	HP	CIRCUIT NAME	CODE	CIRCUIT BREAKER		
NO.	AMPS	POLE					C	WIRE	GND		ØA	ØB	ØC		GND	WIRE	C					POLE	AMPS	NO.
1	20	3	M	Spa Therapy Pump	5.0	7.6	3/4"	#12	#12	2.11	5.15			3.05	#10	#12	3/4"	11.0	7.5	Spa Filter Pump	M	3	25	2
3										2.11		5.15		3.05										4
5										2.11			5.15	3.05										6
7	20	3	M	Lap Pool Trash Pump	5.0	7.6	3/4"	#12	#12	2.11	9.59			7.48	#10	#8	3/4"	27.0	20.0	Lap Pool Filter Pump	M	3	60	8
9										2.11		9.59		7.48										10
11										2.11			9.59	7.48										12
13	20	3	L	Lap Pool UV Control Panel	-	13.0	3/4"	#12	#12	3.60	6.65			3.05	#10	#12	3/4"	11.0	7.5	Activity Pool Feature Pump 1	M	3	25	14
15										3.60		6.65		3.05										16
17										3.60			6.65	3.05										18
19	15	3	M	Activity Pool Feature Pump 2	3.0	4.8	3/4"	#12	#12	1.33	8.81			7.48	#10	#8	3/4"	27.0	20.0	Activity Pool Filter Pump	M	3	60	20
21										1.33		8.81		7.48										22
23										1.33			8.81	7.48										24
25	20	3	L	Activity Pool UV Control Panel 3	-	13.0	3/4"	#12	#12	3.60	5.71			2.11	#12	#12	3/4"	7.6	5.0	Activity Pool Trash Pump	M	3	20	26
27										3.60		5.71		2.11										28
29										3.60			5.71	2.11										30
31		1								0.00				0.00								1		32
33		1								0.00				0.00								1		34
35		1								0.00				0.00								1		36
37		1								0.00				0.00								1		38
39		1								0.00				0.00								1		40
41		1								0.00				0.00								1		42

A. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND EXTERIOR CONDUCTORS SHALL BE THHW
B. PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ: **DANGER: POTENTIAL ARC FLASH HAZARD**
C. ALL GROUNDING FROM AQUATIC DISTRIBUTION PANELS TO MAIN GROUND BUS MUST BE PROVIDED BY PROJECT ELECTRICAL ENGINEER
D. WIRE SIZE BASED ON 75°C (167°F) TERMINATIONS, 75°C (167°F) INSULATION, AND COPPER CONDUCTORS.
E. PANEL SHALL BE LISTED FOR OPERATION AT 100 PERCENT OF ITS RATING.
F. INSTALLATION SHALL COMPLY WITH ALL LOCAL CODES.

ØA	ØB	ØC	Totals	
35.92	35.92	35.92	**107.75**	CONNECTED LOAD (KVA)
			129.60	CONNECTED LOAD (A)

	Connected Load (KVA)	Demand Factor	Demand Load (KVA)
Cooling (C)	0.00	1.25	0.00
Heating (H)	0.00	1	0.00
Lighting (L)	21.62	1.25	27.02
Largest Motor (M)	22.45	1.25	28.06
All Other Motors (M)	63.68	1	63.68
Other (O)	0.00	1	0.00
Receptacles (R)	0.00	1	0.00
Receptacles over 10KVA (R)	0.00	0.5	0.00
			118.76 TOTAL DEMAND LOAD (KVA)
			142.85 TOTAL DEMAND LOAD (A)

LDP PANEL SCHEDULE

VOLTAGE : 208 / 120 VAC | Hz : 60 | MIN. BUS RATING (AMPS) : 100 | LOCATION : MECHANICAL ROOM
MOUNTING : INDOOR | PHASE : 3 | MAIN CIRCUIT BREAKER (AMPS) : 100 | VOLTAGE (V) : 208
ENCLOSURE : NEMA 4X | WIRE : 4 | SCCR : BY SITE ELECTRICAL ENGINEER | FEED FROM : BY SITE ELECTRICAL ENGINEER

CIRCUIT BREAKER			CODE	CIRCUIT NAME	HP	AMPS	FEEDER			KVA	LOAD/PHASE (KVA)			KVA	FEEDER			AMPS	HP	CIRCUIT NAME	CODE	CIRCUIT BREAKER		
NO.	AMPS	POLE					C	WIRE	GND		ØA	ØB	ØC		GND	WIRE	C					POLE	AMPS	NO.
1	15	1	O	Spa Chemical Controller	-	7.9	3/4"	#12	#12	0.95	0.95			0.00								1		2
3	20	1	O	Spa Erosion Chlorinator	1.0	15.0	3/4"	#12	#12	1.80		1.80		0.00								1		4
5	15	2	L	Spa UV Control Panel	-	7.5	3/4"	#12	#12	0.78			2.58	1.80	#12	#12	3/4"	15.0	2.0	Air Compressor	O	1	20	6
7										0.78	1.08			0.30	#12	#12	3/4"	2.5	-	Lap Pool Filter Controller	O	1	15	8
9	15	1	O	Lap Pool Chemical Controller	-	7.9	3/4"	#12	#12	0.95		0.95		0.00								1		10
11	20	1	O	Lap Pool Chlorinator	1.5	15.0	3/4"	#12	#12	1.80			6.48	4.68	#10	#4	1"	45.0	-	Lap Pool Salt Chlorine Generator	O	2	60	12
13	15	1	O	Multipool Controller	-	10.0	3/4"	#12	#12	1.20	5.88			4.68										14
15	15	1	H	Lap Pool Heating Boiler Package	-	12.0	3/4"	#12	#12	1.44		1.69		0.25	#12	#12	3/4"	2.1	-	Lap Pool Heating Boiler Package Integral Boiler Pump	H	3	15	16
17	15	1	O	Activity Pool Filter Controller	-	2.5	3/4"	#12	#12	0.30			0.55	0.25										18
19	15	1	O	Activity Pool Chemical Controller	-	7.9	3/4"	#12	#12	0.95	1.20			0.25										20
21	20	1	O	Activity Pool Erosion Chlorinator	1.0	15.0	3/4"	#12	#12	1.80		1.94		0.14	#12	#12	3/4"	1.3	-	Activity Pool Peristaltic Dosing Pump	M	2	15	22
23	15	2	L	Activity Pool UV Control Panel 1	-	7.5	3/4"	#12	#12	0.78			0.92	0.14										24
25										0.78	0.78			0.00								1		26
27	15	2	L	Activity Pool UV Control Panel 2	-	7.5	3/4"	#12	#12	0.78		3.66		2.88	#10	#10	3/4"	24.0	-	Low Voltage Pool Lighting Control Cabinet	L	1	30	28
29										0.78			0.78	0.00								1		30
31	15	1	O	Main Control Panel	-	3.0	3/4"	#12	#12	0.36	0.36			0.00								1		32
33	20	1	R	GFCI Receptacles	-	7.5	3/4"	#12	#12	0.90		0.90		0.00								1		34
35		1								0.00				0.00								1		36
37		1								0.00				0.00								1		38
39		1								0.00				0.00								1		40
41		1								0.00				0.00								1		42

A. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND EXTERIOR CONDUCTORS SHALL BE THHW
B. PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ: **DANGER: POTENTIAL ARC FLASH HAZARD**
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D. WIRE SIZE BASED ON 75°C (167°F) TERMINATIONS, 75°C (167°F) INSULATION, AND COPPER CONDUCTORS.
E. PANEL SHALL BE LISTED FOR OPERATION AT 100 PERCENT OF ITS RATING.
F. INSTALLATION SHALL COMPLY WITH ALL LOCAL CODES.

ØA	ØB	ØC	Totals	
10.25	10.94	11.31	**32.49**	CONNECTED LOAD (KVA)
			90.19	CONNECTED LOAD (A)

	Connected Load (KVA)	Demand Factor	Demand Load (KVA)
Cooling (C)	0.00	1.25	0.00
Heating (H)	2.20	1	2.20
Lighting (L)	7.56	1.25	9.45
Largest Motor (M)	0.27	1.25	0.34
All Other Motors (M)	0.00	1	0.00
Other (O)	21.56	1	21.56
Receptacles (R)	0.90	1	0.90
Receptacles over 10KVA (R)	0.00	0.5	0.00
			34.45 TOTAL DEMAND LOAD (KVA)
			95.62 TOTAL DEMAND LOAD (A)

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SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

#	DATE	DESCRIPTION
	2025-11-19	ISSUE FOR 90% DESIGN DEVELOPMENT
	2025-11-26	ISSUE FOR 100% DESIGN DEVELOPMENT
	2025-12-17	ISSUED FOR BID SET

ARCHITECT

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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

MECH ROOM 1
PANEL SCHEDULES

SHEET NUMBER

AQ-460

ELECTRICAL EQUIPMENT SCHEDULE - MECHANICAL ROOM

Schedule #	ID	Product Name	Model Number	Manufacturer	Service VAC	Service Ph	Disconnecting Means	Starter / VFD	Load HP	Load VA	Load AMPS
		Spa									
10.C025	Spa Therapy Pump	150 at 62 - Pentair Aurora	Aurora 3801 - 2.5x3x9.5	Aurora Supply Company	480	3	5HP	VFD	5.0	6319	7.6
10.C220	Spa Filter Pump	125 at 90 - Aurora 3801	3801 - 1.5x2x9.5	Aurora Supply Company	480	3	7.5HP	VFD	7.5	9145	11.0
15.028	Spa Erosion Chlorinator	Chlorinator with Hayward PPAP 1000 Pump	Powerbase 1030	Accu-Tab	120	1	Plug/Cord	-	1.0	1800	15.0
15.085	Spa UV Control Panel	Dulcodes A UV Sanitizer	1x1a	ProMinent Fluid Controls, Inc.	208	1	Integrated	-	-	1560	7.5
15.A332	Spa Chemical Controller	DCM 513 - 5 Series Controller	1080774	ProMinent Fluid Controls, Inc.	120	1	Plug/Cord	-	-	948	7.9
15.A364	Spa pH Feeder Pump	Sigma/ 3 Motor Driven Diaphragm Pump	040830 PVT	ProMinent Fluid Controls, Inc.	120	1	Plug/Cord	-	-	372	3.1
17.A307	Low Voltage Pool Lighting Control Cabinet	Low Voltage Pool Lighting Control Cabinet	BMB-E-LVLC	Blue Mar Basins	120	1	Integrated	-	-	2880	24.0
17.A310	Main Control Panel	Main Control Panel - Series 1 (MCP.S1)	BMB-E-BM.MCP.S1	Blue Mar Basins	120	1	Integrated	-	-	360	3.0
17.A353	Multipool Controller	NEXGEN MultiPool Controller - Venturi	XGENMPCP2-5	Chlorking	120	1	Plug/Cord	-	-	1200	10.0
29.A098	Air Compressor	Air Compressor (2 HP)	P1.5IU-A9	Ingersoll Rand	120	1	Plug/Cord	-	2.0	1800	15.0
		Lap Pool									
10.921	Lap Pool Trash Pump	AMT Trash Pump - 125 at 40	AMT-393A	AMT	480	3	5HP	NEMA 0	5.0	6319	7.6
10.C300	Lap Pool Filter Pump	650 at 79 - Aurora 3801	3801 - 4x5x9.5	Aurora Supply Company	480	3	20HP	VFD	20.0	22447	27.0
12.A227	Lap Pool Filter Controller	Regenerative Media Filter, BMB-F-210S	BMB-F-210S	Blue Mar Basins	120	1	Plug/Cord	-	-	300	2.5
15.029	Lap Pool Chlorinator	Chlorinator with Hayward PPAP 1500 Pump	Powerbase 3070AT	Accu-Tab	120	1	Plug/Cord	-	1.5	1800	15.0
15.A251	Lap Pool Salt Chlorine Generator	NEXGEN 50SM-R 60 lb/day Reversing Skid Mounted pH Neutral Chlorine Generator	NEXGEN 50SM-R	Chlorking	208	1	60A	-	-	9360	45.0
15.A297	Lap Pool UV Control Panel	Dulcodes A 3kW UV Sanitizer	1x3A 7781583	ProMinent Fluid Controls, Inc.	480	3	Integrated	-	-	10808	13.0
15.A332	Lap Pool Chemical Controller	DCM 513 - 5 Series Controller	1080774	ProMinent Fluid Controls, Inc.	120	1	Plug/Cord	-	-	948	7.9
15.A364	Lap Pool pH Feeder Pump	Sigma/ 3 Motor Driven Diaphragm Pump	040830 PVT	ProMinent Fluid Controls, Inc.	120	1	Plug/Cord	-	-	372	3.1
16.A238	Lap Pool Heating Boiler Package	Custom Delta Hydronics Centralized Heating Boiler Package - 500MBH	DH-CHBP-500	Delta Hydronics	120	1	30A	-	-	1440	12.0
		Activity Pool									
10.921	Activity Pool Trash Pump	AMT Trash Pump - 125 at 40	AMT-393A	AMT	480	3	5HP	NEMA 0	5.0	6319	7.6
10.C036	Activity Pool Feature Pump 2	70 at 59 - Pentair Aurora	Aurora 3801 - 1.5x2x9.5	Aurora Supply Company	480	3	3HP	VFD	3.0	3991	4.8
10.C044	Activity Pool Feature Pump 1	150 at 80 - Aurora	3801 - 2x2.5x9.5, 1750RPM, 7.5 HP	Aurora Supply Company	480	3	7.5HP	VFD	7.5	9145	11.0
10.C152	Activity Pool Filter Pump	550 at 82 - Aurora 3801	3801 - 3x4x9.5	Aurora Supply Company	480	3	20HP	VFD	20.0	22447	27.0
12.A230	Activity Pool Filter Controller	Regenerative Media Filter, BMB-F-110	BMB-F-110	Blue Mar Basins	120	1	Plug/Cord	-	-	300	2.5
15.028	Activity Pool Erosion Chlorinator	Chlorinator with Hayward PPAP 1000 Pump	Powerbase 1030	Accu-Tab	120	1	Plug/Cord	-	1.0	1800	15.0
15.085	Activity Pool UV Control Panel 1	Dulcodes A UV Sanitizer	1x1a	ProMinent Fluid Controls, Inc.	208	1	Integrated	-	-	1560	7.5
15.085	Activity Pool UV Control Panel 2	Dulcodes A UV Sanitizer	1x1a	ProMinent Fluid Controls, Inc.	208	1	Integrated	-	-	1560	7.5
15.A297	Activity Pool UV Control Panel 3	Dulcodes A 3kW UV Sanitizer	1x3A 7781583	ProMinent Fluid Controls, Inc.	480	3	Integrated	-	-	10808	13.0
15.A332	Activity Pool Chemical Controller	DCM 513 - 5 Series Controller	1080774	ProMinent Fluid Controls, Inc.	120	1	Plug/Cord	-	-	948	7.9
15.A364	Activity Pool pH Feeder Pump	Sigma/ 3 Motor Driven Diaphragm Pump	040830 PVT	ProMinent Fluid Controls, Inc.	120	1	Plug/Cord	-	-	372	3.1
15.A395	Activity Pool Peristaltic Dosing Pump	NEXGEN Pump System - Peristaltic	CHLORPDSAC 40	Chlorking	208	1	Plug/Cord	-	-	270	1.3

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SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

no.	DATE	DESCRIPTION
	2025-1-15	ISSUE FOR 90% DESIGN DEVELOPMENT
	2025-3-10	ISSUE FOR 100% DESIGN DEVELOPMENT
	2025-6-17	PERMISSION SET

ARCHITECT

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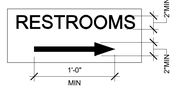
JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE
MECH ROOM 1 ELECTRICAL EQUIPMENT SCHEDULES

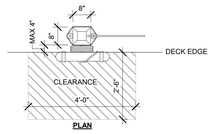
SHEET NUMBER
AQ-470



GENERAL DETAIL NOTES

CONFIRM ARROW DIRECTION PRIOR TO FABRICATION AUTHORIZATION

8 RESTROOM LOCATOR SIGN
1 1/2" = 1'-0"

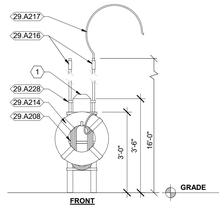


SCHEDULE KEYNOTES

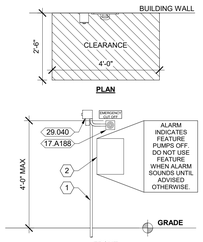
29.A216	FIBERGLASS POLE - 16'
29.A214	RING BUOY - 24"
29.A208	RING BUOY THROW ROPE - 60'
29.A217	RESCUE SHEPHERDS CROOK
29.A228	POLE CLAMP SET

DETAIL KEYNOTES

1 REFER TO LANDSCAPE ARCHITECT FOR MOUNTING MATERIALS AND INSTRUCTIONS



4 SAFETY EQUIPMENT - VERTICAL POST MOUNTED
1/2" = 1'-0"



SCHEDULE KEYNOTES

17.A188	EMERGENCY CUT-OFF SWITCH
29.040	AUDIO / VISUAL ALARM - 80 DECIBEL

DETAIL KEYNOTES

1 POWER SUPPLY FROM ELECTRICAL PANEL
2 CUT-OFF SWITCH SIGNAGE

7 EMERGENCY CUT-OFF (WALL MOUNTED)
1/2" = 1'-0"

SPA RULES

NO DIVING

SPA MAXIMUM DEPTH - #'-#"

1. NO FOOD OR BEVERAGE IN SPA OR ON SPA WET DECK. COMMERCIALLY BOTTLED WATER IN PLASTIC BOTTLES IS ALLOWED ON THE WET DECK FOR PATRON HYDRATION.
2. NO GLASS OR ANIMALS IN THE FENCED SPA AREA.
3. BATHING LOAD: ## PERSONS
4. SPA HOURS: DAWN TO DUSK.
5. SHOWER BEFORE ENTERING.
6. DO NOT SWALLOW THE SPA WATER, IT IS RECIRCULATED.
7. CHILDREN UNDER 12 MUST HAVE ADULT SUPERVISION.
8. MAXIMUM USE 15 MINUTES.
9. PREGNANT WOMEN, SMALL CHILDREN, PEOPLE WITH HEALTH PROBLEMS AND PEOPLE USING ALCOHOL, NARCOTICS OR OTHER DRUGS CAUSING DROWSINESS SHOULD NOT USE SPA POOLS WITHOUT FIRST CONSULTING A DOCTOR.
10. SPA MAXIMUM WATER TEMPERATURE: 104° F
11. NO SWIMMING ALLOWED DURING SEVERE WEATHER, HEAVY RAIN OR WHEN LIGHTNING AND THUNDER CAN BE SEEN OR HEARD.
12. DO NOT USE THE SPA IF YOU ARE ILL WITH DIARRHEA.
13. WARNING - NO LIFEGUARD ON DUTY
14. EMERGENCY CONTACT TELEPHONE #: 9-1-1
15. NO NIGHT SWIMMING.

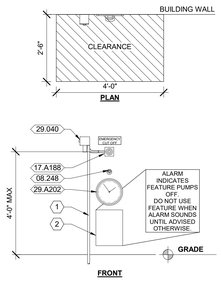
4"MIN
2" MIN
1"MIN

GENERAL DETAIL NOTES

OWNER TO DETERMINE SPA HOURS PRIOR TO PURCHASE OF SIGN.

ADDITIONAL RULES WILL BE SUPPLIED BY THE OWNER

3 SPA RULES
1" = 1'-0"



SCHEDULE KEYNOTES

29.A202	CLOCK - 12" DIAMETER
08.248	THERAPY TIMER SWITCH
17.A188	EMERGENCY CUT-OFF SWITCH
29.040	AUDIO / VISUAL ALARM - 80 DECIBEL

DETAIL KEYNOTES

1 POWER SUPPLY FROM ELECTRICAL PANEL
2 CUT-OFF SWITCH SIGNAGE

6 SPA THERAPY CONTROLS (WALL MOUNTED)
1/2" = 1'-0"

ACTIVITY POOL RULES

NO DIVING

POOL MAXIMUM DEPTH - 4'-0"

1. NO FOOD OR BEVERAGES IN POOL OR ON POOL WET DECK. COMMERCIALLY BOTTLED WATER IN PLASTIC BOTTLES IS ALLOWED ON THE POOL WET DECK FOR POOL PATRON HYDRATION.
2. NO GLASS OR ANIMALS WITHIN THE FENCED POOL AREA (OR 50 FEET FROM UNFENCED POOL)
3. BATHING LOAD: ## PERSONS
4. POOL HOURS: DAWN TO DUSK.
5. SHOWER BEFORE ENTERING.
6. DO NOT SWALLOW THE POOL WATER, IT IS RECIRCULATED.
7. CHILDREN UNDER 12 SHALL HAVE ADULT SUPERVISION.
8. PEOPLE WITH HEALTH PROBLEMS AND PEOPLE USING ALCOHOL, NARCOTICS, OR OTHER DRUGS THAT CAUSE DROWSINESS SHOULD NOT USE THE POOL(S) WITHOUT CONSULTING A DOCTOR FIRST.
9. NO SWIMMING ALLOWED DURING SEVERE WEATHER, HEAVY RAIN, OR WHEN LIGHTNING AND THUNDER CAN BE SEEN OR HEARD.
10. DO NOT USE THE POOL IF YOU ARE ILL WITH DIARRHEA.
11. WARNING - NO LIFEGUARD ON DUTY
12. EMERGENCY CONTACT TELEPHONE #: 9-1-1
13. NO NIGHT SWIMMING.
14. DO NOT PLACE FURNITURE IN POOL.

4"MIN
2" MIN
1'MIN (1'6")
1

GENERAL DETAIL NOTES

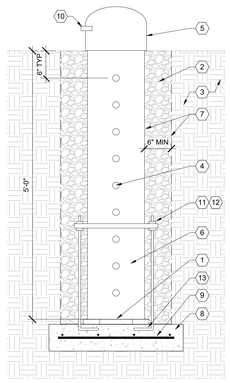
OWNER TO DETERMINE POOL HOURS PRIOR TO PURCHASE OF SIGN

ADDITIONAL RULES WILL BE SUPPLIED BY THE OWNER

DETAIL KEYNOTES

1 THIS RULE IS NOT REQUIRED WHEN ALL MOVABLE FURNITURE ON THE DECK OR IN THE POOL IS ENTIRELY MADE FROM UV-RESISTANT, INERT PLASTIC

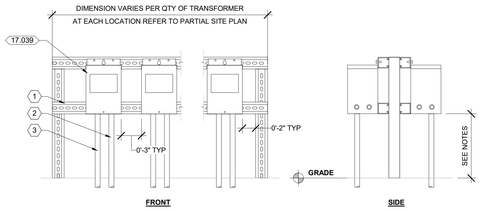
2 ACTIVITY POOL RULES
1" = 1'-0"



DETAIL KEYNOTES

1	GLUED PVC PLUG
2	CRUSHED ROCK / STONE
3	SOIL COMPACTION
4	1.5" HOLES TO BE DRILLED INTO PIPE EVERY 6" VERTICALLY ON BOTH SIDES OF PIPE
5	SOCKET CAP - NOT GLUED
6	12" PIPE SCH 80
7	FILTER FABRIC INSTALLED AROUND THE VERTICAL PIPE AND ALSO BETWEEN THE CRUSHED STONE AND COMPACTED EARTH
8	3,000 PSI CONCRETE CONCRETE IN 28 DAYS
9	#4 REBAR, GRADE 60 @ 8" OCEW
10	1" HOLE DRILLED FOR AIR RELIEF - PLACE THE AIR VENT HOLES AS CLOSE TO THE TOP OF THE SOCKET CAP FITTING AS FEASIBLE
11	THE CONTRACTOR MUST STABLIZE AND VERTICALLY ALIGN THE PIPE TO BE TRUE VERTICAL DURING CONSTRCUTION AND INSTALLATION
12	PROVIDE SST VERITCAL PIPE SUPPORT CLAMP WITH ALL SST GRADE 316 COMPONENTS TO INCLUDE 1/2" ALL-THREAD RODS AND HARDWARE - REFER TO THE VERTICAL PIPE SUPPORT DETAIL FOR SUPPORT BUT USED WITH ALL THREAD.
13	POSITION THE ANCHOR RODS INTO THE REINFORCED CONCRETE FOUNDATION MINIMUM OF 4"

9 VERTICAL TEST PIPE FOR WATER LEVEL DETECTION
1" = 1'-0"



GENERAL DETAIL NOTES

TRANSFORMERS SHALL BE LOCATED A MINIMUM OF 8" ABOVE THE DECK OR BASIN WATER LEVEL, WHICHEVER IS HIGHER

IF PROVIDED IN BACK TO BACK CONFIGURATION, PROVIDE AS SHOWN IN SIDE VIEW

REFER TO MANUFACTURER'S WIRING DIAGRAM FOR EQUIPMENT GROUND CONNECTION

SCHEDULE KEYNOTES

17.039	UNDERWATER LIGHT TRANSFORMER - 300W/12V

DETAIL KEYNOTES

1	UNISTRUT SUPPORT
2	CONDUIT TO POOL LIGHTS
3	POWER SUPPLY (REFER TO MEP)

5 UNDERWATER LIGHT TRANSFORMER
1 1/2" = 1'-0"

LAP POOL RULES

NO DIVING

POOL MAXIMUM DEPTH - 5'-0"

1. NO FOOD OR BEVERAGES IN POOL OR ON POOL WET DECK. COMMERCIALLY BOTTLED WATER IN PLASTIC BOTTLES IS ALLOWED ON THE POOL WET DECK FOR POOL PATRON HYDRATION.
2. NO GLASS OR ANIMALS WITHIN THE FENCED POOL AREA (OR 50 FEET FROM UNFENCED POOL).
3. BATHING LOAD: ### PERSONS
4. POOL HOURS: DAWN TO DUSK.
5. SHOWER BEFORE ENTERING.
6. DO NOT SWALLOW THE POOL WATER, IT IS RECIRCULATED.
7. CHILDREN UNDER 12 SHALL HAVE ADULT SUPERVISION.
8. PEOPLE WITH HEALTH PROBLEMS AND PEOPLE USING ALCOHOL, NARCOTICS, OR OTHER DRUGS THAT CAUSE DROWSINESS SHOULD NOT USE THE POOL(S) WITHOUT CONSULTING A DOCTOR FIRST.
9. NO SWIMMING ALLOWED DURING SEVERE WEATHER, HEAVY RAIN, OR WHEN LIGHTNING AND THUNDER CAN BE SEEN OR HEARD.
10. DO NOT USE THE POOL IF YOU ARE ILL WITH DIARRHEA.
11. WARNING - NO LIFEGUARD ON DUTY
12. EMERGENCY CONTACT TELEPHONE #: 9-1-1
13. NO NIGHT SWIMMING.
14. DO NOT PLACE FURNITURE IN POOL.

4"MIN
2" MIN
1'MIN (1'6")
1

GENERAL DETAIL NOTES

OWNER TO DETERMINE POOL HOURS PRIOR TO PURCHASE OF SIGN

ADDITIONAL RULES WILL BE SUPPLIED BY THE OWNER

DETAIL KEYNOTES

1 THIS RULE IS NOT REQUIRED WHEN ALL MOVABLE FURNITURE ON THE DECK OR IN THE POOL IS ENTIRELY MADE FROM UV-RESISTANT, INERT PLASTIC

1 LAP POOL RULES
1" = 1'-0"

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SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
	2026-04-17	DD PROGRESS SET

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ST HWY 191/I-40 SERV, West Memphis, AR 72301

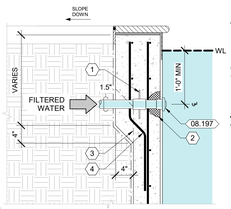
JOB No.: WESTCIT00561

SHEET TITLE

DETAILS (SITE)

SHEET NUMBER

AQ-500



GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

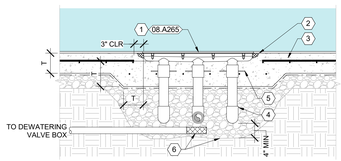
SCHEDULE KEYNOTES

08.197 WALL INLET FITTING

DETAIL KEYNOTES

1 WATERSTOP FITTING
2 HYDRAULIC CEMENT
3 BEAM (BEYOND)
4 EXTEND THICKEND WALL AS NEEDED TO PROVIDE MIN 3" COVER FOR WATERSTOP FITTING. PROVIDE ADDITIONAL BARS OF SAME SIZE AND SPACING AS TYPICAL BEAM BARS

11 SPA WALL INLET
1" = 1'-0"



GENERAL DETAIL NOTES

T = FLOOR STRUCTURE THICKNESS

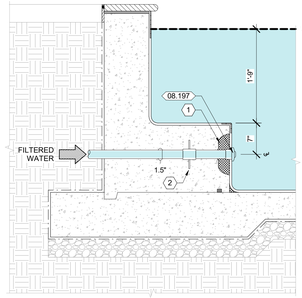
SCHEDULE KEYNOTES

08.A265 32IN CHANNEL DRAIN

DETAIL KEYNOTES

1 VGB COMPLIANT SUMP & GRATE
2 HYDRAULIC CEMENT
3 SEE STRUCTURAL DETAILS FOR FLOOR REINFORCING AND ADD BARS AT REENTRANT CORNERS OF DRAINS. ALSO PROVIDE ADD BARS WITH 24 BAR DIAMETER 135 DEGREE HOOKS BELOW DRAIN AS SHOWN AT SAME SIZE AND SPACING AS FLOOR REINFORCING.
4 2.5" DRAIN ASSEMBLY PIPING
5 WATERSTOP FITTING REQUIRED AT EACH CONNECTION
6 DEWATERING PIPE AND STONE BED

8 18x36 DRAIN SUMP ASSEMBLY
3/4" = 1'-0"



GENERAL DETAIL NOTES

SEE SPA BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

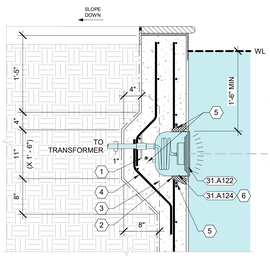
SCHEDULE KEYNOTES

08.197 WALL INLET FITTING

DETAIL KEYNOTES

1 HYDRAULIC CEMENT
2 WATERSTOP FITTING

4 SPA WALL INLET AT BENCH
1" = 1'-0"



GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

UNDERWATER LIGHT CONDUIT MUST BE WATER-TIGHT

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

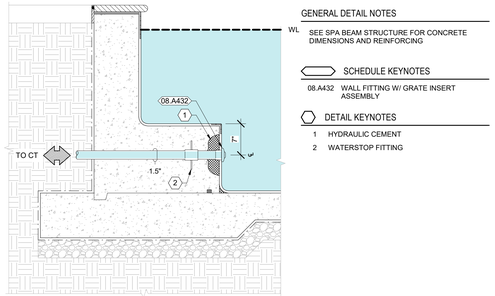
SCHEDULE KEYNOTES

31.A122 UNDERWATER POOL LIGHT - WHITE LED
31.A124 NICHE FOR POOL LIGHT

DETAIL KEYNOTES

1 WATERSTOP FITTING
2 HYDRAULIC CEMENT
3 BEAM (BEYOND)
4 PROVIDE ADDITIONAL BARS OF SAME SIZE AND SPACING AS TYPICAL BEAM BARS
5 ADD (3) #4X5'-4"LG HORIZONTAL BARS CENTERED ON LIGHT
6 STORE EXCESS LIGHTING ELECTRICAL CORD INSIDE NICHE TO ALLOW LAMP TO BE SERVICED ABOVE THE WATER LEVEL

10 SPA UNDERWATER LED LIGHT (BMB BRIGHT WHITE)
1" = 1'-0"



GENERAL DETAIL NOTES

SEE SPA BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

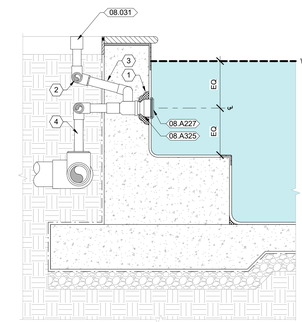
SCHEDULE KEYNOTES

08.A432 WALL FITTING W/ GRATE INSERT ASSEMBLY

DETAIL KEYNOTES

1 HYDRAULIC CEMENT
2 WATERSTOP FITTING

7 SPA STATIC EQUALIZER PIPING
1" = 1'-0"



GENERAL DETAIL NOTES

SEE SPA BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

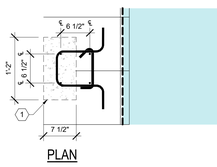
SCHEDULE KEYNOTES

08.A325 THERAPY JET BODY ASSEMBLY
08.A227 THERAPY JET NOZZLE

DETAIL KEYNOTES

1 HYDRAULIC CEMENT
2 1.5" THERAPY AIR PIPE LOOP
3 THERAPY LINE AIR GAP LINE - SLOPE UPWARDS
4 2" THERAPY WATER PIPE LOOP

3 SPA THERAPY NOZZLE ASSEMBLY
1" = 1'-0"



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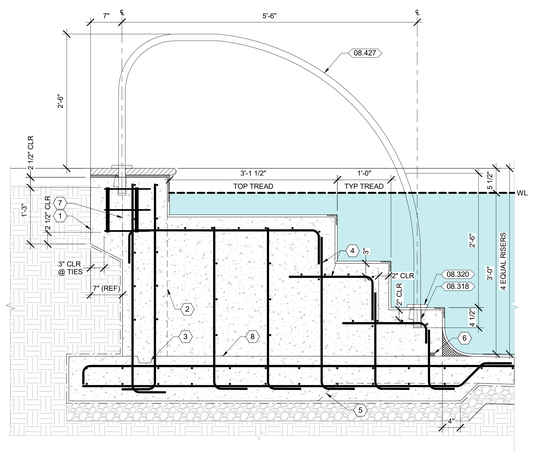


SECTION

GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE & FLOOR/WALL JUNCTION STRUCTURE DETAILS FOR ADDITIONAL INFORMATION

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

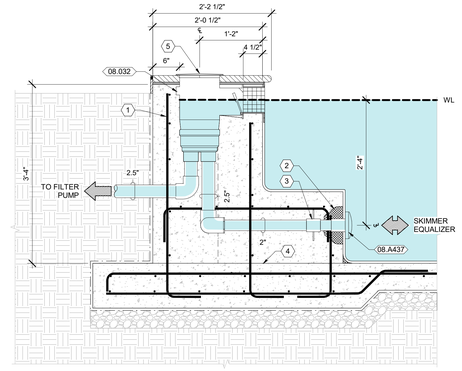
SCHEDULE KEYNOTES

08.318 4" STAINLESS STEEL ANCHOR
08.320 ESCUTCHEON PLATE
08.427 1.5" OD CUSTOM ROLLED HANDRAIL

DETAIL KEYNOTES

1 CONCRETE RAIL ANCHOR REINFORCED W/ (4) #5 VERT AND #3 TIES @ 4" OC. HOOK TIES 6" DEEP INTO BEAM AND CAST MONOLITHICALLY WITH BEAM, OR FIELD CUT HOOKS OFF AND EPOXY TIES 4 1/2" DEEP INTO ALREADY CAST BEAM.
2 WALL (BEYOND)
3 1.5" X 3" CONTINUOUS KEYWAY
4 PROVIDE ADDITIONAL BARS OF SAME SIZE AND SPACING AS POOL BEAM STRUCTURE DETAIL
5 FLOOR (BEYOND)
6 NON-SWELLING SIKA/GREENSTREAK LOCKSTOP ADHESIVE/PRIMER AND WATERSTOP PLACED TIGHT TO VERTICAL REINFORCING AND CONTINUOUS THROUGH ALL PARTS OF POOL PERIMETER
7 BEAM (BEYOND)
8 COLD JOINT

9 SPA HANDRAIL AND STEP STRUCTURE (36" DEPTH)
1" = 1'-0"



GENERAL DETAIL NOTES

SEE SPA BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

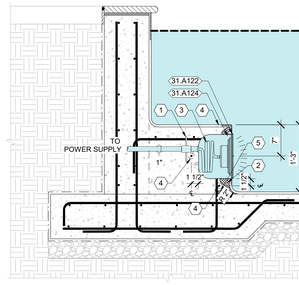
SCHEDULE KEYNOTES

08.032 SKIMMER
08.A437 6" ROUND SUMPLESS OUTLET COVER (VGB APPROVED)

DETAIL KEYNOTES

1 SHIFT TYPICAL BEAM BARS OVER TO CLEAR SKIMMER AS SHOWN
2 HYDRAULIC CEMENT
3 WATERSTOP FITTING
4 BEAM (BEYOND)
5 SKIMMER LID - CUSTOM COLOR TO MATCH COPING FINISH

6 SPA SKIMMER
1" = 1'-0"



GENERAL DETAIL NOTES

SEE SPA BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

UNDERWATER LIGHT CONDUIT MUST BE WATER-TIGHT

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

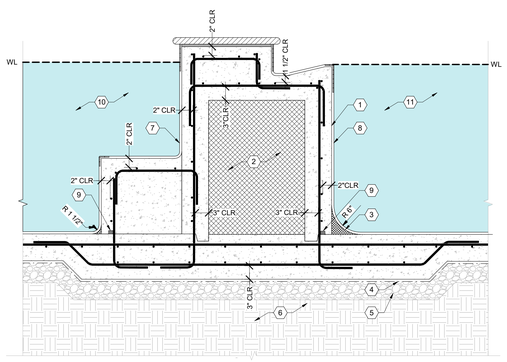
SCHEDULE KEYNOTES

31.A122 BLUE MAR NOVA - BRIGHT WHITE
31.A124 NICHE FOR SPA LIGHT

DETAIL KEYNOTES

1 WATERSTOP FITTING
2 HYDRAULIC CEMENT
3 COIL THE UNDERWATER LIGHT CORD AROUND THE LIGHT FIXTURE TO ALLOW MAINTENANCE FOR THE LED LAMP REPLACEMENT
4 ADD (3) #4X5'-4"LG HORIZONTAL BARS CENTERED ON LIGHT
5 NON-SWELLING SIKA/GREENSTREAK LOCKSTOP ADHESIVE/PRIMER AND WATERSTOP PLACED TIGHT TO VERTICAL REINFORCING AND CONTINUOUS THROUGH ALL PARTS OF POOL PERIMETER

2 SPA UNDERWATER LED LIGHT
1" = 1'-0"



GENERAL DETAIL NOTES

MECHANICAL BONDABLE CONCRETE SURFACE PROFILE (CSP) RANGING FROM A MINIMUM CSP 5 TO A MAXIMUM CSP 9 REQUIRED ON ALL CONCRETE SUBSTRATE SURFACES PRIOR TO THE APPLICATION OF ANY FINISHES.

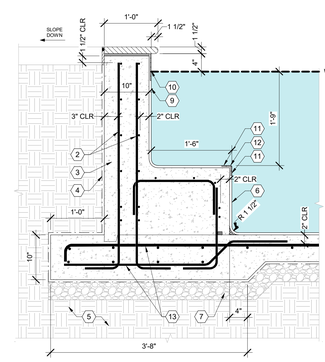
THE WATERPROOF CONCRETE STRUCTURE SHALL EXTEND A MINIMUM OF 3" ABOVE THE POOL WATER LEVEL

REFER TO SPA WALL BEAM STRUCTURE DETAIL, OPEN GUTTER WALL BEAM STRUCTURE DETAIL & FLOOR/ WALL JUNCTION DETAIL FOR CONCRETE DIMENSIONS, REINFORCING REQUIREMENTS, AND ADDITIONAL INFORMATION

DETAIL KEYNOTES

1 WATERPROOF STRUCTURE (SEE GENERAL NOTES AND SPECIFICATIONS FOR CONCRETE MIX REQUIREMENTS)
2 EXPANDED POLYSTYRENE RIGID INSULATION VOID FORMERS (GEOFOAM EPS 15 OR BETTER)
3 TROWEL-GRADE MORTAR
4 VAPOR BARRIER (SEE SPECIFICATIONS)
5 CRUSHED ROCK / STONE
6 WELL COMPACTED DRAINABLE SOIL (SEE GEOTECHNICAL ENGINEERING REPORT)
7 INTERIOR SPA SURFACE
8 INTERIOR ACTIVITY POOL SURFACE
9 NON-SWELLING SIKA/GREENSTREAK LOCKSTOP ADHESIVE/PRIMER AND WATERSTOP PLACED TIGHT TO VERTICAL REINFORCING AND CONTINUOUS THROUGH ALL PARTS OF POOL PERIMETER
10 SPA
11 ACTIVITY POOL

5 SPA / ACTIVITY POOL SHARED WALL BEAM STRUCTURE
1" = 1'-0"



GENERAL DETAIL NOTES

THE WATERPROOF CONCRETE STRUCTURE SHALL EXTEND A MINIMUM OF 3" ABOVE THE POOL WATER LEVEL

SEE FLOOR / WALL JUNCTION & PILE DETAIL FOR ADDITIONAL STRUCTURAL INFORMATION.

MECHANICAL BONDABLE CONCRETE SURFACE PROFILE (CSP) RANGING FROM A MINIMUM CSP 5 TO A MAXIMUM CSP 9 REQUIRED ON ALL CONCRETE SUBSTRATE SURFACES PRIOR TO THE APPLICATION OF ANY FINISHES.

DETAIL KEYNOTES

1 ISOLATION JOINT (SEE SEPARATE DETAIL)
2 WALL REINFORCING STEEL: #4 @ 8" OCEW WITH 12 BAR DIAMETER 90° HOOKS AND 48 BAR DIAMETER LAP SPLICES
3 WATERPROOF STRUCTURE (SEE GENERAL NOTES AND SPECIFICATIONS FOR CONCRETE MIX REQUIREMENTS)
4 VAPOR BARRIER (SEE SPECIFICATIONS)
5 WELL COMPACTED DRAINABLE SOIL (SEE GEOTECHNICAL ENGINEERING REPORT)
6 TROWEL-GRADE MORTAR
7 CRUSHED ROCK / STONE
8 EPOXY-BASED COPING MOTAR MIX TO LEVEL BEAM BELOW COPING - REFER TO SPECIFICATIONS
9 INTERIOR SPA SURFACE
10 WATER LINE TILES
11 CONTRASTING 1x1 NON-SLIP TILE
12 CONTRASTING 1x1 NON-SLIP BULLNOSE TILE
13 FLOOR REINFORCING STEEL #5 @ 10" OCEW TOP & BOTTOM

1 SPA BEAM STRUCTURE AND BENCH EDGE TILES
1" = 1'-0"

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

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NO.	DESCRIPTION
1	2026-01-30 ISSUE FOR 100% DESIGN DEVELOPMENT
2	2026-04-17 CD PROGRESS SET

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JOB No.: WESTCIT00561

SHEET TITLE

DETAILS (SPA)

SHEET NUMBER

AQ-510

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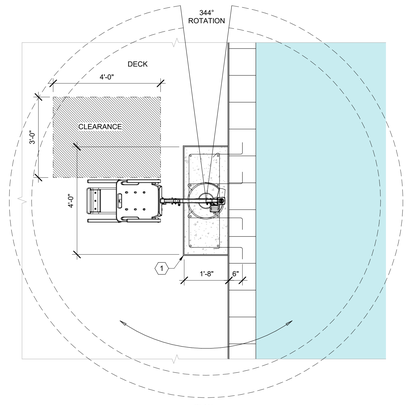

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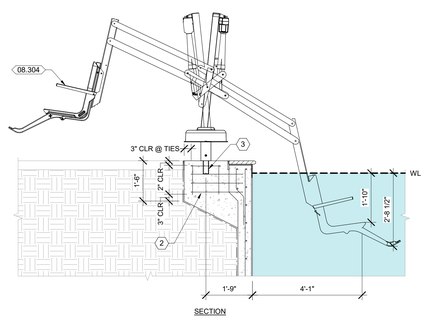


SECTION

2 SPA ACCESSIBLE LIFT UNIT ASSEMBLY

1/2" = 1'-0"

GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

SCHEDULE KEYNOTES

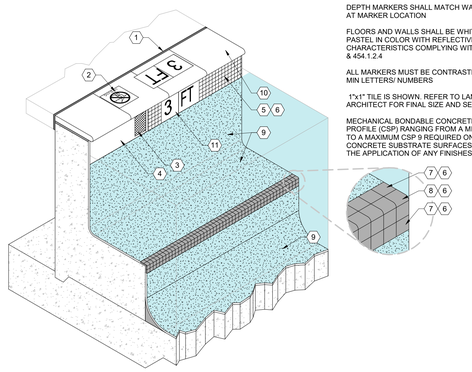
08.304 ACCESSIBLE LIFT UNIT

DETAIL KEYNOTES

1 ISOLATION JOINTS (SEE SEPARATE DETAIL)

2 CONCRETE ANCHOR REINFORCED W/ (8) #6 VERT AND #3 TIES @ 4" OC. HOOK ALL TIES, EXCEPT FOR THE UPPERMOST ONE, 6" DEEP INTO BEAM AND CAST MONOLITHICALLY WITH BEAM OR FIELD CUT HOOKS OFF AND EPOXY TIES 4 1/2" DEEP INTO ALREADY CAST BEAM.

3 SST ANCHOR SOCKET



GENERAL DETAIL NOTES

DEPTH MARKERS SHALL MATCH WATER DEPTH AT MARKER LOCATION

FLOORS AND WALLS SHALL BE WHITE OR PASTEL IN COLOR WITH REFLECTIVE CHARACTERISTICS COMPLYING WITH 454.1.2.1(A) & 454.1.2.4

ALL MARKERS MUST BE CONTRASTING 4" HIGH MIN LETTERS/ NUMBERS

1"x1" TILE IS SHOWN. REFER TO LANDSCAPE ARCHITECT FOR FINAL SIZE AND SELECTION

MECHANICAL BONDABLE CONCRETE SURFACE PROFILE (CSP) RANGING FROM A MINIMUM CSP 5 TO A MAXIMUM CSP 9 REQUIRED ON ALL CONCRETE SUBSTRATE SURFACES PRIOR TO THE APPLICATION OF ANY FINISHES.

DETAIL KEYNOTES

1 ISOLATION JOINT

2 IMPERVIOUS, NON-SLIP, & TEXTURED 6"X6" TILE NO DIVING MARKER (4" SYMBOL) MOUNTED FLUSH WITH ADJACENT FINISHES

3 TILE ADHESIVE

4 BOND COAT

5 WATERLINE GLAZED 1"x1" MINIMUM TILE, 12" MAX HEIGHT IF DARK COLOR IS SELECTED

6 TILE GROUT - EPOXY

7 CONTRASTING 1"x1" MINIMUM NON-SLIP TILE

8 CONTRASTING 1"x1" MINIMUM NON-SLIP BULLNOSE TILE

9 WHITE OR LIGHT PASTEL INTERIOR FINISH NON-SLIP (MAXIMUM THICKNESS PER MANUFACTURER REQUIREMENTS)

10 NON-SLIP PRECAST COPING

11 VERTICAL DEPTH MARKERS MOUNTED FLUSH WITH ADJACENT FINISHES

12 IMPERVIOUS, NON-SLIP & TEXTURED HORIZONTAL DEPTH MARKERS MOUNTED FLUSH WITH ADJACENT FINISHES

1 SPA BEAM TILE AND MARKERS 12"

1" = 1'-0"

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West Memphis, AR 72301

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ST HWY 191/I-40 SERV, West Memphis, AR 72301

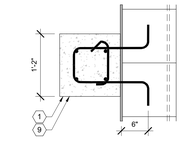
JOB No.: WESTCIT00561

SHEET TITLE

DETAILS (SPA)

SHEET NUMBER

AQ-511



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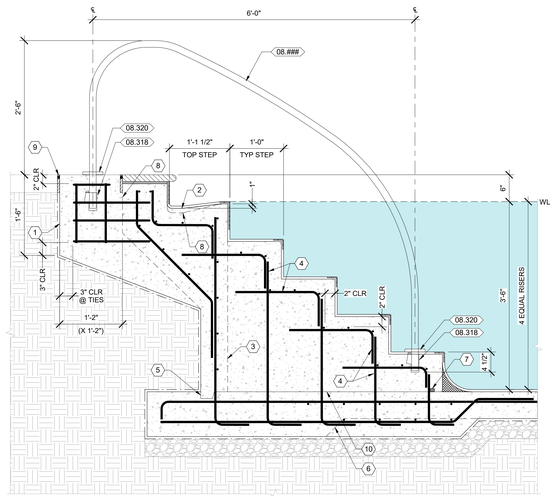


GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE & FLOOR/WALL JUNCTION STRUCTURE FOR ADDITIONAL INFORMATION

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

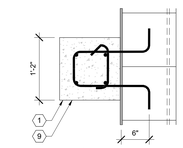
SCHEDULE KEYNOTES

08.318	4" STAINLESS STEEL ANCHOR
08.320	ESCUTCHEON PLATE
08.428	1.5" OD CUSTOM ROLLED HANDRAIL

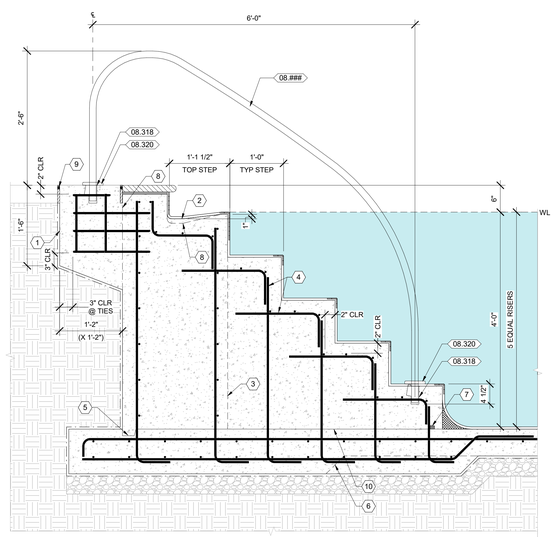
DETAIL KEYNOTES

1. CONCRETE RAIL ANCHOR REINFORCED W/ (4) #6 VERT AND #3 TIES @ 4" OC. HOOK TIES 6" DEEP INTO BEAM AND CAST MONOLITHICALLY WITH BEAM OR FIELD CUT HOOKS OFF AND EPOXY TIES 4 1/2" DEEP INTO ALREADY CAST BEAM.
2. REDUCE DEPTH OF GUTTER TO 1" AT STEP AREAS
3. WALL (BEYOND)
4. PROVIDE ADDITIONAL BARS OF SAME SIZE AND SPACING AS POOL BEAM STRUCTURE DETAIL
5. 1.5" X 3" CONTINUOUS KEYWAY
6. FLOOR (BEYOND)
7. NON-SWELLING SIKA/GREENSTREAK LOCKSTOP ADHESIVE/PRIMER AND WATERSTOP PLACED TIGHT TO VERTICAL REINFORCING, AND CONTINUOUS THROUGH ALL PARTS OF POOL PERIMETER
8. BEAM (BEYOND)
9. PLACE VISQUEEN ON TOP OF CONCRETE RAIL ANCHOR TO PREVENT DECK FROM BONDING
10. COLD JOINT

6 LAP POOL HANDRAIL AND STEP STRUCTURE (3'-6" DEPTH WITH CONCRETE DECK)
1" = 1'-0"



PLAN



GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE & FLOOR/WALL JUNCTION STRUCTURE FOR ADDITIONAL INFROMATION

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

SCHEDULE KEYNOTES

08.318	4" STAINLESS STEEL ANCHOR
08.320	ESCUTCHEON PLATE
08.456	1.5" OD CUSTOM ROLLED HANDRAIL

DETAIL KEYNOTES

1. CONCRETE RAIL ANCHOR REINFORCED W/ (4) #6 VERT AND #3 TIES @ 4" OC. HOOK TIES 6" DEEP INTO BEAM AND CAST MONOLITHICALLY WITH BEAM OR FIELD CUT HOOKS OFF AND EPOXY TIES 4 1/2" DEEP INTO ALREADY CAST BEAM.
2. REDUCE DEPTH OF GUTTER TO 1" AT STEP AREAS
3. WALL (BEYOND)
4. PROVIDE ADDITIONAL BARS OF SAME SIZE AND SPACING AS POOL BEAM STRUCTURE DETAIL
5. 1.5" X 3" CONTINUOUS KEYWAY
6. FLOOR (BEYOND)
7. NON-SWELLING SIKA/GREENSTREAK LOCKSTOP ADHESIVE/PRIMER AND WATERSTOP PLACED TIGHT TO VERTICAL REINFORCING, AND CONTINUOUS THROUGH ALL PARTS OF POOL PERIMETER
8. BEAM (BEYOND)
9. PLACE VISQUEEN ON TOP OF CONCRETE RAIL ANCHOR TO PREVENT DECK FROM BONDING
10. COLD JOINT

5 LAP POOL HANDRAIL AND STEP STRUCTURE (4'-0" DEPTH WITH CONCRETE DECK)
1" = 1'-0"

GENERAL DETAIL NOTES

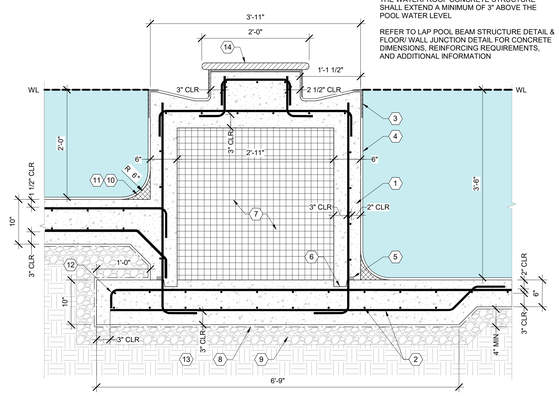
MECHANICAL BONDABLE CONCRETE SURFACE PROFILE (CSP) RANGING FROM A MINIMUM CSP 5 TO A MAXIMUM CSP 9 REQUIRED ON ALL CONCRETE SUBSTRATE SURFACES PRIOR TO THE APPLICATION OF ANY FINISHES.

THE WATERPROOF CONCRETE STRUCTURE SHALL EXTEND A MINIMUM OF 3" ABOVE THE POOL WATER LEVEL

REFER TO LAP POOL BEAM STRUCTURE DETAIL & FLOOR/ WALL JUNCTION DETAIL FOR CONCRETE DIMENSIONS, REINFORCING REQUIREMENTS, AND ADDITIONAL INFORMATION

DETAIL KEYNOTES

1. WATER PROOF STRUCTURE (SEE GENERAL NOTES AND SPECIFICATIONS FOR CONCRETE MIX REQUIREMENTS)
2. REINFORCING STEEL: SEE FLOOR/WALL JUNCTION STRUCTURE DETAIL FOR REBAR SIZE AND SPACING. PROVIDE 12 BAR DIAMETER 90° HOOKS, 24 BAR DIAMETER 135° HOOKS, AND 48 BAR DIAMETER LAP SPLICES
3. WATERLINE TILES
4. INTERIOR POOL SURFACE
5. NON-SWELLING LOCKSTOP WATERSTOP BY GREENSTREAK/SIKA. PLACE TIGHT TO THE WATER SIDE OF THE VERTICAL REINFORCING BARS
6. 1.5" X 3" CONTINUOUS KEYWAY
7. EXPANDED POLYSTYRENE RIGID INSULATION VOID FORMERS (GEOFOAM EPS 15 OR BETTER)
8. VAPOR BARRIER
9. CRUSHED ROCK / STONE
10. SIKA TOP 122 PLUS TROWEL GRADE MORTAR
11. MORTAR BONDING AGENT
12. ROTATE HOOK FROM PLUMB TO MAINTAIN 3" CLEAR TO BOTTOM OF CONCRETE
13. WELL COMPACTED SOIL (PER GEOTECHNICAL ENGINEER'S REPORT)
14. PRECAST COPING SET WITH EPOXY-BASED COPING MORTAR MIX TO LEVEL BEAM BELOW COPING - REFER TO SPECIFICATIONS



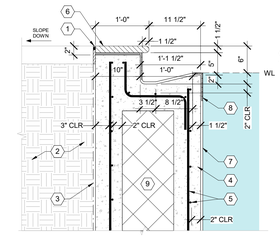
4 LAP POOL FINGERWALL STRUCTURE
1" = 1'-0"

GENERAL DETAIL NOTES

MECHANICAL BONDABLE CONCRETE SURFACE PROFILE (CSP) RANGING FROM A MINIMUM CSP 5 TO A MAXIMUM CSP 9 REQUIRED ON ALL CONCRETE SUBSTRATE SURFACES PRIOR TO THE APPLICATION OF ANY FINISHES.

DETAIL KEYNOTES

1. ISOLATION JOINT (SEE SEPARATE DETAIL)
2. WELL COMPACTED DRAINABLE SOIL (SEE GEOTECHNICAL ENGINEERING REPORT)
3. VAPOR BARRIER (SEE SPECIFICATIONS)
4. WATERPROOF STRUCTURE (SEE GENERAL NOTES AND SPECIFICATIONS FOR CONCRETE MIX REQUIREMENTS)
5. REINFORCING STEEL: SEE FLOOR/WALL JUNCTION STRUCTURE DETAIL FOR REBAR SIZE AND SPACING. PROVIDE 12 BAR DIAMETER 90° HOOKS, 24 BAR DIAMETER 135° HOOKS, AND 48 BAR DIAMETER LAP SPLICES
6. PRECAST COPING SET WITH EPOXY-BASED COPING MORTAR MIX TO LEVEL BEAM BELOW COPING - REFER TO SPECIFICATIONS
7. INTERIOR POOL SURFACE
8. WATER LINE TILES
9. STRUCTURAL FOAM



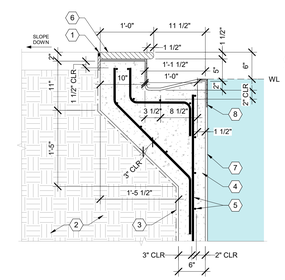
3 LAP POOL BEAM STRUCTURE AT ADA RAMP
1" = 1'-0"

GENERAL DETAIL NOTES

MECHANICAL BONDABLE CONCRETE SURFACE PROFILE (CSP) RANGING FROM A MINIMUM CSP 5 TO A MAXIMUM CSP 9 REQUIRED ON ALL CONCRETE SUBSTRATE SURFACES PRIOR TO THE APPLICATION OF ANY FINISHES.

DETAIL KEYNOTES

1. ISOLATION JOINT (SEE SEPARATE DETAIL)
2. WELL COMPACTED DRAINABLE SOIL (SEE GEOTECHNICAL ENGINEERING REPORT)
3. VAPOR BARRIER (SEE SPECIFICATIONS)
4. WATERPROOF STRUCTURE (SEE GENERAL NOTES AND SPECIFICATIONS FOR CONCRETE MIX REQUIREMENTS)
5. REINFORCING STEEL: SEE FLOOR/WALL JUNCTION STRUCTURE DETAIL FOR REBAR SIZE AND SPACING. PROVIDE 12 BAR DIAMETER 90° HOOKS, 24 BAR DIAMETER 135° HOOKS, AND 48 BAR DIAMETER LAP SPLICES
6. PRECAST COPING SET WITH EPOXY-BASED COPING MORTAR MIX TO LEVEL BEAM BELOW COPING - REFER TO SPECIFICATIONS
7. INTERIOR POOL SURFACE
8. WATER LINE TILES



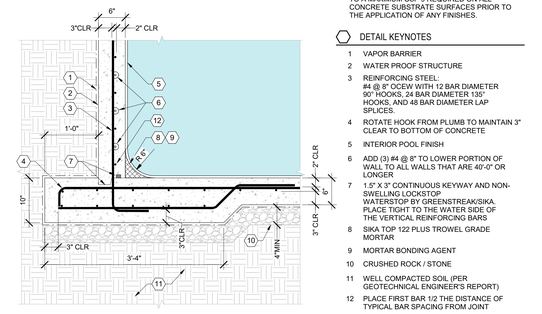
2 LAP POOL BEAM STRUCTURE
1" = 1'-0"

GENERAL DETAIL NOTES

MECHANICAL BONDABLE CONCRETE SURFACE PROFILE (CSP) RANGING FROM A MINIMUM CSP 5 TO A MAXIMUM CSP 9 REQUIRED ON ALL CONCRETE SUBSTRATE SURFACES PRIOR TO THE APPLICATION OF ANY FINISHES.

DETAIL KEYNOTES

1. VAPOR BARRIER
2. WATER PROOF STRUCTURE
3. REINFORCING STEEL: #4 @ 8" OCEW WITH 12 BAR DIAMETER 90° HOOKS, 24 BAR DIAMETER 135° HOOKS, AND 48 BAR DIAMETER LAP SPLICES.
4. ROTATE HOOK FROM PLUMB TO MAINTAIN 3" CLEAR TO BOTTOM OF CONCRETE
5. INTERIOR POOL FINISH
6. ADD (3) #4 @ 8" TO LOWER PORTION OF WALL TO ALL WALLS THAT ARE 40'-0" OR LONGER
7. 1.5" X 3" CONTINUOUS KEYWAY AND NON-SWELLING LOCKSTOP WATERSTOP BY GREENSTREAK/SIKA. PLACE TIGHT TO THE WATER SIDE OF THE VERTICAL REINFORCING BARS
8. SIKA TOP 122 PLUS TROWEL GRADE MORTAR
9. MORTAR BONDING AGENT
10. CRUSHED ROCK / STONE
11. WELL COMPACTED SOIL (PER GEOTECHNICAL ENGINEER'S REPORT)
12. PLACE FIRST BAR 1/2 THE DISTANCE OF TYPICAL BAR SPACING FROM JOINT



1 LAP POOL FLOOR/WALL JUNCTION STRUCTURE
1" = 1'-0"

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
1	2020-04-30	ISSUE FOR 100% DESIGN DEVELOPMENT
	2020-04-17	CD PROGRESS SET

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JOB No.: WESTCIT00561

SHEET TITLE

DETAILS (LAP POOL)

SHEET NUMBER

AQ-520

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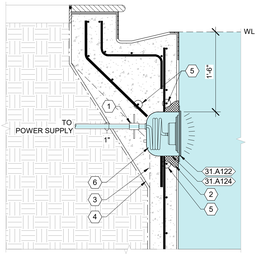


GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

UNDERWATER LIGHT CONDUIT MUST BE WATER-TIGHT

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

SCHEDULE KEYNOTES

31.A122 UNDERWATER POOL LIGHT - WHITE LED

31.A124 NICHE FOR POOL LIGHT

DETAIL KEYNOTES

1 WATERSTOP FITTING

2 HYDRAULIC CEMENT

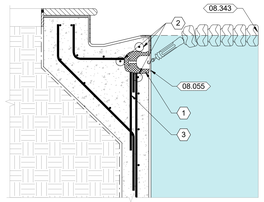
3 BEAM (BEYOND)

4 INCREASE BEAM THICKNESS AT BACK OF EACH LIGHT TO PROVIDE MINIMUM 3" CONCRETE COVER

5 ADD (3) #4X5'-4"LG HORIZONTAL BARS CENTERED ON LIGHT

6 EXCESS LIGHTING ELECTRICAL CABLE INSIDE NICHE TO ALLOW LAMP TO BE SERVICED ABOVE THE WATER LEVEL

6 LAP POOL UNDERWATER LED LIGHT (BMB BRIGHT WHITE)
1" = 1'-0"



GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

LANE DIVIDERS MUST BE REMOVED FROM POOL WHEN POOL IS OPEN FOR GENERAL USE

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

SCHEDULE KEYNOTES

08.055 STAINLESS STEEL CUP ANCHOR WITH CROSS BAR

08.343 4.75" X 75' RACING LANE KIT

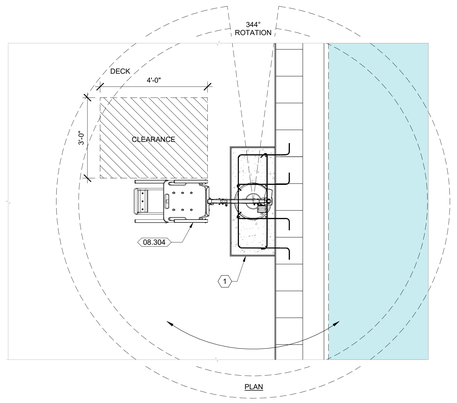
DETAIL KEYNOTES

1 HYDRAULIC CEMENT

2 ADD (3) #4X1'-0" LONG HORIZONTAL BARS CENTERED ON ANCHOR

3 ADD #4 VERTICAL BAR EACH SIDE OF CUP ANCHOR

5 LAP POOL CUP ANCHOR AND RACING LANE
1" = 1'-0"



GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

SCHEDULE KEYNOTES

08.304 ACCESSIBLE LIFT UNIT

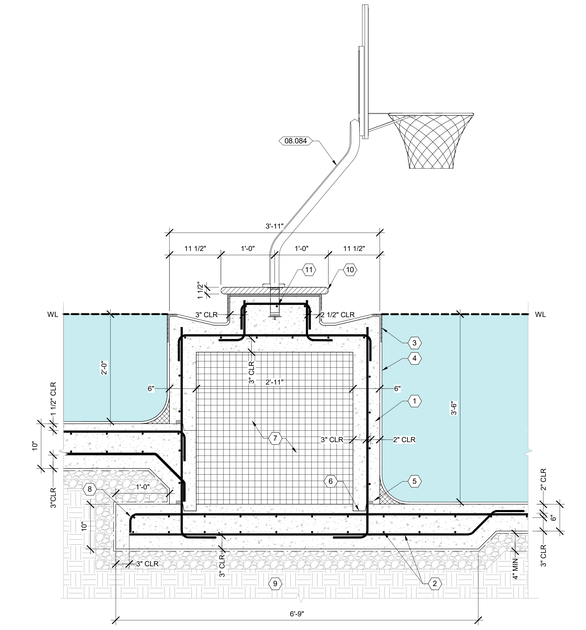
DETAIL KEYNOTES

1 ISOLATION JOINTS (SEE SEPARATE DETAIL)

2 CONCRETE ANCHOR REINFORCED W/ (8) #6 VERT AND #3 TIES @ 4" OC. HOOK ALL TIES, EXCEPT FOR THE UPPERMOST ONE, 6" DEEP INTO BEAM AND CAST MONOLITHICALLY WITH BEAM OR FIELD CUT HOOKS OFF AND EPOXY TIES 4 1/2" DEEP INTO ALREADY CAST BEAM.

3 SST ANCHOR SOCKET

3 LAP POOL ACCESSIBLE LIFT UNIT ASSEMBLY
1/2" = 1'-0"



GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE & FLOOR / WALL JUNCTION STRUCTURE DETAILS FOR ADDITIONAL INFORMATION

EQUIPMENT THAT IS MANUFACTURED MUST BE GROUNDED / BONDED IN THE COMPLIANCE WITH THE NEC.

REFER TO MANUFACTURER AND SHOP DRAWINGS FOR INSTALLATION REQUIREMNETS

FEATURE SHALL BE PLACED ON UNCRACKED CONCRETE

SCHEDULE KEYNOTES

08.084 3 UNIT BASKETBALL HOOP

DETAIL KEYNOTES

1 WATER PROOF STRUCTURE (SEE GENERAL NOTES AND SPECIFICATIONS FOR CONCRETE MIX REQUIREMENTS)

2 REINFORCING STEEL: SEE FLOOR/WALL JUNCTION STRUCTURE DETAIL FOR REBAR SIZE AND SPACING. PROVIDE 12 BAR DIAMETER 90° HOOKS, 24 BAR DIAMETER 135° HOOKS, AND 48 BAR DIAMETER LAP SPLICES

3 WATERLINE TILES

4 INTERIOR POOL SURFACE

5 NON-SWELLING LOCKSTOP WATERSTOP BY GREENSTREAK/SIKA. PLACE TIGHT TO THE WATER SIDE OF THE VERTICAL REINFORCING BARS

6 1.5" X 3" CONTINUOUS KEYWAY

7 STRUCTURAL FOAM

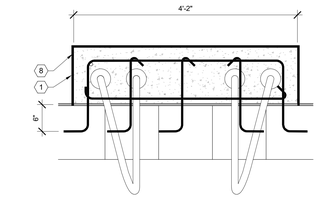
8 ROTATE HOOK FROM PLUMB TO MAINTAIN 3" CLEAR TO BOTTOM OF CONCRETE

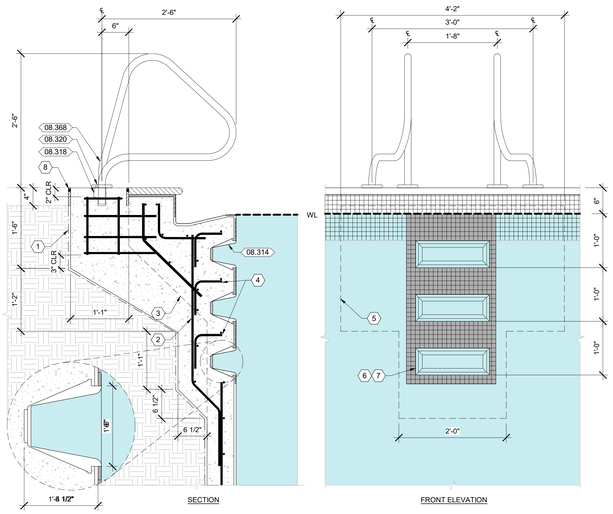
9 WELL COMPACTED SOIL (PER GEOTECHNICAL ENGINEER'S REPORT)

10 PRECAST COPING SET WITH EPOXY-BASED COPING MORTAR MIX TO LEVEL BEAM BELOW COPING - REFER TO SPECIFICATIONS

11 PLASTIC ANCHORS WITH CAPS AND ESCUTCHEONS

4 LAP POOL BASKETBALL HOOP AT FINGERWALL STRUCTURE
1" = 1'-0"





GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

SCHEDULE KEYNOTES

08.314 NON-SLIP INSET STEPS

08.318 4" STAINLESS STEEL ANCHOR

08.320 ESCUTCHEON PLATE

08.368 PRETZEL RAIL - 30"

DETAIL KEYNOTES

1 CONCRETE RAIL ANCHOR CENTERED ON GRAB RAIL. REINFORCED W/ (10) #6 VERT AND #3 TIES @ 4" OC. HOOK TIES 6" DEEP INTO BEAM AND CAST MONOLITHICALLY WITH BEAM, OR FIELD CUT HOOKS OFF AND EPOXY TIES 4 1/2" DEEP INTO ALREADY CAST BEAM.

2 THICKEN WALL AND SHIFT REINFORCING FOR DISTANCE OF 2'-0" CENTERED ON INSET STEPS

3 BEAM (BEYOND)

4 PROVIDE ADDITIONAL BARS OF SAME SIZE AND SPACING AS TYPICAL BEAM BARS AND FIELD CUT TYPICAL BEAM BARS 2" CLEAR FROM INSET STEPS

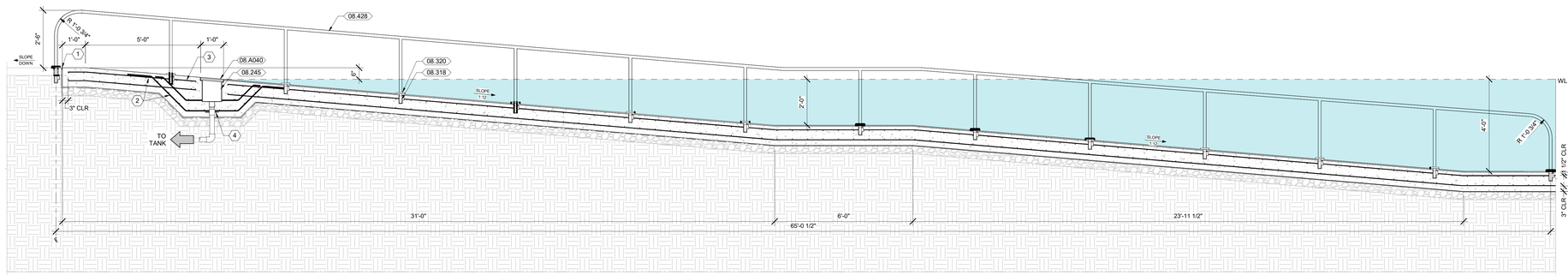
5 GRAB RAIL CONCRETE ANCHOR (BEYOND) 4'-2" x 1'-1" x 1'-3" AND THICKENED WALL (BEYOND)

6 TILE GROUT - EPOXY

7 CONTRASTING 1"x1" MINIMUM NON-SLIP TILE

8 ISOLATION JOINT

2 LAP POOL GRAB RAIL AND INSET STEPS AT CONCRETE DECK
1" = 1'-0"



GENERAL DETAIL NOTES

SEE POOL FLOOR/WALL JUNCTION STRUCTURE DETAIL FOR ADDITIONAL INFORMATION

SCHEDULE KEYNOTES

08.245 ZERO ENTRY WATERPROOF FIBERGLASS GUTTER

08.318 4" STAINLESS STEEL ANCHOR

08.320 ESCUTCHEON PLATE

08.245 ZERO ENTRY WATERPROOF FIBERGLASS GUTTER

08.A040 DALDORADO PARALLEL GRATING

08.428 1.5" OD CUSTOM ROLLED HANDRAIL

DETAIL KEYNOTES

1 ISOLATION JOINT (SEE SEPARATE DETAIL)

2 REINFORCING STEEL OF SAME SIZE AND SPACING AS TYPICAL FLOOR BARS

3 TERMINATE BARS 2" CLEAR OF DRAIN

4 WATERSTOP FITTING

1 LAP POOL ZERO - ENTRY ADA RAMP AND RAILING
1/2" = 1'-0"

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West Memphis, AR 72301

DRAWING ISSUE

no.	DATE	DESCRIPTION
	2026-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
	2026-04-17	CD PROGRESS SET

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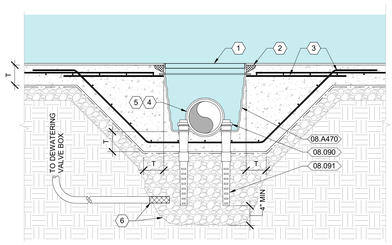
JOB No.: WESTCIT00561

SHEET TITLE

DETAILS (LAP POOL)

SHEET NUMBER

AQ-521



GENERAL DETAIL NOTES

T = FLOOR STRUCTURE THICKNESS

SCHEDULE KEYNOTES

08.A470	MAIN DRAIN - 24"x24"x21" (WHITE) SCH 80, 10" PORT
08.090	HYDROSTATIC RELIEF VALVE - MAIN DRAIN
08.091	HYDROSTATIC RELIEF VALVE - COLLECTOR TUBE

DETAIL KEYNOTES

1 VGB COMPLIANT SUMP & GRATE

2 HYDRAULIC CEMENT

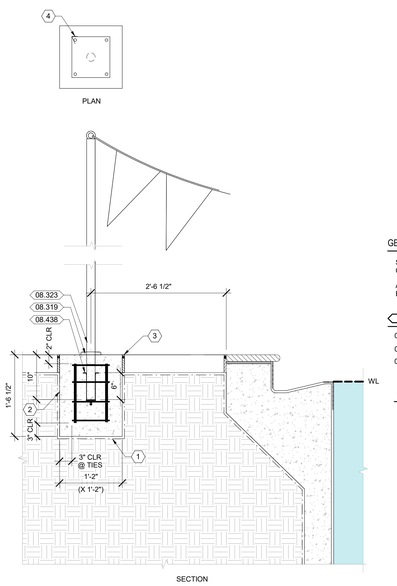
3 SEE STRUCTURAL DETAILS FOR FLOOR REINFORCING AND ADD BARS AT REINTRANT CORNERS OF DRAINS. ALSO PROVIDE ADD BARS WITH 24 BAR DIAMETER 135 DEGREE HOOKS BELOW DRAIN AS SHOWN AT SAME SIZE AND SPACING AS FLOOR REINFORCING.

4 DRAIN ASSEMBLY PIPING TO TANK

5 BLANKING DISK - TO BE REMOVED POST PRESSURE TESTING

6 DEWATERING PIPE AND ROCK BED

5 24X24 DRAIN SUMP ASSEMBLY
3/4" = 1'-0"



GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

SCHEDULE KEYNOTES

08.319	ESCUTCHEON PLATE - 1.90"
08.323	96" STANCHION WITH TOP RING
08.438	STANCHION SOCKET ANCHOR (AS-100D / 1.9" OD x 6" DEPTH)

DETAIL KEYNOTES

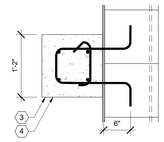
1 CONCRETE RAIL ANCHOR REINFORCED W/ (4) #6 VERT AND #3 TIES @ 4" OC. HOOK TIES 6" DEEP INTO BEAM AND CAST MONOLITHICALLY WITH BEAM OR FIELD CUT HOOKS OFF AND EPOXY TIES 4 1/2" DEEP INTO ALREADY CAST BEAM.

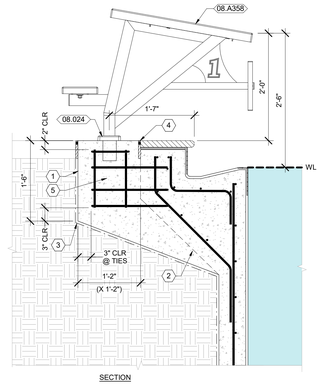
2 PLACE VISQUEEN ON TOP OF CONCRETE RAIL ANCHOR TO PREVENT DECK FROM BONDING AND WRAP RAIL WITH COMPRESSIBLE MATERIAL SO DECK IS NOT RESTRAINED FROM SHRINKING

3 ISOLATION JOINT

4 WRAP TIES AROUND THE VERTICAL BARS IN THE STANCHION FOUNDATION

4 LAP POOL - FLAG STANCHION AT CONCRETE DECK
1" = 1'-0"





GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

REFER TO POOL PLAN VIEW FOR SIDE MOUNT ORIENTATION

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

SCHEDULE KEYNOTES

08.024	ROCK SOLID ANCHOR AND CAP
08.A358	MID STARTING PLATFORM

DETAIL KEYNOTES

1 CONCRETE RAIL ANCHOR REINFORCED W/ (4) #6 VERT AND #3 TIES @ 4" OC.. HOOK TIES 5" DEEP INTO BEAM AND CAST MONOLITHICALLY WITH BEAM OR FIELD CUT HOOKS OFF AND EPOXY TIES 4 1/2" DEEP INTO ALREADY CAST BEAM.

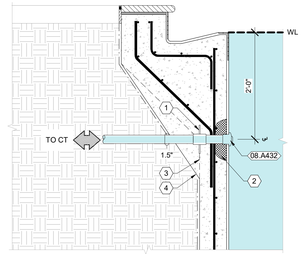
2 BEAM (BEYOND)

3 ISOLATION JOINTS. CONTINUOUS AROUND ANCHOR.

4 ISOLATION JOINT

5 PROVIDE OPTIONAL BRONZE ANCHORS WITH VOLLEYBALL UPRIGHTS

3 LAP POOL - STARTING PLATFORM
1" = 1'-0"



GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

SCHEDULE KEYNOTES

08.A432	WALL FITTING W/ GRATE INSERT ASSEMBLY

DETAIL KEYNOTES

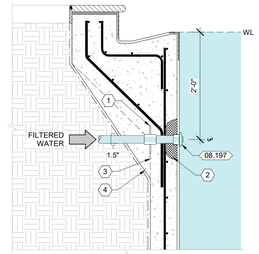
1 WATERSTOP FITTING

2 HYDRAULIC CEMENT

3 BEAM (BEYOND)

4 INCREASE BEAM THICKNESS AT BACK OF EACH INLET TO PROVIDE MINIMUM 3" CONCRETE COVER

2 LAP POOL STATIC EQUALIZER PIPING
1" = 1'-0"



GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

SCHEDULE KEYNOTES

08.197	WALL INLET FITTING

DETAIL KEYNOTES

1 WATERSTOP FITTING

2 HYDRAULIC CEMENT

3 BEAM (BEYOND)

4 INCREASE BEAM THICKNESS AT BACK OF EACH INLET TO PROVIDE MINIMUM 3" CONCRETE COVER

1 LAP POOL WALL INLET
1" = 1'-0"

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
1	2026-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
2	2026-04-17	CD PROGRESS SET

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RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

DETAILS (LAP POOL)

SHEET NUMBER

AQ-522

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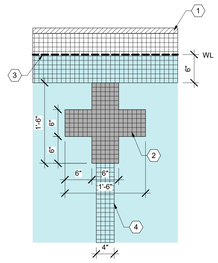


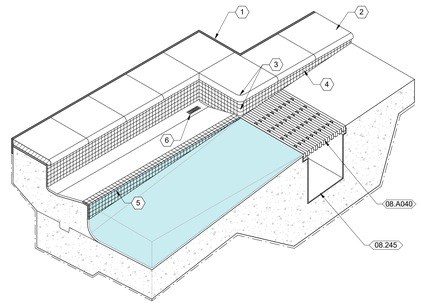
GENERAL DETAIL NOTES

LANE MARKING SUBMITTAL REQUIRED TO CONFIRM ALL SIZING SPACING , TEXTURES, AND COLOR SELECTIONS OVERLAID SHOWING ALL MARKINGS IN A SINGLE PLAN.

DETAIL KEYNOTES

1 COPING
2 CONTRASTING 1"x1" MINIMUM NON-SLIP TILE
3 WATERLINE GLAZED 1"x1" MINIMUM TILE, 12" MAX HEIGHT IF DARK COLOR IS SELECTED
4 WHITE TILES, SLIP-RESISTANT, TO CONNECT TO THE FLOOR LOCATED TARGETS

7 LANE TARGET - LAP POOL
1" = 1'-0"



GENERAL DETAIL NOTES

SEE POOL FLOOR/WALL JUNCTION STRUCTURE DETAIL FOR ADDITIONAL INFORMATION

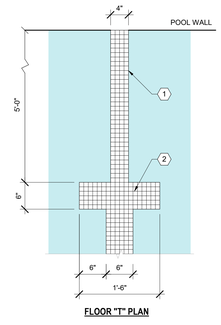
SCHEDULE KEYNOTES

08.245 ZERO ENTRY WATERPROOF FIBERGLASS GUTTER
08.A040 DALDORADO PARALLEL GRATING

DETAIL KEYNOTES

1 ISOLATION JOINT (SEE SEPARATE DETAIL)
2 NON-SLIP UNIT PAVERS SET WITH ADHESIVE AND EPOXY TILE GROUT
3 2" MINIMUM RADIUS ON ALL PROTRUDING CORNERS OF WALLS, AND COPING
4 TILE GROUT - EPOXY
5 CONTRASTING 1"x1" MINIMUM NON-SLIP TILE (BULLNOSE TRIM ON EDGES - BOTH SIDES)
6 10' MAXIMUM DISTANCE BETWEEN GUTTERS

4 LAP POOL OPEN GUTTER ZERO ENTRY TRANSITION
1" = 1'-0"



FLOOR "T" PLAN

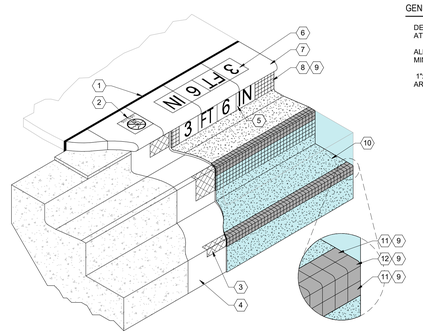
GENERAL DETAIL NOTES

LANE MARKING SUBMITTAL REQUIRED TO CONFIRM ALL SIZING SPACING, TEXTURES, AND COLOR SELECTIONS OVERLAID SHOWING ALL MARKINGS IN A SINGLE PLAN.

DETAIL KEYNOTES

1 WHITE TILES (2" X 2"), SLIP-RESISTANT, TO CONNECT TO THE FLOOR LOCATED TARGETS
2 CONTRASTING 1x1 NON-SLIP TILE

6 LAP POOL COMPETITIVE SWIM LANE FLOOR "T" AND WALL TARGET
1" = 1'-0"



GENERAL DETAIL NOTES

DEPTH MARKERS SHALL MATCH WATER DEPTH AT MARKER LOCATION

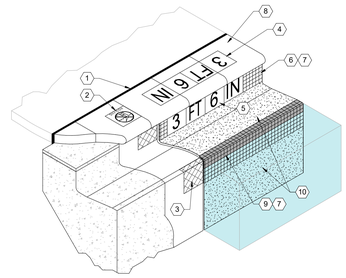
ALL MARKERS MUST BE CONTRASTING 4" HIGH MIN LETTERS/ NUMBERS

1"x1" TILE IS SHOWN. REFER TO LANDSCAPE ARCHITECT FOR FINAL SIZE AND SELECTION

DETAIL KEYNOTES

1 ISOLATION JOINT
2 IMPERVIOUS, NON-SLIP, & TEXTURED 6"X6" TILE NO DIVING MARKER (4" SYMBOL) MOUNTED FLUSH WITH ADJACENT FINISHES
3 TILE ADHESIVE
4 BOND COAT
5 VERTICAL DEPTH MARKERS MOUNTED FLUSH WITH ADJACENT FINISHES
6 IMPERVIOUS, NON-SLIP & TEXTURED HORIZONTAL DEPTH MARKERS MOUNTED FLUSH WITH ADJACENT FINISHES
7 NON-SLIP PRECAST COPING
8 WATERLINE & BACK OF GUTTER GLAZED 1"x1" MINIMUM TILE, 12" MAX HEIGHT IF DARK COLOR IS SELECTED
9 TILE GROUT - EPOXY
10 WHITE OR LIGHT PASTEL INTERIOR & GUTTER FINISH NON-SLIP (MAXIMUM THICKNESS PER MANUFACTURER REQUIREMENTS)
11 CONTRASTING 1"x1" MINIMUM NON-SLIP TILE
12 CONTRASTING 1"x1" MINIMUM NON-SLIP BULLNOSE TILE

3 LAP POOL BEAM AND STEP TILES AND MARKERS
1" = 1'-0"



GENERAL DETAIL NOTES

DEPTH MARKERS SHALL MATCH WATER DEPTH AT MARKER LOCATION

FLOORS AND WALLS SHALL BE WHITE OR PASTEL IN COLOR WITH REFLECTIVE CHARACTERISTICS COMPLYING WITH 454.1.2.1(A) & 454.1.2.4

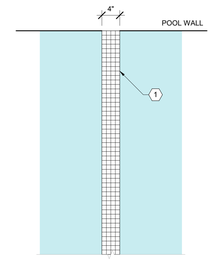
ALL MARKERS MUST BE CONTRASTING 4" HIGH MIN LETTERS/ NUMBERS

MECHANICAL BONDABLE CONCRETE SURFACE PROFILE (CSP) RANGING FROM A MINIMUM CSP 5 TO A MAXIMUM CSP 9 REQUIRED ON ALL CONCRETE SUBSTRATE SURFACES PRIOR TO THE APPLICATION OF ANY FINISHES

DETAIL KEYNOTES

1 ISOLATION JOINT
2 IMPERVIOUS, NON-SLIP, & TEXTURED 6"X6" TILE NO DIVING MARKER (4" SYMBOL) MOUNTED FLUSH WITH ADJACENT FINISHES
3 TILE ADHESIVE
4 IMPERVIOUS, NON-SLIP & TEXTURED HORIZONTAL DEPTH MARKERS MOUNTED FLUSH WITH ADJACENT FINISHES
5 VERTICAL DEPTH MARKERS - ADJUST DEPTH MARKER TO MATCH ACTUAL WATER DEPTHS, MOUNTED FLUSH WITH ADJACENT FINISHES
6 WATERLINE & BACK OF GUTTER GLAZED 1"x1" MINIMUM TILE, 12" MAX HEIGHT IF DARK COLOR IS SELECTED
7 TILE GROUT - EPOXY
8 NON-SLIP PRECAST COPING
9 CONTRASTING 1"x1" MINIMUM NON-SLIP TILE (BULLNOSE TRIM ON EDGES - BOTH SIDES)
10 INTERIOR & GUTTER FINISH - FLUSH TRANSITION AT WATERLINE TILE

2 LAP POOL BEAM TILES AND MARKERS
1" = 1'-0"



FLOOR PLAN

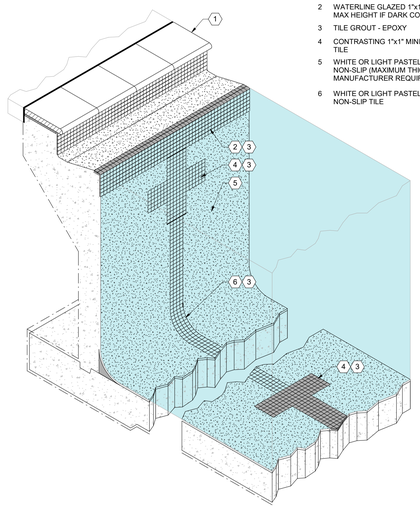
GENERAL DETAIL NOTES

SLOPE TILE SUBMITTAL REQUIRED TO CONFIRM ALL SIZING SPACING, TEXTURES, AND COLOR SELECTIONS OVERLAID SHOWING ALL MARKINGS IN A SINGLE PLAN.

DETAIL KEYNOTES

1 WHITE TILES (1" x 1"), SLIP-RESISTANT

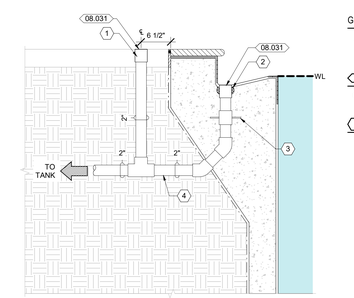
8 LAP POOL SLOPE BREAK TILE FLOOR
1" = 1'-0"



DETAIL KEYNOTES

1 NON-SLIP PRECAST COPING
2 WATERLINE GLAZED 1"x1" MINIMUM TILE, 12" MAX HEIGHT IF DARK COLOR IS SELECTED
3 TILE GROUT - EPOXY
4 CONTRASTING 1"x1" MINIMUM NON-SLIP TILE
5 WHITE OR LIGHT PASTEL INTERIOR FINISH NON-SLIP (MAXIMUM THICKNESS PER MANUFACTURER REQUIREMENTS)
6 WHITE OR LIGHT PASTEL 1"x1" MINIMUM NON-SLIP TILE

5 LAP POOL LAP LANE MARKINGS
NTS



GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

SCHEDULE KEYNOTES

08.031 GUTTER FITTING WITH GRATE

DETAIL KEYNOTES

1 GUTTER AIR VENT WITH GRATE
2 HYDRAULIC CEMENT
3 WATERSTOP FITTING
4 GUTTER PIPING SLOPING TO TANK

1 GUTTER PIPING - LAP POOL
1" = 1'-0"

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CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

no.	DATE	DESCRIPTION
	2025-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
	2025-04-17	CD PROGRESS SET

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ST HWY 191/I-40 SERV, West Memphis, AR 72301

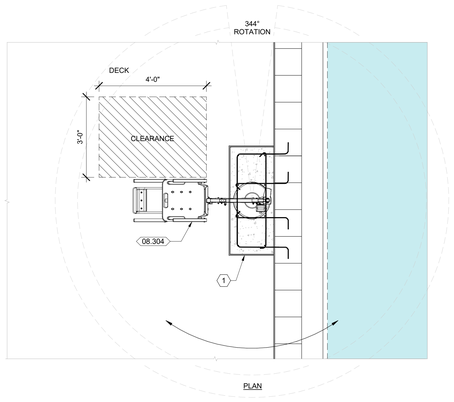
JOB No.: WESTCIT00561

SHEET TITLE

DETAILS (LAP POOL)

SHEET NUMBER

AQ-523



PLAN

GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

SCHEDULE KEYNOTES

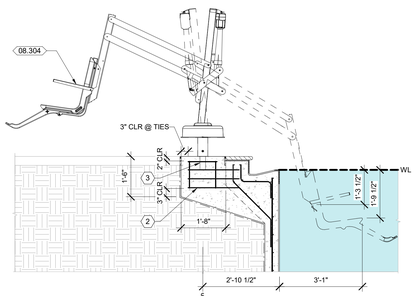
08.304 ACCESSIBLE LIFT UNIT

DETAIL KEYNOTES

1 ISOLATION JOINTS (SEE SEPARATE DETAIL)

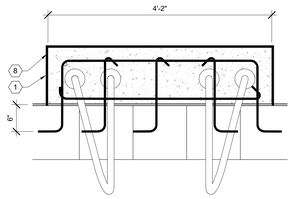
2 CONCRETE ANCHOR REINFORCED W/ (8) #6 VERT AND #3 TIES @ 4" OC. HOOK ALL TIES, EXCEPT FOR THE UPPERMOST ONE, 6" DEEP INTO BEAM AND CAST MONOLITHICALLY WITH BEAM OR FIELD CUT HOOKS OFF AND EPOXY TIES 4 1/2" DEEP INTO ALREADY CAST BEAM.

3 SST ANCHOR SOCKET

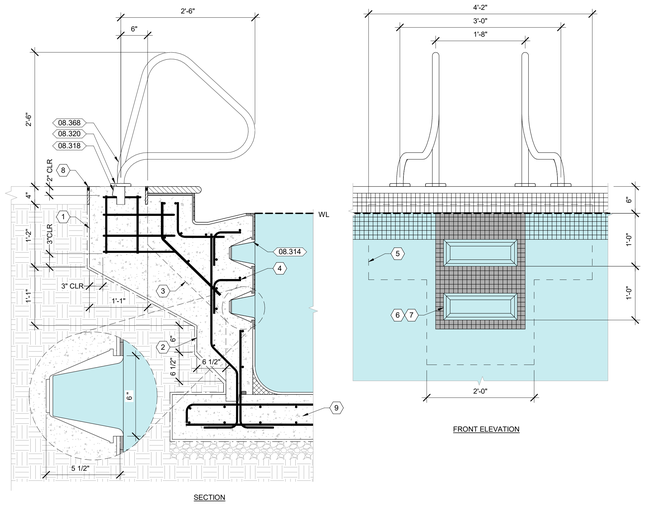


SECTION

10 ACTIVITY POOL ACCESSIBLE LIFT UNIT ASSEMBLY
1/2" = 1'-0"



PLAN



SECTION

FRONT ELEVATION

GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

SCHEDULE KEYNOTES

08.314 NON-SLIP INSET STEPS

08.318 4" STAINLESS STEEL ANCHOR

08.320 ESCUTCHEON PLATE

08.368 PRETZEL RAIL - 30"

DETAIL KEYNOTES

1 CONCRETE RAIL ANCHOR CENTERED ON GRAB RAIL. REINFORCED W/ (10) #6 VERT AND #3 TIES @ 4" OC. HOOK TIES 6" DEEP INTO BEAM AND CAST MONOLITHICALLY WITH BEAM, OR FIELD CUT HOOKS OFF AND EPOXY TIES 4 1/2" DEEP INTO ALREADY CAST BEAM.

2 THICKEN WALL AND SHIFT REINFORCING FOR DISTANCE OF 2'-0" CENTERED ON INSET STEPS

3 BEAM (BEYOND)

4 PROVIDE ADDITIONAL BARS OF SAME SIZE AND SPACING AS TYPICAL BEAM BARS AND FIELD CUT TYPICAL BEAM BARS 2" CLEAR FROM INSET STEPS

5 GRAB RAIL CONCRETE ANCHOR (BEYOND) 4'-2" x 1'-1" x 1'-3" AND THICKENED WALL (BEYOND)

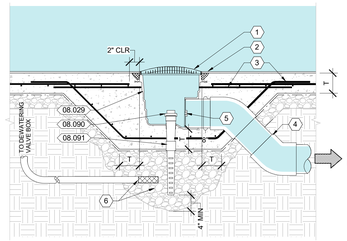
6 TILE GROUT - EPOXY

7 CONTRASTING 1"x1" MINIMUM NON-SLIP TILE

8 ISOLATION JOINT

9 SEE TYPICAL FLOOR / WALL JUNCTION STRUCTURE FOR FURTHER REBAR REINFORCING REFER - (1 / AQ-530)

9 ACTIVITY POOL GRAB RAIL AND INSET STEPS AT CONCRETE DECK
1" = 1'-0"



GENERAL DETAIL NOTES

T = FLOOR STRUCTURE THICKNESS

SCHEDULE KEYNOTES

08.029 MAIN DRAIN - 18"x18" (WHITE)

08.090 HYDROSTATIC RELIEF VALVE - MAIN DRAIN

08.091 HYDROSTATIC RELIEF VALVE - COLLECTOR TUBE

DETAIL KEYNOTES

1 VGB COMPLIANT SUMP & GRATE

2 HYDRAULIC CEMENT

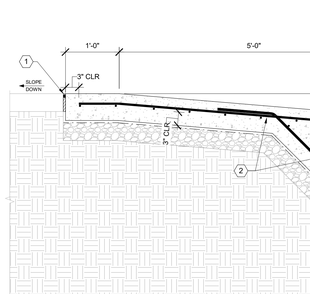
3 SEE STRUCTURAL DETAILS FOR FLOOR REINFORCING AND ADD BARS AT REENTRANT CORNERS OF DRAINS. ALSO PROVIDE ADD BARS WITH 24 BAR DIAMETER 135 DEGREE HOOKS BELOW DRAIN AS SHOWN AT SAME SIZE AND SPACING AS FLOOR REINFORCING.

4 DRAIN ASSEMBLY PIPING

5 BLANKING DISK - TO BE REMOVED POST PRESSURE TESTING

6 DEWATERING PIPE AND ROCK BED

8 18x18 DRAIN SUMP ASSEMBLY
3/4" = 1'-0"



GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

SCHEDULE KEYNOTES

08.031 GUTTER FITTING WITH GRATE

DETAIL KEYNOTES

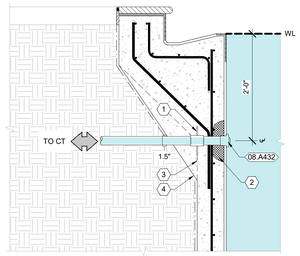
1 GUTTER AIR VENT WITH GRATE

2 HYDRAULIC CEMENT

3 WATERSTOP FITTING

4 GUTTER PIPING SLOPING TO TANK

7 ACTIVITY POOL GUTTER PIPING
1" = 1'-0"



GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

SCHEDULE KEYNOTES

08.A432 WALL FITTING W/ GRATE INSERT ASSEMBLY

DETAIL KEYNOTES

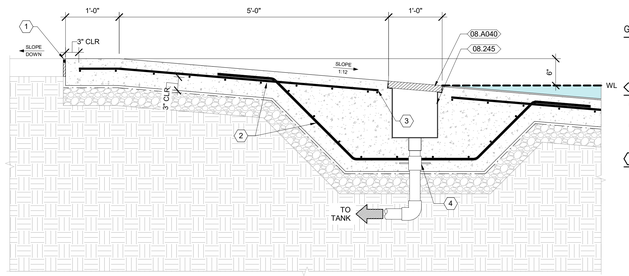
1 WATERSTOP FITTING

2 HYDRAULIC CEMENT

3 BEAM (BEYOND)

4 INCREASE BEAM THICKNESS AT BACK OF EACH INLET TO PROVIDE MINIMUM 3" CONCRETE COVER

6 ACTIVITY POOL STATIC EQUALIZER PIPING
1" = 1'-0"



GENERAL DETAIL NOTES

SEE POOL FLOOR/WALL JUNCTION STRUCTURE DETAIL FOR ADDITIONAL INFORMATION

SCHEDULE KEYNOTES

08.245 ZERO ENTRY WATERPROOF FIBERGLASS GUTTER

08.A040 DALDORADO PARALLEL GRATING

DETAIL KEYNOTES

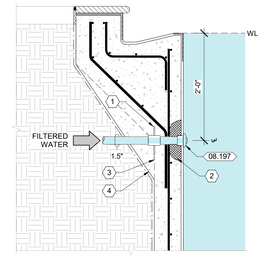
1 ISOLATION JOINT (SEE SEPARATE DETAIL)

2 REINFORCING STEEL OF SAME SIZE AND SPACING AS TYPICAL FLOOR BARS

3 TERMINATE BARS 2" CLEAR OF DRAIN

4 WATERSTOP FITTING

5 ACTIVITY POOL - ZERO-ENTRY BEAM STRUCTURE (CONCRETE)
1" = 1'-0"



GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

SCHEDULE KEYNOTES

08.197 WALL INLET FITTING

DETAIL KEYNOTES

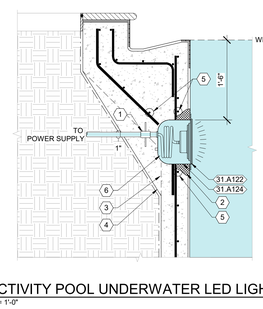
1 WATERSTOP FITTING

2 HYDRAULIC CEMENT

3 BEAM (BEYOND)

4 INCREASE BEAM THICKNESS AT BACK OF EACH INLET TO PROVIDE MINIMUM 3" CONCRETE COVER

4 ACTIVITY POOL WALL INLET
1" = 1'-0"



GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

UNDERWATER LIGHT CONDUIT MUST BE WATER-TIGHT

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

SCHEDULE KEYNOTES

31.A122 UNDERWATER POOL LIGHT - WHITE LED

31.A124 NICHE FOR POOL LIGHT

DETAIL KEYNOTES

1 WATERSTOP FITTING

2 HYDRAULIC CEMENT

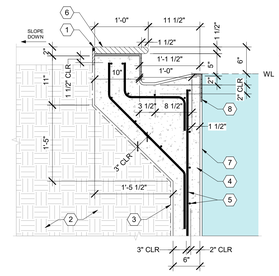
3 BEAM (BEYOND)

4 INCREASE BEAM THICKNESS AT BACK OF EACH LIGHT TO PROVIDE MINIMUM 3" CONCRETE COVER

5 ADD (3) #4X5'-4"LG HORIZONTAL BARS CENTERED ON LIGHT

6 EXCESS LIGHTING ELECTRICAL CABLE INSIDE NICHE TO ALLOW LAMP TO BE SERVICED ABOVE THE WATER LEVEL

3 ACTIVITY POOL UNDERWATER LED LIGHT (BMB BRIGHT WHITE)
1" = 1'-0"



GENERAL DETAIL NOTES

MECHANICAL BONDABLE CONCRETE SURFACE PROFILE (CSP) RANGING FROM A MINIMUM CSP 5 TO A MAXIMUM CSP 9 REQUIRED ON ALL CONCRETE SUBSTRATE SURFACES PRIOR TO THE APPLICATION OF ANY FINISHES.

DETAIL KEYNOTES

1 ISOLATION JOINT (SEE SEPARATE DETAIL)

2 WELL COMPACTED DRAINABLE SOIL (SEE GEOTECHNICAL ENGINEERING REPORT)

3 VAPOR BARRIER (SEE SPECIFICATIONS)

4 WATERPROOF STRUCTURE (SEE GENERAL NOTES AND SPECIFICATIONS FOR CONCRETE MIX REQUIREMENTS)

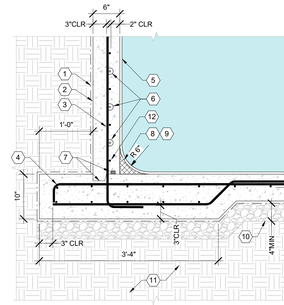
5 REINFORCING STEEL:
SEE FLOOR/WALL JUNCTION STRUCTURE DETAIL FOR REBAR SIZE AND SPACING. PROVIDE 12 BAR DIAMETER 90° HOOKS, 24 BAR DIAMETER 135° HOOKS, AND 48 BAR DIAMETER LAP SPLICES

6 PRECAST COPING SET WITH EPOXY-BASED COPING MORTAR MIX TO LEVEL BEAM BELOW COPING - REFER TO SPECIFICATIONS

7 INTERIOR POOL SURFACE

8 WATER LINE TILES

2 ACTIVITY POOL BEAM STRUCTURE
1" = 1'-0"



GENERAL DETAIL NOTES

MECHANICAL BONDABLE CONCRETE SURFACE PROFILE (CSP) RANGING FROM A MINIMUM CSP 5 TO A MAXIMUM CSP 9 REQUIRED ON ALL CONCRETE SUBSTRATE SURFACES PRIOR TO THE APPLICATION OF ANY FINISHES.

DETAIL KEYNOTES

1 VAPOR BARRIER

2 WATER PROOF STRUCTURE

3 REINFORCING STEEL:
#4 @ 8" OCEW WITH 12 BAR DIAMETER 90° HOOKS, 24 BAR DIAMETER 135° HOOKS, AND 48 BAR DIAMETER LAP SPLICES

4 ROTATE HOOK FROM PLUMB TO MAINTAIN 3" CLEAR TO BOTTOM OF CONCRETE

5 INTERIOR POOL FINISH

6 ADD (3) #4 @ 8" TO LOWER PORTION OF WALL TO ALL WALLS THAT ARE 40'-0" OR LONGER

7 1.5" X 3" CONTINUOUS KEYWAY AND NON-SWELLING LOCKSTOP WATERSTOP BY GREENSTREAK/SIKA. PLACE TIGHT TO THE WATER SIDE OF THE VERTICAL REINFORCING BARS

8 SIKA TOP 122 PLUS TROWEL GRADE MORTAR

9 MORTAR BONDING AGENT

10 CRUSHED ROCK / STONE

11 WELL COMPACTED SOIL (PER GEOTECHNICAL ENGINEER'S REPORT)

12 PLACE FIRST BAR 1/2 THE DISTANCE OF TYPICAL BAR SPACING FROM JOINT

1 ACTIVITY POOL FLOOR/WALL JUNCTION STRUCTURE
1" = 1'-0"

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West Memphis, AR 72301

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JOB INFO

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RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

DETAILS (ACTIVITY POOL)

SHEET NUMBER

AQ-530

GENERAL DETAIL NOTES

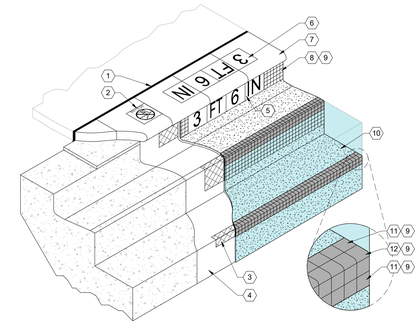
DEPTH MARKERS SHALL MATCH WATER DEPTH AT MARKER LOCATION

ALL MARKERS MUST BE CONTRASTING 4" HIGH MIN LETTERS/ NUMBERS

1"x1" TILE IS SHOWN. REFER TO LANDSCAPE ARCHITECT FOR FINAL SIZE AND SELECTION

DETAIL KEYNOTES

1 ISOLATION JOINT
2 IMPERVIOUS, NON-SLIP, & TEXTURED 6"X6" TILE NO DIVING MARKER (4" SYMBOL) MOUNTED FLUSH WITH ADJACENT FINISHES
3 TILE ADHESIVE
4 BOND COAT
5 VERTICAL DEPTH MARKERS MOUNTED FLUSH WITH ADJACENT FINISHES
6 IMPERVIOUS, NON-SLIP & TEXTURED HORIZONTAL DEPTH MARKERS MOUNTED FLUSH WITH ADJACENT FINISHES
7 NON-SLIP PRECAST COPING
8 WATERLINE & BACK OF GUTTER GLAZED 1"x1" MINIMUM TILE. 12" MAX HEIGHT IF DARK COLOR IS SELECTED
9 TILE GROUT - EPOXY
10 WHITE OR LIGHT PASTEL INTERIOR & GUTTER FINISH NON-SLIP (MAXIMUM THICKNESS PER MANUFACTURER REQUIREMENTS)
11 CONTRASTING 1"x1" MINIMUM NON-SLIP TILE
12 CONTRASTING 1"x1" MINIMUM NON-SLIP BULLNOSE TILE



3 ACTIVITY POOL BEAM AND STEP TILES AND MARKERS
1" = 1'-0"

GENERAL DETAIL NOTES

DEPTH MARKERS SHALL MATCH WATER DEPTH AT MARKER LOCATION

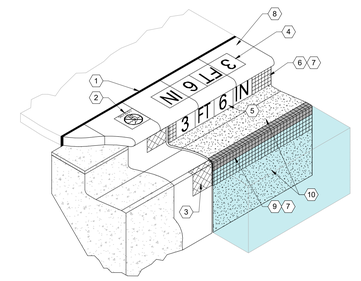
FLOORS AND WALLS SHALL BE WHITE OR PASTEL IN COLOR WITH REFLECTIVE CHARACTERISTICS COMPLYING WITH 454.1.2.1(A) & 454.1.2.4

ALL MARKERS MUST BE CONTRASTING 4" HIGH MIN LETTERS/ NUMBERS

MECHANICAL BONDABLE CONCRETE SURFACE PROFILE (CSP) RANGING FROM A MINIMUM CSP 5 TO A MAXIMUM CSP 9 REQUIRED ON ALL CONCRETE SUBSTRATE SURFACES PRIOR TO THE APPLICATION OF ANY FINISHES

DETAIL KEYNOTES

1 ISOLATION JOINT
2 IMPERVIOUS, NON-SLIP, & TEXTURED 6"X6" TILE NO DIVING MARKER (4" SYMBOL) MOUNTED FLUSH WITH ADJACENT FINISHES
3 TILE ADHESIVE
4 IMPERVIOUS, NON-SLIP & TEXTURED HORIZONTAL DEPTH MARKERS MOUNTED FLUSH WITH ADJACENT FINISHES
5 VERTICAL DEPTH MARKERS - ADJUST DEPTH MARKER TO MATCH ACTUAL WATER DEPTHS, MOUNTED FLUSH WITH ADJACENT FINISHES
6 WATERLINE & BACK OF GUTTER GLAZED 1"x1" MINIMUM TILE. 12" MAX HEIGHT IF DARK COLOR IS SELECTED
7 TILE GROUT - EPOXY
8 NON-SLIP PRECAST COPING
9 CONTRASTING 1"x1" MINIMUM NON-SLIP TILE (BULLNOSE TRIM ON EDGES - BOTH SIDES)
10 INTERIOR & GUTTER FINISH - FLUSH TRANSITION AT WATERLINE TILE



2 ACTIVITY POOL BEAM TILES AND MARKERS
1" = 1'-0"

GENERAL DETAIL NOTES

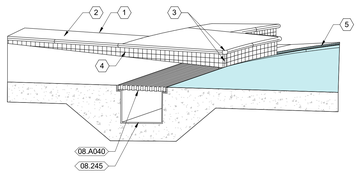
SEE POOL FLOOR/WALL JUNCTION STRUCTURE DETAIL FOR ADDITIONAL INFORMATION

SCHEDULE KEYNOTES

08.245 ZERO ENTRY WATERPROOF FIBERGLASS GUTTER
08.A040 DALDORADO PARALLEL GRATING

DETAIL KEYNOTES

1 ISOLATION JOINT (SEE SEPARATE DETAIL)
2 NON-SLIP UNIT PAVERS SET WITH ADHESIVE AND EPOXY TILE GROUT
3 2" MINIMUM RADIUS ON ALL PROTRUDING CORNERS OF WALLS, AND COPING
4 TILE GROUT - EPOXY
5 CONTRASTING 1"x1" MINIMUM NON-SLIP TILE (BULLNOSE TRIM ON EDGES - BOTH SIDES)



4 ACTIVITY POOL GUTTER ZERO ENTRY TRANSITION
1" = 1'-0"

GENERAL DETAIL NOTES

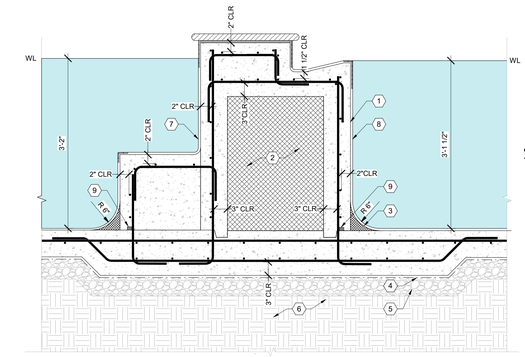
MECHANICAL BONDABLE CONCRETE SURFACE PROFILE (CSP) RANGING FROM A MINIMUM CSP 5 TO A MAXIMUM CSP 9 REQUIRED ON ALL CONCRETE SUBSTRATE SURFACES PRIOR TO THE APPLICATION OF ANY FINISHES.

THE WATERPROOF CONCRETE STRUCTURE SHALL EXTEND A MINIMUM OF 3" ABOVE THE POOL WATER LEVEL

REFER TO SPA WALL BEAM STRUCTURE DETAIL, OPEN GUTTER WALL BEAM STRUCTURE DETAIL & FLOOR/ WALL JUNCTION DETAIL FOR CONCRETE DIMENSIONS, REINFORCING REQUIREMENTS, AND ADDITIONAL INFORMATION

DETAIL KEYNOTES

1 WATERPROOF STRUCTURE (SEE GENERAL NOTES AND SPECIFICATIONS FOR CONCRETE MIX REQUIREMENTS)
2 EXPANDED POLYSTYRENE RIGID INSULATION VOID FORMERS (GEOFOAM EPS 15 OR BETTER)
3 TROWEL-GRADE MORTAR
4 VAPOR BARRIER (SEE SPECIFICATIONS)
5 CRUSHED ROCK / STONE
6 WELL COMPACTED DRAINABLE SOIL (SEE GEOTECHNICAL ENGINEERING REPORT)
7 INTERIOR SPA SURFACE
8 INTERIOR ACTIVITY POOL SURFACE
9 NON-SWELLING SIKA/GREENSTREAK LOCKSTOP ADHESIVE/PRIMER AND WATERSTOP PLACED TIGHT TO VERTICAL REINFORCING, AND CONTINUOUS THROUGH ALL PARTS OF POOL PERIMETER



1 ACTIVITY POOL SHARED WALL BEAM STRUCTURE
1" = 1'-0"

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ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

DETAILS (ACTIVITY POOL)

SHEET NUMBER

AQ-531

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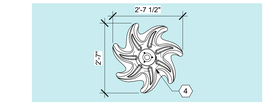


SIDE ELEVATION VIEW

GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

ALL ANCHORS MUST BE INSTALLED LEVEL REFER TO MANUFACTURE INSTALLATION GUIDE

SCHEDULE KEYNOTES

32.098 HELIO NO. 1

DETAIL KEYNOTES

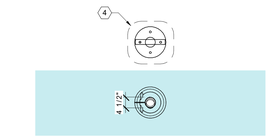
1 ALL-THREAD RODS EXPOXIED INTO MUD SLAB AS REQUIRED FOR WATER FEATURE TO BE SECURED, LEVELED AND ADJUSTED TO THE CORRECT HEIGHT

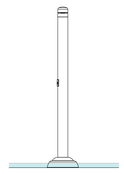
2 PROVIDE ADDITIONAL BARS OF SAME SIZE AND SPACING AS POOL BEAM STRUCTURE DETAIL

3 FEATURE WATER AT 50 GPM

4 ANCHOR METAL PLATE REFER TO MANUFACTURE

3 ACTIVITY POOL - HELIO NO. 1
1/2" = 1'-0"




ELEVATION

GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

ALL ANCHORS MUST BE INSTALLED LEVEL REFER TO MANUFACTURE INSTALLATION GUIDE

SCHEDULE KEYNOTES

32.A563 AQUA DOME NO. 2

DETAIL KEYNOTES

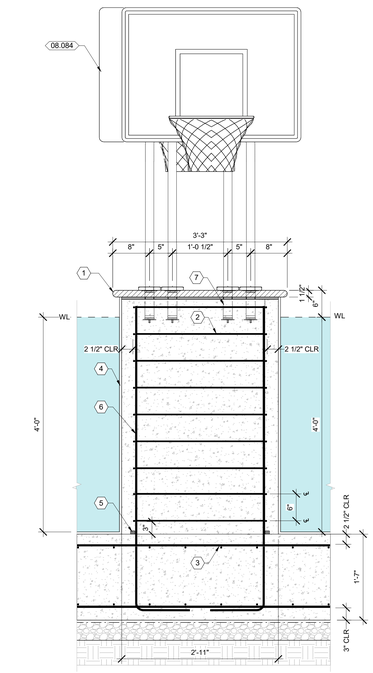
1 ALL-THREAD RODS EXPOXIED INTO MUD SLAB AS REQUIRED FOR WATER FEATURE TO BE SECURED, LEVELED AND ADJUSTED TO THE CORRECT HEIGHT

2 PROVIDE ADDITIONAL BARS OF SAME SIZE AND SPACING AS POOL BEAM STRUCTURE DETAIL

3 FEATURE WATER AT 18 GPM

4 ANCHOR METAL PLATE REFER TO MANUFACTURE

2 ACTIVITY POOL - AQUA DOME NO. 2
1/2" = 1'-0"



GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE & FLOOR / WALL JUNCTION STRUCTURE DETAILS FOR ADDITIONAL INFORMATION

EQUIPMENT THAT IS MANUFACTURED MUST BE GROUNDED / BONDED IN THE COMPLIANCE WITH THE NEC.

REFER TO MANUFACTURER AND SHOP DRAWINGS FOR INSTALLATION REQUIREMNETS

FEATURE SHALL BE PLACED ON UNCRACKED CONCRETE

SCHEDULE KEYNOTES

08.084 3 UNIT BASKETBALL HOOP

DETAIL KEYNOTES

1 EPOXY BASED COPING MORTAR MIX TO LEVEL BEAM BELOW COPING - REFER TO SPECIFICATIONS

2 REINFORCING STEEL OF SAME SIZE AND SPACING AS TYPICAL FLOOR BARS

3 PROVIDE ADDITIONAL BARS OF SAME SIZE AND SPACING AS TYPICAL FLOOR SLAB BARS

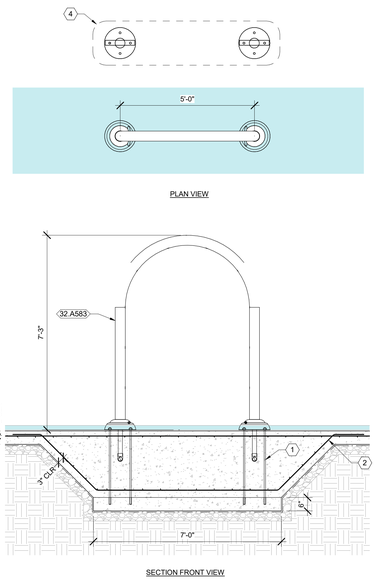
4 1"X1" GLAZED TILES ON VERTICAL SURFACES / WALLS

5 GREENSTREAK 3/4"X1" LOCKSTOP NON-SWELLING MASTIC WATERSTOP - INSTALLED TIGHT TO EACH SIDE OF VERTICAL REINFORCING. AT THE END OF THE WATERSTOPS, PINCH THEM TOGETHER TO FORM A CLOSED LOOP AROUND THE REBAR

6 #4 VERTICAL DOWS

7 PLASTIC ANCHORS WITH CAPS AND ESCUTCHEONS

4 ACTIVITY POOL - COLUMN STRUCTURE
1" = 1'-0"



GENERAL DETAIL NOTES

SEE POOL BEAM STRUCTURE FOR CONCRETE DIMENSIONS AND REINFORCING

ALL METALLIC ITEMS WITHIN THE BASIN SHALL BE BONDED. REFER TO THE BONDING PLAN

ALL ANCHORS MUST BE INSTALLED LEVEL REFER TO MANUFACTURE INSTALLATION GUIDE

SCHEDULE KEYNOTES

32.A583 ARCH WITH NOZZLES

DETAIL KEYNOTES

1 ALL-THREAD RODS EXPOXIED INTO MUD SLAB AS REQUIRED FOR WATER FEATURE TO BE SECURED, LEVELED AND ADJUSTED TO THE CORRECT HEIGHT

2 PROVIDE ADDITIONAL BARS OF SAME SIZE AND SPACING AS POOL BEAM STRUCTURE DETAIL

3 FEATURE WATER AT 18 GPM

4 ANCHOR METAL PLATE REFER TO MANUFACTURE

1 ACTIVITY POOL - ARCH WITH NOZZLES
1/2" = 1'-0"

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RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

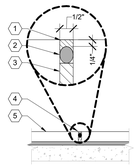
JOB No.: WESTCIT00561

SHEET TITLE

DETAILS (ACTIVITY POOL)

SHEET NUMBER

AQ-532



SECTION

GENERAL DETAIL NOTES

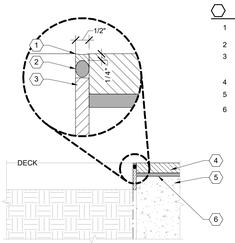
EXPANSION JOINTS SHALL BE PROVIDED AT ALL CORNERS AND AT MAXIMUM SPACING OF 15'-0".

WHEN THE COPING EXPANSION JOINTS ARE A CONTINUATION OF THE BASIN FLOOR & WALL UNDERWATER EXPANSION JOINTS, REFER TO THAT DETAIL FOR SIZE OF JOINT AND MATERIALS REQUIRED.

DETAIL KEYNOTES

1 P/G PRIMER AND DECK-O-SEAL 125 JOINT SEALANT
2 KOOL-ROD SEALANT BACKER ROD
3 JOINT FILLER (REMOVE UPPER PORTION TO PROVIDE CLEARANCE FOR BACKER ROD)
4 EXPANSION JOINT
5 NON SLIP PRECAST COPING

7 COPING EXPANSION JOINT
NTS

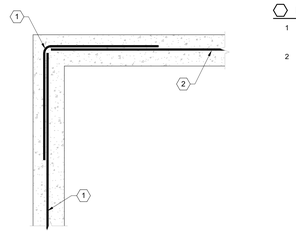


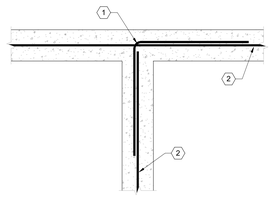
SECTION

DETAIL KEYNOTES

1 P/G PRIMER AND DECK-O-SEAL 125 JOINT SEALANT
2 KOOL-ROD SEALANT BACKER ROD
3 JOINT FILLER (REMOVE UPPER PORTION TO PROVIDE CLEARANCE FOR BACKER ROD)
4 BEAM COPING
5 CONCRETE BEAM
6 ROUGH THE SURFACE OF THE POOL BEAM TO AID IN THE BONDING OF THE COPING TO THE POOL BEAM

6 DECK ISOLATION JOINT
NTS

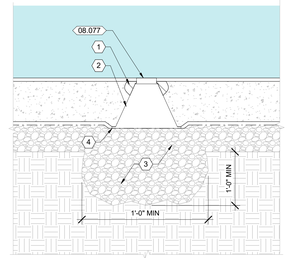




DETAIL KEYNOTES

1 MATCH HORIZONTAL BAR SIZE AND SPACING AND PROVIDE MINIMUM 48 DIAMETER LAP SPLICE
2 HORIZONTAL REINFORCING

3 TYPICAL REBAR REINFORCING AT CORNER & TEE
1" = 1'-0"



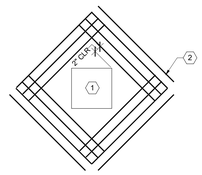
SCHEDULE KEYNOTES

08.077 HYDROSTATIC RELIEF VALVE FLOOR MOUNTED

DETAIL KEYNOTES

1 HYDRAULIC CEMENT
2 HYDROSTATIC RELIEF VALVE
3 CRUSHED ROCK / STONE BENEATH HYDROSTATIC RELIEF & FLOOR
4 VAPOR BARRIER INTERRUPTED AT HYDROSTATIC RELIEF VALVE

9 HYDROSTATIC RELIEF VALVE AT FLOOR
1 1/2" = 1'-0"



PLAN

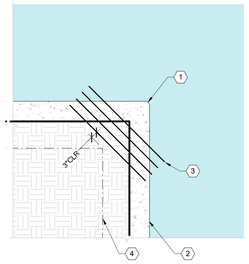
GENERAL DETAIL NOTES

THIS DETAIL APPLIES TO ALL DRAINS AND SUMPS. SEE DRAIN AND SUMP DETAILS FOR ADDITIONAL INFORMATION.

DETAIL KEYNOTES

1 DRAIN OR SUMP
2 ADD (4) #4X4'-0" LG @ 4" OC AT REENTRANT CORNERS FOR EACH LAYER OF REINFORCING IN FLOOR SLAB.

5 RE-ENTRANT CORNER REINFORCING AT DRAINS AND SUMPS
NTS



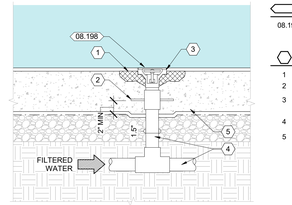
GENERAL DETAIL NOTES

THIS DETAIL APPLIES TO ALL RE-ENTRANT CORNERS WITHIN THE WATER BODY INCLUDING BEAM STRUCTURE, COPING, STEPS AND BENCHES

DETAIL KEYNOTES

1 MINIMUM 2" RADIUS AT CORNER OF POOL WALLS AND RELATED COPING
2 INTERIOR BASIN WALL
3 ADD (4) #4X4'-0" LONG @ 4" OC IN FLOOR SLAB AT ALL REENTRANT CORNERS. PLACE BARS 3" CLEAR FROM REENTRANT CORNER AND 3" CLEAR FROM SURFACE OF FLOOR.
4 EDGE OF FLOOR SLAB

2 RE-ENTRANT CORNER REINFORCING
NTS



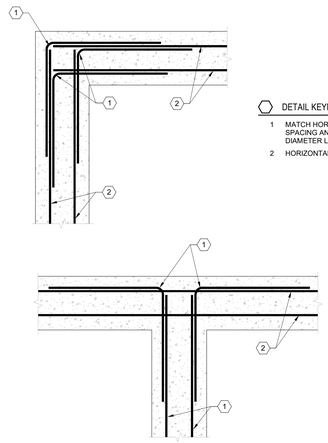
SCHEDULE KEYNOTES

08.198 FLOOR INLET

DETAIL KEYNOTES

1 HYDRAULIC CEMENT
2 WATERSTOP
3 FLOOR INLET FLUSH WITH ADJACENT FLOOR ELEVATION
4 TYPE 2 PIPING (SCH 80 PVC)
5 WATERPROOF STRUCTURE

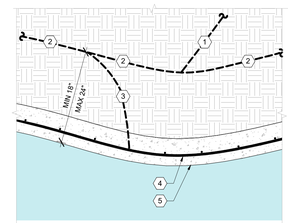
8 FLOOR INLET DETAIL
1 1/2" = 1'-0"



DETAIL KEYNOTES

1 MATCH HORIZONTAL BAR SIZE AND SPACING AND PROVIDE MINIMUM 48 DIAMETER LAP SPLICE
2 HORIZONTAL REINFORCING

4 TYPICAL REBAR REINFORCING AT CORNER & TEE
1" = 1'-0"



GENERAL DETAIL NOTES

ALL METAL PARTS WITHIN THE BASIN MUST BE JOINED TO THE BONDING LOOP OR REINFORCING STEEL BY ADDITIONAL #8 BARE COPPER WIRE IN A METHOD DESCRIBED BY NEC 250.8(A), UNLESS EXCEPTED UNDER NEC 680.26 (B)(5)

WHEN TWO MATS OF STEEL ARE PRESENT, ENSURE THAT EACH ARE BONDED TO EACH OTHER

DETAIL KEYNOTES

1 TO MECH ROOM
2 #8 BARE COPPER BONDING LOOP
3 MIN (4) SPLICES TO EACH MAT OF REINFORCING THAT IS PRESENT
4 REINFORCING STEEL, TIE AT EACH JUNCTURE
5 BASIN EDGE

1 BASIN PERIMETER BONDING
1" = 1'-0"

FILE PATH: Autodesk Docs://City of West Memphis Recreation Center/RAC_MATATRIUM_AQUATICS.rvt
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CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
1	2025-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
	2025-04-17	CD PROGRESS SET

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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

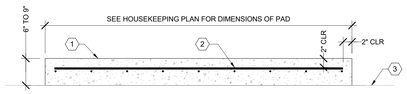
DETAILS
(COMMON)

SHEET NUMBER

AQ-540

DETAIL KEYNOTES

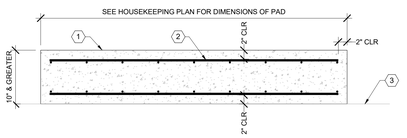
1 HOUSEKEEPING PAD (3,000 PSI CONCRETE AT 28 DAYS)
2 REINFORCING STEEL: #4 @8" OCEW
3 MECHANICAL ROOM FLOOR



12 HOUSEKEEPING PAD (6" TO 9")
1" = 1'-0"

DETAIL KEYNOTES

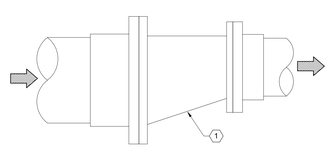
1 HOUSEKEEPING PAD (3,000 PSI CONCRETE AT 28 DAYS)
2 REINFORCING STEEL: #4 @ 8" OCEW T&B
3 MECHANICAL ROOM FLOOR



11 HOUSEKEEPING PAD (10"& GREATER)
1" = 1'-0"

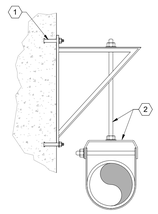
DETAIL KEYNOTES

1 ECCENTRIC REDUCER ORIENTATION - ENSURE FLAT SIDE IS ON TOP



ELEVATION

10 ECCENTRIC REDUCER INSTALLATION
1 1/2" = 1'-0"



GENERAL DETAIL NOTES

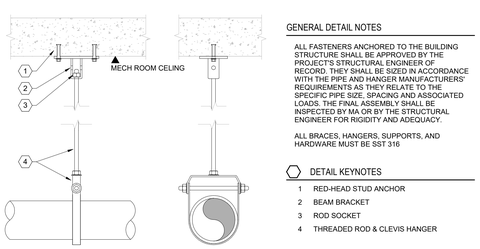
ALL FASTENERS ANCHORED TO THE BUILDING STRUCTURE SHALL BE APPROVED BY THE PROJECT'S STRUCTURAL ENGINEER OF RECORD. THEY SHALL BE SIZED IN ACCORDANCE WITH THE PIPE AND HANGER MANUFACTURERS' REQUIREMENTS AS THEY RELATE TO THE SPECIFIC PIPE SIZE, SPACING AND ASSOCIATED LOADS. THE FINAL ASSEMBLY SHALL BE INSPECTED BY MA OR BY THE STRUCTURAL ENGINEER FOR RIGIDITY AND ADEQUACY.

ALL BRACES, HANGERS, SUPPORTS, AND HARDWARE MUST BE SST 316

DETAIL KEYNOTES

1 RED-HEAD STUD ANCHOR
2 ROD, NUT & CLEVIS HANGER

8 HORIZONTAL PIPE HANGERS - WALL MOUNT
1" = 1'-0"



SIDE FRONT

GENERAL DETAIL NOTES

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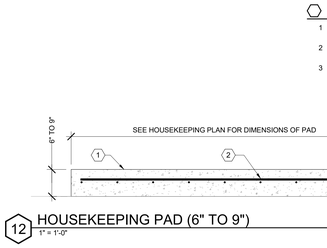
ALL BRACES, HANGERS, SUPPORTS, AND HARDWARE MUST BE SST 316

DETAIL KEYNOTES

1 RED-HEAD STUD ANCHOR
2 BEAM BRACKET
3 ROD SOCKET
4 THREADED ROD & CLEVIS HANGER

7 HORIZONTAL PIPE HANGER - CEILING MOUNT
1" = 1'-0"



SIDE FRONT

GENERAL DETAIL NOTES

ALL FASTENERS ANCHORED TO THE BUILDING STRUCTURE SHALL BE APPROVED BY THE PROJECT'S STRUCTURAL ENGINEER OF RECORD. THEY SHALL BE SIZED IN ACCORDANCE WITH THE PIPE AND HANGER MANUFACTURERS' REQUIREMENTS AS THEY RELATE TO THE SPECIFIC PIPE SIZE, SPACING AND ASSOCIATED LOADS. THE FINAL ASSEMBLY SHALL BE INSPECTED BY MA OR BY THE STRUCTURAL ENGINEER FOR RIGIDITY AND ADEQUACY.

ALL BRACES, HANGERS, SUPPORTS, AND HARDWARE MUST BE SST 316

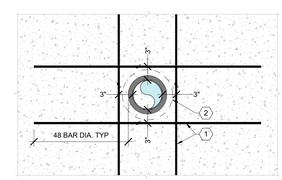
DETAIL KEYNOTES

1 PIPE SADDLE
2 SUPPORT BRACKET
3 FLOOR FLANGE

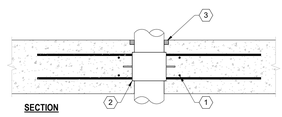
9 VERTICAL PIPE SUPPORTS
1" = 1'-0"

SIDE FRONT

6 FLOOR MOUNTED PIPE SADDLE SUPPORTS
1" = 1'-0"



PLAN



SECTION

GENERAL DETAIL NOTES

FOR ALL PENETRATIONS 6" DIAMETER AND SMALLER, ADJUST POSITION OF REINFORCING STEEL TO AVOID CUTTING THE REINFORCING STEEL AT THE PENETRATION AND MAINTAIN 2" CONCRETE COVER FOR ALL BARS

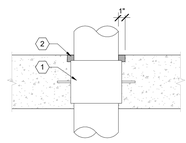
THIS DETAIL ONLY APPLIES TO GROUND SUPPORTED TANK FLOORS

DETAIL KEYNOTES

1 FOR ALL PENETRATIONS LARGER THAN 6" IN DIAMETER, ADD BARS AROUND ALL FOUR SIDES OF THE OPENING AS SHOWN. TOP AND BOTTOM. BAR SIZE TO MATCH OTHER BARS IN THE FLOOR. ADJUST ANGLE OF THESE BARS AS NECESSARY TO FIT.
2 WATERSTOP FITTING
3 HYDRAULIC CEMENT

4 FLOOR PIPE PENETRATION REINFORCING
1" = 1'-0"

PLAN

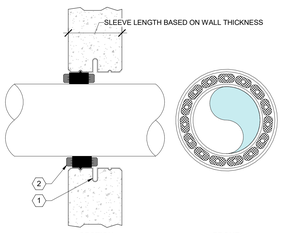


SECTION

DETAIL KEYNOTES

1 WATERSTOP FITTING
2 SIKA FLEX JOINT SEALANT

3 EQUIPMENT ROOM FLOOR PIPE PENETRATION
1 1/2" = 1'-0"



SECTION FRONT

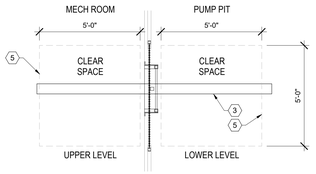
GENERAL DETAIL NOTES

PENETRATION SLEEVES AND LINK-SEAL SCHEDULE NUMBERS VARY PER SIZE. (SEE IDENTIFICATION PLANS FOR PENETRATION SIZE PER LOCATION)

DETAIL KEYNOTES

1 PENETRATION SLEEVE
2 LINK SEAL

2 PIPE PENETRATION LINK SEAL INSTALLATION
1 1/2" = 1'-0"



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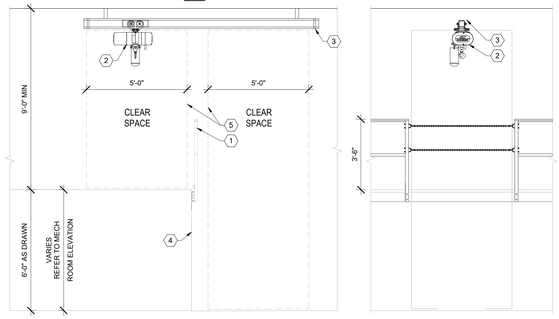


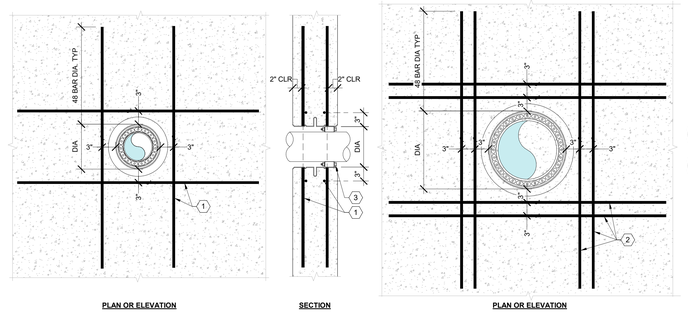
GENERAL DETAIL NOTES

MINIMUM _____CAPACITY, REFER TO BUILDING STRUCTURAL ENGINEER

DETAIL KEYNOTES

1 REMOVABLE BARRIER AT PUMP PIT, REFER TO ARCHITECT
2 CHAIN HOIST - REFER TO STRUCTURAL ENGINEER
3 OVERHEAD BEAM - REFER TO STRUCTURAL ENGINEER
4 PUMP PIT WALL
5 CLEAR LIFTING ZONE

1 MECHANICAL ROOM PUMP PIT DROP ZONE
3/8" = 1'-0"



PLAN OR ELEVATION SECTION PLAN OR ELEVATION SECTION

TYPE 1 (OPENING DIAMETERS 8" TO 14") **TYPE 2 (OPENING DIAMETERS 16" TO 20")**

PENETRATION TYPE CHART

PIPE NOMINAL SIZE	OPENING SIZE	TYPE
4" AND LESS	6" AND LESS	TYPE 0
6" TO 10"	8" TO 14"	TYPE 1
12" TO 16"	16" TO 20"	TYPE 2

DETAIL KEYNOTES

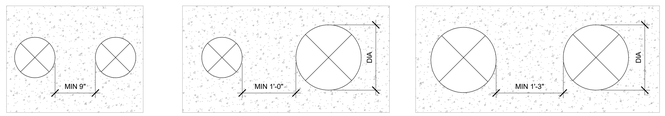
1 ADD (1) BAR EACH FACE AROUND TYPE 1 PENETRATIONS
2 ADD (2) BARS EACH FACE AROUND TYPE 2 PENETRATIONS
3 LINK-SEAL ASSEMBLY, INCLUDING CENTURY-LINE SLEEVE AND SST HARDWARE

GENERAL DETAIL NOTES

FOR TYPE 0 PENETRATIONS, ADJUST POSITION OF REINFORCING STEEL TO AVOID CUTTING ANY BARS AT THE PENETRATION AND MAINTAIN 2" CONCRETE COVER FOR ALL BARS. NO ADDITIONAL BARS REQUIRED. MINIMUM SPACE BETWEEN THESE OPENINGS SHALL BE 6".

ADD BAR SIZE SHALL MATCH THE WALL/FLOOR/CEILING REINFORCING

THESE DETAILS APPLY TO FLOORS THAT ARE NOT GROUND SUPPORTED, WALLS, AND CEILINGS.



PLAN OR ELEVATION PLAN OR ELEVATION PLAN OR ELEVATION

CONDITION 1 (TWO TYPE 1) **CONDITION 2 (ONE TYPE 1 & ONE TYPE 2)** **CONDITION 3 (TWO TYPE 2)**

5 WALL AND CEILING PIPE PENETRATION REINFORCING
1" = 1'-0"

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West Memphis, AR 72301

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#	DATE	DESCRIPTION
1	2025-04-17	CD PROGRESS SET

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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

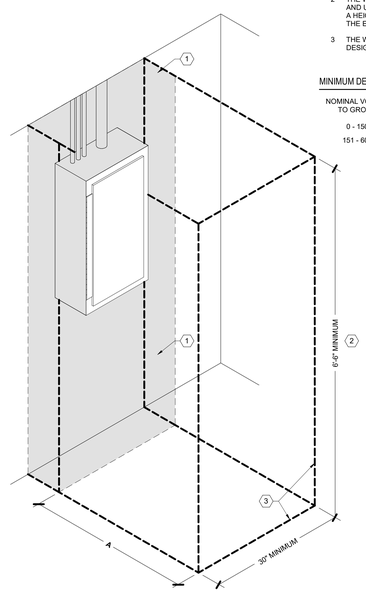
JOB No.: WESTCIT00561

SHEET TITLE

DETAILS (MECH)

SHEET NUMBER

AQ-550



DETAIL KEYNOTES

1 EQUIPMENT, PIPING AND DUCTS FOREIGN TO THE ELECTRICAL INSTALLATION SHALL NOT BE PLACED IN THE SHADED AREAS EXTENDING FROM THE FLOOR TO THE HEIGHT OF 6 FEET ABOVE THE PANELBOARD ENCLOSURE, OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER.

2 THE WORKING SPACE SHALL BE CLEAR AND UNOBSTRUCTED FROM THE FLOOR TO A HEIGHT OF 6.5 FEET OR THE HEIGHT OF THE EQUIPMENT, WHICHEVER IS GREATER.

3 THE WORKING SPACE SHALL NOT BE DESIGNATED FOR STORAGE.

MINIMUM DEPTH OF CLEAR SPACE

NOMINAL VOLTAGE TO GROUND	MINIMUM CLEAR DISTANCE (A)
0 - 150V	36"
151 - 600V	48"

3 PANEL CLEARANCE
1" = 1'-0"

GENERAL DETAIL NOTES

THE TRASH PUMP SHELL BE ELEVATED AND LEVELED TO ALLOW FOR PLUMB PIPING CONNECTION TO PUMP INLET

SCHEDULE KEYNOTES

10.C338 TRASH PUMP

DETAIL KEYNOTES

1 PROVIDE PUMP WITH OPTIONAL MOUNTING BASE MODEL A200-90

2 ALL MOUNTING HARDWARE INCLUDING ANCHOR BOLTS, WASHERS AND NUTS TO BE SST 316

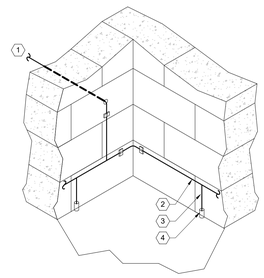
3 ANCHOR BOLT TO BE EMBEDDED A MINIMUM OF 4" INTO CONCRETE

4 ECCENTRIC REDUCER

5 CONCENTRIC REDUCER

6 SST PIPE SUPPORTS AS REQUIRED

5 TRASH PUMP WITH MOUNTING BASE
1" = 1'-0"



GENERAL DETAIL NOTES

ALL CONDUCTORS SHALL BE MINIMUM #8 AWG SOLID COPPER

DETAIL KEYNOTES

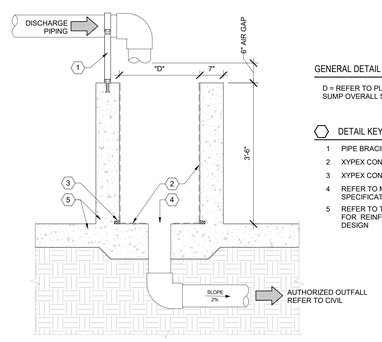
1 CONNECTION TO AQUATIC BODY BONDING LOOP

2 BONDING LOOP FIXED TO INTERIOR MECHANICAL ROOM WALL

3 BONDING JUMPER TO ELECTRICAL EQUIPMENT SERVING AQUATIC BODIES OF WATER AS PER NEC 680.26(B)(2)

4 ENCASE BONDING JUMPER IN 1" CONDUIT EQUIPMENT CONNECTION LOCATION

2 MECHANICAL ROOM BONDING
NTS



GENERAL DETAIL NOTES

D = REFER TO PLAN VIEW DIMENSIONS FOR SUMP OVERALL SIZING

DETAIL KEYNOTES

1 PIPE BRACING AND SUPPORTS

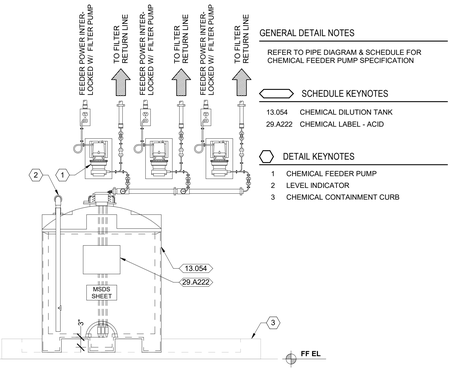
2 XYPEX CONCENTRATE WATER-PROOFING

3 XYPEX CONCETRATE DRY/PAC

4 REFER TO MEP FOR DRAIN FITTING SPECIFICATION

5 REFER TO THE STRUCTURAL ENGINEER FOR REINFORCEMENT & CONCRETE MIX DESIGN

4 TYPICAL BACKWASH SUMP
3/4" = 1'-0"



GENERAL DETAIL NOTES

REFER TO PIPE DIAGRAM & SCHEDULE FOR CHEMICAL FEEDER PUMP SPECIFICATION

SCHEDULE KEYNOTES

13.054 CHEMICAL DILUTION TANK

29.A222 CHEMICAL LABEL - ACID

DETAIL KEYNOTES

1 CHEMICAL FEEDER PUMP

2 LEVEL INDICATOR

3 CHEMICAL CONTAINMENT CURB

1 MURIATIC ACID DILUTION & DELIVERY ASSEMBLY
3/4" = 1'-0"

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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

DETAILS (MECH)

SHEET NUMBER

AQ-551

BASIN

Sched #	Description	Manufacturer/Supplier	Model	Qty
08.023	Velocity Starting Platform with Track Start and Side Mount	S.R. Smith	VELOSM-TS-TA	8
08.024	RockSolid Anchor for Velocity Starting Platform	S.R. Smith	27-107	8
08.029	Main Drain - 18x18 (White)	Lawson Aquatics	MLD-SG-1818-WT	2
08.031	Gutter Fitting with Grate	Hayward	SP1019	68
08.032	Skimmer	Waterway Plastics	540-6200	2
08.055	Stainless Steel Cup Anchor with Cross Bar	Recreonics, Inc.	14-505	18
08.077	Hydrostatic Relief Valve	SCP Pool Corp.	STK-251-1000	4
08.084	Commercial Basketball Game w/ Anchors & Escutcheons	S.R. Smith	S-BASK-EC	4
08.090	Hydrostatic Relief Valve - Main Drain	Hayward Pool Products	SP-1056	8
08.091	Hydrostatic Relief Valve Collector Tube	Hayward Pool Products	SP1055	8
08.197	Wall Inlet	Waterway Plastics	215-9150 w/ 400-1410D	16
08.198	Floor Inlet	Waterway Plastics	640-9000	37
08.227	Threaded Power Storm Tee Body Massage Jet	Waterway Plastics	229-7740	9
08.247	Clock - 12" Diameter	Recreonics, Inc.	88-057	1
08.248	Therapy Timer Switch	Intermatic	FF15MC	1
08.267	Fiberglass Pole - 16' (One Piece)	Recreonics, Inc.	10-372	8
08.281	Ring Buoy - 24" (White)	Recreonics, Inc.	12-252	4
08.282	Ring Buoy Throw Rope - 60'	Recreonics, Inc.	12-261	4
08.283	Rescue Shepherd's Crook	Recreonics, Inc.	12-230	4
08.304	Splash! Extended Reach	S.R. Smith	370-0000	3
08.314	17.5" Non-Slip Inset Step	S.R. Smith	62-209-4001	13
08.316	XL Capacity Lane Line Storage Reel	S.R. Smith	36000	2
08.318	4" Stainless Steel Anchor (1.50" OD)	S.R. Smith	AS-204-MG	52
08.319	Round Escutcheon (1.90") Stainless Steel	S.R. Smith	EP-100F	14
08.320	Round Escutcheon	S.R. Smith	EP-150	52
08.323	8' Backstroke Stanchion	S.R. Smith	10168	6
08.368	1.5" OD California Pretzel Bend Rail - 30" w/ additional 12" leg extension - Marine Grade 316L	S.R. Smith	12058-12-MG	5
08.427	1.5" OD Custom Rolled Hand Rail - Marine Grade 316L	S.R. Smith	Custom	1
08.428	1.5" OD Custom Rolled Hand Rail - Marine Grade 316L	S.R. Smith	Custom	2
08.438	6" Bronze Anchor	S.R. Smith	AS-100D	14
08.456	1.5" OD Custom Rolled Hand Rail - Marine Grade 316L	S.R. Smith	Custom	2
08.485	1.5" OD Custom Rolled Hand Rail - Marine Grade 316L	S.R. Smith	Custom	2
08.495	1.5" OD Custom Rolled Hand Rail - Marine Grade 316L	S.R. Smith	Custom	2
08.A265	32" Channel Drain Flat Grate Anti-Entrapment Suction Outlet Cover and PVC Three-Port Manufactured Sump. 25.9 square inch opening	Aquastar Pool Products	32CDFL101	2
08.A325	Therapy Jet - Straight Body Assembly	Waterway Plastics	229-1200	9
08.A432	Wall fitting w/ Grate insert assembly with nut and gasket	Waterway Plastics	400-9150 w/602-3160	2
08.A470	Drain Sump Assembly - 24"x24"x21" (The Beast)	Daldorado	DalMAX-SG-242421-BEAST	4

PUMP IDENTIFICATION

Pump ID	Sched #	Description
P001	10.C300	Lap Pool Filter Pump
P002	10.C036	Activity Pool Feature Pump #2
P003	10.C044	Activity Pool Feature Pump #1
P004	10.C152	Activity Pool Filter Pump
P005	10.C025	Spa Therapy Pump
P006	10.C220	Spa Filter Pump
P007	10.921	Lap Pool Trash Pump
P008	10.921	Activity Pool Trash Pump

PUMP SPECIFICATIONS

Sched #	Manufacturer/Supplier	Model	Type of Pump	Motor Power	Motor Speed	Motor Frame Size	Pump Class	Design Flow Rate	Design Flow Head - TDH	Electrical Phase	Input Frequency	Qty
10.921	AMT	393A-95	Self Priming	5 hp	3450 rpm	184JM	I	125 GPM	70 FT	3	60 Hz	2
10.C025	Aurora Supply Company	2x2.5x9.5 - 184JM	Flooded Suction	5 hp	1800 rpm	184JM	N/A	150 GPM	62 FT	3	60 Hz	1
10.C036	Aurora Supply Company	1.5x2x9.5 - 182JM	Flooded Suction	3 hp	1800 rpm	182JM	N/A	70 GPM	59 FT	3	60 Hz	1
10.C044	Aurora Supply Company	2x2.5x9.5 - 213JM	Flooded Suction	7.5 hp	1800 rpm	213JM	N/A	150 GPM	80 FT	3	60 Hz	1
10.C152	Aurora Supply Company	3x4x9.5 - 256JM	Flooded Suction	20 hp	1800 rpm	256JM	N/A	550 GPM	82 FT	3	60 Hz	1
10.C220	Aurora Supply Company	1.5x2x9.5 - 213JM	Flooded Suction	7.5 hp	1800 rpm	213T	N/A	125 GPM	90 FT	3	60 Hz	1
10.C300	Aurora Supply Company	4x5x9.5 - 256JM	Flooded Suction	20 hp	1800 rpm	256JM	N/A	650 GPM	79 FT	3	60 Hz	1

STRAINERS

Sched #	Description	Manufacturer/Supplier	Model	Inlet Size	Discharge Size	Qty
11.A312	Stainless Steel Hair & Lint Strainer - Eccentric	Blue Mar Basins	BMP-S-0302E	0' - 3"	0' - 2"	1
11.A313	Stainless Steel Hair & Lint Strainer - Eccentric	Blue Mar Basins	BMP-S-0402E	0' - 4"	0' - 2"	1
11.A316	Stainless Steel Hair & Lint Strainer - Eccentric	Blue Mar Basins	BMP-S-0603E	0' - 6"	0' - 3"	2
11.A336	Stainless Steel Hair & Lint Strainer - Straight	Blue Mar Basins	BMP-S-0808C	0' - 8"	0' - 8"	1
11.A337	Stainless Steel Hair & Lint Strainer - Straight	Blue Mar Basins	BMP-S-1010C	0' - 10"	0' - 10"	1

FILTERS

Sched #	Description	Manufacturer/Supplier	Model	Filter Screen Area	Qty
12.A141	Cartridge Filter	Hayward	HCF7030C	700 SF	1
12.A227	Regenerative Media Filter	Blue Mar Basins	BMP-F-210S	256 SF	1
12.A230	Regenerative Media Filter	Blue Mar Basins	BMP-F-110	200 SF	1

TANKS AND CABINETS

Sched #	Description	Manufacturer/Supplier	Model	Type of Construction	Max Tank Volume	Qty
13.029	30 Gallon Reservoir Labeled "pH"	Commercial Energy Specialists, Inc.	BC STS30GC	Polyethylene	30 gal	1
13.054	Double-walled Chemical SAFE-Tank - 105 Gallon with lid and 2" Mushroom Vent & Reverse Float Level Indicator	PolyProcessing	105 Assembly	Polyethylene	105 gal	1
13.A108	100 Gallon Saturated Salt Feeder	Chlorking	SSFEEDER-100S	Polyethylene	100 gal	1

CONTROLS - FLOW/ PRESSURE

Sched #	Description	Manufacturer/Supplier	Model	Qty
14.059	Compound Pressure Gauge	Trerice	800LFB-20-02-L-D-050	23
14.093	Temperature Gauge	Trerice	HT31	3
14.A067	Signet Magmeter (5"-8") - Salt System - 4-20mA	GF Piping Systems	HD 3-2551-V1-12	2
14.A068	Signet Magmeter (0.5"-4") - 4-20mA	GF Piping Systems	HD 3-2551-P0-12	1
14.A122	3" FlowVis Flow Meter FV-3	H2flow	FV-3	1
14.A123	2.5" FlowVis Flow Meter FV-25	H2flow	25	1
14.A125	1.5" Flow Meter	H2flow	FV-15	1
14.A136	Signet Temperature Sensor	GF Piping Systems	HD 3-2350-3	3

CHEMICALS & SANITIZATION

Sched #	Description	Manufacturer/Supplier	Model	Qty
15.028	Erosion Chlorinator	Accu-Tab	Powerbase 1030	3
15.085	Dulcodes UV Sanitizer	ProMinent Fluid Controls, Inc.	1x1a	3
15.A107	Chemical Feeder Pump - 17 GPD Adj Rate Stenner Feeder,#2,120V,3/8	Stenner Pumps	85MJL2A3S	2
15.A163	Chemical Feeder Pump - 5 GPD Adj Rate Stenner Feeder,#1,120V,3/8	Stenner Pumps	85MJL1A3S	1
15.A251	Neutral Chlorine Generator	Chlorking	NEXGEN 50SM-R	1
15.A297	Dulcodes UV Sanitizer	ProMinent Fluid Controls, Inc.	1x3a	2
15.A332	DCM 513 - 5 Series Controller	ProMinent Fluid Controls, Inc.	1080774	3
15.A395	Peristaltic dosing pump system (2GPM) Adjustable up to 40lbs. / day with AC motor.	Chlorking	CHLORPDSAC 40	1

HEATERS

Sched #	Description	Manufacturer/Supplier	Model	Gas Connection Size	Vent Size	Air Connection Size	Qty
16.A238	Custom Delta Hydronics 500 MBH heating skid with Torus boiler, (3) HXs, and primary hydronic loop	Delta Hydronics	DH-CHBP-500	5"	4"	1"	1

CONTROLS - ELECTRICAL

Sched #	Description	Manufacturer/Supplier	Model	Qty
17.046	Photocell Control	Intermatic	K4321C	1
17.124	20 HP VFD, 380-480V, for pumps, with mains disconnect, IP55 enclosure and Modbus TCP	Danfoss	FC-202P15KT4E55H3XGX 1XXSXXXXAQBXCXXXXDX	2
17.130	7.5 HP VFD, 380-480V, for pumps, with mains disconnect, IP55 enclosure and Modbus TCP	Danfoss	FC-202P5K5T4E55H3XGX 1XXSXXXXAQBXCXXXXDX	2
17.131	5 HP VFD, 380-480V, for pumps, with mains disconnect, IP55 enclosure and Modbus TCP	Danfoss	FC-202P3K7T4E55H3XGX 1XXSXXXXAQBXCXXXXDX	1
17.132	3 HP VFD, 380-480V, for pumps, with mains disconnect, IP55 enclosure and Modbus TCP	Danfoss	FC-202P2K2T4E55H3XGX 1XXSXXXXAQBXCXXXXDX	1
17.A188	Emergency Cut-Off Switch	IDEM Safety Switches	ES-P-230001	2
17.A307	Standard Low Voltage Pool Lighting Control Cabinet	Blue Mar Basins	BMP-E-LVLC	1
17.A310	Main Control Panel - Series 1 (MCP.S1)	Blue Mar Basins	BMB-E-BM.MCP.S1	1
17.A314	POWER SUPPLY (320W/24VDC)	Blue Mar Basins	BMP-E-PS24	9
17.A353	NEXGEN MultiPool Controller	Chlorking	Multi Pool Control Box	1

VALVES

Sched #	Description	Manufacturer/Supplier	Model	Qty
20.022	1.5" Flanged Globe Valve	Asahi America, Inc	Flanged ANSI 1.5"	4
20.023	2" Flanged Globe Valve	Asahi America, Inc	Flanged ANSI 2"	2
20.038	2" Wafer Style Dual Disc Check Valve	Val-Matic	8802WN	3
20.039	2.5" Wafer Style Dual Disc Check Valve	Val-Matic	8825W	1
20.040	3" Wafer Style Dual Disc Check Valve	Val-Matic	8803W	1
20.041	4" Wafer Style Dual Disc Check Valve	Val-Matic	8804W	2
20.043	6" Wafer Style Dual Disc Check Valve	Val-Matic	8806W	1
20.044	8" Wafer Style Dual Disc Check Valve	Val-Matic	8808W	2
20.045	10" Wafer Style Dual Disc Check Valve	Val-Matic	8810W	1
20.047	0.5" Ball Valve	Spears Mfg. Company	1829-005	1
20.048	0.75" Ball Valve	Spears Mfg. Company	1829-007	1
20.049	1" Ball Valve	Spears Mfg. Company	1829-010	17
20.062	1.5" Ball Check Valve	Spears Mfg. Company	4529-015	4
20.143	8" Diversion Valve - Inline	Neptune Benson	DVINLINEPVC08D	1
20.171	3/8" Ball Valve for OD Tubing	McMaster Carr	638-6SMC6SMC-F	3
20.E162	3/8" Ball Check Valve	Stenner Pumps	BC038-1	3
20.E164	Stainless Solenoid Valve, 1", 24VDC	GC Valves	NS211GF16C7FG9	6
20.E281	2" Lever Operated Wafer Style Butterfly Valve	George Fischer Inc.	199 565 000	1
20.E282	2.5" Lever Operated Wafer Style Butterfly Valve	George Fischer Inc.	199 565 001	6
20.E283	3" Lever Operated Wafer Style Butterfly Valve	George Fischer Inc.	199 565 002	3
20.E284	4" Lever Operated Wafer Style Butterfly Valve	George Fischer Inc.	199 565 003	12
20.E286	6" Lever Operated Wafer Style Butterfly Valve	George Fischer Inc.	199 565 005	6
20.E294	8" Gear Operated Wafer Style Butterfly Valve	George Fischer Inc.	199 565 206	8
20.E295	10" Gear Operated Wafer Style Butterfly Valve	George Fischer Inc.	199 565 207	1
20.E335	8" Butterfly Valve - Remote Extension Operated - 12ft	Georg Fischer Piping Systems	S199.565.106+150.567.004	1

GENERAL SHEET NOTES

THE OWNER MUST VERIFY THE ACTUAL VOLTAGE AVAILABLE AT THE SITE. IF IT IS LESS THAN 230V, THE THREE-PHASE PUMPS (AND UV SANITIZERS) SPECIFIED NEED TO BE CUSTOM ORDERED TO ACCEPT THIS LOWER VOLTAGE, OR AN APPROPRIATE STEP-UP TRANSFORMER NEEDS TO BE SPECIFIED AND SUPPLIED TO BRING THE POWER UP TO 230V MINIMUM.

SEAL

CLIENT

ST HWY 191/I-40 SERV,
West Memphis, AR 72301

DRAWING ISSUE

NO.	DATE	DESCRIPTION
	2025-11-19	ISSUE FOR 90% DESIGN DEVELOPMENT
	2026-01-30	ISSUE FOR 100% DESIGN DEVELOPMENT
	2026-04-17	ISSUED FOR BID

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JOB INFO

CITY OF WEST MEMPHIS
RECREATION CENTER
ST HWY 191/I-40 SERV, West Memphis, AR 72301

JOB No.: WESTCIT00561

SHEET TITLE

EQUIPMENT SCHEDULES

SHEET NUMBER

AQ-600

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ADDITIONAL EQUIPMENT

Sched #	Description	Manufacturer/Supplier	Model	Qty
29.008	Emergency Drench Shower	Bradley	S19-310PVC	1
29.012	Hose	Grainger	CR075-50MF-G	2
29.040	Audio/Visual Alarm - 80 Decibel	Ingram Products	AVPW120CXFTRP	2
29.071	Americail FRP Ladder	American Grating	Custom	3
29.072	Ladder Up - Safety Post	The Bilco Company	LU-1	3
29.A098	Air Compressor (2HP)	Ingersoll Rand	P1.5IU-A9	1
29.A147	Pool & Spa Chemical Test Photometer	Palintest	Lumiso Poolfest 3	1
29.A201	24" Commercial Curved Wall Brush with Blue Nylon Bristles	Pool Corp	ABB-40-2002	1
29.A204	22" Commercial Vacuum Head	Pool Corp	RAI-40-2126	1
29.A206	Stainless Steel Hose Reel	Pool Corp	KDI-56-8534	1
29.A211	2" X 50' Professional Series Vacuum Hose with Swivel Cuff	Pool Corp	PSL-40-8650	1
29.A218	Replacement Tip Tool Adapter for Fiberglass Poles	Pool Corp	RAI-40-2317	1
29.A220	First Aid Kit - 25 Person	Pool Corp	SAS-53-1066	1
29.A225	Leaf Skimmer	Pool Corp	SKM-40-2776	1
29.A227	Portable Vacuum System	Pool Corp	SPK-05-1004	1
29.A233	12 in x 18 in Heavy-Duty Vinyl Backstroke Flag	Pool Corp	RCH-35-1031	2
29.A235	False Start Flag - 100' ea.	Pool Corp	RCH-35-1009	1

LIGHTING

Sched #	Description	Manufacturer/Supplier	Model	Qty
31.A122	Blue Mar Products 96W, Underwater, White, 12VAC / 24VDC LED	Blue Mar Products	BMP.PL.96W.W	24
31.A124	Niche for Pool Light - SST 1" Rear Hub	Blue Mar Products	78210600	24

FEATURE / TOY EQUIPMENT

Sched #	Description	Manufacturer/Supplier	Model	Max Flow Rate for Operation	Dynamic Head at Design Flow	Qty
32.098	Helio No. 1	Vortex Aquatic Structures Intl.	VOR 7236	50 GPM	14.00 ftH2O	1
32.A563	Aqua Dome No.2	Vortex Aquatic Structures Intl.	VOR 7530	18 GPM	41.50 ftH2O	1
32.A583	Arch With Nozzles	Vortex Aquatic Structures Intl.	VOR 0515	18 GPM	23.10 ftH2O	3
32.A612	PlayNuk No1	Vortex Aquatic Structures Intl.	EPN-01P	79 GPM	34.60 ftH2O	1

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1	2025.01.17	CD PROGRESS SET

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JOB No.: WESTCIT00561

SHEET TITLE

EQUIPMENT SCHEDULES

SHEET NUMBER

AQ-601