

NO.	DATE	DESCRIPTION
1	06/21/23	ISSUED FOR PERMIT
2	06/21/23	ISSUED FOR CONSTRUCTION
3	06/21/23	ISSUED FOR AS-BUILT



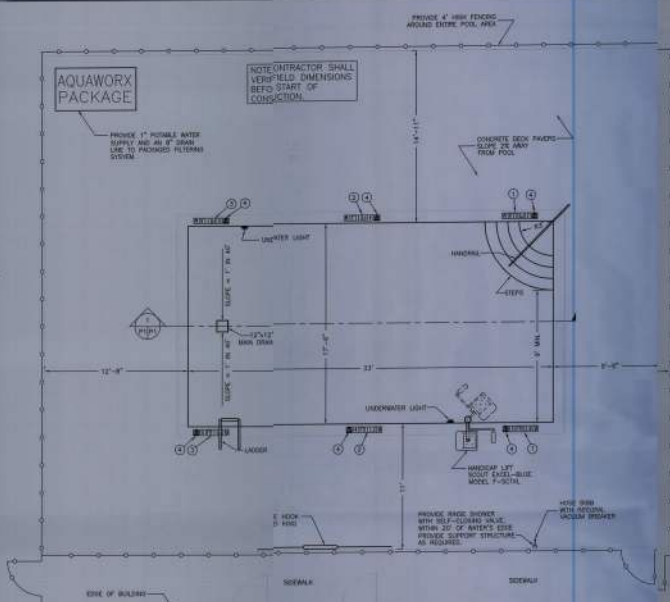
**AQUAWORX
PACKAGE**

NOTE: CONTRACTOR SHALL
VERIFY FIELD DIMENSIONS
BEFORE START OF
CONSTRUCTION.

PROVIDE 1" PORTABLE WATER
SUPPLY AND AN 4" DRAIN
LINE TO PACKAGING PLUMBING
SYSTEM.

PROVIDE 4" HIGH FENCING
AROUND ENTIRE POOL AREA

CONCRETE DECK FINISHED
SLOPE TO AWAY
FROM POOL



BATHROOM NOTES
 BATHROOMS FOR RESIDENTS. ALL HOTEL UNITS
 ARE WITHIN A 200-FOOT OPERATIONAL RANGE
 FROM THE NEAREST WATER'S EDGE.

136 ROOM HOTEL

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



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

POOL DATA

VOLUME = 17,200 GALLONS
 AREA = 578 SQ. FT.
 PERIMETER = 151'
 FLOW RATE = 150 GPM

POOL SIZE CALCULATION

NUMBER OF UNITS SERVED: 136 TRANSIENT
 MINIMUM AREA POOL REQUIRED: 560 SQ. FT.
 MINIMUM FILTER FLOW RATE REQUIRED: 140 GPM
 TURNOVER TIME: 1.91 HOURS (ORP REQUIRED)

POOL PLAN KEY NOTES

1. PROVIDE 4" HIGH BLACK DEPTH MARKER
WITH SLIP RESISTANT TILE ON POOL
CORNER AND WALL ABOVE WATER LINE.
INDICATING - 3.0 FT. 0.3 M
2. PROVIDE 4" HIGH BLACK DEPTH MARKER
WITH SLIP RESISTANT TILE ON POOL
CORNER AND WALL ABOVE WATER LINE.
INDICATING - 4.0 FT. 1.2 M
3. PROVIDE 4" HIGH BLACK DEPTH MARKER
WITH SLIP RESISTANT TILE ON POOL
CORNER AND WALL ABOVE WATER LINE.
INDICATING - 5.0 FT. 1.5 M
4. PROVIDE 4" HIGH BLACK NO DIVING
MARKER WITH SLIP RESISTANT TILE
WITHIN 2' OF POOL BATH.

NOTE: NO DIVING MARKERS AND DEPTH
MARKERS SHALL BE SPACED NO MORE
THAN 25' APART. PROVIDE ADDITIONAL
MARKERS AS REQUIRED.

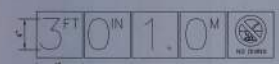
POSTED SWIMMING POOL RULES

1. NO DIVING
2. NO FOOD OR BEVERAGES IN POOL OR ON WET DECK. COMMERCIALY BOTTLED WATER
IN PLASTIC BOTTLES IS ALLOWED ON THE POOL DECK FOR POOL VISITORS.
3. NO GLASS OR BREAKABLE BOTTLES PERMITTED IN POOL AREA (OR OUT FROM UNFENCED POOL).
4. SWIMMING LOAD: 25 PERSONS
5. POOL HOURS: 10:00 AM TO 10:00 PM
6. SHOWER BEFORE ENTERING POOL
7. DO NOT SWALLOW THE POOL WATER
8. POOL MINIMUM DEPTH: 6 FEET

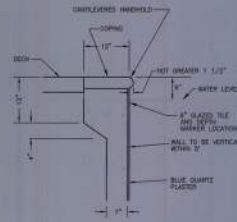
NOTE: RULE 1 SHALL BE IN 4" HIGH LETTERS. RULE 8 SHALL BE IN 2" LETTERS.
 ALL OTHER RULES SHALL BE IN 1" HIGH LETTERS.
 LOCATE SIGN 50' LETTERS ARE LEGIBLE FROM THE POOL DECK.

POOL RULES SIGN

SCALE: NONE



TYPICAL DEPTH MARKER DETAIL
 SCALE: NONE



BEAM AND WALL DETAIL
 SCALE: 1"=1'-0"



NO DIVING MARKER
 SCALE: NONE

SITE LOCATION

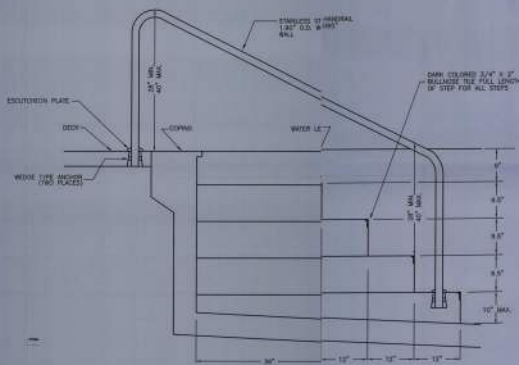
LOCATION: COURTYARD MARriott
 805 N. 10TH AVE. DENVER, CO
 80202



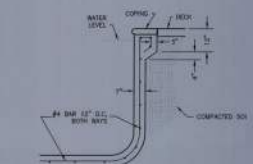
**John R
McDowell**

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 John R McDowell
 Date: 2023.06.21
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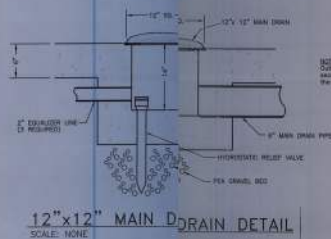
ITEM	QUANTITY	MANUFACTURER	DESCRIPTION
MAIN DRAIN	1	WATERWAY	6-472KV, ANTI-ENTRAPMENT 12"x12" SQUARE ABS, 62.4 SQ. IN. FREE AREA
INLET FITTING	8	HAYWARD	31419, 1 1/2" WALL INSERT (ADJUSTABLE)
SKIMMER	3	HAYWARD	1076-2NVE SKIMMER
TEST KIT	1	TAYLOR	4500
LIFE RING	1	RECROCNICS	1250, 20" USCG APPROV. LIFE RING - WHITE W/40' ROPE
LIFE HOOK W/POLE	1	RECROCNICS	1237, ANODIZED ALUMINUM WITH 16' POLE
BRUSH	1	SWANNA	31100, 18" CURVED BRUSH
VACUUM HOSE	1	SWANNA	38350, 1 1/2" X 40' WITH VACUUM FITTING FOR SKIMMER
LEAF RAKE	1	STA-WITE	4004, PROVIDE POLE
HYDROSTATIC RELIEF	1	RECROCNICS	3801 WITH COLLECTOR TUBE
UNDERWATER LIGHT	2	RETRO	R WITH 3000 LUMENS, PROVIDE NICHE
CHEMICAL PUMP	2	STENNER	DEL 49M3 (22 GPD), 115V, 3/8" TUBING
CHEMICAL CROCK	2	ULINE	DEL 5-19418, 15 GALLONS
PORTABLE VACUUM PUMP	1	HAMMER HEAD	SURT-21
DRIP CONTROLLER	1	HAYWARD	4400DWL, PROVIDE WFT CAPABILITY



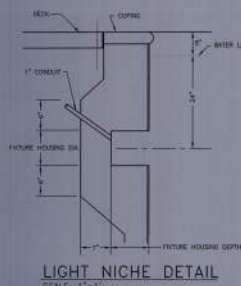
STEP AND HANDRAIL DETAIL
SCALE: 1"=1'



WALL REINFORCEMENT DETAIL
SCALE: 1/2"=1'



12"x12" MAIN DRAIN DETAIL
SCALE: NONE

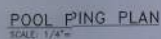


LIGHT NICHE DETAIL
SCALE: 1"=1'

POOL NOTES:

1. CONCRETE SHELL SHALL BE REINFORCED CONCRETE. SHELL SHALL BE POURED OR GUNNED OR SHOTCRETTED WITH 4000 PSI CONCRETE. INTERIOR OF POOL SHALL BE PLASTERED WITH BLUE QUARTZ. WALLS SHALL BE SMOOTH. FLOOR SHALL HAVE SLIP-RESISTANT FINISH. POOL WALLS SHALL BE WITHIN 5" OF VERTICAL FOR A DEPTH OF 2'6" IN AREA OF POOL LESS THAN 5' DEEP. FOR DEPTHS 5' AND GREATER, POOL WALLS SHALL BE WITHIN 5" OF VERTICAL FOR A DEPTH OF 10' MINUS 2'6". THE RADIUS JOINING THE WALL AND BOTTOM OF POOL SHALL NOT EXCEED 1'. ALL PROTRUDING CORNERS SHALL HAVE A 2" MINIMUM RADIUS.
2. MECHANICAL LAYOUTS ARE SCHEMATIC. PROVIDE ANY ADDITIONAL FITTINGS FOR OFFSETS AND RISERS NECESSARY FOR A COMPLETE INSTALLATION. INSTALL EQUIPMENT AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
3. TRAFFIC BARRIERS SHALL BE PROVIDED TO PREVENT OBSTRUCTION OF DECK.
4. PROVISIONS SHALL BE MADE FOR STORAGE OF CHEMICALS UNDER ROOF AND FOR PROTECTION FROM UNAUTHORIZED ACCESS IN WELL VENTILATED AREA.
5. FIRST-AID EQUIPMENT SHALL BE PROVIDED.
6. POOL SURFACE AND POOL DECK SHALL HAVE A MINIMUM OF 3 FOOT CANDLES OF LIGHTING IF USED AT NIGHT.
7. ALL PIPING SHALL BE SCHEDULE 40 PVC, NSF APPROVED FOR POTABLE WATER WITH LOGO STAMPED ON PIPE.
8. WALKWAYS SHALL BE SLIP RESISTANT CONCRETE WITH PROPER DRAINAGE.
9. NO FOOD OR DRINK FACILITIES SHALL BE LOCATED WITHIN 12' OF POOL.
10. VERTICAL CLEARANCE ABOVE POOLS AND DECK SHALL BE A MIN. OF 7'.
11. POOL MAKE-UP WATER SHALL BE FROM A POTABLE WATER SOURCE.
12. BALL VALVES SHALL BE PVC WITH FULL FLOW PORT AREA RATED FOR A PRESSURE OF 150 PSI.
13. THE POOL DECK SHALL BE CONSTRUCTED OF CONCRETE PAVING WITH A SLIP RESISTANT FINISH.
14. ALL ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC), THE LATEST EDITION.
15. ALL METAL SURFACES SHALL BE BONDED AND GROUNDED PER THE NATIONAL ELECTRIC CODE.
16. THE POOL WATER DEPTH SHALL NOT DEVIATE MORE THAN 3" FROM THE DEPTH INDICATED BY THE ADJACENT DEPTH MARKER.
17. APPLY UV PROTECTIVE COATING TO ALL EXPOSED PLASTIC PIPING TO PREVENT UV DEGRADATION.
18. ALL EQUIPMENT SHALL BE DESIGNATED BY THE MANUFACTURER AS SUITABLE FOR OUTDOOR USE.
19. TEST KITS SHALL BE CAPABLE OF TESTING CHLORINE TO 10 PPM.
20. BULLNOSE TILE SHALL BE SLIP RESISTANT.
21. FENCING REQUIREMENTS - PROVIDE A MINIMUM 48 INCH HIGH FENCE. FENCE MEMBERS SHALL NOT ALLOW PASSAGE OF A 4-INCH DIAMETER SPHERE. FENCE SHALL BE CONTINUOUS AROUND THE PERIMETER OF THE POOL AREA THAT IS NOT OTHERWISE BLOCCED OR OBSTRUCTED BY ADJACENT BUILDINGS OR STRUCTURES AND SHALL ADJOIN WITH ITSELF OR ABUT TO THE ADJACENT MEMBERS. ACCESS THROUGH THE BARRIER OTHER THAN FROM EXITS OF ADJACENT BUILDINGS SHALL BE THROUGH SELF-CLOSING SELF-LATCHING LOCKABLE GATES OF 48 INCH MINIMUM HEIGHT WITH THE LATCH LOCATED A MINIMUM OF 54 INCHES FROM THE BOTTOM OF THE GATE OR AT LEAST 3 INCHES BELOW THE TOP OF THE GATE ON THE POOL SIDE. GATES SHALL OPEN OUTWARDS AWAY FROM THE POOL AREA.
22. A GROUND FAULT INTERRUPT RECEPTACLE SHALL BE PROVIDED WITHIN 20' BUT NO CLOSER THAN 10' FROM EACH POOL.
23. CHEMICAL FEED PUMP SHALL BE ELECTRICALLY INTERLOCKED WITH THE RESPECTIVE RECIRCULATION PUMP.
24. PROVIDE LOW VOLTAGE TRANSFORMERS FOR ALL 12V LIGHTING.
25. LABEL CHEMICAL CROCKS WITH THE CONTENTS OF EACH. PROVIDE LOCKABLE COVERS FOR EACH CROCK.
26. POOL SHALL COMPLY WITH SECTION 454.1 OF THE 2020 7TH EDITION FLORIDA BUILDING CODE.
27. ALL HORIZONTAL TILE SHALL BE SLIP RESISTANT IN LESS THAN 5' OF WATER.
28. HANDICAPPED POOL LIFTS SHALL BE CERTIFIED BY MANUFACTURER TO BE SUITABLE FOR LIFTING 300 LBS. MANUFACTURER SHALL PROVIDE WRITTEN INSTALLATION INSTRUCTIONS TO ENSURE MOUNTING ON DECK PROVIDES 300 LB LIFTING CAPACITY. POOL LIFT SHALL BE ELECTRICALLY BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC).

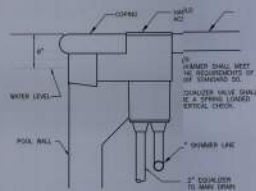
John R McDowell
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Date: 2023.06.21 21:35:14 -0500'



WATER PIPING SCHEDULE			
PIPE	PIPE SIZE	INCH DESIGN FLOW GPM	VELOCITY (FT/SEC)
MAIN DRAIN PUMP SUCTION	6	150	1.87
	8	150	1.87
SHOWER LINE	3	50	4.67
	3	100	4.34
	4	150	3.78
RETURN LINES	4	150	3.78
	3	75	2.17
	1 1/2	25	2.99

PORTABLE VACUUM PUMP

PROVIDE ELECTRICAL POWERED VACUUM PUMP,
POWERED BY A 1.0 HORSEPOWER ELECTRICAL MOTOR.
FLOW CAPACITY SHALL BE GREATER THAN 70 GPM.
PROVIDE BASKET STRAINER WITH 1" SUCTION
AND DISCHARGE. SYSTEM SHALL BE MOUNTED ON A
2-WHEELED CART, EQUAL TO RECORDS MODEL
10-805. PROVIDE A 1 1/2" X 50' INHERITED
VACUUM HOSE. PROVIDE VACUUM H- AND
ALUMINUM PULLEY.

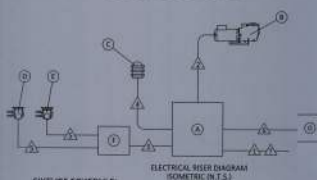
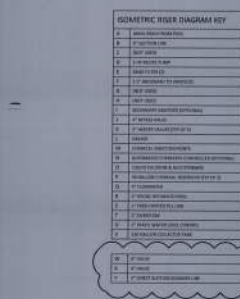
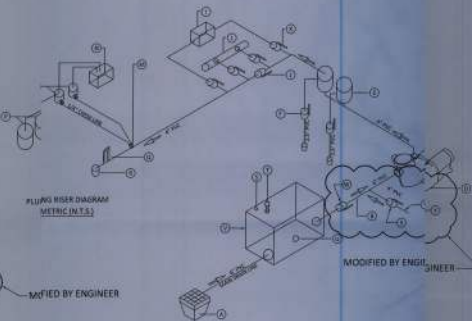
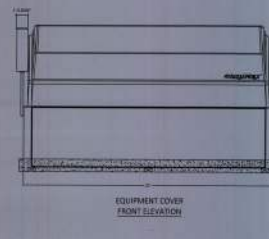
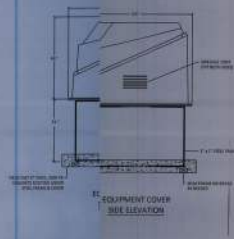
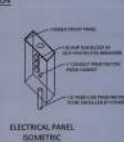
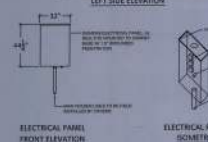
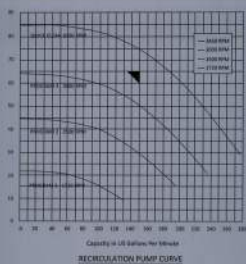


SKIMMER DETAIL

John R
McDowell

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John R McDowell
Date: 2023.06.21
21:35:54 -05'00'

SWIMMING POOL FOR
COURTYARD MARRIOTT IN LAKE CITY



FIXTURE SCHEDULE

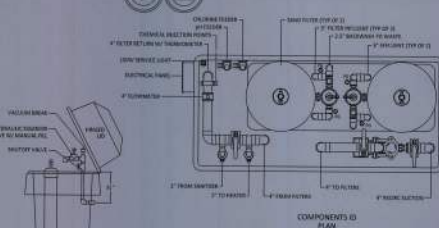
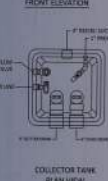
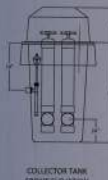
NAME	DESCRIPTION	VOLTAGE	MANUFACTURER & MODEL
(A)	MKR 150 BREAKER PANEL (52 CIRCUIT)	120/240V	GEARUP, PW150A12501
(B)	RECHARGEABLE PUMP	208-230V	MAN-1-PAC II VL 3000L
(C)	100 WATT SURGE LIGHT	115V	INTERVAC, PHOTODOL II
(D)	COLORIMETER PUMP	115V	ETTERMEX, 40145
(E)	ALCO FERRIS PUMP	115V	ETTERMEX, 40145
(F)	CHEMISTRY CONTROLLER	115V	HWKIND, CAT2000
(G)	GR7	118V	PAAS & SENNAR

FEEDER & CIRCUIT SCHEDULE

	CONDUCTORS			CONDUIT	TERMINALS
SIZE	PHASE	NEUTRAL	GROUND		
					PANEL POINT
	3-40		1-40	2"	USE TIGHTER
	1-4012	1-4012	1-4012		NEUTRAL TO PANEL
	1-4017	1-4017	1-4017	1/2"	NEUTRAL TO LIGHT
	1-4012	1-4012	1-4012	1/2"	NEUTRAL TO PANEL
	1-4012	1-4012	1-4012	1/2"	NEUTRAL TO PANEL
	CONDUCTORS AND CONDUIT MUST BE USED BY OTHERS				

PANEL SCHEDULE

THREE PHASE, 9 MW - SERVICE ON 220 VAC AND 110 VAC (W/STANDARD NEUTRAL) CURRENT WITH 200% RATING NAME PLATE TYPE, 25000A (2) NEW					
CIRCUIT	POL	TRIP	LOAD	AMPS	
1-2	3	30A QF	NET 300 W/ (2) 10000000 CHARGE	10000	10000
4	1	30A	NEUTRAL LIGHT	10000	10000
5	1	30A	QF	10000	10000
6-7	2	30A QF	NET 300 W/ (2) 10000000 CHARGE	10000	10000



1. **QUESTION:** How can I determine the number of days between two dates in Excel?

2. **ANSWER:** You can use the **DATE** function to calculate the difference between two dates.

3. **QUESTION:** How can I calculate the number of days between two dates in Excel?

4. **ANSWER:** You can use the **DATE** function to calculate the difference between two dates.

5. **QUESTION:** How can I calculate the number of days between two dates in Excel?

6. **ANSWER:** You can use the **DATE** function to calculate the difference between two dates.

7. **QUESTION:** How can I calculate the number of days between two dates in Excel?

8. **ANSWER:** You can use the **DATE** function to calculate the difference between two dates.

9. **QUESTION:** How can I calculate the number of days between two dates in Excel?

10. **ANSWER:** You can use the **DATE** function to calculate the difference between two dates.

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John R McDowell

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John R McDowell
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