

PROJECT NO. 19-00000000

CLARKNEXSEN

301 COLUMBIA STREET, SUITE 300  
 ASHEVILLE, NORTH CAROLINA 28801  
 828-237-0608

CLARKNEXSEN IIC.NSF.NUMBER: C-1078

### GENERAL PIPING NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERATIONAL PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. PIPE SIZES INDICATED ARE NOMINAL I.P.S.
3. UNLESS OTHERWISE NOTED, ALL OVERHEAD PIPING SHALL BE TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB.
4. ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (MEMORY STOPS).
5. ALL VALVES SHALL BE INSTALLED SO THAT THE VALVE REMAINS IN SERVICE WHEN THE EQUIPMENT OR PIPING ON THE EQUIPMENT SIDE OF THE VALVE IS REMOVED.
6. PROVIDE CHAIN WHEEL OPERATORS FOR ALL VALVES IN EQUIPMENT ROOMS MOUNTED GREATER THAN 7'-0" ABOVE FINISHED FLOOR LEVEL. CHAIN SHALL EXTEND TO 7'-0" ABOVE FINISHED FLOOR LEVEL.
7. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
8. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES AND SITE CONDITIONS, OFFSETS, EXPANSION LOOPS, OR TRANSITIONS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
9. ALL PIPING INDICATED SHALL BE CONSIDERED DIAGRAMMATIC.
10. ALL SWIMMING POOL PIPING ROUTED BELOW THE POOL SHELL SHALL BE SCHEDULE 80 PVC, UNLESS OTHERWISE NOTED. REFER: 12AQ6.2
11. ALL UNDERGROUND OR EXPOSED SWIMMING POOL PIPING SHALL BE SCHEDULE 80 PVC, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL REFER TO PLANS AND SPECIFICATIONS FOR ANY SPECIFIC REQUIREMENTS REGARDING PLACEMENT AND BACKFILLING OF BELOW GRADE POOL PIPE.
12. ALL DIMENSIONS INDICATED FROM THE FINISH WALL SURFACE AND DO NOT ACCOUNT FOR ANY VARIATIONS IN EITHER GRADE OR SLOPE DISTANCE.
13. THE CHEMICAL SENSOR LINE SHALL BE A 3/4" TO 1" DIAMETER, SCHEDULE 80 PVC PIPE EXTENDED FROM THE WET CELL SENSOR TO ITS RESPECTIVE TRENCH, MANHOLE AND BACKWASH CATCH BASIN OR PUMP SUCTION.
14. ALL FLOOR INLETS SHALL BE ADJUSTED TO ACHIEVE AN EVEN FLOW DISTRIBUTION THROUGHOUT SYSTEMS.
15. ALL PIPE TEES SHALL BE SIZED FOR LARGEST PIPE CONNECTION.

#### POOL PIPING WINTERIZATION NOTES

1. ALL POOL PIPING SHALL HAVE THE CAPABILITY TO BE DRAINED FOR WINTERIZATION.
2. MAIN DRAIN SUCTION PIPING SHALL BE INSTALLED WITH A CONSTANT SLOPE TO THE MAIN DRAIN.
3. OWNER INTENDS TO OPERATE REDREGULATION PUMP YEAR ROUND WITH MINIMAL CHEMICALS TO ELIMINATE POOL WINTERIZATION ACTIVITIES.

### PUMP SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	SIZE	GPM	TDH	HP	NOTES
PP1	POOL REDREGULATION PUMP	PENTAIR	EQ1000	6.4	416	72	10	1,2,3,4,5
PP2	FEATURE PUMP	PENTAIR	EQ500	6.4	220	54	5	1,2,3,5

NOTE:  
 1. THE MANUFACTURER SPECIFIED IS BASIS OF DESIGN.  
 PROVIDE INLET AND EFFLUENT GAUGES FOR EACH PUMP. PRESSURE GAUGES HAVE A RANGE OF 0-80 PSI. COMPOUND GAUGES HAVE A RANGE OF 0-30 HG / 0-80 PSI.  
 2. PUMP WITH 208 VOLT, 3 PHASE, 60 HZ, 1/2 HP MOTOR.  
 3. PROVIDE WITH CHECK VALVE.  
 4. PROVIDE VARIABLE FREQUENCY DRIVE.

### MAIN DRAIN SCHEDULE

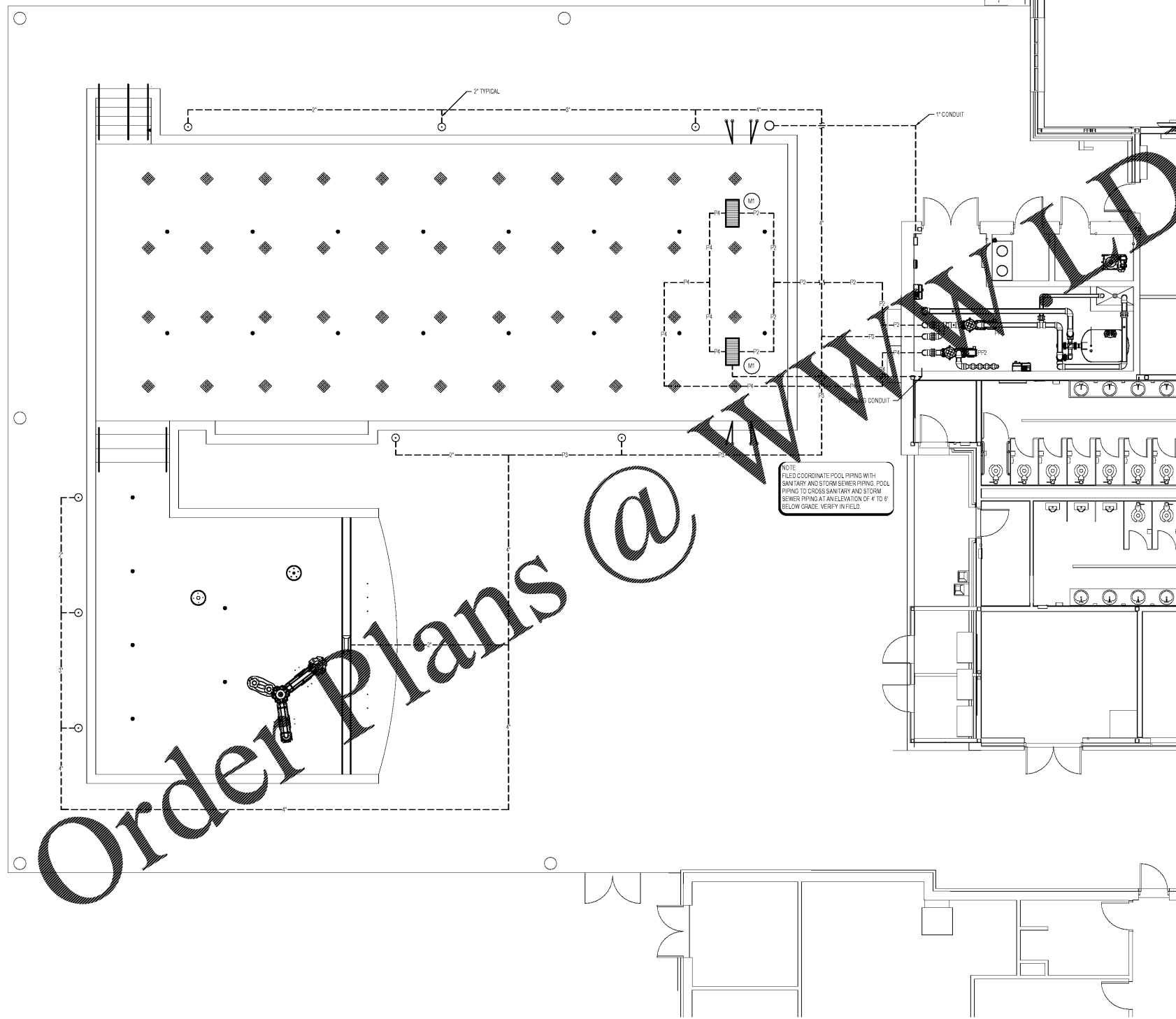
ID	DESCRIPTION	SIZE	QTY	DESIGN FLOW (GPM)	DESIGN VELOCITY (FPS)	MODEL	MANUFACTURER
MD	POOL MAIN DRAIN	18X36	2	855	0.3	M.D. FG 1655	NEPTUNE BENSION

### PIPE SCHEDULE

ID	DESCRIPTION
P1	8" FROM POOL FILTERS TO POOL INLETS
P2	8" FROM POOL MAIN DRAINS TO PP1
P3	8" FROM POOL SKIMMERS TO PP1
P4	8" FROM POOL MAIN DRAINS TO PP2
P5	8" FROM PP1 TO POOL FILTERS
P6	4" FROM P3 TO BACKWASH CATCH BASIN
P7	4" FROM PP2 TO FEATURE MANHOLE
P8	2.5" FROM FEATURE MANHOLE TO WATERBUJ NO. 4
P9	1" FROM FEATURE MANHOLE TO WATERBUJ NO. 2
P10	3" FROM FEATURE MANHOLE TO BUBBLERS
P11	2" FROM FEATURE MANHOLE TO CASCADES
P12	8" FROM POOL FILTERS TO BACKWASH CATCH BASIN
P13	1.5" FILL LINE

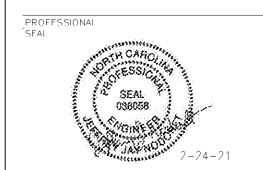
### PIPING LEGEND

LEGEND	QTY.	ITEM
▲	1	WALL INLET REFER: 7AQ6.2
●	22	FLOOR INLET REFER: 8AQ6.2
○	8	SKIMMER REFER: 10AQ6.2
■	2	MAIN DRAIN REFER: 8AQ6.2
▭	1	TRENCH SLUMP REFER: 11AQ6.2
○	1	WATER LEVEL CONTROLLER REFER: 14AQ6.1
---	NA	BELOW GRADE PIPING



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1  
 AQ4.0  
**POOL SUCTION PIPING PLAN**  
 3/16" = 1'-0"



PROFESSIONAL  
 SFAI  
 SUBMITTED  
 03.17.2021  
**CONSTRUCTION DOCUMENTS**

REVISIONS

NO.	DESCRIPTION

KFY  
 P1 AN

SHFF  
 POOL SUCTION  
 PIPING PLAN

AQ4.0