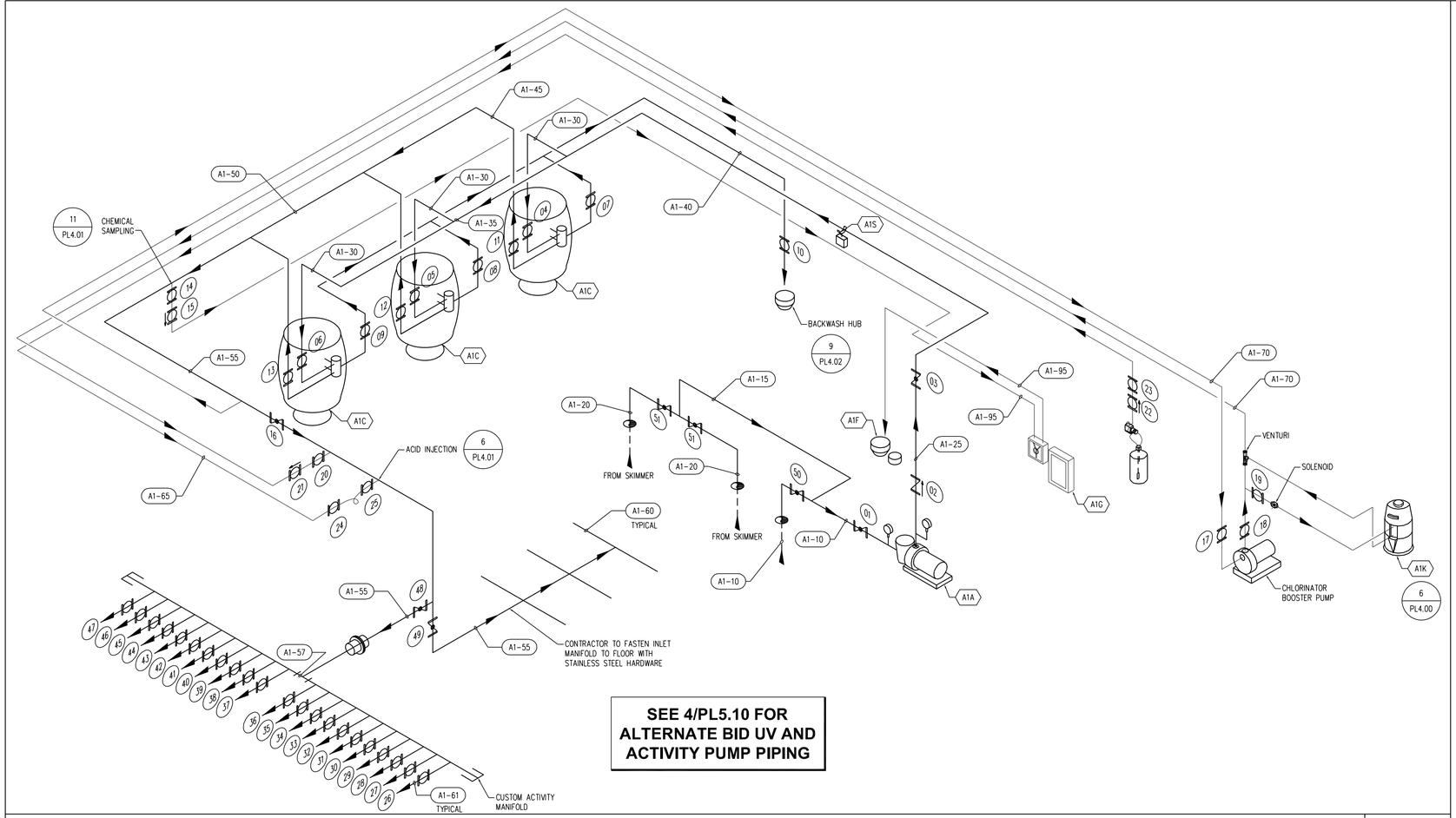
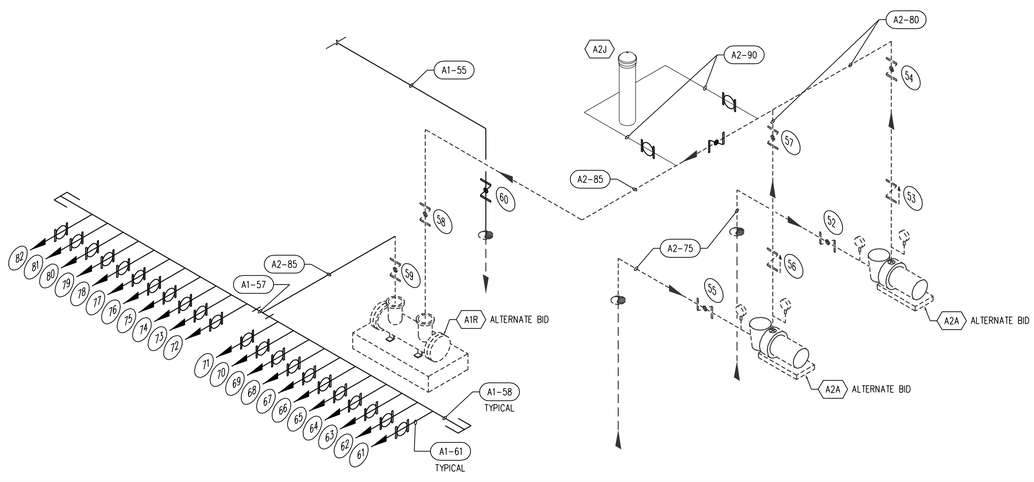


SEE 4/PL5.10 FOR ALTERNATE BID UV AND ACTIVITY PUMP PIPING

MECHANICAL ROOM PIPING ISOMETRIC

2

NONE



ALTERNATE BID - UV EQUIPMENT & PIPING AND ACTIVITY PUMPS & PIPING

4

NONE

POOL A PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
A1-10	PVC SCH 80	6	264	3.3	FILTER PUMP SUCTION
A1-15	PVC SCH 80	4	158	4.5	FILTER PUMP SKIMMER SUCTION
A1-20	PVC SCH 80	3	79	3.9	SKIMMER SUCTION
A1-25	PVC SCH 80	4	264	7.5	FILTER INFLUENT
A1-30	PVC SCH 80	2.5	88	6.9	FILTER INFLUENT
A1-35	PVC SCH 80	4	176	5.0	FILTER INFLUENT
A1-40	PVC SCH 80	3	106	5.3	FILTER BACKWASH
A1-45	PVC SCH 80	2.5	88	6.9	FILTER EFFLUENT
A1-50	PVC SCH 80	4	176	5.0	FILTER EFFLUENT
A1-55	PVC SCH 80	4	264	7.5	FILTER EFFLUENT
A1-57	PVC SCH 80	8	1000	7.1	ACTIVITY SUPLY MANIFOLD TEE
A1-58	PVC SCH 80	6	500	6.3	ACTIVITY MANIFOLD
A1-60	PVC SCH 80	2	44	4.9	FILTER EFFLUENT
A1-61	PVC SCH 80	2	92	10.0	ACTIVITY FEED
A1-65	PVC SCH 80	0.5	0	0.0	ACID INJECTION LINE
A1-70	PVC SCH 80	1.5	0	0.0	CHLORINE INJECTION LINE
A1-95	PVC SCH 80	0.75	0	0.0	CHEMICAL SAMPLING LINE
A2-75	PVC SCH 80	8	500	3.6	ACTIVITY SUCTION
A2-80	PVC SCH 80	6	500	6.3	ACTIVITY SUPPLY
A2-85	PVC SCH 80	8	1000	7.1	ACTIVITY SUPPLY
A2-90	PVC SCH 80	1	0	0.0	CHEMICAL INJECTION LOOP
	-	-	-	-	-
	-	-	-	-	-

PIPE SCHEDULE

3

NONE

VALVE LEGEND

NO	VALVE TYPE	VALVE OPERATOR	VALVE DESCRIPTION
01	BUTTERFLY	GEAR	FILTER PUMP SUCTION
02	CHECK	---	FILTER PUMP DISCHARGE
03	BUTTERFLY	GEAR	FILTER PUMP THROTTLING
04	T.U.B.V.	---	ISOLATION
05	T.U.B.V.	---	ISOLATION
06	T.U.B.V.	---	ISOLATION
07	T.U.B.V.	---	ISOLATION
08	T.U.B.V.	---	ISOLATION
09	T.U.B.V.	---	ISOLATION
10	T.U.B.V.	---	BACKWASH THROTTLING
11	T.U.B.V.	---	ISOLATION
12	T.U.B.V.	---	ISOLATION
13	T.U.B.V.	---	ISOLATION
14	T.U.B.V.	---	CHEMICAL SAMPLING
15	T.U.B.C.	---	CHEMICAL SAMPLING
16	BUTTERFLY	GEAR	SUPPLY VALVE/ALT. UV BYPASS
17	T.U.B.V.	---	CHLORINATOR BOOSTER PUMP SUCTION
18	T.U.B.V.	---	CHLORINATOR BOOSTER PUMP THROTTLING
19	T.U.B.V.	---	CHLORINATOR INFLUENT
20	T.U.B.V.	---	CHEMICAL INJECTION
21	T.U.B.C.	---	CHEMICAL INJECTION
22	T.U.B.C.	---	ACID PUMP DISCHARGE
23	T.U.B.V.	---	ACID PUMP THROTTLING
24	T.U.B.V.	---	ACID INJECTION
25	T.U.B.V.	---	ACID INJECTION
26	T.U.B.V.	---	ACTIVITY SUPPLY
27	T.U.B.V.	---	ACTIVITY SUPPLY
28	T.U.B.V.	---	ACTIVITY SUPPLY
29	T.U.B.V.	---	ACTIVITY SUPPLY
30	T.U.B.V.	---	ACTIVITY SUPPLY
31	T.U.B.V.	---	ACTIVITY SUPPLY
32	T.U.B.V.	---	ACTIVITY SUPPLY
33	T.U.B.V.	---	ACTIVITY SUPPLY
34	T.U.B.V.	---	ACTIVITY SUPPLY
35	T.U.B.V.	---	ACTIVITY SUPPLY
36	T.U.B.V.	---	ACTIVITY SUPPLY
37	T.U.B.V.	---	ACTIVITY SUPPLY
38	T.U.B.V.	---	ACTIVITY SUPPLY
39	T.U.B.V.	---	ACTIVITY SUPPLY
40	T.U.B.V.	---	ACTIVITY SUPPLY
41	T.U.B.V.	---	ACTIVITY SUPPLY
42	T.U.B.V.	---	ACTIVITY SUPPLY
43	T.U.B.V.	---	ACTIVITY SUPPLY
44	T.U.B.V.	---	ACTIVITY SUPPLY
45	T.U.B.V.	---	ACTIVITY SUPPLY
46	T.U.B.V.	---	ACTIVITY SUPPLY
47	T.U.B.V.	---	ACTIVITY SUPPLY
48	BUTTERFLY	GEAR	ACTIVITY THROTTLING
49	BUTTERFLY	GEAR	ACTIVITY THROTTLING
50	BUTTERFLY	GEAR	FILTER PUMP SUCTION
51	BUTTERFLY	GEAR	SKIMMER VALVE
52	BUTTERFLY	GEAR	ACTIVITY PUMP SUCTION
53	CHECK	---	ACTIVITY PUMP DISCHARGE
54	BUTTERFLY	GEAR	ACTIVITY PUMP THROTTLING
55	BUTTERFLY	GEAR	ACTIVITY PUMP SUCTION
56	CHECK	---	ACTIVITY PUMP DISCHARGE
57	BUTTERFLY	GEAR	ACTIVITY PUMP THROTTLING
58	BUTTERFLY	GEAR	ALT. UV UNIT INFLUENT
59	BUTTERFLY	GEAR	ALT. UV UNIT EFFLUENT
60	BUTTERFLY	GEAR	ALTERNATE VALVE
61	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
62	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
63	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
64	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
65	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
66	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
67	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
68	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
69	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
70	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
71	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
72	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
73	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
74	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
75	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
76	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
77	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
78	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
79	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
80	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
81	T.U.B.V.	---	ALT. ACTIVITY SUPPLY
82	T.U.B.V.	---	ALT. ACTIVITY SUPPLY

VALVE SCHEDULE NOTES

*	FURNISHED WITH FILTER.
T.U.B.V.	TRUE UNION BALL VALVE
T.U.B.C.	TRUE UNION BALL CHECK
S.S.E.G.	SUBMERGED SERVICE EXTENDED GEAR
NOTES:	
1	SEE PL4.00 FOR EQUIPMENT LOCATIONS.
2	SUPPORT PIPES PER DETAILS 1-7/PL4.02
3	SEE DETAIL 7/PL1.01 FOR REINFORCING AT PENETRATIONS.
4	REFER TO VALVE SCHEDULE FOR; VALVE NUMBERS, LOCATION, AND QUANTITIES.
5	ARROWS DENOTE DIRECTION OF FLOW.
6	NOTE: THE INTENT OF THIS SCHEDULE IS NOT TO INCLUSIVE OF ALL VALVES REQUIRED FOR THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ALL VALVES REQUIRED.
7	THIS DRAWING IS FOR SCHEMATIC USE ONLY.

VALVE SCHEDULE

1

NONE

UGARTE & ASSOCIATES, INC.
ARCHITECTS PLANNERS
434 9th AVENUE WEST
PALMETTO, FLORIDA 34221
PHONE (941)729-5691
FAX (941)729-5692
AA-C001654

WTI WATER TECHNOLOGY INC.

POOL A ISOMETRIC

MANATEE COUNTY – LINCOLN SPLASH PARK

REVISIONS:

PHASE: REVIEW
PROJECT NO: 2009-46
DATE: 08.16.2010
DRAWN BY: AMJ
CHK'D BY: SAL

© UGARTE & ASSOCIATES, INC. 2010

BRIAN FREBER, P.E.
LIC. NO. 60424

SHEET
PL5.10

8/12/2010 11:15 AM Andrew Jackson CAD DWG FILE: 00489 PL5.10.DWG