

1" IF THIS BAR DOES NOT MEASURE EXACTLY ONE INCH, THE SCALE OF THIS DRAWING HAS BEEN ALTERED DURING ITS PRODUCTION, AFFECTING ALL LABELED SCALES

4/17/2025 1:11:22 PM Autodesk Docs//10297.24002.CBY Airport Water System Extension/INF-MECH-10297.24002_RV23.rvt

PUMP SCHEDULE

NOTES:													
1. PUMPS SHALL BE NSF-61 COMPLIANT.													
2. REFERENCE SPECIFICATION 46 33 00.													
3. REFERENCE SPECIFICATION 43 23 31.													
4. INJECTION PUMP SHALL BE HAVE STROKE FREQUENCY CONTROL VIA 4-20mA SIGNAL INPUT.													
MARK	PUMP NAME	FLOW GPM [GPH]	HEAD FT	SETPPOINT PSIG	FLUID	RPM	ELECTRICAL DATA				BASIS OF DESIGN		NOTES
							HP [W]	V	PH	CONTROLLER	MANUFACTURER	MODEL	
RC-01	RECIRCULATION PUMP 01	20	150	65	POTABLE WATER	3550	3	480	3	VFD	GRUNDFOS	CR 10-4 A-FJ-A-E-HQQE	1,2
BP-01	BOOSTER PUMP 01	120	145	63	POTABLE WATER	3530	7.5	480	3	VFD	GRUNDFOS	CR 20-3 A-GJ-A-E-HQQE	1,2
BP-02	BOOSTER PUMP 02	120	145	63	POTABLE WATER	3530	7.5	480	3	VFD	GRUNDFOS	CR 20-3 A-GJ-A-E-HQQE	1,2
BP-03	BOOSTER PUMP 03	500	141	61	POTABLE WATER	3530	30	480	3	VFD	GRUNDFOS	NBS 030-070 2P	1,2
CP-01	CHLORINE PUMP 01	0.63 [3.8]	150	65	CALCIUM HYPOCHLORITE SOLUTION	-	[44]	115	1	-	LMI	C92	1,3,4

CHEMICAL TANK SCHEDULE

NOTES:						
1. TANK SHALL NSF 61 COMPLIANT AND COMPATIBLE FOR CONTAINMENT OF CALCIUM HYPOCHLORITE.						
2. REFERENCE SPECIFICATION DIV 46 33 00 LIQUID CHEMICAL FEED EQUIPMENT.						
MARK	SERVICE	DIMENSIONS	VOLUME (GAL)	BASIS OF DESIGN		NOTES
				MANUFACTURER	MODEL	
CT-01	CHLORINE SYSTEM	19 5/8"D x 21"H	15	PEABODY ENGINEERING	GEMINI DUAL CONTAINMENT TANK	1,2

ACTUATED VALVE SCHEDULE

NOTES:							
1. VALVES SHALL BE NSF-61, AIS, AND BABA COMPLIANT.							
2. INITIAL VALVE SIZING WAS BASED ON HYDRANT FLOW DATA. VALVE PRESSURE SETTING SHALL BE MODIFIED AS NEEDED IN THE FIELD.							
3. CONTROL VALVE WITH ROTORK IQT ELECTRIC ACTUATOR OR APPROVED EQUAL.							
4. VALVE SHALL BE INITIALLY SET TO REDUCE PRESSURE TO 25 PSI DOWNSTREAM AND SUSTAIN PRESSURE AT 55 PSI UPSTREAM.							
5. VALVE SHALL BE INTIALLY SET TO SUSTAIN PRESSURE TO 35 PSI UPSTREAM.							
6. VALVE SHALL BE SET TO SUSTAIN 20 PSIG UPSTREAM.							
7. PSV SHALL INCLUDE INTEGRAL PRESSURE RELIEF VALVE.							
8. VALVE SHALL INCLUDE INTEGRAL PRESSURE GAUGES FOR READING UPSTREAM AND DOWNSTREAM PRESSURES.							
9. REFERENCE SPECIFICATION DIV 40 05 51 PLANT VALVES.							
MARK	VALVE TYPE	LOCATION	FLUID	NOMINAL SIZE	BASIS OF DESIGN		NOTES
					MANUFACTURER	MODEL	
ARV-01	AIR RELIEF VALVE	CBY INTERTIE LINE	POTABLE WATER	-	VAL-MATIC	15A	1,9
ARV-02	AIR/VACUUM VALVE	AIRPORT SUPPLY LINE	POTABLE WATER	1-IN	VAL-MATIC	101S	1,9
LV-002	MOTORIZED BUTTERFLY VALVE	WATER TANK FILL LINE	POTABLE WATER	4-IN	DEZURIK	AWWA BUTTERFLY VALVE	1,3,9
PRV-01	PRESSURE SUSTAINING/REDUCING VALVE	CBY INTERTIE LINE	POTABLE WATER	4-IN	CLA-VAL	92G-01	1,2,4,7,8,9
PSV-01	PRESSURE SUSTAINING VALVE	WATER TANK FILL LINE	POTABLE WATER	4-IN	CLA-VAL	650G-90	1,2,5,8,9
PSV-02	PRESSURE SUSTAINING VALVE	RE-CIRCULATION LINE	POTABLE WATER	1 1/2-IN	CLA-VAL	50G-90	1,6,8,9
SV-01	PRESSURE RELIEF VALVE	AIRPORT SUPPLY LINE	POTABLE WATER	1 1/2-IN	CLA-VAL	50G-01	1,9

FLOW METER SCHEDULE

NOTES:											
1. SELECT METER WITH PTFE LINER OR COMPARABLE NSF-61 APPROVED LINER.											
2. INTIAL FILL RATE SETPOINT SHALL BE 200 GPM; OPERATOR TO FIELD ADJUST AS NECESSARY BASED ON AVAILABLE FLOW FROM CYB.											
3. REFERENCE SPECIFICATION 40 71 13 MAGNETIC FLOW METER.											
MARK	LOCATION	FLUID	TYPE	SIZE	GPM		ELECTRICAL DATA		BASIS OF DESIGN		NOTES
					MIN	MAX	V	W	MANUFACTURER	MODEL	
FIT-001	WATER TANK FILL LINE	WATER	MAGNETIC	4"	0	200	24V DC	14	BADGER	M2000	1,3
FIT-005	CBY INTERTIE LINE	WATER	MAGNETIC	4"	0	600	24V DC	14	BADGER	M2000	1,3
FIT-006	AIRPORT SUPPLY LINE	WATER	MAGNETIC	6"	20	600	24V DC	14	BADGER	M2000	1,2,3
FIT-008	RE-CIRCULATION LINE	WATER	MAGNETIC	1"	20	20	24V DC	14	BADGER	M2000	1,3

MANUAL VALVE SCHEDULE

NOTES:							
1. BASIS OF DESIGN: DEZURIK AWWA BUTTERFLY VALVE WITH MANUAL LEVER.							
2. BASIS OF DESIGN: NIBCO LEAD-FREE, FULL PORT BALL VALVES; T-585-80-LF							
3. REFERENCE SPECIFICATION DIV 40 05 51 PLANT VALVES.							
TYPE	SERVICE	MATERIAL		SIZE	CONNECTION TYPE	OPERATOR	NOTES
		BODY	SEAT				
BUTTERFLY VALVE	POTABLE WATER	CAST IRON	NBR	>= 3"	FLANGED	QUARTER TURN	1,3
BALL VALVE	POTABLE WATER	SILICON BRONZE	REINFORCED PTFE	< 3"	THREADED	QUARTER TURN	2,3

PIPE SCHEDULE

NOTES:						
1. PIPE SHALL BE NSF-61 CERTIFIED.						
2. PIPE FITTINGS ARE TO MATCH TYPE, SCHEDULE, AND CERTIFICATIONS.						
3. REFERENCE SPECIFICATION 40 05 20 PLANT PIPE AND FITTINGS.						
4. REFERENCE SPECIFICATION 22 11 16 DOMESTIC WATER PIPING.						
FLOW STREAM ID	FLOW STREAM	PIPE MATERIAL		PIPE SIZE	PRESSURE CLASS	NOTES
PW	POTABLE WATER	DUCTILE IRON		4",6",10"	50	1,2,3
PW	POTABLE WATER	COPPER		<3"	TYPE L	1,2,4
RC	RECIRCULATION WATER	DUCTILE IRON		3"	50	1,2,3
RC	RECIRCULATION WATER	COPPER		<3"	TYPE L	1,2,4

No.	Date	Item
REVISIONS		

CONSULTANT :



Juneau, AK

9102 Mendenhall Mall Rd, Ste 4
Juneau, AK 99801
Phone: 907.780.6060
www.rs2pec.com
AECC163270

PROJECT :

CITY & BOROUGH OF YAKUTAT
WATER SYSTEM EXTENSION

YAKUTAT, ALASKA

SHEET TITLE :

PROCESS SCHEDULES

DESIGN	ALN
DRAWN	TRS
CHECKED	LAR
DATE	04-16-2025

PROJECT No.	10297.24002
SHEET NUMBER	D-002