

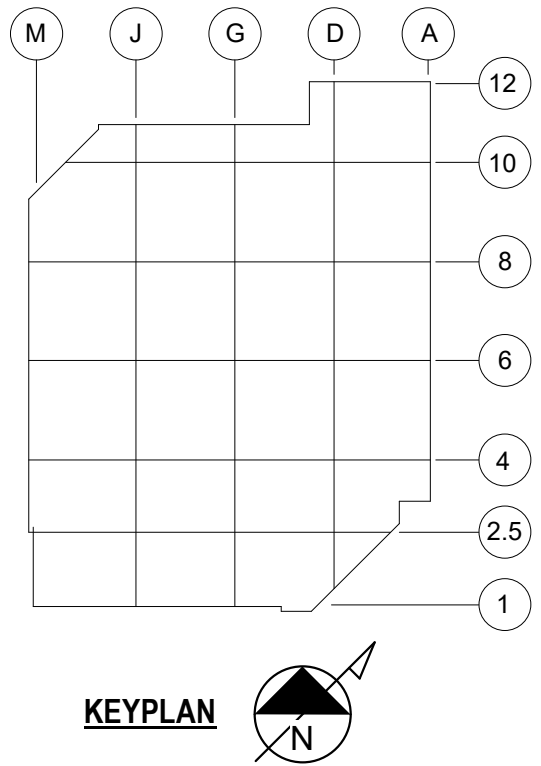
	P/N	DESCRIPTION	QTY
1	1397.0000	ENCLOSURE - 10 X 8" RAISED VYNCKIER WITH TWIST LATCH	1.0000
2	22000.1210	ENCLOSURE - 18 X 16" RAISED VYNCKIER WITH TWIST LATCH	1.0000
3	3804.0040	CELL - 240-214 3/4" 0.1 CONSTANT T1 2" C RS	2.0000
4	5551.5000	CELL - SANITARY RESISTIVITY RS 1.5 TRI 0.1C	3.0000
5	U02652.000	FLOWMETER - B/W F-451002LHN 2-20GPM 1" (USED)	1.0000
6	6759.5000	METER - M300 G2 WATER COND/RESISTIVITY ANALOG ONLY 1/4 DIN	1.0000
7	1076.0000	VALVE - 1/2" 316 SS FPT X FPT LOCKABLE BALL VALVE FULL PORT	1.0000
8	23603.0000	DISPLAY - 12" HMI PANEL VIEW PLUS 7 PERFORMANCE	1.0000
9	10003.7130	DRIVE - 2 HP 480 VAC SIZE 2 C200	2.0000
10	10003.7180	DRIVE - 20 HP 480 VAC SIZE 5 C200	1.0000
11	10003.7160	DRIVE - 7 1/2 HP 480 VAC SIZE 4 C200	2.0000
12	20120.000	DRIVE - A-B 120VAC SINGLE PH 0.5 HP 2.3A OUTPUT	1.0000
13	20416.000	EDUCTOR - 3/4" MPT SPRAYING SYSTEMS TANK MIXING EDUCTOR	1.0000
14	115.000	EJECTOR - 1"-542-2,WHITE	1.0000
15	33000.1300	ELECTRODE - INPRO 3250I/sg ISM W/ALKALI RES GLASS FOR pH & ORP	1.0000
16	2201.0000	ENCLOSURE - 24 X 24" FIBERGLASS (W/O BACKPANEL)	3.0000
17	10003.2440	ENCLOSURE - 36 X 30 X 10" VINYLESTER	1.0000
18	5354.0000	FILTER - .2 MICRON 20" HOLLOW FIBER 222/FLAT	2.0000
19	33000.1310	FILTER - .22 UM 10" CAPSULE PTFE SANITARY I/O	1.0000
20	6109.0000	FILTER - 0.1 MICRON 20" 222 FLAT CARTRIDGE	2.0000
21	7009.2910	FILTER - 5 MIC 20" MB POLY HP 222 W/FIN	5.0000
22	5840.000	FLOW METER - 0-5 SCFH DWYER	1.0000
23	10005.2340	FLOWMETER - 1-1/2" 2-20GPM B/W	1.0000
24	10005.6790	FLOWMETER - 20GPM PANEL MOUNT 1IN F-550	2.0000
25	33000.2650	FLOWMETER - 20GPM WITH VALVE PANEL MOUNT 1IN MPT	2.0000
26	10005.3720	FLOWMETER - 10GPM PANEL MOUNT WITH VALVE	2.0000
27	4208.0000	GAUGE - 0-160PSI 2 1/2"SS 1/4" NPT ASHCFT LW-MT	6.0000
28	21025.0000	VALVE - 1/4" 316 SS FPT X FPT LOCKABLE BALL VALVE FULL PORT	1.0000
29	5254.0000	GAUGE - 0-160PSI 2 -1/2"SS 1/4"NPT ASHCFT CBK-MT DRY	2.0000
30	5419.1000	GAUGE - 0-300PSI 2 1/2"SS 1/4" NPT ASHCFT BK-MT	4.0000
31	620.0000	GAUGE - 160# 1/8"NPT	5.0000
32	34000.0670	GAUGE - 2" DIAL 3/4" TC LOWER CON 0-160 USP SS	4.0000
33	10007.0660	VALVE - 1/2" MANUAL DIAPHRAGM SPIGOT PP T-342 (ASAHI)	2.0000
34	10004.1780	HOUSING - 20" VIRGIN POLYPROPYLENE KIT 3/4" I/O	4.0000
35	7004.1220	HOUSING - 5 ROUND X 20" ELEC POL 316SS 1.5" TC	1.0000
36	23962.0000	HOUSING - 8" CODELINE 1-1/2" IPS GROOVED SIDE PORTS (NOTE PORT CONFIGURATION)	4.0000
37	4938.0000	INDICATOR - PRESSURE AT 0-30 PSI - 1-1/2" SAN	1.0000
38	10005.3750	CEDI - IP-LXM24HI-3 MODULE HWS	1.0000
39	6970.0340	LAMP - 185 HX 5P 30" TOC STANDARD OPTIVENN SERIES	2.0000
40	10003.1030	VALVE - 1/2" DIAPHRAGM VALVE SPIGOT ENDS PVDF BUTT FUSED	4.0000
41	10007.2360	MAGMETER - SIGNET 2551 FLOW SENSOR 4-20 mA OUT DISPLAY RELAYS	1.0000
42	33000.1920	PRESSURE TRANSMITTER - 0-150PSI WITH LCD & MT BRACKET 1/2" FNPT	1.0000
43	10007.0510	MEMBRANE - 8" FILMTEC HRLE-440i 99.5% NaCl REDUCTION	4.0000
44	10005.6450	METER - M300 G2 WATER DUAL INPUT ANALOG OR ISM 1/4 DIN	2.0000
45	37000.084	VALVE- 2" X 1/2" ZDL - PNEUMATIC DIAPHRAGM PVDF (ASAHI)	1.0000
46	33000.4000	VENT VALVE - 2" TC TANK TOP 316SST/EPDM	1.0000
47	10004.5250	ONLINE TOC ANALYZER W/OASIS 4 BOTTLE SAMPLING SYSTEM	1.0000
48	33000.6030	OZONE AIR VENT - STAINLESS STEEL	1.0000
49	33000.6010	OZONE DESTRUCT GAS DESTRUCT DEVICE- ODS-1H	1.0000
50	33000.6000	OZONE INJECTION SYSTEM -WATERZONE 30 (30G/HR)	1.0000
51	10005.9570	PROBE - PURE O3 DISSOLVED OZONE 0-5K PPB	2.0000
52	33000.6060	REMOTE OZONE MONITOR OPTION - AIR F12	1.0000
53	10005.9550	FLOWMETER - 1/2" PVDF 0.44-4.4 GPM (ASAHI)	2.0000
54	10005.7670	FLOWMETER - 2" PVDF 4.4-40 GPM (ASAHI)	1.0000
55	33000.1930	PRESSURE TRANSMITTER - 0-150PSI 1-1/2" SANITARY W/ MOUNTING BRACKET	3.0000
56	23240.0000	PUMP - 7.5 HP 3 PH 18 STAGE GRUNDFOS HQQE SEAL	2.0000

57	33000.6100	PUMP - FPR 1742 -20 HP-SST-TEFC-480VAC WITH CASING DRAIN	1.0000
58	6521.3000	PUMP - GRUNDFOS 2 HP SS CRN3-10	1.0000
59	10005.237	PUMP - GRUNDFOS DDA METERING PUMP MODEL DDA 7.5-16-2 GPH	2.0000
60	23125.000	PUMP - MARCH TE-5.5K-MD KYNAR, 1/3 HP TEFC 230/460V 3PH	1.0000
61	602.0500	REGULATOR - 1/4" COMBO FILTER	4.0000
62	10005.6920	SENSOR - ANALOG PRESSURE TRANSMITTER 0-100 PSI	2.0000
63	10005.689	SENSOR - ANALOG PRESSURE TRANSMITTER 0-100" H2O	1.0000
64	10005.6930	SENSOR - ANALOG PRESSURE TRANSMITTER 0-250 PSI	2.0000
65	33000.4010	SENSOR - CLAMP-ON DIGITAL FLOW SENSOR	1.0000
66	10005.3780	SENSOR - CLAMP-ON DIGITAL FLOW SENSOR 1-1/2" - 2"	2.0000
67	10005.484	SENSOR - ELECTRONICS FOR 8900/9900	1.0000
68	33000.045	SENSOR - FLAT pH 1K DRYLOCK NPT	1.0000
69	10005.3900	SENSOR - MICRO FLOW CLAMP 1/2"	1.0000
70	10005.3890	SENSOR - MICRO FLOW CONTROLLER DIN MOUNT	1.0000
71	10005.3880	SENSOR - MICRO FLOW HEAD 0-2000 ML	1.0000
72	5934.0000	SPRAY BALL - 1/2" PVDF ROTATING SPRAY BALL	1.0000
73	10005.3260	STATIC MIXER - 1.5" DIA SCH80 PVC FLANGED 13" LONG	2.0000
74	10005.6970	SWITCH - PRESSURE SENSOR 0-145 PSI CDA	3.0000
75	1429.001	TANK - 300-GALLON 36"x78" VERTICAL PREM W/O	1.0000
76	33000.3960	TANK - 55 GALLON BIODIESEL INDUCTOR 24"D X 39"H (NEEDS 33000.397)	1.0000
77	29643.000	TANK - 55 GALLON PE WITH COVER	1.0000
78	33000.3970	TANK STAND - USED WITH 55 GALLON TANK (NEEDS 33000.396)	1.0000
79	33000.6120	VALVE - 1-1/2" SANITARY CONTROL SST 8802 BURKERT	2.0000
80	10003.2180	PUMP - CRNS-5 3 PHASE 2HP 5 STAGE SS FLANGED	1.0000
81	33000.4340	TANK - 250 GAL TERRAPURE PE W/STAND	1.0000
82	10003.285	TRANSMITTER SINGLE CHANNEL PANEL MOUNT	1.0000
83	6970.2040	UV UNIT - OPTIVENN SERIES OPV02CDM DISINFECTION 110-120V 50/60 HZ	1.0000
84	6970.2120	UV UNIT - OPTIVENN SERIES 10DTL TOC 110-120V 50/60 HZ	1.0000
85	6970.2500	UV UNIT - VL200 AQUAFINE DISINFECTION UNIT	1.0000
86	37000.0820	VALVE - 1 X 1/2" POLYPURE PP T-343 MAN DIA ZDL SPIGOT (ASAHI)	2.0000
87	546.3440	VALVE - 1" BALL PVC BODY TRUE UNION 546 - EPDM SEAL	8.0000
88	10007.0910	VALVE - 1" POLYPURE PP T-342 MAN DIA SPIGOT (ASAHI)	4.0000
89	33000.5870	VALVE - 1" PRESSURE RELIEF PP, PLASTOMATIC	1.0000
90	3620.0000	VALVE - 1" PVC/EPDM SPIGOT Y-CHECK	6.0000
91	23041.000	VALVE - 1" TU PVC/EPDM DIASTAR (10+) DIAPHRAGM FC	3.0000
92	23982.000	VALVE - 1" TU PVC/EPDM DIASTAR (10+) DIAPHRAGM FO	2.0000
93	546.342	VALVE - 1/2" BALL PVC BODY TRUE UNION 546 - EPDM SEAL	4.0000
94	6593.1500	VALVE - 1/2" PARAFLARE MANUAL VALVE	2.0000
95	10003.1900	VALVE - 1/2" PVC AIR ACTUATED FSC EPDM (DIASTAR)	1.0000
96	10003.6340	VALVE - 1/2" PVC AIR ACTUATED FSO EPDM (DIASTAR)	1.0000
97	3461.000	VALVE - 1/2" PVC/EPDM SPIGOT Y CHECK	1.0000
98	1287.0150	VALVE - 1/4" EXHAUST BALL - SAFETY VALVE	4.0000
99	2074.0000	VALVE - 1/4" MALE X M LABCOCK ALCPVTXT02 (ASAHI)	8.0000
100	546.3460	VALVE - 1-1/2" BALL PVC BODY TRUE UNION 546 - EPDM SEAL	13.0000
101	10007.0940	VALVE - 1-1/2" POLYPURE PP T-342 MAN DIA SPIGOT	2.0000
102	10003.1940	VALVE - 1-1/2" PVC AIR ACTUATED FSC EPDM (DIASTAR)	3.0000
103	3464.0000	VALVE - 1-1/2" PVC/EPDM SPIGOT Y-CHECK	2.0000
104	10004.8360	VALVE - 1-1/2" TWO WAY DIAPHRAGM SPIGOT (ASAHI)	1.0000
105	10007.0560	VALVE - 2" MANUAL DIAPHRAGM SPIGOT PP T-342 (ASAHI)	2.0000
106	23928.0000	VALVE - 2" TWO WAY MANUAL DIAPHRAGM SPIGOT PTFE (ASAHI)	9.0000
107	33000.5850	VALVE - 2" ZDL X 1/2" BRANCH PVDF DIAPHRAGM (ASAHI)	4.0000
108	37000.0830	VALVE - 2" ZDL X 1-1/2" BRANCH PVDF DIAPHRAGM (ASAHI)	2.0000
109	33000.6160	VALVE - 3" TC 2-WAY 316L SST TYPE 653	1.0000
110	33000.4140	VALVE - 1-1/2"x 3/4" ZDL PVDF (ASAHI)	1.0000
111	3792.000	VALVE - 3/4" MANUAL DIAPHRAGM VALVE	1.0000
112	34000.2590	VALVE - 20MM PPN/PTFE T342 MANUAL VLV 3/4 TC (ASAHI)	1.0000
113	22000.2230	METER - M300 G2 WATER DUAL INPUT ANALOG OR ISM 1/2 DIN	1.0000

114	3300.3650	PUMP - HUSKY 1/4" PP PNEU DIA	
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PROJECT LOCATION

6701 EVANSTAD DR N
MAPLE GROVE, MN 55369



CLIENT

UPSHER-SMITH

Partners in Health Since 1919

CONSULTING ENGINEER

7400 49th AVENUE NORTH
NEW HOPE, MN 55428
(763) 533-1900
www.horwitzinc.com

PROJECT TITLE

PROJECT KEYSTONE - PHASE 1

REV	BY	DATE	DESCRIPTION
A	1706C21	FOR RECORD	
0	RS	05/25/22	AS RECORDED

LICENSEE

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Date 05/25/22 LIC NO

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PROJ. NO.	2022.1720	DESIGNED BY:	Designer
SCALE:	12" = 1'-0"	CHECKED BY:	Checker
SHEET SIZE:	30x42	APPROVED BY:	Approver

DRAWING TITLE

VENDOR VALVE AND APPURTENANCE SCHEDULE

DRAWING NUMBER

PID-7111.1

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