

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
GENERAL REQUIREMENTS									
1		Supervision	1	LS	\$ -	\$ -	\$0	\$0	
2		Permits	1	LS	\$ -	\$ -	\$0	\$0	
3		Final Clean-up	1	LS	\$ -	\$ -	\$0	\$0	
4		Mobilization Costs	1	LS	\$ -	\$ -	\$0	\$0	
5		Project Overheads	1	LS	\$ -	\$ -	\$0	\$0	
6		Bonds	1	LS	\$ -	\$ -	\$0	\$0	
7		Temporary Control & Facilities	1	LS	\$ -	\$ -	\$0	\$0	
8		Scaffolding	1	LS	\$ -	\$ -	\$0	\$0	
		Subtotal (General Requirements)							\$0
DIVISION 22- PLUMBING									
		FIXTURE							
9		Sink	1	EA	\$ -	\$ -	\$0	\$0	
10		Water Heater	1	EA	\$ -	\$ -	\$0	\$0	
11		Safety Shower	1	EA	\$ -	\$ -	\$0	\$0	
12		Thermostatic Mixing Valve	1	EA	\$ -	\$ -	\$0	\$0	
13		1-1/2" Dia Backflow Preventer	1	EA	\$ -	\$ -	\$0	\$0	
14		Trench Drain TD-1	1	EA	\$ -	\$ -	\$0	\$0	
15		Hub Drain HD1	7	EA	\$ -	\$ -	\$0	\$0	
16		Floor Drain FD2	4	EA	\$ -	\$ -	\$0	\$0	
		OVERFLOW PIPE LINE							
17		3" Dia SDR 26 PVC Pipe Line	65	FT	\$ -	\$ -	\$0	\$0	SDR 26 PVC PIPE W/ FITTING SOLVENT CEMENT JOINT
		OVERFLOW PIPE LINE FITTING							
18		3" Dia 45 Degree Elbow	5	EA	\$ -	\$ -	\$0	\$0	
19		3"x4" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
20		3" Dia Wye Tee	1	EA	\$ -	\$ -	\$0	\$0	
		FLOOR DRAIN PIPE LINE UNDER SLAB							
21		4" Dia SDR 26 PVC Pipe Line	155	FT	\$ -	\$ -	\$0	\$0	SDR 26 PVC PIPE W/ FITTING SOLVENT CEMENT JOINT
22		6" Dia SDR 26 PVC Pipe Line	33	FT	\$ -	\$ -	\$0	\$0	
		FLOOR DRAIN PIPE LINE							
23		4" Dia SDR 26 PVC Pipe Line	76	FT	\$ -	\$ -	\$0	\$0	
24		6" Dia SDR 26 PVC Pipe Line	39	FT	\$ -	\$ -	\$0	\$0	
		FLOOR DRAIN PIPE LINE RISER							
25		6" Dia SDR 26 PVC Pipe Line	10	FT	\$ -	\$ -	\$0	\$0	
		FLOOR DRAIN PIPE LINE FITTING							
26		4" Dia 45 Degree Elbow	15	EA	\$ -	\$ -	\$0	\$0	
27		4" Dia 90 Degree Elbow	8	EA	\$ -	\$ -	\$0	\$0	
28		4" Dia Wye Tee	11	EA	\$ -	\$ -	\$0	\$0	
29		6" Dia 45 Degree Elbow	3	EA	\$ -	\$ -	\$0	\$0	
30		6" Dia 90 Degree Elbow	4	EA	\$ -	\$ -	\$0	\$0	
31		6" Dia Wye Tee	2	EA	\$ -	\$ -	\$0	\$0	
32		6"x4" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
33		6"x4" Wye Tee	3	EA	\$ -	\$ -	\$0	\$0	
		DRAIN PIPE LINE							
34		6" Dia HDPE DR11 Pipe Line	18	FT	\$ -	\$ -	\$0	\$0	
		DRAIN PIPE LINE FITTING							
35		6" Dia 90 Degree Elbow	1	EA	\$ -	\$ -	\$0	\$0	
36		6" Dia Wall Penetration	1	EA	\$ -	\$ -	\$0	\$0	
		VENT PIPE LINE							
37		4" Dia SDR26 PVC Pipe Line Under Slab	20	FT	\$ -	\$ -	\$0	\$0	SDR 26 PVC PIPE W/ FITTING SOLVENT CEMENT JOINT
38		4" Dia SDR26 PVC Pipe Line	5	FT	\$ -	\$ -	\$0	\$0	
		VENT PIPE LINE RISER							
39		4" Dia SDR26 PVC Pipe Line	65	FT	\$ -	\$ -	\$0	\$0	
		VENT PIPE LINEFITTING							
40		4" Dia 45 Degree Elbow	5	EA	\$ -	\$ -	\$0	\$0	
41		4" Dia 90 Degree Elbow	5	EA	\$ -	\$ -	\$0	\$0	
42		4" Dia Vent Through Roof	5	EA	\$ -	\$ -	\$0	\$0	
		COLD WATER PIPE LINE							
43	ASSUME SPEC FOR DOMESTIC PIPE	2" Dia Cold Water Pipe Line	10	FT	\$ -	\$ -	\$0	\$0	TYPE L COPPER PIPE
44		1" Dia Cold Water Pipe Line	95	FT	\$ -	\$ -	\$0	\$0	
		HOT WATER PIPE LINE							
45		1" Dia Hot Water Pipe Line	80	FT	\$ -	\$ -	\$0	\$0	
		DOMESTIC FITTING							
46		2"x1" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
47		2"x1-1/2" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	

		Dynamic Estimation Inc. Website: https://dynamicestimation.net/ Email: info@dynamicestimation.net Phone: 859-515-2045		PROJECT ID: DAWN FOOD PRODUCTS INC.					
		SCOPE: HVAC & PLUMBING							
ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
48		2" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
49		1" Dia Tee	3	EA	\$ -	\$ -	\$0	\$0	
50		1" Dia 90 Degree Elbow	3	EA	\$ -	\$ -	\$0	\$0	
		SUPPORT FOR PVC PIPE							
51		Galv Threaded Hanger Rod With Lock Nut @ 5' O.C	97	EA	\$ -	\$ -	\$0	\$0	
52		3" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	13	EA	\$ -	\$ -	\$0	\$0	
53		4" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	60	EA	\$ -	\$ -	\$0	\$0	
54		6" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	20	EA	\$ -	\$ -	\$0	\$0	
		SUPPORT FOR DOMESTIC PIPE							
55		Galv Threaded Hanger Rod With Lock Nut @ 10' O.C	19	EA	\$ -	\$ -	\$0	\$0	
56		1" Dia Clevis Hanger With Insulation & SS Steel Shield @ 10' O.C	1	EA	\$ -	\$ -	\$0	\$0	
57		2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 10' O.C	18	EA	\$ -	\$ -	\$0	\$0	
		TRENCH FOR UNDER GROUND PIPE							
58		Excavation Size: 1'0"x3'0"	23	CY	\$ -	\$ -	\$0	\$0	
59		#9 Crushed Stone Backfill	8	CY	\$ -	\$ -	\$0	\$0	
60		Native Soil Back Fill	16	CY	\$ -	\$ -	\$0	\$0	
61		Saw Cut	420	FT	\$ -	\$ -	\$0	\$0	
		Subtotal (Plumbing)							\$0
DIVISION 23- HVAC									
		VENT PIPE LINE							PVC PIPE W/ FITTING SOLVENT CEMENT JOINT
62		4" Dia Sch 80 PVC Vent Pipe Line	68	FT	\$ -	\$ -	\$0	\$0	
63		4" Dia Sch 80 Silo Vent Pipe Line	73	FT	\$ -	\$ -	\$0	\$0	
64		6" Dia Sch 40 PVC Pipe Line	39	FT	\$ -	\$ -	\$0	\$0	
65		6" Dia Sch 80 PVC Vent Pipe Line	24	FT	\$ -	\$ -	\$0	\$0	
66		12" Dia Sch 80 Silo Vent Pipe Line	13	FT	\$ -	\$ -	\$0	\$0	
		VENT PIPE FITTING							Stainless Steel 304 Pipe With Buttwelded Joint
67		4" Dia Sch 80 90 Degree Elbow	16	EA	\$ -	\$ -	\$0	\$0	
68		4" Dia Sch 80 Tee	5	EA	\$ -	\$ -	\$0	\$0	
69		6" Dia 90 Sch 40 Degree Elbow	3	EA	\$ -	\$ -	\$0	\$0	
70		6" Dia PVC Flange	1	EA	\$ -	\$ -	\$0	\$0	
71		6" Dia Sch 40 Tee	1	EA	\$ -	\$ -	\$0	\$0	
72		6" Dia Sch 80 90 Degree Elbow	4	EA	\$ -	\$ -	\$0	\$0	
73		6"x4" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
74		12" Dia sch 80 90 Degree Elbow	2	EA	\$ -	\$ -	\$0	\$0	
75		12" Dia Sch 80 Tee	2	EA	\$ -	\$ -	\$0	\$0	
76		12" Dia Single Vent Connection	2	EA	\$ -	\$ -	\$0	\$0	
77		12"x4" Dia Sch 80 Reducer	2	EA	\$ -	\$ -	\$0	\$0	
78		4"X1" Dia Reducer	4	EA	\$ -	\$ -	\$0	\$0	
		VENT PIPE VALVES							
79		6" Dia Tideflex Chack Valve	1	EA	\$ -	\$ -	\$0	\$0	
80		4" Dia Check Valve	3	EA	\$ -	\$ -	\$0	\$0	
81		1" Dia Ball Valve	4	EA	\$ -	\$ -	\$0	\$0	
82		1" Dia Drip Leg	3	EA	\$ -	\$ -	\$0	\$0	
		INFLUENT PIPE LINE							
83		3" Dia Sch 10 SS Flush Pipe Line	8	FT	\$ -	\$ -	\$0	\$0	
84		4" Dia Sch 10 SS Influent Pipe Line	56	FT	\$ -	\$ -	\$0	\$0	
85		6" Dia Sch 10 SS Influent Pipe Line	216	FT	\$ -	\$ -	\$0	\$0	
86		8" Dia Sch 10 SS Influent Pipe Line	8	FT	\$ -	\$ -	\$0	\$0	
		INFLUENT PIPE LINE FITTING							
87		4" Dia Flanges	14	EA	\$ -	\$ -	\$0	\$0	
88		6" Dia Flanges	68	EA	\$ -	\$ -	\$0	\$0	
89		8" Dia Flanges	18	EA	\$ -	\$ -	\$0	\$0	
90		4" Dia Gasket	6	EA	\$ -	\$ -	\$0	\$0	
91		6" Dia Gasket	34	EA	\$ -	\$ -	\$0	\$0	
92		8" Dia Gasket	9	EA	\$ -	\$ -	\$0	\$0	
93		3" Dia 90 Degree Elbow	3	EA	\$ -	\$ -	\$0	\$0	
94		4" Dia 45 Degree Elbow	2	EA	\$ -	\$ -	\$0	\$0	
95		4" Dia 90 Degree Elbow	2	EA	\$ -	\$ -	\$0	\$0	
96		6" Dia 45 Degree Elbow	3	EA	\$ -	\$ -	\$0	\$0	
97		6" Dia 90 Degree Elbow	22	EA	\$ -	\$ -	\$0	\$0	
98		6" Dia Slab Sleeve	2	EA	\$ -	\$ -	\$0	\$0	
99		6" Dia Tee	7	EA	\$ -	\$ -	\$0	\$0	
100		6"x1" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
101		6"x2" dia Reducer	4	EA	\$ -	\$ -	\$0	\$0	
102		6"X4" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
103		8" Dia Tee	2	EA	\$ -	\$ -	\$0	\$0	
104		8"x6" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
		INFLUENT PIPE LINE VALVE							
105		1" Dia Ball Valve	14	EA	\$ -	\$ -	\$0	\$0	
106		2" dia Ball Valve	5	EA	\$ -	\$ -	\$0	\$0	
107		3" Dia Ball Valve	1	EA	\$ -	\$ -	\$0	\$0	
108		4" Dia Check Valve	2	EA	\$ -	\$ -	\$0	\$0	
109		4" Dia Knife Gate Valve	2	EA	\$ -	\$ -	\$0	\$0	



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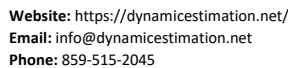
PROJECT ID:

DAWN FOOD PRODUCTS INC.

SCOPE:

HVAC & PLUMBING

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
110		4" Dia Knife Gate valve	2	EA	\$ -	\$ -	\$0	\$0	Stainless Steel 304 Pipe With Buttwelded Joint
111		6" Dia Buttefly Valve	4	EA	\$ -	\$ -	\$0	\$0	
112		6" Dia Check Valve	8	EA	\$ -	\$ -	\$0	\$0	
113		6" Dia Check Valve	4	EA	\$ -	\$ -	\$0	\$0	
114		6" Dia Knife Gate valve	2	EA	\$ -	\$ -	\$0	\$0	
115		6" Dia Knife Gate valve	3	EA	\$ -	\$ -	\$0	\$0	
		AIR PIPE LINE							
116		4" Dia Sch 10 CS Pipe Line	98	FT	\$ -	\$ -	\$0	\$0	
117		6" Dia Sch 10 CS Pipe Line	10	FT	\$ -	\$ -	\$0	\$0	Stainless Steel 304 Pipe With Buttwelded Joint
118		12" Dia Sch 10 CS Pipe Line	62	FT	\$ -	\$ -	\$0	\$0	
		AIR PIPE LINE FITTING							
119		4" dia 45 Degree Elbow	3	EA	\$ -	\$ -	\$0	\$0	
120		4" Dia 90 Degree Elbow	8	EA	\$ -	\$ -	\$0	\$0	
121		6" Dia 90 Degree Elbow	3	EA	\$ -	\$ -	\$0	\$0	
122		12" Dia 45 Degree Elbow	3	EA	\$ -	\$ -	\$0	\$0	
123		12" Dia 90 Degree Elbow	4	EA	\$ -	\$ -	\$0	\$0	
124		12" Dia Blind Flange	1	EA	\$ -	\$ -	\$0	\$0	
125		12" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
126		12" Dia Wye Tee	3	EA	\$ -	\$ -	\$0	\$0	
127		12"x4" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
128		12"x6" Dia Reducer	3	EA	\$ -	\$ -	\$0	\$0	
129		12"x8" Dia Reducer	3	EA	\$ -	\$ -	\$0	\$0	
130		4" Dia Flange	2	EA	\$ -	\$ -	\$0	\$0	
131		6" Dia Flange	6	EA	\$ -	\$ -	\$0	\$0	
132		12" Dia Flange	2	EA	\$ -	\$ -	\$0	\$0	
133		6" Dia Gasket	5	EA	\$ -	\$ -	\$0	\$0	
		AIR PIPE LINE VALVES							
134		4" Dia High Performance Butterfly Valve	1	EA	\$ -	\$ -	\$0	\$0	
135		4" Dia Check Valve	2	EA	\$ -	\$ -	\$0	\$0	
136		12" Dia High PErformance Butterfly Valve	2	EA	\$ -	\$ -	\$0	\$0	
137		8" Dia High Performance Butterfly Valve	3	EA	\$ -	\$ -	\$0	\$0	
138		8" Dia Bello	3	EA	\$ -	\$ -	\$0	\$0	
		MBBR RECIRC PUMP SUCTION/DISCHARGE PIPE LINE							
139		3" Dia Sch 10 SS MBBR Recirc Pump Suction Pipe Line	29	FT	\$ -	\$ -	\$0	\$0	Stainless Steel 304 Pipe With Buttwelded Joint
		MBBR RECIRC PUMP SUCTION PIPE LINE							
140		3" Dia Sch 10 SS MBBR Recirc Pump Discharge Pipe Line	65	FT	\$ -	\$ -	\$0	\$0	
		MBBR RECIRC PUMP SUCTION PIPE LINE FITTING							
141		3" Dia 90 Degree Elbow	5	EA	\$ -	\$ -	\$0	\$0	
142		3" Dia 45 Degree Elbow	2	EA	\$ -	\$ -	\$0	\$0	
143		3" Dia Flange	4	EA	\$ -	\$ -	\$0	\$0	
144		3" Dia Gasket	2	EA	\$ -	\$ -	\$0	\$0	
									Stainless Steel 304 Pipe With Buttwelded Joint
		WALL SLEEVE							
145		4" Dia SDR 26 PVC Wall Sleeve	1	EA	\$ -	\$ -	\$0	\$0	
146		6" Dia SDR 26 PVC Wall Sleeve	3	EA	\$ -	\$ -	\$0	\$0	
		LOAD OUT PUMP DISCHARGE PIPE LINE							
147		6" Dia Sch 10 SS Load Out Pump Dishcharge Pipe Line	221	FT	\$ -	\$ -	\$0	\$0	
148		3" Dia Sch 10 SS Load Out Pump Dishcharge Pipe Line	35	FT	\$ -	\$ -	\$0	\$0	
		LOAD OUT PUMP DISCHARGE PIPE LINE FITTING							
149		6" Dia Flange	30	EA	\$ -	\$ -	\$0	\$0	Stainless Steel 304 Pipe With Buttwelded Joint
150		6" Dia Gasket	15	EA	\$ -	\$ -	\$0	\$0	
151		3" Dia 90 Degree Elbow	4	EA	\$ -	\$ -	\$0	\$0	
152		6" Dia 45 Degree Elbow	4	EA	\$ -	\$ -	\$0	\$0	
153		6" Dia 90 Degree Elbow	21	EA	\$ -	\$ -	\$0	\$0	
154		6" Dia Tee	4	EA	\$ -	\$ -	\$0	\$0	
155		6" Dia wall Sleeve	1	EA	\$ -	\$ -	\$0	\$0	
156		6"x3" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
		LOAD OUT PUMP DISCHARGE PIPE LINE VALVE							
157		6" Dia Knife Gate Valve	3	EA	\$ -	\$ -	\$0	\$0	Stainless Steel 304 Pipe With Buttwelded Joint
		PRIMARY DAF DISCHARGE PIPE LINE							
158		6" Dia Sch 10 SS Primary DAF Discharge Pipe Line	157	FT	\$ -	\$ -	\$0	\$0	
159		6" Dia Sch 10 SS Primary DAF Discharge Pipe Line Under Slab	8	FT	\$ -	\$ -	\$0	\$0	
160		4" Dia Sch 10 SS Primary DAF Discharge Pipe Line	100	FT	\$ -	\$ -	\$0	\$0	
		PRIMARY DAF DISCHARGE PIPE LINE FITTING							
161		4" Dia Flange	24	EA	\$ -	\$ -	\$0	\$0	
162		6" Dia Flanges	34	EA	\$ -	\$ -	\$0	\$0	
163		6" Dia Gasket	30	EA	\$ -	\$ -	\$0	\$0	
164		4" Dia 45 Degree Elbow	2	EA	\$ -	\$ -	\$0	\$0	
165		4" Dia 90 Degree Elbow	7	EA	\$ -	\$ -	\$0	\$0	
166		4" Dia Tee	6	EA	\$ -	\$ -	\$0	\$0	
167		6" Dai Wall Sleeve	1	EA	\$ -	\$ -	\$0	\$0	
168		6" Dia 90 Degree Elbow	10	EA	\$ -	\$ -	\$0	\$0	



SCOPE: HVAC & PLUMBING

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
169		6" Dia Floor Sleeve	1	EA	\$ -	\$ -	\$0	\$0	
170		6" Dia Tee	5	EA	\$ -	\$ -	\$0	\$0	
171		6"x4" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
172		4"x2" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
		PRIMARY DAF DISCHARGE PIPE LINE VALVE							
173		6" Dia Valve	1	EA	\$ -	\$ -	\$0	\$0	
174		6" Dia Knife Gate valve	5	EA	\$ -	\$ -	\$0	\$0	
175		4" Dia Knife Gate Valve	5	EA	\$ -	\$ -	\$0	\$0	
176		6" Dia Check Valve	3	EA	\$ -	\$ -	\$0	\$0	
177		2" dia Ball Valve	2	EA	\$ -	\$ -	\$0	\$0	
		EQ TANK RECIRC PIPE LINE							
178		8" Dia Sch 80 SS EQ Tank Recirc Pipe Line	40	FT	\$ -	\$ -	\$0	\$0	Stainless Steel 304 Pipe With Buttwelded Joint
		EQ TANK RECIRC PIPE LINE FITTING							
179		8" Dia 90 Degree Elbow	2	EA	\$ -	\$ -	\$0	\$0	
180		8" Dia 45 Degree Elbow	1	EA	\$ -	\$ -	\$0	\$0	
181		8" Dia Flange	8	EA	\$ -	\$ -	\$0	\$0	
182		8" Dia Gasket	4	EA	\$ -	\$ -	\$0	\$0	
183		8"X6" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
184		8"x2" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
185		6" Dia Flanges	2	EA	\$ -	\$ -	\$0	\$0	
186		6" Dia Gasket	1	EA	\$ -	\$ -	\$0	\$0	
		EQ TANK RECIRC PIPE LINE VALVE							
187		8" Dia Knife Gate Valve	1	EA	\$ -	\$ -	\$0	\$0	
		DIFFUSER PIPE LINE							
188		6" Dia Sch 10 SS Diffuser Pipe Line	3	FT	\$ -	\$ -	\$0	\$0	Stainless Steel 304 Pipe With Buttwelded Joint
		DIFFUSER PIPE LINE FITTING							
189		6" Dia Flange	1	EA	\$ -	\$ -	\$0	\$0	
190		6" Dia Gasket	1	EA	\$ -	\$ -	\$0	\$0	
191		6" Dia End Cap	1	EA	\$ -	\$ -	\$0	\$0	
192		Diffuser Head Support Leg	1	EA	\$ -	\$ -	\$0	\$0	
193		D24 Diffuser	6	EA	\$ -	\$ -	\$0	\$0	
		EQ TRANSFER PUMP SUCTION/DISCHARGE PIPE LINE							
194		4" Dia Sch 10 SS EQ Transfer Pump Discharge Pipe Line	28	FT	\$ -	\$ -	\$0	\$0	Stainless Steel 304 Pipe With Buttwelded Joint
195		4" Dia Sch 10 SS EQ Transfer Pump Suction Pipe Line	29	FT	\$ -	\$ -	\$0	\$0	
196		6" Dia Sch 10 SS EQ Transfer Pump Discharge Pipe Line	21	FT	\$ -	\$ -	\$0	\$0	
		EQ TRANSFER PUMP SUCTION/DISCHARGE PIPE LINE FITTING							
197		4" Dia Flange	36	EA	\$ -	\$ -	\$0	\$0	
198		6" Dia Flanges	4	EA	\$ -	\$ -	\$0	\$0	
199		6" Dia Gasket	20	EA	\$ -	\$ -	\$0	\$0	
200		4" Dia 90 Degree Elbow	6	EA	\$ -	\$ -	\$0	\$0	
201		4" Dia Flange	3	EA	\$ -	\$ -	\$0	\$0	
202		4" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
203		6" Dia 90 Degree Elbow	1	EA	\$ -	\$ -	\$0	\$0	
204		6"x4" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
205		8"x4" dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
206		4"x1" dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
		EQ TRANSFER PUMP SUCTION/DISCHARGE PIPE LINE VALVE							
207		4" Dia Butterfly Valve	2	EA	\$ -	\$ -	\$0	\$0	
208		8" Dia Bello	2	EA	\$ -	\$ -	\$0	\$0	
209		6" Dia Check Valve	1	EA	\$ -	\$ -	\$0	\$0	
210		2" Dia Ball Valve	3	EA	\$ -	\$ -	\$0	\$0	
211		1" Dia Ball Valve	5	EA	\$ -	\$ -	\$0	\$0	
212		8" Dia Knife Gate Valve	2	EA	\$ -	\$ -	\$0	\$0	
		APF PIPE LINE							
213		6" Dia Sch 10 SS Line To APF	51	FT	\$ -	\$ -	\$0	\$0	Stainless Steel 304 Pipe With Buttwelded Joint
214		4" Dia Sch 10 SS Line To APF	1	FT	\$ -	\$ -	\$0	\$0	
		APF PIPE LINE FITTING							
215		6" Dia Flange	8	EA	\$ -	\$ -	\$0	\$0	
216		6" Dia Gasket	4	EA	\$ -	\$ -	\$0	\$0	
217		4" Dia Flange	2	EA	\$ -	\$ -	\$0	\$0	
218		4" Dia 90 Degree Elbow	1	EA	\$ -	\$ -	\$0	\$0	
219		6"x4" Dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
220		6" Dia 90 Degree Elbow	6	EA	\$ -	\$ -	\$0	\$0	
221		6" Dia 45 Degree Elbow	1	EA	\$ -	\$ -	\$0	\$0	
222		6" Dia Tee	1	EA	\$ -	\$ -	\$0	\$0	
		APF PIPE LINE VALVES							
223		6" Dia Butterfly Valve	1	EA	\$ -	\$ -	\$0	\$0	
224		6" Dia Check Valve	1	EA	\$ -	\$ -	\$0	\$0	
		MBBR OVERFLOW PIPE LINE							



Dynamic Estimation Inc.

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PROJECT ID:

DAWN FOOD PRODUCTS INC.

SCOPE:

HVAC & PLUMBING

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
225		4" Dia Sch 10 SS Overflow Pipe Line	83	FT	\$ -	\$ -	\$0	\$0	Stainless Steel 304 Pipe With Buttwelded Joint
		MBBR OVERFLOW PIPE LINE FITTING							
226		4" Dia 90 Degree Elbow	10	EA	\$ -	\$ -	\$0	\$0	
227		4" Dia Tee	2	EA	\$ -	\$ -	\$0	\$0	
228		4" Dia Flanges	14	EA	\$ -	\$ -	\$0	\$0	
229		4" Dia Gasket	7	EA	\$ -	\$ -	\$0	\$0	
230		4" Dia 45 Degree Elbow	2	EA	\$ -	\$ -	\$0	\$0	
		MBBR OVERFLOW PIPE LINE VALVE							
231		4" Dia Butterfly Valve	1	EA	\$ -	\$ -	\$0	\$0	
		SECONDARY DAF SLUGE PIPE LINE							
232		3" Dia Sch 10 SS Sluge Pipe Line	76	FT	\$ -	\$ -	\$0	\$0	Stainless Steel 304 Pipe With Buttwelded Joint
		SECONDARY DAF SLUGE PIPE LINE FITTING							
233		3" Dia 90 Degree Elbow	9	EA	\$ -	\$ -	\$0	\$0	
234		3" Dia Tee	2	EA	\$ -	\$ -	\$0	\$0	
235		3" Dia 45 Degree Elbow	2	EA	\$ -	\$ -	\$0	\$0	
		SECONDARY DAF SLUGE PIPE LINE VALVE							
236		3" Dia Knife Gate Valve	2	EA	\$ -	\$ -	\$0	\$0	
		SECONDARY DAF PIPE LINE							
237		6" Dia Sch 10 SS Pipe Line	19	FT	\$ -	\$ -	\$0	\$0	
238		4" Dia Sch 10 SS Pipe Line	5	FT	\$ -	\$ -	\$0	\$0	
		SECONDARY DAF PIPE LINE FITTING							Stainless Steel 304 Pipe With Buttwelded Joint
239		6" Dia 90 Degree Elbow	4	EA	\$ -	\$ -	\$0	\$0	
240		6" Dia Flanges	2	EA	\$ -	\$ -	\$0	\$0	
241		6" Dia Gasket	2	EA	\$ -	\$ -	\$0	\$0	
242		6"x4" Dia Reducer	1	EA	\$ -	\$ -	\$0	\$0	
243		4" Dia Flanges	2	EA	\$ -	\$ -	\$0	\$0	
244		4" Dia 90 Degree Elbow	1	EA	\$ -	\$ -	\$0	\$0	
		SECONDARY DAF PIPE LINE VALVES							
245		4" Dia Butterfly Valve	1	EA	\$ -	\$ -	\$0	\$0	
		DISCHARGE PIPE LINE							
246		1/2" Dia Sch 80 CPVC Pipe Line	20	FT	\$ -	\$ -	\$0	\$0	PVC PIPE W/ FITTING SOLVENT CEMENT JOINT
247		1"x1/2" dia Reducer	2	EA	\$ -	\$ -	\$0	\$0	
248		1"x1/2" Dia Ball Valve	8	EA	\$ -	\$ -	\$0	\$0	
		SUPPORT FOR PVC PIPE							
249		Galv Threaded Hanger Rod With Lock Nut @ 5' O.C	48	EA	\$ -	\$ -	\$0	\$0	
250		1/2" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	4	EA	\$ -	\$ -	\$0	\$0	
251		4" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	28	EA	\$ -	\$ -	\$0	\$0	
252		6" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	5	EA	\$ -	\$ -	\$0	\$0	
253		12" Dia Clevis Hanger With Insulation & SS Steel Shield @ 5' O.C	3	EA	\$ -	\$ -	\$0	\$0	
		SUPPORT FOR STEEL PIPE							
254		Galv Threaded Hanger Rod With Lock Nut @ 10' O.C	126	EA	\$ -	\$ -	\$0	\$0	PVC PIPE W/ FITTING SOLVENT CEMENT JOINT
255		3" Dia Clevis Hanger With Insulation & SS Steel Shield @ 10' O.C	21	EA	\$ -	\$ -	\$0	\$0	
256		4" Dia Clevis Hanger With Insulation & SS Steel Shield @ 10' O.C	31	EA	\$ -	\$ -	\$0	\$0	
257		6" Dia Clevis Hanger With Insulation & SS Steel Shield @ 10' O.C	70	EA	\$ -	\$ -	\$0	\$0	
258		12" Dia Clevis Hanger With Insulation & SS Steel Shield @ 10' O.C	5	EA	\$ -	\$ -	\$0	\$0	
		EQUIPMENTS							
259		Chemical Feed Pump CHD101-CP01 MFR: ProMinent MODEL: S1CBH04084PVTS070UD11001EN01 Sigma Pumps One (1) ProMinent Sigma 1 #S1CBH04084PVTS 26.7 gph @ 58 psig, with 3/4" End Connections and 15 Ft. Control Cable. Refer to Sigma Pumps Optional Accessories. Note: Specify the chemical being pumped.	1	EA	\$ -	\$ -	\$0	\$0	
260		Chemical Feed Pump CHD101-CP02 MFR: ProMinent MODEL: S1CBH04084PVTS070UD11001EN01 Sigma Pumps One (1) ProMinent Sigma 1 #S1CBH04084PVTS 26.7 gph @ 58 psig, with 3/4" End Connections and 15 Ft. Control Cable. Refer to Sigma Pumps Optional Accessories. Note: Specify the chemical being pumped.	1	EA	\$ -	\$ -	\$0	\$0	
261		Chemical Feed Pump CHD101-CP03 MFR: ProMinent MODEL: S1CBH04084PVTS070UD11001EN01 Sigma Pumps One (1) ProMinent Sigma 1 #S1CBH04084PVTS 26.7 gph @ 58 psig, with 3/4" End Connections and 15 Ft. Control Cable. Refer to Sigma Pumps Optional Accessories. Note: Specify the chemical being pumped.	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
262		Chemical Feed Pump CHD101-CP04 MFR: ProMinent MODEL: S1CBH04084PVTs070UD11001EN01 Sigma Pumps One (1) ProMinent Sigma 1 #S1CBH04084PVTs 26.7 gph @ 58 psig, with ¾" End Connections and 15 Ft. Control Cable. Refer to Sigma Pumps Optional Accessories. Note: Specify the chemical being pumped.	1	EA	\$ -	\$ -	\$0	\$0	
263		Chemical Feed Pump CHD101-CP05 MFR: ProMinent MODEL: S1CBH04084PVTs070UD11001EN01 Sigma Pumps One (1) ProMinent Sigma 1 #S1CBH04084PVTs 26.7 gph @ 58 psig, with ¾" End Connections and 15 Ft. Control Cable. Refer to Sigma Pumps Optional Accessories. Note: Specify the chemical being pumped.	1	EA	\$ -	\$ -	\$0	\$0	
264		Chemical Feed Pump CHD101-CP06 MFR: ProMinent MODEL: S1CBH04084PVTs070UD11001EN01 Sigma Pumps One (1) ProMinent Sigma 1 #S1CBH04084PVTs 26.7 gph @ 58 psig, with ¾" End Connections and 15 Ft. Control Cable. Refer to Sigma Pumps Optional Accessories. Note: Specify the chemical being pumped.	1	EA	\$ -	\$ -	\$0	\$0	
265		Chemical Feed Pump CHD101-CP07 MFR: ProMinent MODEL: S1CBH04084PVTs070UD11001EN01 Sigma Pumps One (1) ProMinent Sigma 1 #S1CBH04084PVTs 26.7 gph @ 58 psig, with ¾" End Connections and 15 Ft. Control Cable. Refer to Sigma Pumps Optional Accessories. Note: Specify the chemical being pumped.	1	EA	\$ -	\$ -	\$0	\$0	
266		Chemical Feed Pump CHD101-CP08 MFR: ProMinent MODEL: S1CBH04084PVTs070UD11001EN01 Sigma Pumps One (1) ProMinent Sigma 1 #S1CBH04084PVTs 26.7 gph @ 58 psig, with ¾" End Connections and 15 Ft. Control Cable. Refer to Sigma Pumps Optional Accessories. Note: Specify the chemical being pumped.	1	EA	\$ -	\$ -	\$0	\$0	
267		Containment Skid Chemical Dosing CHD101-CS01	1	EA	\$ -	\$ -	\$0	\$0	
268		Containment Skid Chemical Dosing CHD101-CS02	1	EA	\$ -	\$ -	\$0	\$0	
269		Containment Skid Chemical Dosing CHD101-CS03	1	EA	\$ -	\$ -	\$0	\$0	
270		Containment Skid Chemical Dosing CHD101-CS04	1	EA	\$ -	\$ -	\$0	\$0	
271		Containment Skid Chemical Dosing CHD101-CS05	1	EA	\$ -	\$ -	\$0	\$0	
272		Make Down System CHD101-MDS05 MFR: ProMinent MODEL: 7749265 ProMinent Chemical Dosing System Packages ? Polymer Solution. #7749265 (Sigma/1 Pump, 26 gph)	1	EA	\$ -	\$ -	\$0	\$0	
273		Mixer CHD101-MX05	1	EA	\$ -	\$ -	\$0	\$0	
274		Rotometer CHD101-RM05	1	EA	\$ -	\$ -	\$0	\$0	
275		Solenoid Valve CHD101-SV05 MFR: BRAY MODEL: 7103-3-R-R-SRB-0634-630250-21401536 Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
		EQUIPMENT							
276		LFS101-AE01: Analytical Probe Manufacturer: Endress & Hauser Model #: CPS16E-1009/0 (CPS16E-AA7BTA2) Equipment Description:pH / ORP- combined electrode, Memosens functionality, Diaphragm PTFE, Reference Gel, Signal transmission digital, temperatur sensor integrated, ORP platinum electrode. AAApproval: Nonhazardous area 7Electrode Type: Basic version, zero point pH 7,0, ORP,rH value, temperature sensor NTC 30k BApplication Range: 0-14 pH, 0...135oC, 0,8...17 bar (abs) ORP Platinum, - 1500...1500 mV TAreference System: PTFE ring junction, ion trap, 3 M KCl, Ag/AgCl 2Shaft Length: 120mm	1	EA	\$ -	\$ -	\$0	\$0	
277		LFS101-ARV01: Air Release Valve Manufacturer: APCO Model #: ASR,2,400,T1,DI,R14,NBR,S2-S1-S2*BFK Equipment Description: Valve Style: 2" Apco Model 400.1 Sewage Service Air Release Valve End Connections: Threaded NPT Body Material: Ductile Iron (ASTM A536 Gr 65-45-12) Orifice Size: 1/4" (11-150 psi) Needle Material: Buna Seat Material: 316 Stainless Steel (ASTM A276 T316) Float Ball: 304 Stainless Steel (ASTM A240 T304) Float Lever: 316 Stainless Steel (ASTM A276 T316) Accessories: Backflush Attachment Kit	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
278		LFS101-ARV02: Air Release Valve Manufacturer: APCO Model #: ASR,2,400,T1,DI,R14,NBR,S2-S1-S2*BKF Equipment Description: Valve Style: 2” Apco Model 400.1 Sewage Service Air Release Valve End Connections: Threaded NPT Body Material: Ductile Iron (ASTM A536 Gr 65-45-12) Orifice Size: 1/4" (11-150 psi) Needle Material: Buna Seat Material: 316 Stainless Steel (ASTM A276 T316) Float Ball: 304 Stainless Steel (ASTM A240 T304) Float Lever: 316 Stainless Steel (ASTM A276 T316) Accessories: Backflush Attachment Kit	1	EA	\$ -	\$ -	\$0	\$0	
279		LFS101-FS01: Flow Switch Manufacturer: Endress & Hauser Model #: DTT31-A1A111DE2BAB Equipment Description: Flow switch, intelligent, programmable. Sensor: Calorimetric principle. Protection: IP65. AApproval: Non-hazardous area 1Electrical Connection: Plug M12 APower Supply; Output: 18-30VDC; 1x switch PNP 1Display: Digital 1Application; Measuring Range: Liquid, -20...+85oC, 0.03-3m/s 1Adjustment: On site DEProcess Connection; Material: NPT1/2 male thread ANSI; 316L 2BInsertion Length L; Diameter D: 50 mm; 6mm AAdditional Option; Material Certificate: Basic version; not needed BVersion: Standard, documentation English	1	EA	\$ -	\$ -	\$0	\$0	
280		LFS101-LE01: Submersible Level Element Manufacturer: Endress & Hauser Model #: FMX21-3W670/0 (FMX21-AA221GGE20A+POPW) Equipment Description:Level measurement, Submersible Hydrostatic. Level probe. Process membrane: CERAPHIRE, dry,rugged. Typ. ref. accuracy +/-0.2% (Platinum 0.1%). :: Integrated overvoltage protection. AAApproval: Non-hazardous area 2Output: 4-20mA HART 2Probe Tube: 316L, d=42mm/1.66in, flush mount 1GSensor Range: 600mbar/60kPa/9psi gauge, 6mH2O/20ftH2O/240inH2O GReference Accuracy: Standard ECalibration; Unit: Sensor range; inH2O/ftH2O 20Probe Connection: 30ft cable, shortable, PE ASeal: FKM PO>>Accessory Enclosed: Suspension clamp, 316L PW>>Accessory Enclosed: Shortening kit extension cable	1	EA	\$ -	\$ -	\$0	\$0	
281		LFS101-LSH01: Level Switch Manufacturer: MJK Model #: 7030 Equipment Description: MJK Mechanical level float switch model 7030, 30' cable and cable bracket	1	EA	\$ -	\$ -	\$0	\$0	
282		LFS101-LSHH01: Level Switch Manufacturer: MJK Model #: 7030 Equipment Description: MJK Mechanical level float switch model 7030, 30' cable and cable bracket	1	EA	\$ -	\$ -	\$0	\$0	
283		LFS101-LSL01: Level Switch Manufacturer: MJK Model #: 7030 Equipment Description: MJK Mechanical level float switch model 7030, 30' cable and cable bracket	1	EA	\$ -	\$ -	\$0	\$0	
284		LFS101-LSLL01: Level Switch Manufacturer: MJK Model #: 7030 Equipment Description: MJK Mechanical level float switch model 7030, 30' cable and cable bracket	1	EA	\$ -	\$ -	\$0	\$0	
285		LFS101-PI01: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254CC/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range -30-0-30 PSI. With Diaphragm Seal	1	EA	\$ -	\$ -	\$0	\$0	
286		LFS101-PI02: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254D/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range -30-0-30 PSI. With Diaphragm Seal	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
287		LFS101-PI03: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254CC/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range -30-0-30 PSI. With Diaphragm Seal	1	EA	\$ -	\$ -	\$0	\$0	
288		LFS101-PI04: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254D/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range -30-0-30 PSI. With Diaphragm Seal	1	EA	\$ -	\$ -	\$0	\$0	
289		LFS101-SB01: Strainer Basket	1	EA	\$ -	\$ -	\$0	\$0	
290		LFS101-SP01: Submersible Pump Manufacturer: BJM Model #: 201181 Equipment Description: BJM J08 Submersible Pump - Item 201181 Flow: 50 GPM Head: 29 FT Construction: Cast Iron/304SS Seal: CARBON/ SILICON CARBIDE, FKM Upper, SILICON CARBIDE/SILICON CARBIDE, FKM Lower Motor: 1 HP, 3450 RPM, 3PH, 460V	1	EA	\$ -	\$ -	\$0	\$0	
291		LFS101-SS01: Sample Sink Manufacturer: Lee's Model #: 0 Equipment Description: 304 SS Sample Sink per TPG Standard Drawing	1	EA	\$ -	\$ -	\$0	\$0	
292		LFS101-UP01: Lift Pump Manufacturer: Gorman Rupp Model #: T4A61S-BF Equipment Description: Gorman Rupp T4A61S-BF Assembly Suction: 4" (100 mm) Discharge: 4" (100 mm) Solids Handling: 3.00" (76 mm) To Be Run at 1365RPM by VFD 350 GPM at 49.1' of Head Casing: Cast Iron Impeller/Rotor: Stainless Steel Seal Material: Silicon Carbide Flange: ANSI Spool Direct Drive on a Fabricated Steel Baseplate 15HP, 1800RPM, 230/460V TEFC Motor	1	EA	\$ -	\$ -	\$0	\$0	
293		LFS101-UP02: Lift Pump Manufacturer: Gorman Rupp Model #: T4A61S-BF Equipment Description: Gorman Rupp T4A61S-BF Assembly Suction: 4" (100 mm) Discharge: 4" (100 mm) Solids Handling: 3.00" (76 mm) To Be Run at 1365RPM by VFD 350 GPM at 49.1' of Head Casing: Cast Iron Impeller/Rotor: Stainless Steel Seal Material: Silicon Carbide Flange: ANSI Spool Direct Drive on a Fabricated Steel Baseplate 15HP, 1800RPM, 230/460V TEFC Motor	1	EA	\$ -	\$ -	\$0	\$0	
294		STR101-ARV01: Air Release Valve Manufacturer: APCO Model #: ASR,2,400,T1,DI,R14,NBR,S2-S1-S2*BFK Equipment Description: Valve Style: 2" Apco Model 400.1 Sewage Service Air Release Valve End Connections: Threaded NPT Body Material: Ductile Iron (ASTM A536 Gr 65-45-12) Orifice Size: 1/4" (11-150 psi) Needle Material: Buna Seat Material: 316 Stainless Steel (ASTM A276 T316) Float Ball: 304 Stainless Steel (ASTM A240 T304) Float Lever: 316 Stainless Steel (ASTM A276 T316) Accessories: Backflush Attachment Kit	1	EA	\$ -	\$ -	\$0	\$0	
295		STR101-DPT01: Differential Pressure Transmitter	1	EA	\$ -	\$ -	\$0	\$0	

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296		STR101-FE01: Flow Meter Manufacturer: Endress & Hauser Model #: 5W4C1F-2Q3F6/0 (5W4C1F-AAHLNN1LQA12GA) Equipment Description: Electromagnetic flowmeter Inline version. Application: Ideal for water measurement e.g. drinking water, utility water and industrial/municipal wastewater. International drinking water approvals. Installation length: DVGW/ISO conform. Corrosion-resistant transmitter version. Same housing for compact/remote version. :: Versatile standard flowmeter for the water and wastewater industry :: Constant accuracy with 0 x DN inlet run and no pressure loss (optional) 010: AAAApproval: Non-hazardous area HDesign: Lap joint flange, 0 x DN inlet/ outlet runs LPower Supply: 100-240VAC/24VAC/DC NOutput; Input: EtherNet/IP NHousing: Remote, polycarbonate 1Cable, Remote Version: 5m/15ft coil and signal cable LElectrical Connection: Plug M12x1 + thread NPT1/2 QLiner: PTFE 90oC A12Process Connection: Cl.150, carbon steel, lap joint flange ASME B16.5 GElectrodes: 1.4435/316L, bullet nose ACalibration Flow: 0.5%	1	EA	\$ -	\$ -	\$0	\$0	
297		STR101-PI01: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254D/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range 0-60 PSI. With Diaphragm Seal	1	EA	\$ -	\$ -	\$0	\$0	
298		STR101-PI02: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254D/DSMLP12316-LT Equipment Description:	1	EA	\$ -	\$ -	\$0	\$0	
299		STR101-PV01: Strainer Flush Valve Manufacturer: Durco/Promation Equipment Description: Included in STR101-ST01 3” Promation actuator & 3” flanged Durco plug valve (SS body with 316ss plug). Flush valve comes factory mounted.	1	EA	\$ -	\$ -	\$0	\$0	
300		STR101-SB01: Screen Flush Strainer Manufacturer: Lee's Model #: 0 Equipment Description: 4' x 3' x 3' stainless steel strainer basket and tank. Tank will have one 6 inch drain connection and 4- 9 inch high legs with mount down holes.	1	EA	\$ -	\$ -	\$0	\$0	
301		STR101-SR01: Sample Refrigerator Manufacturer: DANBY Model #: DAR026A1BDD Equipment Description: 2.6 cu ft Refrigerator Capacity, 26 7/8 in Overall Ht, 17 5/8 in Overall Wd. Item #:10N668 Mfr. Model #: DAR026A1BDD UNSPSC #: 52141501 Catalog Page #: 1464	1	EA	\$ -	\$ -	\$0	\$0	
302		STR101-SR02: Sample Refrigerator Manufacturer: DANBY Model #: DAR026A1BDD Equipment Description: 2.6 cu ft Refrigerator Capacity, 26 7/8 in Overall Ht, 17 5/8 in Overall Wd. Item #:10N668 Mfr. Model #: DAR026A1BDD UNSPSC #: 52141501 Catalog Page #: 1464	1	EA	\$ -	\$ -	\$0	\$0	
303		STR101-SV01: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
304		STR101-SV02: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
305		STR101 SV03: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
306		STR101 SV04: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
307		Strainer STR101 SV05	1	EA	\$ -	\$ -	\$0	\$0	
308		Strianer STR101 SV06	1	EA	\$ -	\$ -	\$0	\$0	
309		STR101-VCP01: Vendor Control Panel Manufacturer: The Hellan Strainer Co Model #: SSP-A2D-P Equipment Description: Control panel, wall mounted design. Panel comes with 304ss enclosure, NEMA-4X enclosure designed for 460v/3ph. Panel comes complete ready for field installation.	1	EA	\$ -	\$ -	\$0	\$0	
310		STR101-ST01: Strainer Manufacturer: The Hellan Strainer Co. Model #: 0601DA15080XXX Equipment Description: 6" In-line self-cleaning strainer. Strainer assembly comes with cast iron body (ASTM A278), 6" 125-lb flat face flanges (ANSI Class B16.1), internally & externally epoxy coated, dual 1/8" stainless steel perforated screens, screens scraper bars, screen drive motors & gearboxes. Note: Flush valve & DP switch come factory mounted.	1	EA	\$ -	\$ -	\$0	\$0	
311		STR101-ST02: Strainer Manufacturer: Amiad Model #: 133-031009-000054 Equipment Description: 8" Brushaway Filter with Stainless Steel Screen & CIK 3500 Micron	1	EA	\$ -	\$ -	\$0	\$0	
		EQUIPMENT1							
312		HST101-AE01: Analytical Probe Manufacturer: Endress & Hauser Model #: CPS16E-1009/0 (CPS16E-AA7BTA2) Equipment Description: pH / ORP- combined electrode, Memosens functionality, Diaphragm PTFE, Reference Gel, Signal transmission digital, temperatur sensor integrated, ORP platinum electrode. AAApproval: Nonhazardous area 7Electrode Type: Basic version, zero point pH 7,0, ORP,rH value, temperature sensor NTC 30k BApplication Range: 0-14 pH, 0...135oC, 0,8...17 bar (abs) ORP Platinum, -1500...1500 mV TReference System: PTFE ring junction, ion trap, 3 M KCl, Ag/AgCl 2Shaft Length: 120mm	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
313		HST101-AG01: Mix Nozzle Manufacturer: kLA Model #: K4DJM-1 Equipment Description: KLa Systems Model K4DJM-1 Directional Flanged Jet Mixing Nozzles (1 per tank) with a 6-inch flange connection fabricated of FRP. Type 18-8 interface hardware is included.	1	EA	\$ -	\$ -	\$0	\$0	
314		HST101-ARV01: Air Release Valve Manufacturer: APCO Model #: ASR,2,400,T1,DI,R14,NBR,S2-S1-S2*BFK Equipment Description: Valve Style: 2" Apco Model 400.1 Sewage Service Air Release Valve End Connections: Threaded NPT Body Material: Ductile Iron (ASTM A536 Gr 65-45-12) Orifice Size: 1/4" (11-150 psi) Needle Material: Buna Seat Material: 316 Stainless Steel (ASTM A276 T316) Float Ball: 304 Stainless Steel (ASTM A240 T304) Float Lever: 316 Stainless Steel (ASTM A276 T316) Accessories: Backflush Attachment Kit	1	EA	\$ -	\$ -	\$0	\$0	
315		HST101-EV01: Control Valve Manufacturer: Bray/Auma Model #: 31-0600-11010-325*PF300 Equipment Description: 6": Bray Series 31 Resilient Seated Butterfly End Connections: ANSI Class 125 Lugged Body Material: Ductile Iron (ASTM A536) Seat Seal Material: Buna-n Disc Material: 316 Stainless Steel Shaft Material: 316 Stainless Steel Actuator: Auma Profox Electric Motor Operator 24V DC, NEMA 4 Enclosure, Actuator Supplied with Handwheel Override Open and Closed Position and Torque Relays, Heater and Thermostat, Visual Position Indication Green Open, Red Closed, Blue for Bluetooth Indicator. Non-intrusive actuator set-up. PF150: 32 Second Speed of Operation PF300: 45 Second Speed of Operation	1	EA	\$ -	\$ -	\$0	\$0	
316		HST101-FCV01: Flow Control Valve Manufacturer: DeZurik Model #: PEC,4,F1,CI,NBR,CR*SQR07.2,AC01.2 Equipment Description: 4" - DeZurik - AUMA SOR Series Electric Motor Operator. Modulating service. Supplied with AUMA Aumatic Non-Intrusive Integral Motor Controls with EtherNet/IP Interface. Includes Electro- Mechanical Motor Starters, Power Supply, Automatic Phase Correction, Compartment Heater, MWG Magnetic Limit and Torque Encoder. Local Controls Include: 3 Pushbuttons (OPEN I STOP I CLOSE), 5 Indicating Lights and Padlockable Selector Switch (LOCAL I OFF I REMOTE)	1	EA	\$ -	\$ -	\$0	\$0	
317		HST101-FE01: Flow Meter Manufacturer: Endress & Hauser Model #: 5W4C1F-2Q3F6/0 (5W4C1F-AAHLNN1LQA12GA) Equipment Description: Electromagnetic flowmeter Inline version. Application: Ideal for water measurement e.g. drinking water, utility water and industrial/municipal wastewater. International drinking water approvals. Installation length: DVGW/ISO conform. Corrosion-resistant transmitter version. Same housing for compact/remote version. :: Versatile standard flowmeter for the water and wastewater industry :: Constant accuracy with 0 x DN inlet run and no pressure loss (optional) 010: AAApproval: Non-hazardous area HDesign: Lap joint flange, 0 x DN inlet/ outlet runs LPower Supply: 100-240VAC/24VAC/DC NOutput; Input: EtherNet/IP NHousing: Remote, polycarbonate 1Cable, Remote Version: 5m/15ft coil and signal cable LElectrical Connection: Plug M12x1 + thread NPT1/2 QLiner: PTFE 90oC A12Process Connection: Cl.150, carbon steel, lap joint flange ASME B16.5 GElectrodes: 1.4435/316L, bullet nose ACalibration Flow: 0.5%	1	EA	\$ -	\$ -	\$0	\$0	



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PROJECT ID: DAWN FOOD PRODUCTS INC.

SCOPE: HVAC & PLUMBING

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
318		HST101-FS01: Flow Switch Manufacturer: Endress & Hauser Model #: DTT31-A1A111DE2BAB Equipment Description: Flow switch, intelligent, programmable. Sensor: Calorimetric principle. Protection: IP65. AApproval: Non-hazardous area 1Electrical Connection: Plug M12 APower Supply; Output: 18-30VDC; 1x switch PNP 1Display: Digital 1Application; Measuring Range: Liquid, -20...+85oC, 0.03-3m/s 1Adjustment: On site DEProcess Connection; Material: NPT1/2 male thread ANSI; 316L 2BInsertion Length L; Diameter D: 50 mm; 6mm AAdditional Option; Material Certificate: Basic version; not needed BVersion: Standard, documentation English	1	EA	\$ -	\$ -	\$0	\$0	
319		HST101-LE01: Flange Mounted Level Element Manufacturer: Endress & Hauser Model #: PMP51B-TQD8/0 (PMP51B-AABADB6AA3HEAAAFJA1) Equipment Description: Pressure, piezoresistive. Pressure transmitter. Compact/diaphragm seal. Application: pressure/level. Metal membrane: fully welded, high process pressure and temperature. Local or remote operation via Bluetooth (optional). Approval: Non-hazardous area Output: 2-wire 4-20mA HART Display; Operation: Segment display w/o buttons + Bluetooth Housing; Material: Single compartment; Alu, coated Electrical Connection: Thread NPT1/2, IP66/68 NEMA Type 4X/6P Pressure Type: Gauge Application: Standard Diaphragm Seal Type: W/o Sensor Range: 1bar/100kPa/15psi Calibration; Unit: Sensor range; inH2O/ftH2O Process Connection, Sealing Surface: Flange ASME B16.5, RF Process Connection: NPS 3" Cl.150, 316/316L Membrane Material; Application: 316L; standard Fill Fluid: Silicone oil, standard	1	EA	\$ -	\$ -	\$0	\$0	
320		HST101-LE02: Flange Mounted Level Element Manufacturer: Endress & Hauser Model #: PMP51B-TQD8/0 (PMP51B-AABADB6AA3HEAAAFJA1) Equipment Description: Pressure, piezoresistive. Pressure transmitter. Compact/diaphragm seal. Application: pressure/level. Metal membrane: fully welded, high process pressure and temperature. Local or remote operation via Bluetooth (optional). Approval: Non-hazardous area Output: 2-wire 4-20mA HART Display; Operation: Segment display w/o buttons + Bluetooth Housing; Material: Single compartment; Alu, coated Electrical Connection: Thread NPT1/2, IP66/68 NEMA Type 4X/6P Pressure Type: Gauge Application: Standard Diaphragm Seal Type: W/o Sensor Range: 1bar/100kPa/15psi Calibration; Unit: Sensor range; inH2O/ftH2O Process Connection, Sealing Surface: Flange ASME B16.5, RF Process Connection: NPS 3" Cl.150, 316/316L Membrane Material; Application: 316L; standard Fill Fluid: Silicone oil, standard	1	EA	\$ -	\$ -	\$0	\$0	
321		HST101-LSHH01:Level Switch Manufacturer: MJK Model #: 7030 Equipment Description: MJK Mechanical level float switch model 7030, 30' cable and cable bracket	1	EA	\$ -	\$ -	\$0	\$0	
322		HST101-PI01: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254D/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range 0-60 PSI. With Diaphragm Seal.	1	EA	\$ -	\$ -	\$0	\$0	
323		HST101-PI02: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254D/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range 0-60 PSI. With Diaphragm Seal.	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
324		HST101-SR01: Sample Refrigerator Manufacturer: DANBY Model #: DAR026A1BDD Equipment Description: 2.6 cu ft Refrigerator Capacity, 26 7/8 in Overall Ht, 17 5/8 in Overall Wd. Item #:10N668 Mfr. Model #: DAR026A1BDD UNSPSC #: 52141501 Catalog Page #: 1464	1	EA	\$ -	\$ -	\$0	\$0	
325		HST101-SV01: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
326		HST101-SV02: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
327		HST101-TK01: HSW Tank Manufacturer: GPI Composites Equipment Description: 168" Dia x 418" Side Sheet FRP Tank; 39,500gal operating capacity; see GPI Composites quote for tank accessories	1	EA	\$ -	\$ -	\$0	\$0	
328		HST101-UP01: Recirc/Transfer Pump Manufacturer: Gorman Rupp Model #: T6A61S-BF Equipment Description: Gorman Rupp T6A61S-BF Assembly Suction: 6" (150 mm) Discharge: 6" (150 mm) Solids Handling: 2.50" (76 mm) To Be Run at 1007RPM by VFD 750 GPM at 33' of Head Casing: Cast Iron Impeller/Rotor: Stainless Steel Seal Material: Silicon Carbide Flange: ANSI Spool Direct Drive on a Fabricated Steel Baseplate 20HP, 1200RPM, 230/460V TEFC Motor	1	EA	\$ -	\$ -	\$0	\$0	
		EQUIPMENT2							
329		EQT101-AE01: Analytical Probe Manufacturer: Endress & Hauser Model #: CPS16E-1009/0 (CPS16E-AA7BTA2) Equipment Description: pH / ORP- combined electrode, Memosens functionality, Diaphragm PTFE, Reference Gel, Signal transmission digital, temperatur sensor integrated, ORP platinum electrode. AAApproval: Nonhazardous area 7Electrode Type: Basic version, zero point pH 7,0, ORP,rH value, temperature sensor NTC 30k BApplication Range: 0-14 pH, 0...135oC, 0,8...17 bar (abs) ORP Platinum, -1500...1500 mV TReference System: PTFE ring junction, ion trap, 3 M KCl, Ag/AgCl 2Shaft Length: 120mm	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
330		EQT101-AE02: Analytical Probe Manufacturer: Endress & Hauser Model #: CPS11E-1082/0 (CPS11E-AA7BAA2) Equipment Description: pH comb. electrode Memosens functionality Diaphragm: PTFE Signal transmission: Digital. Reference system: Gel. Application: Standard process. Conductivity: min 50uS/cm Temperature sensor integrated. AAApproval: Non-hazardous area 7Electrode Type: Basic version, zero point pH 7,0, temperature sensor NTC 30k BApplication Range: 0-14 pH, 0...135oC, 0,8...17 bar (abs) AReference System: PTFE ring junction, 3 M KCl, Ag/AgCl 2Shaft Length: 120mm	1	EA	\$ -	\$ -	\$0	\$0	
331		EQT101-AG01: Slot Mix System Manufacturer: KLa Model #: KSIDJA-10 Equipment Description: KLa Systems Model KSIDJA-10 Directional Manifold Slot Injector™ Aerator, with an 8-inch liquid x 4-inch air primary manifold fabricated of vinylester resin FRP pipe with injection molded, removable polypropylene injectors located 30-inches above the basin floor and angled downward. Included are one (1) 8-inch in-tank vertical, liquid double elbow spool, one (1) 8-inch liquid suction bell, one (1) 4-inch vertical air downcomer, and all required in-basin supports ('single-leg' type 304L SS with 18-8 connection hardware, 316 SS anchor bolts and EPDM clamp liners). All in-tank connections shall be flanged for ease of installation with 18-8 connection hardware and EPDM gaskets supplied by KLa Systems.	1	EA	\$ -	\$ -	\$0	\$0	
332		EQT101-ARV01: Air Release Valve Manufacturer: APCO Model #: ASR,2,400,T1,DI,R14,NBR,S2-S1-S2*BKF Equipment Description: Valve Style: 2" Apco Model 400.1 Sewage Service Air Release Valve End Connections: Threaded NPT Body Material: Ductile Iron (ASTM A536 Gr 65-45-12) Orifice Size: 1/4" (11-150 psi) Needle Material: Buna Seat Material: 316 Stainless Steel (ASTM A276 T316) Float Ball: 304 Stainless Steel (ASTM A240 T304) Float Lever: 316 Stainless Steel (ASTM A276 T316) Accessories: Backflush Attachment Kit	1	EA	\$ -	\$ -	\$0	\$0	
333		EQT101-BL01: Blower Manufacturer: Aerzen Equipment Description: Aerzen Hybrid Blower package sized for 240 scfm @ 11.80 psig. Package is complete with weather/sound enclosure and AERtronics control system	1	EA	\$ -	\$ -	\$0	\$0	
334		EQT101-FCV01: Flow Control Valve Manufacturer: DeZurik Model #: PEC,4,F1,CI,NBR,CR*SQR07.2,AC01.2 Equipment Description: 4" - DeZurik - AUMA SOR Series Electric Motor Operator. Modulating service. Supplied with AUMA Aumatic Non-Intrusive Integral Motor Controls with EtherNet/IP Interface. Includes Electro-Mechanical Motor Starters, Power Supply, Automatic Phase Correction, Compartment Heater, MWG Magnetic Limit and Torque Encoder. Local Controls Include: 3 Pushbuttons (OPEN I STOP I CLOSE), 5 Indicating Lights and Padlockable Selector Switch (LOCAL I OFF I REMOTE)	1	EA	\$ -	\$ -	\$0	\$0	
335		EQT101-FE01: Flow Meter Manufacturer: Endress & Hauser Model #: 5W4C1F-2Q3F6/0 (5W4C1F-AAHLNN1LQA12GA) Equipment Description: Electromagnetic flowmeter Inline version. Application: Ideal for water measurement e.g. drinking water, utility water and industrial/municipal wastewater. International drinking water approvals. Installation length: DVGW/ISO conform. Corrosion-resistant transmitter version. Same housing for compact/remote version. :: Versatile standard flowmeter for the water and wastewater industry :: Constant accuracy with 0 x DN inlet run and no pressure loss (optional) 010: AAAApproval: Non-hazardous area HDesign: Lap joint flange, 0 x DN inlet/ outlet runs LPower Supply: 100-240VAC/24VAC/DC NOutput; Input: EtherNet/IP NHousing: Remote, polycarbonate 1Cable, Remote Version: 5m/15ft coil and signal cable LElectrical Connection: Plug M12x1 + thread NPT1/2 QLiner: PTFE 90oC A12Process Connection: Cl.150, carbon steel, lap joint flange ASME B16.5 GElectrodes: 1.4435/316L, bullet nose ACalibration Flow: 0.5%	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
336		EQT101-FS01: Flow Switch Manufacturer: Endress & Hauser Model #: DTT31-A1A111DE2BAB Equipment Description: Flow switch, intelligent, programmable. Sensor: Calorimetric principle. Protection: IP65. AApproval: Non-hazardous area 1Electrical Connection: Plug M12 APower Supply; Output: 18-30VDC; 1x switch PNP 1Display: Digital 1Application; Measuring Range: Liquid, -20...+85oC, 0.03-3m/s 1Adjustment: On site DEProcess Connection; Material: NPT1/2 male thread ANSI; 316L 2BInsertion Length L; Diameter D: 50 mm; 6mm AAdditional Option; Material Certificate: Basic version; not needed BVersion: Standard, documentation English	1	EA	\$ -	\$ -	\$0	\$0	
337		EQT101-IQ01: Chemical Injection Quill Manufacturer: Saf-T-Flo Model #: EB-130-B-H-4-0 Equipment Description: ACID, Injection Quill, Rectratable, 3/4", MNPT Brass CS x 3/8" S40 C-276 Solution Tube, 150 PSI, 4" Insertion w/ 7803724 Check Valve Assembly	1	EA	\$ -	\$ -	\$0	\$0	
338		EQT101-IQ02: Chemical Injection Quill Manufacturer: Saf-T-Flo Model #: EB-130-B-H-4-0 Equipment Description: ACID, Injection Quill, Rectratable, 3/4", MNPT Brass CS x 3/8" S40 C-276 Solution Tube, 150 PSI, 4" Insertion w/ 7803724 Check Valve Assembly	1	EA	\$ -	\$ -	\$0	\$0	
339		EQT101-IQ03: Chemical Injection Quill Manufacturer: Saf-T-Flo Model #: EB-130-B-H-4-0 Equipment Description: ACID, Injection Quill, Rectratable, 3/4", MNPT Brass CS x 3/8" S40 C-276 Solution Tube, 150 PSI, 4" Insertion w/ 7803724 Check Valve Assembly	1	EA	\$ -	\$ -	\$0	\$0	
340		EQT101-IQ04: Chemical Injection Quill Manufacturer: Saf-T-Flo Model #: EB-130-B-H-4-0 Equipment Description: ACID, Injection Quill, Rectratable, 3/4", MNPT Brass CS x 3/8" S40 C-276 Solution Tube, 150 PSI, 4" Insertion w/ 7803724 Check Valve Assembly	1	EA	\$ -	\$ -	\$0	\$0	
341		EQT101-LE01: Flange Mounted Level Element Manufacturer: Endress & Hauser Model #: PMP51B-TQD8/0 (PMP51B-AABADB6AA3HEAAAFJA1) Equipment Description: Pressure, piezoresistive. Pressure transmitter. Compact/diaphragm seal. Application: pressure/level. Metal membrane: fully welded, high process pressure and temperature. Local or remote operation via Bluetooth (optional). Approval: Non-hazardous area Output: 2-wire 4-20mA HART Display; Operation: Segment display w/o buttons + Bluetooth Housing; Material: Single compartment; Alu, coated Electrical Connection: Thread NPT1/2, IP66/68 NEMA Type 4X/6P Pressure Type: Gauge Application: Standard Diaphragm Seal Type: W/o Sensor Range: 1bar/100kPa/15psi Calibration; Unit: Sensor range; inH2O/ftH2O Process Connection, Sealing Surface: Flange ASME B16.5, RF Process Connection: NPS 3" Cl.150, 316/316L Membrane Material; Application: 316L; standard Fill Fluid: Silicone oil, standard	1	EA	\$ -	\$ -	\$0	\$0	
342		EQT101-LE02: Ultrasonic Level Element Manufacturer: Siemens Model #: 7ML11180EA30 Equipment Description: XPS-15-30M TRANSDUCER 30 METERS CABLE	1	EA	\$ -	\$ -	\$0	\$0	
343		EQT101-PI01: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254CC/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range -30-0-30 PSI. With Diaphragm SealE	1	EA	\$ -	\$ -	\$0	\$0	
344		EQT101-PI02: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254D/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range -30-0-30 PSI. With Diaphragm Seal	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
345		EQT101-PI03: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254CC/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range -30-0-30 PSI. With Diaphragm SealE	1	EA	\$ -	\$ -	\$0	\$0	
346		EQT101-PI04: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254D/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range -30-0-30 PSI. With Diaphragm Seal	1	EA	\$ -	\$ -	\$0	\$0	
347		EQT101-SA01: Surface Aerator Manufacturer: Aqua-Aerobic Model #: Model SS Endura Series Equipment Description: 25 HP Model SS Endura® Series Aqua-Jet® Aerator. Float is 14 gauge 304 stainless steel skin, filled with closed cell polyurethane foam. Volute and intake cone are 304 stainless steel. Propeller is cast stainless steel. Diffusion head is monolithic casting of 304 stainless steel. Motor will be TEFC, 460 volt, 3 phase, 60 hertz, 1200 RPM with 1.15 Service Factor and Class F nonhygroscopic insulation. Motor shaft is one-piece 17-4 PH stainless steel.	1	EA	\$ -	\$ -	\$0	\$0	
348		EQT101-SAS01: Surface Aerator Stand Equipment Description: 304 stainless steel 25 HP mixer restrained mooring frames. Posts/stops/bracing by others	1	EA	\$ -	\$ -	\$0	\$0	
349		EQT101-SR01: Sample Refrigerator Manufacturer: DANBY Model #: DAR026A1BDD Equipment Description: 2.6 cu ft Refrigerator Capacity, 26 7/8 in Overall Ht, 17 5/8 in Overall Wd. Item #:10N668 Mfr. Model #: DAR026A1BDD UNSPSC #: 52141501 Catalog Page #: 1464	1	EA	\$ -	\$ -	\$0	\$0	
350		EQT101-SV01: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
351		EQT101-SV02: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
352		EQT101-TK01: Equalization Tank Manufacturer: Tank Connection Equipment Description: Epoxy coated bolted steel tank; 21.54ft dia x 32.55ft height with 30.55ft max W.L; 83,277gal operating volume; includes installation and foundation design by Tank Connection	1	EA	\$ -	\$ -	\$0	\$0	
353		EQT101-UP01: Recirc/Transfer Pump Manufacturer: Sulzer Model #: CPT31-6 Equipment Description: Included in EQT101-AG01 25 Hp Sulzer CPT31-6 pump will also be furnished (direct drive, dynamic seal) rated for 1,300gpm at 46-ft. TDH to allow for a forward flow of 300 gpm during dedicated pump downtime.	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
354		EQT101-UP02: Recirc/Transfer Pump Manufacturer: Transfer Pump Model #: T3A61S-BF Equipment Description: Gorman Rupp T3A61S-BF Assembly Suction: 3" (80 mm) Discharge: 3" (80 mm) Solids Handling: 2.50" (76 mm) To Be Run at 1704RPM by VFD 300 GPM at 57' of Head Casing: Cast Iron Impeller/Rotor: Stainless Steel Seal Material: Silicon Carbide Flange: ANSI Spool Direct Drive on a Fabricated Steel Baseplate 15HP, 1800RPM, 230/460V TEFC Motor	1	EA	\$ -	\$ -	\$0	\$0	
355		EQT101-VCP01: Vendor Control Panel Manufacturer: Aerzen Model #: Aertronics Equipment Description: Included in EQT101-BL01 Aerzen Aertronics Controller	1	EA	\$ -	\$ -	\$0	\$0	
		EQUIPMENT3							
356		DAF101-AE01: Analytical Probe Manufacturer: Endress & Hauser Model #: CPS11E-1082/0 (CPS11E-AA7BAA2) Equipment Description: pH comb. electrode Memosens functionality Diaphragm: PTFE Signal transmission: Digital. Reference system: Gel. Application: Standard process. Conductivity: min 50uS/cm Temperature sensor integrated. AAApproval: Non-hazardous area 7Electrode Type: Basic version, zero point pH 7,0, temperature sensor NTC 30k BApplication Range: 0-14 pH, 0...135oC, 0,8...17 bar (abs) AAReference System: PTFE ring junction, 3 M KCl, Ag/AgCl 2Shaft Length: 120mm	1	EA	\$ -	\$ -	\$0	\$0	
357		DAF101-AE02: Analytical Probe Manufacturer: Endress & Hauser Model #: CPA640-A221 Equipment Description: Universal electrode holder Application: Process Pg13,5 Electrode: pH-/Redox 120mm. AProcess Connection; material: Thread NPT 1/2, PVDF 2Immersion Depth: 50mm/2" 2Seal: EPDM o-ring 1Additional option: w/o	1	EA	\$ -	\$ -	\$0	\$0	
358		DAF101-AE03: Turbidity Sensor Manufacturer: Endress & Hauser Model #: CUS51D-10I0/0 (CUS51D-AAD1A4) Equipment Description: Turbidity Sensor, optical. Application: Water, waste water Digital sensor, Memosens protocol Sensor head: G1, NPT3/4 Automatic sensorcheck Factory calibration AAApproval: Non-hazardous area D1Application/Measuring Range: Process water; solids AAdaption Cable: Fixed cable; crimp sleeves 4Cable Length: 15m	1	EA	\$ -	\$ -	\$0	\$0	
359		DAF101-APF01: Advanced Pipe Flocculator Manufacturer: World Water Works Equipment Description: Advanced Pipe Flocculator 4", SCH80 PVC	1	EA	\$ -	\$ -	\$0	\$0	
360		DAF101-FE01: Flow Meter Manufacturer: Endress & Hauser Model #: 5W4C1H-2PWJ8/0 (5W4C1H-AAHLNN1LQA12GA) Equipment Description: Electromagnetic flowmeter Inline version. Application: Ideal for water measurement e.g. drinking water, utility water and industrial/municipal wastewater. International drinking water approvals. Installation length: DVGW/ISO conform . Corrosion-resistant transmitter version. Same housing for compact/remote version. :: Versatile standard flowmeter for the water and wastewater industry :: Constant accuracy with 0 x DN inlet run and no pressure loss (optional) 010: AAApproval: Non-hazardous area HDesign: Lap joint flange, 0 x DN inlet/ outlet runs LPower Supply: 100-240VAC/24VAC/DC NOutput; Input: EtherNet/IP NHousing: Remote, polycarbonate 1Cable, Remote Version: 5m/15ft coil and signal cable LElectrical Connection: Plug M12x1 + thread NPT1/2 QLiner: PTFE 90oC A12Process Connection: Cl.150, carbon steel, lap joint flange ASME B16.5 GElectrodes: 1.4435/316L, bullet nose ACalibration Flow: 0.5%	1	EA	\$ -	\$ -	\$0	\$0	

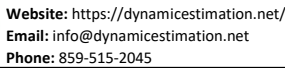
 Dynamic Estimation Inc. Website: https://dynamicestimation.net/ Email: info@dynamicestimation.net Phone: 859-515-2045		PROJECT ID: DAWN FOOD PRODUCTS INC. SCOPE: HVAC & PLUMBING							
ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
361		DAF101-IQ02: Chemical Injection Quill Manufacturer: Saf-T-Flo Model #: EB-130-B-P-4-1 Equipment Description: COAGULANT, Injection Quill, Rectratable, 3/4", MNPT Brass CS x 3/8" S80 PV	1	EA	\$ -	\$ -	\$0	\$0	
362		DAF101-IQ03: Chemical Injection Quill Manufacturer: Saf-T-Flo Model #: EB-130-B-P-4-0 Equipment Description: CAUSTIC, Injection Quill, Rectratable, 3/4", MNPT Brass CS x 3/8" S80 PVC Solution Tube, 150 PSI, 4" Insertion w/ 7803724 Check Valve Assembly	1	EA	\$ -	\$ -	\$0	\$0	
363		DAF101-LE02: Flange Mounted Level Element Manufacturer: Endress & Hauser Model #: PMP51B-TQD8/0 (PMP51B-AABADB6AA3HEAAAFJA1) Equipment Description: Pressure, piezoresistive. Pressure transmitter. Compact/diaphragm seal. Application: pressure/level. Metal membrane: fully welded, high process pressure and temperature. Local or remote operation via Bluetooth (optional). Approval: Non-hazardous area Output: 2-wire 4-20mA HART Display; Operation: Segment display w/o buttons + Bluetooth Housing; Material: Single compartment; Alu, coated Electrical Connection: Thread NPT1/2, IP66/68 NEMA Type 4X/6P Pressure Type: Gauge Application: Standard Diaphragm Seal Type: W/o Sensor Range: 1bar/100kPa/15psi Calibration; Unit: Sensor range; inH2O/ftH2O Process Connection, Sealing Surface: Flange ASME B16.5, RF Process Connection: NPS 3" Cl.150, 316/316L Membrane Material; Application: 316L; standard Fill Fluid: Silicone oil, standard	1	EA	\$ -	\$ -	\$0	\$0	
364		DAF101-LE03: Flange Mounted Level Element Manufacturer: Endress & Hauser Model #: PMP51B-TQD8/0 (PMP51B-AABADB6AA3HEAAAFJA1) Equipment Description: Pressure, piezoresistive. Pressure transmitter. Compact/diaphragm seal. Application: pressure/level. Metal membrane: fully welded, high process pressure and temperature. Local or remote operation via Bluetooth (optional). Approval: Non-hazardous area Output: 2-wire 4-20mA HART Display; Operation: Segment display w/o buttons + Bluetooth Housing; Material: Single compartment; Alu, coated Electrical Connection: Thread NPT1/2, IP66/68 NEMA Type 4X/6P Pressure Type: Gauge Application: Standard Diaphragm Seal Type: W/o Sensor Range: 1bar/100kPa/15psi Calibration; Unit: Sensor range; inH2O/ftH2O Process Connection, Sealing Surface: Flange ASME B16.5, RF Process Connection: NPS 3" Cl.150, 316/316L Membrane Material; Application: 316L; standard Fill Fluid: Silicone oil, standard	1	EA	\$ -	\$ -	\$0	\$0	
365		DAF101-LSH03: FLevel Switch Manufacturer: MJK Model #: 7030 Equipment Description: MJK Mechanical level float switch model 7030, 30' cable and cable bracket	1	EA	\$ -	\$ -	\$0	\$0	
366		DAF101-LSHH03: FLevel Switch Manufacturer: MJK Model #: 7030 Equipment Description: MJK Mechanical level float switch model 7030, 30' cable and cable bracket	1	EA	\$ -	\$ -	\$0	\$0	
367		DAF101-LSL01: FLevel Switch Manufacturer: MJK Model #: 7030 Equipment Description: MJK Mechanical level float switch model 7030, 30' cable and cable bracket	1	EA	\$ -	\$ -	\$0	\$0	
368		DAF101-LSL02: FLevel Switch Manufacturer: MJK Model #: 7030 Equipment Description: MJK Mechanical level float switch model 7030, 30' cable and cable bracket	1	EA	\$ -	\$ -	\$0	\$0	
369		DAF101-LSL03: FLevel Switch Manufacturer: MJK Model #: 7030 Equipment Description: MJK Mechanical level float switch model 7030, 30' cable and cable bracket	1	EA	\$ -	\$ -	\$0	\$0	
370		DAF101-M01: DAF Mechanism	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
371		DAF101-PE01: Isolation Ring Manufacturer:Onyx Equipment Description: 3" Onyx Iso-ring with IFM pn/2294 pressure switch *No set point from factory. Recommended set point is 15 psi higher than the maximum discharge pressure or 58 psi	1	EA	\$ -	\$ -	\$0	\$0	
372		DAF101-PI01: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254D/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range 0-60 PSI. With Diaphragm Seal	1	EA	\$ -	\$ -	\$0	\$0	
373		DAF101-PI02: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254D/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range 0-60 PSI. With Diaphragm Seal	1	EA	\$ -	\$ -	\$0	\$0	
374		DAF101-PI03: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254D/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range 0-60 PSI. With Diaphragm Seal	1	EA	\$ -	\$ -	\$0	\$0	
375		DAF101-PI04: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254D/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range 0-60 PSI. With Diaphragm Seal	1	EA	\$ -	\$ -	\$0	\$0	
376		DAF101-PI05: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254D/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range 0-60 PSI. With Diaphragm Seal	1	EA	\$ -	\$ -	\$0	\$0	
377		DAF101-PI06: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254D/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range 0-60 PSI. With Diaphragm Seal	1	EA	\$ -	\$ -	\$0	\$0	
378		DAF101-PIT01: Pressure Transmitter	1	EA	\$ -	\$ -	\$0	\$0	
379		DAF101-RDP01: Run Dry Protection Manufacturer: Seepex Equipment Description: Included in DAF101-UP03 standard design, complete - sensor sleeve fitted to the stator of the pump with integrated temperature sensor - connection head (IP55) - separate TSE control device suitable for mounting inside a control panel Voltage 24 V AC/DC Temperature coefficient NTC Material sensor sleeve 1.4404 / AISI 316L Material connection head aluminium	1	EA	\$ -	\$ -	\$0	\$0	
380		DAF101-SR01: Sample Refrigerator Manufacturer: DANBY Model #: DAR026A1BDD Equipment Description: 2.6 cu ft Refrigerator Capacity, 26 7/8 in Overall Ht, 17 5/8 in Overall Wd. Item #:10N668 Mfr. Model #: DAR026A1BDD UNSPSC #: 52141501 Catalog Page #: 1464	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
381		DAF101-SV01: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
382		DAF101-SV02: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
383		DAF101-SV03: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
384		DAF101-SV04: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
385		DAF101-SV05: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
386		DAF101-SV06: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
387		DAF101-SV07: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
388		DAF101-SV08: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
389		DAF101-SV09: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
390		DAF101-SV10: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
391		DAF101-TK01: DAF Manufacturer: World Water Works Model #: RSP-45MS Equipment Description:Dissolved Air Flotation-DAF-RSP-45MS Welded Polypropylene Vessel , Extended Platform along Length of DAF	1	EA	\$ -	\$ -	\$0	\$0	
392		DAF101-TK02: Transfer Tank Manufacturer: World Water Works	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
393		DAF101-UP02: Sludge Pump Manufacturer: Seepex Model #: BN 17-6LS / A1-J0-J0-F0-GA Equipment Description: Seepex BN 17-6LS / A1-J0-J0-F0-GA Materials and design data sheet 500110400/3, item 1	1	EA	\$ -	\$ -	\$0	\$0	
394		DAF101-UP03: Transfer Pump	1	EA	\$ -	\$ -	\$0	\$0	
395		DAF101-UP04: Recirc Pump Manufacturer: World Water Works Model #: M5OSP-1 Equipment Description: M5OSP-1 (10HP) Dissolved Air Generation (DAG) System; SS Internals/Casing-Pump, Motor, Skid & Bullet Package	1	EA	\$ -	\$ -	\$0	\$0	
		EQUIPMENT4							
396		AEB201-AE01: Analytical Probe Manufacturer: Endress & Hauser Model #: CPS16E-1009/0 (CPS16E-AA7BTA2) Equipment Description: pH / ORP- combined electrode, Memosens functionality, Diaphragm PTFE, Reference Gel, Signal transmission digital, temperatur sensor integrated, ORP platinum electrode. AAApproval: Nonhazardous area 7Electrode Type: Basic version, zero point pH 7,0, ORP,rH value, temperature sensor NTC 30k BApplication Range: 0-14 pH, 0...135oC, 0,8...17 bar (abs) ORP Platinum, - 1500...1500 mV TReference System: PTFE ring junction, ion trap, 3 M KCl, Ag/AgCl 2Shaft Length: 120mm	1	EA	\$ -	\$ -	\$0	\$0	
397		AEB201-AG01: Coarse Bubble Aeration Manufacturer: World Water Works Equipment Description: Aeration Manifold - SS304	1	EA	\$ -	\$ -	\$0	\$0	
398		AEB201-BL01: Blower Manufacturer: Aerzen Equipment Description: Aerzen Hybrid Blower package sized for 1400 scfm @ 12.80 psig. Packages is complete with weather/sound enclosure and AERtronics control system	1	EA	\$ -	\$ -	\$0	\$0	
399		AEB201-BL02: Blower Manufacturer: Aerzen Equipment Description: Aerzen Hybrid Blower package sized for 1400 scfm @ 12.80 psig. Packages is complete with weather/sound enclosure and AERtronics control system	1	EA	\$ -	\$ -	\$0	\$0	
400		AEB201-BL03: Blower Manufacturer: Aerzen Equipment Description: Aerzen Hybrid Blower package sized for 1400 scfm @ 12.80 psig. Packages is complete with weather/sound enclosure and AERtronics control system	1	EA	\$ -	\$ -	\$0	\$0	
401		AEB201-FCV01: Flow Control Valve Manufacturer: DeZurik Model #: PEC,4,F1,Cl,NBR,CR*SQR07.2,AC01.2 Equipment Description: 4" - DeZurik - AUMA SOR Series Electric Motor Operator. Modulating service. Supplied with AUMA Aumatic Non-Intrusive Integral Motor Controls with EtherNet/IP Interface. Includes Electro- Mechanical Motor Starters, Power Supply, Automatic Phase Correction, Compartment Heater, MWG Magnetic Limit and Torque Encoder. Local Controls Include: 3 Pushbuttons (OPEN I STOP I CLOSE), 5 Indicating Lights and Padlockable Selector Switch (LOCAL I OFF I REMOTE)	1	EA	\$ -	\$ -	\$0	\$0	
402		AEB201-FE01: Flow Meter Manufacturer: Endress & Hauser Model #: 5W4C1H-2PWJ8/0 (5W4C1H-AAHLNN1LQA12GA) Equipment Description: Electromagnetic flowmeter Inline version. Application: Ideal for water measurement e.g. drinking water, utility water and industrial/municipal wastewater. International drinking water approvals. Installation length: DVGW/ISO conform. Corrosion-resistant transmitter version. Same housing for compact/remote version. :: Versatile standard flowmeter for the water and wastewater industry :: Constant accuracy with 0 x DN inlet run and no pressure loss (optional) 010: AAApproval: Non-hazardous area HDesign: Lap joint flange, 0 x DN inlet/ outlet runs LPower Supply: 100-240VAC/24VAC/DC NOutput; Input: EtherNet/IP NHousing: Remote, polycarbonate 1Cable, Remote Version: 5m/15ft coil and signal cable LElectrical Connection: Plug M12x1 + thread NPT1/2 QLiner: PTFE 90oC A12Process Connection: Cl.150, carbon steel, lap joint flange ASME B16.5 GElectrodes: 1.4435/316L, bullet nose ACalibration Flow: 0.5%	1	EA	\$ -	\$ -	\$0	\$0	



SCOPE: HVAC & PLUMBING

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
		EQUIPMENTS							
412		DAF201-AE01: Analytical Probe Manufacturer: Endress & Hauser Model #: CPS11E-1082/0 (CPS11E-AA7BAA2) Equipment Description: pH comb. electrode Memosens functionality Diaphragm: PTFE Signal transmission: Digital. Reference system: Gel. Application: Standard process. Conductivity: min 50uS/cm Temperature sensor integrated. AAApproval: Non-hazardous area 7Electrode Type: Basic version, zero point pH 7,0, temperature sensor NTC 30k BApplication Range: 0-14 pH, 0...135oC, 0,8...17 bar (abs) AAReference System: PTFE ring junction, 3 M KCl, Ag/AgCl 2Shaft Length: 120mm	1	EA	\$ -	\$ -	\$0	\$0	
413		DAF201-AE02: Analytical Probe Manufacturer: Endress & Hauser Model #: CPS11E-1082/0 (CPS11E-AA7BAA2) Equipment Description: pH comb. electrode Memosens functionality Diaphragm: PTFE Signal transmission: Digital. Reference system: Gel. Application: Standard process. Conductivity: min 50uS/cm Temperature sensor integrated. AAApproval: Non-hazardous area 7Electrode Type: Basic version, zero point pH 7,0, temperature sensor NTC 30k BApplication Range: 0-14 pH, 0...135oC, 0,8...17 bar (abs) AAReference System: PTFE ring junction, 3 M KCl, Ag/AgCl 2Shaft Length: 120mm	1	EA	\$ -	\$ -	\$0	\$0	
414		DAF201-AE03: Turbidity Sensor Manufacturer: Endress & Hauser Model #: CUS51D-10I0/0 (CUS51D-AAD1A4) Equipment Description: Turbidity Sensor, optical. Application: Water, waste water Digital sensor, Memosens protocol Sensor head: G1, NPT3/4 Automatic sensorcheck Factory calibration AAApproval: Non-hazardous area D1Application/Measuring Range: Process water; solids AAdaption Cable: Fixed cable; crimp sleeves 4Cable Length: 15m	1	EA	\$ -	\$ -	\$0	\$0	
415		DAF201-FE01: Flow Meter Manufacturer: Endress & Hauser Model #: 5W4C1F-2Q3F6/0 (5W4C1F-AAHLNN1LQA12GA) Equipment Description: Electromagnetic flowmeter Inline version. Application: Ideal for water measurement e.g. drinking water, utility water and industrial/municipal wastewater. International drinking water approvals. Installation length: DVGW/ISO conform. Corrosion-resistant transmitter version. Same housing for compact/remote version. :: Versatile standard flowmeter for the water and wastewater industry :: Constant accuracy with 0 x DN inlet run and no pressure loss (optional) 010: AAApproval: Non-hazardous area HDesign: Lap joint flange, 0 x DN inlet/ outlet runs LPower Supply: 100-240VAC/24VAC/DC NOutput; Input: EtherNet/IP NHousing: Remote, polycarbonate 1Cable, Remote Version: 5m/15ft coil and signal cable LElectrical Connection: Plug M12x1 + thread NPT1/2 QLiner: PTFE 90oC A12Process Connection: Cl.150, carbon steel, lap joint flange ASME B16.5 GElectrodes: 1.4435/316L, bullet nose ACalibration Flow: 0.5%	1	EA	\$ -	\$ -	\$0	\$0	
416		DAF201-IQ01: Chemical Injection Quill Manufacturer: Saf-T-Flo Model #: EB-130-B-P-4-1 Equipment Description: COAGULANT, Injection Quill, Rectratable, 3/4", MNPT Brass CS x 3/8" S80 PVC Solution Tube, 150 PSI, 4" Insertion w/ 7803724 Check Valve Assembly	1	EA	\$ -	\$ -	\$0	\$0	
417		DAF201-IQ02: Chemical Injection Quill Manufacturer: Saf-T-Flo Model #: EB-130-B-P-4-1 Equipment Description: COAGULANT, Injection Quill, Rectratable, 3/4", MNPT Brass CS x 3/8" S80 PVC Solution Tube, 150 PSI, 4" Insertion w/ 7803724 Check Valve Assembly	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
418		DAF201-LE02: Flange Mounted Level Element Manufacturer: Endress & Hauser Model #: PMP51B-TQD8/0 (PMP51B-AABADBH6AA3HEAAAFJA1) Equipment Description: Pressure, piezoresistive. Pressure transmitter. Compact/diaphragm seal. Application: pressure/level. Metal membrane: fully welded, high process pressure and temperature. Local or remote operation via Bluetooth (optional). Approval: Non-hazardous area Output: 2-wire 4-20mA HART Display; Operation: Segment display w/o buttons + Bluetooth Housing; Material: Single compartment; Alu, coated Electrical Connection: Thread NPT1/2, IP66/68 NEMA Type 4X/6P Pressure Type: Gauge Application: Standard Diaphragm Seal Type: W/o Sensor Range: 1bar/100kPa/15psi Calibration; Unit: Sensor range; inH2O/ftH2O Process Connection, Sealing Surface: Flange ASME B16.5, RF Process Connection: NPS 3" Cl.150, 316/316L Membrane Material; Application: 316L; standard Fill Fluid: Silicone oil, standard	1	EA	\$ -	\$ -	\$0	\$0	
419		DAF201-LSL01: Level Switch Manufacturer: MJK Model #:7030 Equipment Description: MJK Mechanical level float switch model 7030, 30' cable and cable bracket	1	EA	\$ -	\$ -	\$0	\$0	
420		DAF201-PE01: Isolation Ring Manufacturer: Onyx Model #:7030 Equipment Description: 3" Onyx Iso-ring with IFM pn/2294 pressure switch *No set point from factory. Recommended set point is 15 psi higher than the maximum discharge pressure or 58 psi	1	EA	\$ -	\$ -	\$0	\$0	
421		DAF201-SV01: Solenoid Valve Manufacturer: Bray Model #: 7103-3-R-R-SRB-0634-630250-21401536 Equipment Description: Bray 4-Way Solenoid Valve, Model 63-0250, Energize Solenoid to Open Valve, Namur Mount to Actuator, 24V DC, 1/4" Port Size, Maximum Pressure: 150 psi, NEMA 4, & 4X. Bray Spring Return Pneumatic Rack & Pinion Actuator (80 psi Supply Air). Fail Closed. Valve Style: Flow-Tek 3-Piece Port Ball Valve Body Material: 316 Stainless Steel End Style: Threaded NPT Trim: 316 Stainless Steel Ball and Stem Port: Full	1	EA	\$ -	\$ -	\$0	\$0	
422		DAF201-SV02: Solenoid Valve Manufacturer: Teledyne ISCO Model #: 68-5304-006 Equipment Description: Complete pressurized line sampling for ISCO 5800/4700 refrigerated sampler	1	EA	\$ -	\$ -	\$0	\$0	
423		DAF201-SV05: Solenoid Valve Manufacturer: Teledyne ISCO Model #: 68-5304-006 Equipment Description: Complete pressurized line sampling for ISCO 5800/4700 refrigerated sampler	1	EA	\$ -	\$ -	\$0	\$0	
424		DAF201-SV06: Solenoid Valve Manufacturer: Teledyne ISCO Model #: 68-5304-006 Equipment Description: Complete pressurized line sampling for ISCO 5800/4700 refrigerated sampler	1	EA	\$ -	\$ -	\$0	\$0	
425		DAF201-SV07: Solenoid Valve Manufacturer: Teledyne ISCO Model #: 68-5304-006 Equipment Description: Complete pressurized line sampling for ISCO 5800/4700 refrigerated sampler	1	EA	\$ -	\$ -	\$0	\$0	
426		DAF201-SV08: Solenoid Valve Manufacturer: Teledyne ISCO Model #: 68-5304-006 Equipment Description: Complete pressurized line sampling for ISCO 5800/4700 refrigerated sampler	1	EA	\$ -	\$ -	\$0	\$0	
427		DAF201-SV09: Solenoid Valve Manufacturer: Teledyne ISCO Model #: 68-5304-006 Equipment Description: Complete pressurized line sampling for ISCO 5800/4700 refrigerated sampler	1	EA	\$ -	\$ -	\$0	\$0	
428		DAF201-SV10: Solenoid Valve Manufacturer: Teledyne ISCO Model #: 68-5304-006 Equipment Description: Complete pressurized line sampling for ISCO 5800/4700 refrigerated sampler	1	EA	\$ -	\$ -	\$0	\$0	



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SCOPE: HVAC & PLUMBING

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
429		DAF201-SX01: Sampler Manufacturer: Teledyne ISCO Model #: 68-5800-001, 68-5800-015, 68-5800-020, 69-2903-138, 68-1680-058, 60-6700-062 Equipment Description: 1. 5800 refrigerated sampler, 115VAC, 60Hz. With control panel, refrigeration unit, distributor arm, 2 pump tubes, instruction manual, and pocket guide. 2. 24-bottle Configuration. Includes 24 polypropylene 1-liter wedge shaped bottles with caps, bottle rack, and two discharge tubes. 3. 5800 flow meter connect cable. 4. 3/8 inch stainless steel strainer, low flow. 5. 3/8 inch vinyl suction line- 100 ft. Includes tubing coupler. 6. Pump tubing for 5800/4700 and 6700 Series/ Avalanche Sampler. Quantity: 5.	1	EA	\$ -	\$ -	\$0	\$0	
430		DAF201-TK01: DAF Manufacturer: World Water Works Model #: RSP-45MS Equipment Description: Dissolved Air Flotation-DAF-RSP-45MS Welded Polypropylene Vessel , Extended Platform along Length of DAF	1	EA	\$ -	\$ -	\$0	\$0	
		EQUIPMENT6							
431		SGH101-AG01: Mix Nozzle Manufacturer: kLA Model #: K4DJM-1 Equipment Description: KLa Systems Model K4DJM-1 Directional Flanged Jet Mixing Nozzles (1 per tank) with a 6-inch flange connection fabricated of FRP. Type 18-8 interface hardware is included	1	EA	\$ -	\$ -	\$0	\$0	
432		SGH101-ARV01: Air Release Valve Manufacturer: Gorman Rupp Model #: GRP33-07 Equipment Description: Gorman-Rupp Automatic Air Release Valve Size 1" x 1" NPT, Static Discharge Head: 18-49', Valve Body: C.I. 30, Elastomers: Buna-N, Plunger Rod: SST 304, Inspection Cover: C.I. 30, Internal Hardware: SST 304, External Hardware: Plated Steel, Spring Color/Compression: 25 lbs. Plain	1	EA	\$ -	\$ -	\$0	\$0	
433		SGH101-ARV02: Air Release Valve Manufacturer: APCO Model #: ASR,2,400,T1,DI,R14,NBR,S2-S1-S2*BKF Equipment Description: Valve Style: 2" Apco Model 400.1 Sewage Service Air Release Valve End Connections: Threaded NPT Body Material: Ductile Iron (ASTM A536 Gr 65-45-12) Orifice Size: 1/4" (11-150 psi) Needle Material: Buna Seat Material: 316 Stainless Steel (ASTM A276 T316) Float Ball: 304 Stainless Steel (ASTM A240 T304) Float Lever: 316 Stainless Steel (ASTM A276 T316) Accessories: Backflush Attachment Kit	1	EA	\$ -	\$ -	\$0	\$0	
434		SGH101-BL01: Vent Blower Manufacturer: Airtech	1	EA	\$ -	\$ -	\$0	\$0	
435		SGH101-BL02: Vent Blower Manufacturer: Airtech	1	EA	\$ -	\$ -	\$0	\$0	
436		SGH101-EV01: Control Valve Manufacturer: Bray/Auma Model #: 31-0600-11010-325*PF300 Equipment Description: 6": Bray Series 31 Resilient Seated Butterfly End Connections: ANSI Class 125 Lugged Body Material: Ductile Iron (ASTM A536) Seat Seal Material: Buna-n Disc Material: 316 Stainless Steel Shaft Material: 316 Stainless Steel Actuator: Auma Profox Electric Motor Operator 24V DC, NEMA 4 Enclosure, Actuator Supplied with Handwheel Override Open and Closed Position and Torque Relays, Heater and Thermostat, Visual Position Indication Green Open, Red Closed, Blue for Bluetooth Indicator. Non-intrusive actuator set-up. PF150: 32 Second Speed of Operation PF300: 45 Second Speed of Operation	1	EA	\$ -	\$ -	\$0	\$0	



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SCOPE: HVAC & PLUMBING

ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
437		SGH101-EV02: Control Valve Manufacturer: Bray/Auma Model #: 31-0600-11010-325*PF300 Equipment Description: 6": Bray Series 31 Resilient Seated Butterfly End Connections: ANSI Class 125 Lugged Body Material: Ductile Iron (ASTM A536) Seat Seal Material: Buna-n Disc Material: 316 Stainless Steel Shaft Material: 316 Stainless Steel Actuator: Auma Profox Electric Motor Operator 24V DC, NEMA 4 Enclosure, Actuator Supplied with Handwheel Override Open and Closed Position and Torque Relays, Heater and Thermostat, Visual Position Indication Green Open, Red Closed, Blue for Bluetooth Indicator. Non-intrusive actuator set-up. PF150: 32 Second Speed of Operation PF300: 45 Second Speed of Operation	1	EA	\$ -	\$ -	\$0	\$0	
438		SGH101-FE01: Flow Meter Manufacturer: Endress & Hauser Model #: 5W4C1F-2Q3F6/0 (5W4C1F-AAHLNN1LQA12GA) Equipment Description: Electromagnetic flowmeter Inline version. Application: Ideal for water measurement e.g. drinking water, utility water and industrial/municipal wastewater. International drinking water approvals. Installation length: DVGW/ISO conform. Corrosion-resistant transmitter version. Same housing for compact/remote version. :: Versatile standard flowmeter for the water and wastewater industry :: Constant accuracy with 0 x DN inlet run and no pressure loss (optional) 010: AAApproval: Non-hazardous area HDesign: Lap joint flange, 0 x DN inlet/ outlet runs LPower Supply: 100-240VAC/24VAC/DC NOutput; Input: EtherNet/IP NHousing: Remote, polycarbonate 1Cable, Remote Version: 5m/15ft coil and signal cable LElectrical Connection: Plug M12x1 + thread NPT1/2 QLiner: PTFE 90oC A12Process Connection: Cl.150, carbon steel, lap joint flange ASME B16.5 GElectrodes: 1.4435/316L, bullet nose ACalibration Flow: 0.5%	1	EA	\$ -	\$ -	\$0	\$0	
439		SGH101-LE01: Flange Mounted Level Element Manufacturer: Endress & Hauser Model #: PMP51B-TQD8/0 (PMP51B-AABADB6AA3HEAAAFJA1) Equipment Description: Pressure, piezoresistive. Pressure transmitter. Compact/diaphragm seal. Application: pressure/level. Metal membrane: fully welded, high process pressure and temperature. Local or remote operation via Bluetooth (optional). Approval: Non-hazardous area Output: 2-wire 4-20mA HART Display; Operation: Segment display w/o buttons + Bluetooth Housing; Material: Single compartment; Alu, coated Electrical Connection: Thread NPT1/2, IP66/68 NEMA Type 4X/6P Pressure Type: Gauge Application: Standard Diaphragm Seal Type: W/o Sensor Range: 1bar/100kPa/15psi Calibration; Unit: Sensor range; inH2O/ftH2O Process Connection, Sealing Surface: Flange ASME B16.5, RF Process Connection: NPS 3" Cl.150, 316/316L Membrane Material; Application: 316L; standard Fill Fluid: Silicone oil, standard	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
440		SGH101-LE02: Flange Mounted Level Element Manufacturer: Endress & Hauser Model #: PMP51B-TQD8/0 (PMP51B-AABADBHH6AA3HEAAAFJA1) Equipment Description: Pressure, piezoresistive. Pressure transmitter. Compact/diaphragm seal. Application: pressure/level. Metal membrane: fully welded, high process pressure and temperature. Local or remote operation via Bluetooth (optional). Approval: Non-hazardous area Output: 2-wire 4-20mA HART Display; Operation: Segment display w/o buttons + Bluetooth Housing; Material: Single compartment; Alu, coated Electrical Connection: Thread NPT1/2, IP66/68 NEMA Type 4X/6P Pressure Type: Gauge Application: Standard Diaphragm Seal Type: W/o Sensor Range: 1bar/100kPa/15psi Calibration; Unit: Sensor range; inH2O/ftH2O Process Connection, Sealing Surface: Flange ASME B16.5, RF Process Connection: NPS 3" Cl.150, 316/316L Membrane Material; Application: 316L; standard Fill Fluid: Silicone oil, standard	1	EA	\$ -	\$ -	\$0	\$0	
441		SGH101-LSHH01: Level Switch Manufacturer: MJK Model #: 7030 Equipment Description: MJK Mechanical level float switch model 7030, 30' cable and cable bracket	1	EA	\$ -	\$ -	\$0	\$0	
442		SGH101-PE01: Isolation Ring Manufacturer: Onyx Equipment Description: 3" Onyx Iso-ring with IFM pn/2294 pressure switch *No set point from factory. Recommended set point is 15 psi higher than the maximum discharge pressure or 58 psi.	1	EA	\$ -	\$ -	\$0	\$0	
443		SGH101-PI01: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254CC/DSMLP12316-LT Equipment Description: 2 1/2 Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range -30-0-30 PSI. With Diaphragm Seal	1	EA	\$ -	\$ -	\$0	\$0	
444		SGH101-PI02: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254CC/DSMLP12316-LT Equipment Description: 2 1/2 Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range -30-0-30 PSI. With Diaphragm Seal	1	EA	\$ -	\$ -	\$0	\$0	
445		SGH101-PI03: Pressure Indicator Manufacturer: Monarch Instruments Model #: 30ILFW254CC/DSMLP12316-LT Equipment Description: 2 1/2 Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range -30-0-30 PSI. With Diaphragm Seal	1	EA	\$ -	\$ -	\$0	\$0	
446		SGH101-RDP01: Run Dry Protection Manufacturer: Seepex Equipment Description: Included in SGH101-UP02 standard design, complete - sensor sleeve fitted to the stator of the pump with integrated temperature sensor - connection head (IP55) - separate TSE control device suitable for mounting inside a control panel Voltage 24 V AC/DC Temperature coefficient NTC Material sensor sleeve 1.4404 / AISI 316L Material connection head aluminium	1	EA	\$ -	\$ -	\$0	\$0	
447		SGH101-TK01: Sludge Storage Silo Manufacturer: GPI Composites Equipment Description: 168" Dia x 418" Side Sheet FRP Tank; 39,500gal operating capacity; see GPI Composites quote for tank accessories	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
448		SGH101-UP01: Recirc/Transfer Pump Manufacturer: Gorman Rupp Model #: T6A61S-BF Equipment Description: Gorman Rupp T6A61S-BF Assembly Suction: 6" (150 mm) Discharge: 6" (150 mm) Solids Handling: 2.50" (76 mm) To Be Run at 1007RPM by VFD 750 GPM at 33' of Head Casing: Cast Iron Impeller/Rotor: Stainless Steel Seal Material: Silicon Carbide Flange: ANSI Spool Direct Drive on a Fabricated Steel Baseplate 20HP, 1200RPM, 230/460V TEFC Motor	1	EA	\$ -	\$ -	\$0	\$0	
449		SGH101-UP02: Transfer Pump Manufacturer: Seepex Model #: BN 17-6LS / A1-J0-J0-F0-GA Equipment Description: Seepex BN 17-6LS / A1-J0-J0-F0-GA Materials and design data sheet 500110400/3, item 1	1	EA	\$ -	\$ -	\$0	\$0	
		EQUIPMENT7							
450		SGH102-AG01: Mix Nozzle Manufacturer: kLA -Model #: K4DJM-1 Equipment Description: KLa Systems Model K4DJM-1 Directional Flanged Jet Mixing Nozzles (1 per tank) with a 6-inch flange connection fabricated of FRP. Type 18-8 interface hardware is included.	1	EA	\$ -	\$ -	\$0	\$0	
451		SGH102-ARV01: Air Release Valve Manufacturer: Gorman Rupp -Model #: GRP33-07 Equipment Description: Gorman-Rupp Automatic Air Release Valve Size 1" x 1" NPT, Static Discharge Head: 18-49', Valve Body: C.I. 30, Elastomers: Buna-N, Plunger Rod: SST 304, Inspection Cover: C.I. 30, Internal Hardware: SST 304, External Hardware: Plated Steel, Spring Color/Compression: 25 lbs. Plain	1	EA	\$ -	\$ -	\$0	\$0	
452		SGH102-ARV02: Air Release Valve Manufacturer: APCO -Model #: ASR,2,400,T1,DJ,R14,NBR,S2-S1-S2*BFK Equipment Description: Valve Style: 2" Apco Model 400.1 Sewage Service Air Release Valve End Connections: Threaded NPT Body Material: Ductile Iron (ASTM A536 Gr 65-45-12) Orifice Size: 1/4" (11-150 psi) Needle Material: Buna Seat Material: 316 Stainless Steel (ASTM A276 T316) Float Ball: 304 Stainless Steel (ASTM A240 T304) Float Lever: 316 Stainless Steel (ASTM A276 T316) Accessories: Backflush Attachment Kit	1	EA	\$ -	\$ -	\$0	\$0	
453		SGH102-EV01: Control Valve Manufacturer: Bray/Auma -Model #: 31-0600-11010-325*PF300 Equipment Description: 6": Bray Series 31 Resilient Seated Butterfly End Connections: ANSI Class 125 Lugged Body Material: Ductile Iron (ASTM A536) Seat Seal Material: Buna-n Disc Material: 316 Stainless Steel Shaft Material: 316 Stainless Steel Actuator: Auma Profox Electric Motor Operator 24V DC, NEMA 4 Enclosure, Actuator Supplied with Handwheel Override Open and Closed Position and Torque Relays, Heater and Thermostat, Visual Position Indication Green Open, Red Closed, Blue for Bluetooth Indicator. Non-intrusive actuator set-up. PF150: 32 Second Speed of Operation PF300: 45 Second Speed of Operation	1	EA	\$ -	\$ -	\$0	\$0	
454		SGH102-EV02: Control Valve Manufacturer: Bray/Auma -Model #: 31-0600-11010-325*PF300 Equipment Description: 6": Bray Series 31 Resilient Seated Butterfly End Connections: ANSI Class 125 Lugged Body Material: Ductile Iron (ASTM A536) Seat Seal Material: Buna-n Disc Material: 316 Stainless Steel Shaft Material: 316 Stainless Steel Actuator: Auma Profox Electric Motor Operator 24V DC, NEMA 4 Enclosure, Actuator Supplied with Handwheel Override Open and Closed Position and Torque Relays, Heater and Thermostat, Visual Position Indication Green Open, Red Closed, Blue for Bluetooth Indicator. Non-intrusive actuator set-up. PF150: 32 Second Speed of Operation PF300: 45 Second Speed of Operation	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
455		SGH102-FE01: Flow Meter Manufacturer: Endress & Hauser -Model #: 5W4C1F-2Q3F6/0 (5W4C1F-AAHLNN1LQA12GA) Equipment Description: Electromagnetic flowmeter Inline version. Application: Ideal for water measurement e.g. drinking water, utility water and industrial/municipal wastewater. International drinking water approvals. Installation length: DVGW/ISO conform. Corrosion-resistant transmitter version. Same housing for compact/remote version. :: Versatile standard flowmeter for the water and wastewater industry :: Constant accuracy with 0 x DN inlet run and no pressure loss (optional) 010: AAApproval: Non-hazardous area HDesign: Lap joint flange, 0 x DN inlet/ outlet runs LPower Supply: 100-240VAC/24VAC/DC NOutput; Input: EtherNet/IP NHousing: Remote, polycarbonate 1Cable, Remote Version: 5m/15ft coil and signal cable LElectrical Connection: Plug M12x1 + thread NPT1/2 QLiner: PTFE 90oC A12Process Connection: Cl.150, carbon steel, lap joint flange ASME B16.5 GElectrodes: 1.4435/316L, bullet nose ACalibration Flow: 0.5%	1	EA	\$ -	\$ -	\$0	\$0	
456		SGH102-LE01: Flange Mounted Level Element Manufacturer: Endress & Hauser -Model #: PMP51B-TQD8/0 (PMP51B-AABADB6AA3HEAAAFJA1) Equipment Description: Pressure, piezoresistive. Pressure transmitter. Compact/diaphragm seal. Application: pressure/level. Metal membrane: fully welded, high process pressure and temperature. Local or remote operation via Bluetooth (optional). Approval: Non-hazardous area Output: 2-wire 4-20mA HART Display; Operation: Segment display w/o buttons + Bluetooth Housing; Material: Single compartment; Alu, coated Electrical Connection: Thread NPT1/2, IP66/68 NEMA Type 4X/6P Pressure Type: Gauge Application: Standard Diaphragm Seal Type: W/o Sensor Range: 1bar/100kPa/15psi Calibration; Unit: Sensor range; inH2O/ftH2O Process Connection, Sealing Surface: Flange ASME B16.5, RF Process Connection: NPS 3" Cl.150, 316/316L Membrane Material; Application: 316L; standard Fill Fluid: Silicone oil, standard	1	EA	\$ -	\$ -	\$0	\$0	
457		SGH102-LE02: Flange Mounted Level Element Manufacturer: Endress & Hauser -Model #: PMP51B-TQD8/0 (PMP51B-AABADB6AA3HEAAAFJA1) Equipment Description: Pressure, piezoresistive. Pressure transmitter. Compact/diaphragm seal. Application: pressure/level. Metal membrane: fully welded, high process pressure and temperature. Local or remote operation via Bluetooth (optional). Approval: Non-hazardous area Output: 2-wire 4-20mA HART Display; Operation: Segment display w/o buttons + Bluetooth Housing; Material: Single compartment; Alu, coated Electrical Connection: Thread NPT1/2, IP66/68 NEMA Type 4X/6P Pressure Type: Gauge Application: Standard Diaphragm Seal Type: W/o Sensor Range: 1bar/100kPa/15psi Calibration; Unit: Sensor range; inH2O/ftH2O Process Connection, Sealing Surface: Flange ASME B16.5, RF Process Connection: NPS 3" Cl.150, 316/316L Membrane Material; Application: 316L; standard Fill Fluid: Silicone oil, standard	1	EA	\$ -	\$ -	\$0	\$0	
458		SGH102-LSHH01: Level Switch Manufacturer: MJK -Model #: 7030 Equipment Description: MJK Mechanical level float switch model 7030, 30' cable and cable bracket	1	EA	\$ -	\$ -	\$0	\$0	
459		SGH102-PE01: Isolation Ring Manufacturer: Onyx -Model #: 7030 Equipment Description: 3" Onyx Iso-ring with IFM pn/2294 pressure switch *No set point from factory. Recommended set point is 15 psi higher than the maximum discharge pressure or 58 psi.	1	EA	\$ -	\$ -	\$0	\$0	

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ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
460		SGH102-PI01: Pressure Indicator Manufacturer: Monarch Instruments -Model #: 30ILFW254CC/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range -30-0-30 PSI. With Diaphragm Seal.	1	EA	\$ -	\$ -	\$0	\$0	
461		SGH102-PI02: Pressure Indicator Manufacturer: Monarch Instruments -Model #: 30ILFW254CC/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range -30-0-30 PSI. With Diaphragm Seal.	1	EA	\$ -	\$ -	\$0	\$0	
462		SGH102-PI03: Pressure Indicator Manufacturer: Monarch Instruments -Model #: 30ILFW254CC/DSMLP12316-LT Equipment Description: 2 ½ Liquid Filled Pressure Gauge. 1/4MNPT Bottom Connection. Stainless Steel Case and Crimped Bezel. 316 Stainless Steel Bourdon Tube & Connection. Range -30-0-30 PSI. With Diaphragm Seal.	1	EA	\$ -	\$ -	\$0	\$0	
463		SGH102-RDP01: Run Dry Protection Manufacturer: Seepex Equipment Description: Included in SGH102-UP02 standard design, complete - sensor sleeve fitted to the stator of the pump with integrated temperature sensor - connection head (IP55) - separate TSE control device suitable for mounting inside a control panel Voltage 24 V AC/DC Temperature coefficient NTC Material sensor sleeve 1.4404 / AISI 316L Material connection head aluminium	1	EA	\$ -	\$ -	\$0	\$0	
464		SGH102-TK01: Sludge Storage Silo Manufacturer: GPI Composites Equipment Description: 168" Dia x 418" Side Sheet FRP Tank; 39,500gal operating capacity; see GPI Composites quote for tank accessories	1	EA	\$ -	\$ -	\$0	\$0	
465		SGH102-UP01: Recirc/Transfer Pump Manufacturer: Gorman Rupp -Model #: T6A61S-BF Equipment Description: Gorman Rupp T6A61S-BF Assembly Suction: 6" (150 mm) Discharge: 6" (150 mm) Solids Handling: 2.50" (76 mm) To Be Run at 1007RPM by VFD 750 GPM at 33' of Head Casing: Cast Iron Impeller/Rotor: Stainless Steel Seal Material: Silicon Carbide Flange: ANSI Spool Direct Drive on a Fabricated Steel Baseplate 20HP, 1200RPM, 230/460V TEFC Motor	1	EA	\$ -	\$ -	\$0	\$0	
466		SGH102-UP02: Transfer Pump Manufacturer: Seepex -Model #: BN 17-6LS / A1-J0-J0-F0-GA Equipment Description: Seepex BN 17-6LS / A1-J0-J0-F0-GA Materials and design data sheet 500110400/3, item 1	1	EA	\$ -	\$ -	\$0	\$0	
		SCHEDULE							
467		Analytical Probe	17	EA	\$ -	\$ -	\$0	\$0	
468		Analytical Controller	6	EA	\$ -	\$ -	\$0	\$0	
469		Air Release Valve	6	EA	\$ -	\$ -	\$0	\$0	
470		Flow Switch Cable	3	EA	\$ -	\$ -	\$0	\$0	
471		Pressure Indicator	12	EA	\$ -	\$ -	\$0	\$0	
472		Control Valve	3	EA	\$ -	\$ -	\$0	\$0	
473		Flow Meter	8	EA	\$ -	\$ -	\$0	\$0	
474		Ultrasonic Level Element	2	EA	\$ -	\$ -	\$0	\$0	
475		Turbidity Sensor	2	EA	\$ -	\$ -	\$0	\$0	
476		Compressor	1	EA	\$ -	\$ -	\$0	\$0	
477		Emergency Stop	1	EA	\$ -	\$ -	\$0	\$0	
478		Chemical Injection Quill	1	EA	\$ -	\$ -	\$0	\$0	
479		Pressure Switch	2	EA	\$ -	\$ -	\$0	\$0	
480		Solenoid Valve	7	EA	\$ -	\$ -	\$0	\$0	
481		Pressure Transmitter	1	EA	\$ -	\$ -	\$0	\$0	
482		Vendor Control Panel	3	EA	\$ -	\$ -	\$0	\$0	
483		DO Probe	2	EA	\$ -	\$ -	\$0	\$0	
484		Emergency Stop	1	EA	\$ -	\$ -	\$0	\$0	
485		Advanced Pipe Flocculator	1	EA	\$ -	\$ -	\$0	\$0	
486		Flange Mounted Level Element	1	EA	\$ -	\$ -	\$0	\$0	
487		Run Dry Protection	1	EA	\$ -	\$ -	\$0	\$0	
488		Sludge Pump	1	EA	\$ -	\$ -	\$0	\$0	
489		Recirc.Pump	1	EA	\$ -	\$ -	\$0	\$0	

 Dynamic Estimation Inc. Website: https://dynamicestimation.net/ Email: info@dynamicestimation.net Phone: 859-515-2045		PROJECT ID: DAWN FOOD PRODUCTS INC. SCOPE: HVAC & PLUMBING							
ITEM #	DWG. #	DESCRIPTION	QUANTITY	UNIT	LAB	MAT	UNIT COST	TOTAL COST	TRADE COST
		Subtotal (HVAC)							\$0
SUBTOTAL									\$0
OVERHEAD & PROFIT			20%						\$0
INSURANCE			3%						\$0
CONTINGENCY			7%						\$0
TOTAL BASE BID									\$0
Note:									