

GENERAL SUMMARY (HOTEL)

Prepared for: 0
 Project ID:
 Scope: MEP
 No. Of Floors: 4
 Date: 08/30/23



BUILDING GSF		13,407		
DIVISION NO.	DESCRIPTION	HOTEL	RESTAURANT	TOTAL
1000	General Requirments	\$ 962,000	\$ 444,000	\$ 1,406,000
22000	Plumbing	\$ 675,945	\$ 115,641	\$ 791,585
23000	HVAC	\$ 641,514	\$ 50,680	\$ 692,194
26000	Electrical	\$ 1,568,654	\$ 53,917	\$ 1,622,570
TOTAL TRADE COST		\$ 3,848,112	\$ 664,237	\$ 4,512,350
OVERHEAD AND PROFIT	15%	\$ 577,217	\$ 99,635.59	\$ 676,852.43
INSURANCE	3%	\$ 115,443	\$ 19,927	\$ 135,370
CONTINGENCY	5%	\$ 192,406	\$ 33,212	\$ 225,617
TAX	7%	\$ 0	\$ 8,154	\$ 8,154
TOTAL TRADE COST		\$ 4,733,178	\$ 825,166	\$ 5,558,344

DETAILED BREAKDOWN OF ITEMS

Prepared for:	
Project ID:	
Scope:	MEP



Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
GENERAL REQUIREMENTS													
1			Permits	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 70,000.00	\$ 70,000.00
2			Supervision and Coordination	LS	10	0%	10	0.000	\$ -	\$ -	\$ -	\$ 50,000.00	\$ 500,000.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 22,000.00	\$ 22,000.00
4			Final Cleaning	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 35,000.00	\$ 35,000.00
5			Mobilization Costs	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 225,000.00	\$ 225,000.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 92,000.00	\$ 92,000.00
7			Scaffolding	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 18,000.00	\$ 18,000.00
SUBTOTAL												\$ 962,000	

PLUMBING

			COLD WATER PIPE (BELOW GRADE)										
			Type "K" Soft Annealed Copper Tube, ASTM B 88M										
8			6" Dia Cold Water Pipe	LF	6	10%	6	0.075	\$ 72.00	\$ 5.40	\$ 245.00	\$ 250.40	\$ 1,547.97
			COLD WATER PIPE FITTINGS:										
			ELBOW:										
9			6" Dia Cold Water Pipe 90 Deg Elbow	EA	1	0%	1	0.650	\$ 72.00	\$ 46.80	\$ 537.19	\$ 583.99	\$ 583.99
			COLD WATER PIPE (ABOVE GRADE)										
			Type "L" Hard Drawn Copper Tube, ASTM B 88M										
10			1/2" Dia Cold Water Pipe	LF	3235	10%	3559	0.035	\$ 72.00	\$ 2.52	\$ 4.18	\$ 6.70	\$ 23,849.07
11			3/4" Dia Cold Water Pipe	LF	47	10%	52	0.042	\$ 72.00	\$ 3.02	\$ 5.44	\$ 8.46	\$ 441.69
12			1" Dia Cold Water Pipe	LF	83	10%	91	0.045	\$ 72.00	\$ 3.24	\$ 5.31	\$ 8.55	\$ 781.60
13			1-1/2" Dia Cold Water Pipe	LF	52	10%	57	0.052	\$ 72.00	\$ 3.74	\$ 9.69	\$ 13.43	\$ 768.42
14			2" Dia Cold Water Pipe	LF	200	10%	220	0.055	\$ 72.00	\$ 3.96	\$ 20.40	\$ 24.36	\$ 5,359.20
15			2-1/2" Dia Cold Water Pipe	LF	124	10%	136	0.068	\$ 72.00	\$ 4.90	\$ 24.65	\$ 29.55	\$ 4,029.42
16			3" Dia Cold Water Pipe	LF	72	10%	79	0.075	\$ 72.00	\$ 5.40	\$ 34.00	\$ 39.40	\$ 3,120.48
17			4" Dia Cold Water Pipe	LF	54	10%	60	0.088	\$ 72.00	\$ 6.34	\$ 63.75	\$ 70.09	\$ 4,195.49
18			6" Dia Cold Water Pipe	LF	16	10%	17	0.095	\$ 72.00	\$ 6.84	\$ 175.10	\$ 181.94	\$ 3,148.11
		Assumed	3/4" Thick Fiberglass Insulation										
19			1/2" Dia Cold Water Pipe	LF	3235	10%	3559	0.058	\$ 72.00	\$ 4.18	\$ 3.33	\$ 7.51	\$ 26,710.10
20			3/4" Dia Cold Water Pipe	LF	47	10%	52	0.067	\$ 72.00	\$ 4.82	\$ 5.22	\$ 10.04	\$ 524.14
21			1" Dia Cold Water Pipe	LF	83	10%	91	0.070	\$ 72.00	\$ 5.04	\$ 6.62	\$ 11.66	\$ 1,065.28
22			1-1/2" Dia Cold Water Pipe	LF	52	10%	57	0.073	\$ 72.00	\$ 5.26	\$ 9.83	\$ 15.09	\$ 862.92
23			2" Dia Cold Water Pipe	LF	200	10%	220	0.076	\$ 72.00	\$ 5.47	\$ 14.57	\$ 20.04	\$ 4,408.51
24			2-1/2" Dia Cold Water Pipe	LF	124	10%	136	0.079	\$ 72.00	\$ 5.69	\$ 21.43	\$ 27.12	\$ 3,698.30
25			3" Dia Cold Water Pipe	LF	72	10%	79	0.083	\$ 72.00	\$ 5.94	\$ 29.33	\$ 35.27	\$ 2,793.38
26			4" Dia Cold Water Pipe	LF	54	10%	60	0.085	\$ 72.00	\$ 6.12	\$ 40.66	\$ 46.78	\$ 2,800.34
27			6" Dia Cold Water Pipe	LF	16	10%	17	0.092	\$ 72.00	\$ 6.62	\$ 55.29	\$ 61.91	\$ 1,071.30
			COLD WATER PIPE FITTINGS:										
			ELBOW:										
28			1/2" Dia Cold Water Pipe 90 Deg Elbow	EA	373	0%	373	0.350	\$ 72.00	\$ 25.20	\$ 2.95	\$ 28.15	\$ 10,499.95
29			1" Dia Cold Water Pipe 90 Deg Elbow	EA	9	0%	9	0.380	\$ 72.00	\$ 27.36	\$ 16.00	\$ 43.36	\$ 390.24
30			1-1/2" Dia Cold Water Pipe 90 Deg Elbow	EA	6	0%	6	0.420	\$ 72.00	\$ 30.24	\$ 37.00	\$ 67.24	\$ 403.44
31			2" Dia Cold Water Pipe 90 Deg Elbow	EA	19	0%	19	0.440	\$ 72.00	\$ 31.68	\$ 66.00	\$ 97.68	\$ 1,855.92
32			2-1/2" Dia Cold Water Pipe 90 Deg Elbow	EA	12	0%	12	0.480	\$ 72.00	\$ 34.56	\$ 121.00	\$ 155.56	\$ 1,866.72
33			3" Dia Cold Water Pipe 90 Deg Elbow	EA	10	0%	10	0.520	\$ 72.00	\$ 37.44	\$ 174.00	\$ 211.44	\$ 2,114.40
34			4" Dia Cold Water Pipe 90 Deg Elbow	EA	4	0%	4	0.550	\$ 72.00	\$ 39.60	\$ 375.00	\$ 414.60	\$ 1,658.40
35			6" Dia Cold Water Pipe 90 Deg Elbow	EA	1	0%	1	0.650	\$ 72.00	\$ 46.80	\$ 2,000.00	\$ 2,046.80	\$ 2,046.80
			TEE:										

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: MEP



Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
36			1/2" Dia Cold Water Pipe Tee	EA	162	0%	162	0.550	\$ 72.00	\$ 39.60	\$ 1.89	\$ 41.49	\$ 6,721.38
37			3/4" Dia Cold Water Pipe Tee	EA	1	0%	1	0.580	\$ 72.00	\$ 41.76	\$ 11.90	\$ 53.66	\$ 53.66
38			1-1/2" Dia Cold Water Pipe Tee	EA	1	0%	1	0.650	\$ 72.00	\$ 46.80	\$ 74.50	\$ 121.30	\$ 121.30
39			2" Dia Cold Water Pipe Tee	EA	9	0%	9	0.670	\$ 72.00	\$ 48.24	\$ 118.00	\$ 166.24	\$ 1,496.16
40			2-1/2" Dia Cold Water Pipe Tee	EA	6	0%	6	0.690	\$ 72.00	\$ 49.68	\$ 217.00	\$ 266.68	\$ 1,600.08
41			3" Dia Cold Water Pipe Tee	EA	4	0%	4	0.720	\$ 72.00	\$ 51.84	\$ 315.00	\$ 366.84	\$ 1,467.36
42			4" Dia Cold Water Pipe Tee	EA	3	0%	3	0.755	\$ 72.00	\$ 54.36	\$ 735.00	\$ 789.36	\$ 2,368.08
43			3/4" / 1/2" Dia Cold Water Pipe Tee	EA	7	0%	7	0.622	\$ 72.00	\$ 44.78	\$ 18.45	\$ 63.23	\$ 442.64
44			1" / 1/2" Dia Cold Water Pipe Tee	EA	2	0%	2	0.688	\$ 72.00	\$ 49.54	\$ 87.50	\$ 137.04	\$ 274.07
45			2" / 3/4" Dia Cold Water Pipe Tee	EA	1	0%	1	0.712	\$ 72.00	\$ 51.26	\$ 150.00	\$ 201.26	\$ 201.26
46			2-1/2" / 1/2" Dia Cold Water Pipe Tee	EA	4	0%	4	0.745	\$ 72.00	\$ 53.64	\$ 415.00	\$ 468.64	\$ 1,874.56
47			2" / 1" Dia Cold Water Pipe Tee	EA	4	0%	4	0.788	\$ 72.00	\$ 56.74	\$ 150.00	\$ 206.74	\$ 826.94
48			3" / 2" Dia Cold Water Pipe Tee	EA	2	0%	2	0.835	\$ 72.00	\$ 60.12	\$ 470.00	\$ 530.12	\$ 1,060.24
49			3" / 1-1/2" Dia Cold Water Pipe Tee	EA	2	0%	2	0.825	\$ 72.00	\$ 59.40	\$ 315.00	\$ 374.40	\$ 748.80
50			4" / 3/4" Dia Cold Water Pipe Tee	EA	1	0%	1	0.965	\$ 72.00	\$ 69.48	\$ 325.00	\$ 394.48	\$ 394.48
			REDUCER:										
51			3/4" / 1/2" Dia Cold Water Pipe Reducer	EA	4	0%	4	0.288	\$ 72.00	\$ 20.74	\$ 18.45	\$ 39.19	\$ 156.74
52			1" / 1/2" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.300	\$ 72.00	\$ 21.60	\$ 87.50	\$ 109.10	\$ 109.10
53			1-1/2" / 1/2" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.320	\$ 72.00	\$ 23.04	\$ 92.00	\$ 115.04	\$ 115.04
54			2" / 1/2" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.350	\$ 72.00	\$ 25.20	\$ 150.00	\$ 175.20	\$ 175.20
55			2" / 1" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.380	\$ 72.00	\$ 27.36	\$ 150.00	\$ 177.36	\$ 177.36
56			2" / 1-1/2" Cold Water Pipe Reducer	EA	1	0%	1	0.400	\$ 72.00	\$ 28.80	\$ 172.00	\$ 200.80	\$ 200.80
57			2-1/2" / 2" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.400	\$ 72.00	\$ 28.80	\$ 415.00	\$ 443.80	\$ 443.80
58			3" / 1-1/2" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.420	\$ 72.00	\$ 30.24	\$ 470.00	\$ 500.24	\$ 500.24
59			3" / 2-1/2" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.480	\$ 72.00	\$ 34.56	\$ 462.00	\$ 496.56	\$ 496.56
60			4" / 2" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.552	\$ 72.00	\$ 39.74	\$ 622.00	\$ 661.74	\$ 661.74
61			4" / 3" Dia Cold Water Pipe Reducer	EA	1	0%	1	0.566	\$ 72.00	\$ 40.75	\$ 725.00	\$ 765.75	\$ 765.75
			HOT WATER PIPE (ABOVE GRADE)										
			Type "L" Hard Drawn Copper Tube, ASTM B 88M										
62			1/2" Dia Hot Water Pipe	LF	2432	10%	2675	0.035	\$ 72.00	\$ 2.52	\$ 4.18	\$ 6.70	\$ 17,929.19
63			3/4" Dia Hot Water Pipe	LF	5	10%	5	0.042	\$ 72.00	\$ 3.02	\$ 5.44	\$ 8.46	\$ 45.34
64			1" Dia Hot Water Pipe	LF	85	10%	93	0.045	\$ 72.00	\$ 3.24	\$ 5.31	\$ 8.55	\$ 797.12
65			1-1/2" Dia Hot Water Pipe	LF	49	10%	54	0.052	\$ 72.00	\$ 3.74	\$ 9.69	\$ 13.43	\$ 724.09
66			2" Dia Hot Water Pipe	LF	186	10%	205	0.055	\$ 72.00	\$ 3.96	\$ 20.40	\$ 24.36	\$ 4,984.06
67			2-1/2" Dia Hot Water Pipe	LF	169	10%	186	0.068	\$ 72.00	\$ 4.90	\$ 24.65	\$ 29.55	\$ 5,503.65
68			3" Dia Hot Water Pipe	LF	73	10%	81	0.075	\$ 72.00	\$ 5.40	\$ 34.00	\$ 39.40	\$ 3,185.06
			Size Assumed 3/4" Thick Fiberglass Insulation										
69			1/2" Dia Hot Water Pipe	LF	2432	10%	2675	0.058	\$ 72.00	\$ 4.18	\$ 3.33	\$ 7.51	\$ 20,080.05
70			3/4" Dia Hot Water Pipe	LF	5	10%	5	0.067	\$ 72.00	\$ 4.82	\$ 5.22	\$ 10.04	\$ 53.81
71			1" Dia Hot Water Pipe	LF	85	10%	93	0.070	\$ 72.00	\$ 5.04	\$ 6.62	\$ 11.66	\$ 1,086.44
72			1-1/2" Dia Hot Water Pipe	LF	49	10%	54	0.073	\$ 72.00	\$ 5.26	\$ 9.83	\$ 15.09	\$ 813.14
73			2" Dia Hot Water Pipe	LF	186	10%	205	0.076	\$ 72.00	\$ 5.47	\$ 14.57	\$ 20.04	\$ 4,099.91
74			2-1/2" Dia Hot Water Pipe	LF	169	10%	186	0.079	\$ 72.00	\$ 5.69	\$ 21.43	\$ 27.12	\$ 5,051.38
75			3" Dia Hot Water Pipe	LF	73	10%	81	0.083	\$ 72.00	\$ 5.94	\$ 29.33	\$ 35.27	\$ 2,851.19
			HOT WATER PIPE FITTINGS:										
			ELBOW:										
76			1/2" Dia Hot Water Pipe 90 Deg Elbow	EA	309	0%	309	0.350	\$ 72.00	\$ 25.20	\$ 2.95	\$ 28.15	\$ 8,698.35
77			1" Dia Hot Water Pipe 90 Deg Elbow	EA	6	0%	6	0.380	\$ 72.00	\$ 27.36	\$ 16.00	\$ 43.36	\$ 260.16
78			1-1/2" Dia Hot Water Pipe 90 Deg Elbow	EA	6	0%	6	0.420	\$ 72.00	\$ 30.24	\$ 37.00	\$ 67.24	\$ 403.44
79			2" Dia Hot Water Pipe 90 Deg Elbow	EA	19	0%	19	0.440	\$ 72.00	\$ 31.68	\$ 66.00	\$ 97.68	\$ 1,855.92

DETAILED BREAKDOWN OF ITEMS

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Project ID:
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Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
80			2-1/2" Dia Hot Water Pipe 90 Deg Elbow	EA	18	0%	18	0.480	\$ 72.00	\$ 34.56	\$ 121.00	\$ 155.56	\$ 2,800.08
81			3" Dia Hot Water Pipe 90 Deg Elbow	EA	7	0%	7	0.520	\$ 72.00	\$ 37.44	\$ 174.00	\$ 211.44	\$ 1,480.08
			TEE:										
82			1/2" Dia Hot Water Pipe Tee	EA	22	0%	22	0.550	\$ 72.00	\$ 39.60	\$ 1.89	\$ 41.49	\$ 912.78
83			1" Dia Hot Water Pipe Tee	EA	2	0%	2	0.605	\$ 72.00	\$ 43.56	\$ 38.20	\$ 81.76	\$ 163.52
84			1-1/2" Dia Hot Water Pipe Tee	EA	1	0%	1	0.650	\$ 72.00	\$ 46.80	\$ 74.50	\$ 121.30	\$ 121.30
85			2" Dia Hot Water Pipe Tee	EA	9	0%	9	0.670	\$ 72.00	\$ 48.24	\$ 118.00	\$ 166.24	\$ 1,496.16
86			2-1/2" Dia Hot Water Pipe Tee	EA	9	0%	9	0.690	\$ 72.00	\$ 49.68	\$ 217.00	\$ 266.68	\$ 2,400.12
86			3" Dia Hot Water Pipe Tee	EA	4	0%	4	0.720	\$ 72.00	\$ 51.84	\$ 315.00	\$ 366.84	\$ 1,467.36
87			3/4" / 1/2" Dia Hot Water Pipe Tee	EA	1	0%	1	0.622	\$ 72.00	\$ 44.78	\$ 18.45	\$ 63.23	\$ 63.23
88			2" / 1/2" Dia Hot Water Pipe Tee	EA	1	0%	1	0.655	\$ 72.00	\$ 47.16	\$ 150.00	\$ 197.16	\$ 197.16
89			2" / 3/4" Dia Hot Water Pipe Tee	EA	1	0%	1	0.712	\$ 72.00	\$ 51.26	\$ 150.00	\$ 201.26	\$ 201.26
90			2" / 1" Dia Hot Water Pipe Tee	EA	5	0%	5	0.788	\$ 72.00	\$ 56.74	\$ 150.00	\$ 206.74	\$ 1,033.68
91			2-1/2" / 2" Dia Hot Water Pipe Tee	EA	1	0%	1	0.745	\$ 72.00	\$ 53.64	\$ 415.00	\$ 468.64	\$ 468.64
92			3" / 1-1/2" Dia Hot Water Pipe Tee	EA	2	0%	2	0.825	\$ 72.00	\$ 59.40	\$ 315.00	\$ 374.40	\$ 748.80
93			3" / 2" Dia Hot Water Pipe Tee	EA	1	0%	1	0.835	\$ 72.00	\$ 60.12	\$ 470.00	\$ 530.12	\$ 530.12
			REDUCER:										
94			3/4" / 1/2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.288	\$ 72.00	\$ 20.74	\$ 18.45	\$ 39.19	\$ 39.19
95			1" / 1/2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.300	\$ 72.00	\$ 21.60	\$ 87.50	\$ 109.10	\$ 109.10
96			1-1/2" / 1/2" Hot Water Pipe Reducer	EA	1	0%	1	0.320	\$ 72.00	\$ 23.04	\$ 92.00	\$ 115.04	\$ 115.04
97			2" / 1/2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.350	\$ 72.00	\$ 25.20	\$ 150.00	\$ 175.20	\$ 175.20
98			2" / 1" Dia Hot Water Pipe Reducer	EA	2	0%	2	0.380	\$ 72.00	\$ 27.36	\$ 150.00	\$ 177.36	\$ 354.72
99			2" / 1-1/2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.400	\$ 72.00	\$ 28.80	\$ 172.00	\$ 200.80	\$ 200.80
100			2-1/2" / 2" Dia Hot Water Reducer	EA	1	0%	1	0.400	\$ 72.00	\$ 28.80	\$ 415.00	\$ 443.80	\$ 443.80
101			3" / 1-1/2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.420	\$ 72.00	\$ 30.24	\$ 470.00	\$ 500.24	\$ 500.24
102			3" / 2" Dia Hot Water Pipe Reducer	EA	1	0%	1	0.460	\$ 72.00	\$ 33.12	\$ 462.00	\$ 495.12	\$ 495.12
103			3" / 2-1/2" Hot Water Pipe Reducer	EA	1	0%	1	0.480	\$ 72.00	\$ 34.56	\$ 462.00	\$ 496.56	\$ 496.56
			HOT WATER RETURN PIPE (ABOVE GRADE)										
			Type "L" Hard Drawn Copper Tube, ASTM B 88M										
104			3/8" Dia Hot Water Return Pipe	LF	38	10%	42	0.032	\$ 72.00	\$ 2.30	\$ 3.89	\$ 6.19	\$ 260.41
105			1/2" Dia Hot Water Return Pipe	LF	226	10%	249	0.035	\$ 72.00	\$ 2.52	\$ 4.18	\$ 6.70	\$ 1,665.62
106			3/4" Dia Hot Water Return Pipe	LF	360	10%	396	0.042	\$ 72.00	\$ 3.02	\$ 5.44	\$ 8.46	\$ 3,355.47
107			1" Dia Hot Water Return Pipe	LF	24	10%	27	0.045	\$ 72.00	\$ 3.24	\$ 5.31	\$ 8.55	\$ 228.45
		Size Assumed	3/4" Thick Fiberglass Insulation										
108			3/8" Dia Hot Water Return Pipe	LF	38	10%	42	0.052	\$ 72.00	\$ 3.74	\$ 2.95	\$ 6.69	\$ 281.43
109			1/2" Dia Hot Water Return Pipe	LF	226	10%	249	0.058	\$ 72.00	\$ 4.18	\$ 3.33	\$ 7.51	\$ 1,865.99
110			3/4" Dia Hot Water Return Pipe	LF	360	10%	396	0.067	\$ 72.00	\$ 4.82	\$ 5.22	\$ 10.04	\$ 3,981.84
111			1" Dia Hot Water Return Pipe	LF	24	10%	27	0.070	\$ 72.00	\$ 5.04	\$ 6.62	\$ 11.66	\$ 311.45
			HOT WATER RETURN PIPE FITTINGS:										
			ELBOW:										
112			3/8" Dia Hot Water Return Pipe 90 Deg Elbow	EA	3	0%	3	0.322	\$ 72.00	\$ 23.18	\$ 2.45	\$ 25.63	\$ 76.90
113			1/2" Dia Hot Water Return Pipe 90 Deg Elbow	EA	12	0%	12	0.350	\$ 72.00	\$ 25.20	\$ 2.95	\$ 28.15	\$ 337.80
114			3/4" Dia Hot Water Return Pipe 90 Deg Elbow	EA	46	0%	46	0.360	\$ 72.00	\$ 25.92	\$ 5.39	\$ 31.31	\$ 1,440.26
115			1" Dia Hot Water Return Pipe 90 Deg Elbow	EA	1	0%	1	0.380	\$ 72.00	\$ 27.36	\$ 16.00	\$ 43.36	\$ 43.36
			TEE:										
116			1/2" Dia Hot Water Return Pipe Tee	EA	1	0%	1	0.550	\$ 72.00	\$ 39.60	\$ 1.89	\$ 41.49	\$ 41.49
117			3/4" Dia Hot Water Return Pipe Tee	EA	21	0%	21	0.580	\$ 72.00	\$ 41.76	\$ 11.90	\$ 53.66	\$ 1,126.86
118			1" Dia Hot Water Return Pipe Tee	EA	1	0%	1	0.605	\$ 72.00	\$ 43.56	\$ 60.50	\$ 104.06	\$ 104.06
119			3/4" / 3/8" Dia Hot Water Return Pipe Tee	EA	1	0%	1	0.612	\$ 72.00	\$ 44.06	\$ 16.85	\$ 60.91	\$ 60.91
120			3/4" / 1/2" Dia Hot Water Return Pipe Tee	EA	2	0%	2	0.622	\$ 72.00	\$ 44.78	\$ 18.45	\$ 63.23	\$ 126.47

DETAILED BREAKDOWN OF ITEMS

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Scope: MEP



Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST	
	M200, M300, M301, M302, M402, M500, M600 & M601		REDUCER:											
121			3/4" / 1/2" Dia Hot Water Return Pipe Reducer	EA	1	0%	1	0.288	\$ 72.00	\$ 20.74	\$ 18.45	\$ 39.19	\$ 39.19	
122			1" / 3/4" Dia Hot Water Return Reducer	EA	2	0%	2	0.356	\$ 72.00	\$ 25.63	\$ 80.75	\$ 106.38	\$ 212.76	
			SANITARY PIPE (BELOW GRADE)											
			DWH Schedule 40 PVC											
123			1-1/2" Dia Sanitary Pipe	LF	103	10%	113	0.045	\$ 72.00	\$ 3.24	\$ 3.51	\$ 6.75	\$ 765.74	
124			3" Dia Sanitary Pipe	LF	351	10%	386	0.065	\$ 72.00	\$ 4.68	\$ 7.88	\$ 12.56	\$ 4,852.93	
125			4" Dia Sanitary Pipe	LF	173	10%	190	0.069	\$ 72.00	\$ 4.97	\$ 5.88	\$ 10.84	\$ 2,058.36	
126			6" Dia Sanitary Pipe	LF	78	10%	86	0.072	\$ 72.00	\$ 5.18	\$ 19.50	\$ 24.68	\$ 2,112.46	
127			8" Dia Sanitary Pipe	LF	47	10%	52	0.075	\$ 72.00	\$ 5.40	\$ 36.14	\$ 41.54	\$ 2,148.53	
			SANITARY PIPE FITTINGS:											
			ELBOW:											
128			1-1/2" Dia Sanitary Pipe 90 Deg Elbow	EA	21	0%	21	0.260	\$ 72.00	\$ 18.72	\$ 3.56	\$ 22.28	\$ 467.88	
129			3" Dia Sanitary Pipe 90 Deg Elbow	EA	54	0%	54	0.410	\$ 72.00	\$ 29.52	\$ 21.50	\$ 51.02	\$ 2,755.08	
130			4" Dia Sanitary Pipe 90 Deg Elbow	EA	4	0%	4	0.435	\$ 72.00	\$ 31.32	\$ 38.50	\$ 69.82	\$ 279.28	
131			8" Dia Sanitary Pipe 90 Deg Elbow	EA	1	0%	1	0.788	\$ 72.00	\$ 56.74	\$ 315.00	\$ 371.74	\$ 371.74	
132			1-1/2" Dia Sanitary Pipe 45 Deg Elbow	EA	25	0%	25	0.260	\$ 72.00	\$ 18.72	\$ 5.30	\$ 24.02	\$ 600.50	
133			3" Dia Sanitary Pipe 45 Deg Elbow	EA	39	0%	39	0.410	\$ 72.00	\$ 29.52	\$ 28.50	\$ 58.02	\$ 2,262.78	
134			4" Dia Sanitary Pipe 45 Deg Elbow	EA	3	0%	3	0.435	\$ 72.00	\$ 31.32	\$ 50.50	\$ 81.82	\$ 245.46	
135			6" Dia Sanitary Pipe 45 Deg Elbow	EA	2	0%	2	0.685	\$ 72.00	\$ 49.32	\$ 125.00	\$ 174.32	\$ 348.64	
136			8" Dia Sanitary Pipe 45 Deg Elbow	EA	1	0%	1	0.788	\$ 72.00	\$ 56.74	\$ 300.00	\$ 356.74	\$ 356.74	
			WYE:											
137			3" Dia Sanitary Pipe Wye	EA	21	0%	21	0.588	\$ 72.00	\$ 42.34	\$ 32.50	\$ 74.84	\$ 1,571.56	
138			4" Dia Sanitary Pipe Wye	EA	2	0%	2	0.625	\$ 72.00	\$ 45.00	\$ 51.00	\$ 96.00	\$ 192.00	
139			8" Dia Sanitary Pipe Wye	EA	1	0%	1	0.885	\$ 72.00	\$ 63.72	\$ 450.00	\$ 513.72	\$ 513.72	
140			3" / 1-1/2" Dia Sanitary Pipe Wye	EA	20	0%	20	0.825	\$ 72.00	\$ 59.40	\$ 19.85	\$ 79.25	\$ 1,585.00	
141			4" / 3" Dia Sanitary Pipe Wye	EA	24	0%	24	0.922	\$ 72.00	\$ 66.38	\$ 22.00	\$ 88.38	\$ 2,121.22	
142			6" / 3" Dia Sanitary Pipe Wye	EA	6	0%	6	0.955	\$ 72.00	\$ 68.76	\$ 58.00	\$ 126.76	\$ 760.56	
143			6" / 4" Dia Sanitary Pipe Wye	EA	2	0%	2	0.958	\$ 72.00	\$ 68.98	\$ 65.00	\$ 133.98	\$ 267.95	
144			8" / 3" Dia Sanitary Pipe Wye	EA	3	0%	3	0.970	\$ 72.00	\$ 69.84	\$ 216.00	\$ 285.84	\$ 857.52	
145			8" / 6" Dia Sanitary Pipe Wye	EA	2	0%	2	0.990	\$ 72.00	\$ 71.28	\$ 245.00	\$ 316.28	\$ 632.56	
			REDUCER:											
146			3" / 1-1/2" Dia Sanitary Pipe Reducer	EA	1	0%	1	0.420	\$ 72.00	\$ 30.24	\$ 21.00	\$ 51.24	\$ 51.24	
147			4" / 3" Dia Sanitary Pipe Reducer	EA	1	0%	1	0.655	\$ 72.00	\$ 47.16	\$ 23.50	\$ 70.66	\$ 70.66	
148			6" / 4" Dia Sanitary Pipe Reducer	EA	2	0%	2	0.865	\$ 72.00	\$ 62.28	\$ 58.00	\$ 120.28	\$ 240.56	
			SANITARY PIPE (ABOVE GRADE)											
			DWH Schedule 40 PVC											
149			1-1/2" Dia Sanitary Pipe	LF	1366	10%	1503	0.045	\$ 72.00	\$ 3.24	\$ 3.51	\$ 6.75	\$ 10,142.55	
150			3" Dia Sanitary Pipe	LF	571	10%	628	0.065	\$ 72.00	\$ 4.68	\$ 7.88	\$ 12.56	\$ 7,888.94	
151			4" Dia Sanitary Pipe	LF	627	10%	689	0.069	\$ 72.00	\$ 4.97	\$ 5.88	\$ 10.85	\$ 7,477.69	
152			8" Dia Sanitary Pipe	LF	14	10%	15	0.075	\$ 72.00	\$ 5.40	\$ 36.14	\$ 41.54	\$ 623.27	
			SANITARY PIPE FITTINGS:											
			ELBOW:											
153			1-1/2" Dia Sanitary Pipe 90 Deg Elbow	EA	167	0%	167	0.260	\$ 72.00	\$ 18.72	\$ 3.56	\$ 22.28	\$ 3,720.76	
154			3" Dia Sanitary Pipe 90 Deg Elbow	EA	84	0%	84	0.410	\$ 72.00	\$ 29.52	\$ 21.50	\$ 51.02	\$ 4,285.68	
155		4" Dia Sanitary Pipe 90 Deg Elbow	EA	53	0%	53	0.435	\$ 72.00	\$ 31.32	\$ 38.50	\$ 69.82	\$ 3,700.46		
156		8" Dia Sanitary Pipe 90 Deg Elbow	EA	1	0%	1	0.788	\$ 72.00	\$ 56.74	\$ 315.00	\$ 371.74	\$ 371.74		
157		1-1/2" Dia Sanitary Pipe 45 Deg Elbow	EA	80	0%	80	0.260	\$ 72.00	\$ 18.72	\$ 5.30	\$ 24.02	\$ 1,921.60		
158		3" Dia Sanitary Pipe 45 Deg Elbow	EA	10	0%	10	0.410	\$ 72.00	\$ 29.52	\$ 28.50	\$ 58.02	\$ 580.20		
159		4" Dia Sanitary Pipe 45 Deg Elbow	EA	28	0%	28	0.435	\$ 72.00	\$ 31.32	\$ 50.50	\$ 81.82	\$ 2,290.96		
		WYE:												

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: MEP



Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
160			1-1/2" Dia Sanitary Pipe Wye	EA	80	0%	80	0.422	\$ 72.00	\$ 30.38	\$ 14.29	\$ 44.67	\$ 3,573.92
161			3" Dia Sanitary Pipe Wye	EA	148	0%	148	0.588	\$ 72.00	\$ 42.34	\$ 32.50	\$ 74.84	\$ 11,075.73
162			4" Dia Sanitary Pipe Wye	EA	39	0%	39	0.625	\$ 72.00	\$ 45.00	\$ 51.00	\$ 96.00	\$ 3,744.00
162			3" / 1-1/2" Dia Sanitary Pipe Wye	EA	37	0%	37	0.522	\$ 72.00	\$ 37.58	\$ 19.85	\$ 57.43	\$ 2,125.06
163			3" / 2" Dia Sanitary Pipe Wye	EA	58	0%	58	0.544	\$ 72.00	\$ 39.17	\$ 22.65	\$ 61.82	\$ 3,585.44
			REDUCER:										
164			3" / 1-1/2" Dia Sanitary Pipe Reducer	EA	130	0%	130	0.420	\$ 72.00	\$ 30.24	\$ 21.00	\$ 51.24	\$ 6,661.20
165			3" / 2" Dia Sanitary Pipe Reducer	EA	10	0%	10	0.435	\$ 72.00	\$ 31.32	\$ 28.25	\$ 59.57	\$ 595.70
166			3" / 1-1/2" Dia Sanitary Pipe Reducer	EA	15	0%	15	0.420	\$ 72.00	\$ 30.24	\$ 21.00	\$ 51.24	\$ 768.60
			VENT PIPE (ABOVE GRADE)										
			DWV Schedule 40 PVC										
167			1-1/2" Dia Vent Pipe	LF	1134	10%	1247	0.045	\$ 72.00	\$ 3.24	\$ 3.51	\$ 6.75	\$ 8,419.95
168			3" Dia Vent Pipe	LF	610	10%	670	0.065	\$ 72.00	\$ 4.68	\$ 7.88	\$ 12.56	\$ 8,420.85
			VENT PIPE FITTINGS:										
			ELBOW:										
169			3" Dia Vent Pipe 90 Deg Elbow	EA	24	0%	24	0.410	\$ 72.00	\$ 29.52	\$ 21.50	\$ 51.02	\$ 1,224.48
170			1-1/2" Dia Vent Pipe 45 Deg Elbow	EA	6	0%	6	0.260	\$ 72.00	\$ 18.72	\$ 5.30	\$ 24.02	\$ 144.12
			TEE:										
171			3" Dia Vent Pipe Tee	EA	8	0%	8	0.400	\$ 72.00	\$ 28.80	\$ 18.45	\$ 47.25	\$ 378.00
172			3" / 1-1/2" Dia Vent Pipe Tee	EA	12	0%	12	0.400	\$ 72.00	\$ 28.80	\$ 19.00	\$ 47.80	\$ 573.60
			REDUCER:										
173			3" / 1-1/2" Dia Vent Pipe Reducer	EA	8	0%	8	0.420	\$ 72.00	\$ 30.24	\$ 21.00	\$ 51.24	\$ 409.92
			STORM DRAIN PIPE (BELOW GRADE)										
			DWV Schedule 40 PVC										
174			10" Dia Storm Pipe	LF	7	10%	7	0.082	\$ 72.00	\$ 5.90	\$ 55.62	\$ 61.52	\$ 447.34
			STORM DRAIN PIPE FITTINGS:										
			ELBOW:										
175			10" Dia Storm Pipe 90 Deg Elbow	EA	1	0%	1	0.825	\$ 72.00	\$ 59.40	\$ 425.00	\$ 484.40	\$ 484.40
			STORM DRAIN PIPE (ABOVE GRADE)										
			DWV Schedule 40 PVC										
176			6" Dia Storm Pipe	LF	946	10%	1041	0.072	\$ 72.00	\$ 5.18	\$ 19.50	\$ 24.68	\$ 25,695.13
177			10" Dia Storm Pipe	LF	20	10%	22	0.082	\$ 72.00	\$ 5.90	\$ 55.62	\$ 61.52	\$ 1,329.84
			STORM DRAIN PIPE FITTINGS:										
			ELBOW:										
178			6" Dia Storm Pipe 90 Deg Elbow	EA	8	0%	8	0.685	\$ 72.00	\$ 49.32	\$ 176.50	\$ 225.82	\$ 1,806.56
179			10" Dia Storm Pipe 90 Deg Elbow	EA	2	0%	2	0.825	\$ 72.00	\$ 59.40	\$ 425.00	\$ 484.40	\$ 968.80
180			6" Dia Storm Pipe 45 Deg Elbow	EA	24	0%	24	0.685	\$ 72.00	\$ 49.32	\$ 125.00	\$ 174.32	\$ 4,183.68
			WYE:										
181			6" Dia Storm Pipe Wye	EA	26	0%	26	0.788	\$ 72.00	\$ 56.74	\$ 250.50	\$ 307.24	\$ 7,988.14
			PLUMBING FIXTURES										
182			SH -1: Shower	EA	3	0%	3	2.350	\$ 72.00	\$ 169.20	\$ 642.00	\$ 811.20	\$ 2,433.60
183			SH -2: Shower	EA	2	0%	2	2.350	\$ 72.00	\$ 169.20	\$ 642.00	\$ 811.20	\$ 1,622.40
184			SK -1: Sink	EA	2	0%	2	2.857	\$ 72.00	\$ 205.70	\$ 809.83	\$ 1,015.53	\$ 2,031.07
185			SK -2: Sink	EA	2	0%	2	2.857	\$ 72.00	\$ 205.70	\$ 809.83	\$ 1,015.53	\$ 2,031.07
186			SK -3: Sink	EA	2	0%	2	2.857	\$ 72.00	\$ 205.70	\$ 809.83	\$ 1,015.53	\$ 2,031.07
187			SK -4: Sink	EA	2	0%	2	2.857	\$ 72.00	\$ 205.70	\$ 809.83	\$ 1,015.53	\$ 2,031.07
188			FEX	EA	9	0%	9	0.850	\$ 72.00	\$ 61.20	\$ 64.30	\$ 125.50	\$ 1,129.50
189			GM-1: Gas Meter	EA	0	0%	0	1.000	\$ 72.00	\$ 72.00	\$ 530.00	\$ 602.00	\$ -
190			HD: Head	EA	1	0%	1	0.880	\$ 72.00	\$ 63.36	\$ 89.87	\$ 153.23	\$ 153.23

Schedule not
given

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: MEP



Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
191		Given	JS-1 Janitor Sink	EA	2	0%	2	2.265	\$ 72.00	\$ 163.08	\$ 179.99	\$ 343.07	\$ 686.14
192			LAV-1: Lavatory	EA	5	0%	5	2.000	\$ 72.00	\$ 144.00	\$ 553.00	\$ 697.00	\$ 3,485.00
193			LAV -2: Lavatory	EA	8	0%	8	2.000	\$ 72.00	\$ 144.00	\$ 553.00	\$ 697.00	\$ 5,576.00
194			LAV-3: Lavatory	EA	1	0%	1	2.000	\$ 72.00	\$ 144.00	\$ 553.00	\$ 697.00	\$ 697.00
195			LAV-4: Lavatory	EA	1	0%	1	2.000	\$ 72.00	\$ 144.00	\$ 553.00	\$ 697.00	\$ 697.00
196			P-1 Pump	EA	1	0%	1	1.850	\$ 72.00	\$ 133.20	\$ 89.99	\$ 223.19	\$ 223.19
197			W/M-1 Commercial Water Meter	EA	1	0%	1	0.571	\$ 72.00	\$ 41.11	\$ 467.79	\$ 508.90	\$ 508.90
198			WC-1: Water Closet	EA	15	0%	15	3.019	\$ 72.00	\$ 217.37	\$ 895.34	\$ 1,112.71	\$ 16,690.62
			ELECTRIC WATER HEATER										
199			EW-1: Electric Water Heater	EA	3	0%	3	3.200	\$ 72.00	\$ 230.40	\$ 1,207.20	\$ 1,437.60	\$ 4,312.80
			WATER HEATER ACCESSORIES										
200			T-1" Expansion Tank	EA	1	0%	1	1.500	\$ 72.00	\$ 108.00	\$ 48.48	\$ 156.48	\$ 156.48
			MISCELLANEOUS										
201			2" Dia DCWP Cap	EA	1	0%	1	0.022	\$ 72.00	\$ 1.58	\$ 5.48	\$ 7.06	\$ 7.06
202			3/4" Dia Cam Lock Access Panel	EA	14	0%	14	0.580	\$ 72.00	\$ 41.76	\$ 129.82	\$ 171.58	\$ 2,402.12
203		No Detail	Manifold	EA	14	0%	14	0.740	\$ 72.00	\$ 53.28	\$ 32.59	\$ 85.87	\$ 1,202.18
204			1-1/2" Dia P- Trap	EA	5	0%	5	0.480	\$ 72.00	\$ 34.56	\$ 25.50	\$ 60.06	\$ 300.30
205			3" Dia P - Trap	EA	12	0%	12	0.550	\$ 72.00	\$ 39.60	\$ 53.05	\$ 92.65	\$ 1,111.80
206			4" Dia P-Trap	EA	4	0%	4	0.590	\$ 72.00	\$ 42.48	\$ 57.28	\$ 99.76	\$ 399.04
207			1-1/2" Dia Union	EA	6	0%	6	0.350	\$ 72.00	\$ 25.20	\$ 30.60	\$ 55.80	\$ 334.80
208			1/2" Dia Strainer	EA	1	0%	1	0.460	\$ 72.00	\$ 33.12	\$ 16.08	\$ 49.20	\$ 49.20
			CLEANOUTS & DRAINS:										
209			3" Dia Cleanout	EA	18	0%	18	0.950	\$ 72.00	\$ 68.40	\$ 59.69	\$ 128.09	\$ 2,305.62
210			4" Dia Cleanout	EA	24	0%	24	1.000	\$ 72.00	\$ 72.00	\$ 55.37	\$ 127.37	\$ 3,056.88
211			6" Dia Cleanout	EA	20	0%	20	1.223	\$ 72.00	\$ 88.06	\$ 62.53	\$ 150.59	\$ 3,011.72
212			8" Dia Cleanout	EA	1	0%	1	1.330	\$ 72.00	\$ 95.76	\$ 250.22	\$ 345.98	\$ 345.98
213			3" Dia, FD: Floor Drain, ZURN Z-1732, Notes: Floor Drain	EA	10	0%	10	0.950	\$ 72.00	\$ 68.40	\$ 74.19	\$ 142.59	\$ 1,425.90
214			4" Dia, FD: Floor Drain, ZURN Z-1732, Notes: Floor Drain	EA	1	0%	1	1.000	\$ 72.00	\$ 72.00	\$ 118.99	\$ 190.99	\$ 190.99
215			4" Dia, RD: Roof Drain, ZURN RD2130, Notes: Dura-Coat	EA	8	0%	8	1.000	\$ 72.00	\$ 72.00	\$ 75.79	\$ 147.79	\$ 1,182.32
216			6" Dia, RD: Roof Drain, ZURN RD2130, Notes: Dura-Coat	EA	6	0%	6	1.223	\$ 72.00	\$ 88.06	\$ 97.92	\$ 185.98	\$ 1,115.86
217			3" Dia Trench Drain - 1	EA	1	0%	1	1.500	\$ 72.00	\$ 108.00	\$ 54.58	\$ 162.58	\$ 162.58
218			Roof Drain-7	EA	9	0%	9	1.000	\$ 72.00	\$ 72.00	\$ 252.49	\$ 324.49	\$ 2,920.41
			VALVES:										
219			3/4" Dia Isolation Valve	EA	4	0%	4	0.400	\$ 72.00	\$ 28.80	\$ 97.62	\$ 126.42	\$ 505.68
220			3/4" Dia Mixing Valve	EA	2	0%	2	0.400	\$ 72.00	\$ 28.80	\$ 144.46	\$ 173.26	\$ 346.52
221			3/4" Dia Shutoff Valve	EA	14	0%	14	0.400	\$ 72.00	\$ 28.80	\$ 22.29	\$ 51.09	\$ 715.26
222			1/2" Dia Isolation Valve	EA	11	0%	11	0.380	\$ 72.00	\$ 27.36	\$ 13.79	\$ 41.15	\$ 452.65
223			1" Dia Isolation Valve	EA	2	0%	2	0.488	\$ 72.00	\$ 35.14	\$ 29.99	\$ 65.13	\$ 130.25
224			1-1/2" Dia Isolation Valve	EA	2	0%	2	0.522	\$ 72.00	\$ 37.58	\$ 29.47	\$ 67.05	\$ 134.11
225			2" Dia Isolation Valve	EA	22	0%	22	0.576	\$ 72.00	\$ 41.47	\$ 89.99	\$ 131.46	\$ 2,892.16
226			2-1/2" Dia Isolation Valve	EA	15	0%	15	0.612	\$ 72.00	\$ 44.06	\$ 95.23	\$ 139.29	\$ 2,089.41
227			3" Dia Isolation Valve	EA	8	0%	8	0.645	\$ 72.00	\$ 46.44	\$ 146.99	\$ 193.43	\$ 1,547.44
228			4" Dia Isolation Valve	EA	3	0%	3	0.699	\$ 72.00	\$ 50.33	\$ 247.00	\$ 297.33	\$ 891.98
229			1/2" Dia Pressure Reducing Valve	EA	1	0%	1	0.450	\$ 72.00	\$ 32.40	\$ 53.27	\$ 85.67	\$ 85.67
230			3/8" Dia Pressure Reducing Valve	EA	2	0%	2	0.525	\$ 72.00	\$ 37.80	\$ 75.08	\$ 112.88	\$ 225.76
231			3" Dia Pressure Reducing Valve	EA	2	0%	2	0.698	\$ 72.00	\$ 50.26	\$ 3,878.61	\$ 3,928.87	\$ 7,857.73

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: MEP



Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
232			1-1/2" Dia Ball Valve	EA	3	0%	3	0.522	\$ 72.00	\$ 37.58	\$ 29.47	\$ 67.05	\$ 201.16
233			3" Check valve	EA	2	0%	2	0.645	\$ 72.00	\$ 46.44	\$ 138.34	\$ 184.78	\$ 369.56
234			3" Pressure Reducing Valve	EA	1	0%	1	0.698	\$ 72.00	\$ 50.26	\$ 3,878.61	\$ 3,928.87	\$ 3,928.87
235			1/2" Dia Ball Valve	EA	2	0%	2	0.380	\$ 72.00	\$ 27.36	\$ 13.79	\$ 41.15	\$ 82.30
236			1/2" Dia Check Valve	EA	1	0%	1	0.425	\$ 72.00	\$ 30.60	\$ 7.52	\$ 38.12	\$ 38.12
237			3" Check valve	EA	2	0%	2	0.645	\$ 72.00	\$ 46.44	\$ 138.34	\$ 184.78	\$ 369.56
238			3" Dia 3-Way Anti-Scald Mixing Valve	EA	1	0%	1	0.699	\$ 72.00	\$ 50.33	\$ 133.76	\$ 184.09	\$ 184.09
			PVC COUPLING:										
239			1-1/2" Dia Pipe	EA	260	0%	260	0.455	\$ 72.00	\$ 32.76	\$ 0.88	\$ 33.64	\$ 8,756.49
240			3" Dia Pipe	EA	153	0%	153	0.622	\$ 72.00	\$ 44.78	\$ 2.04	\$ 46.82	\$ 7,173.44
241			4" Dia Pipe	EA	80	0%	80	0.645	\$ 72.00	\$ 46.44	\$ 6.42	\$ 52.86	\$ 4,228.80
242			6" Dia Pipe	EA	101	0%	101	0.733	\$ 72.00	\$ 52.78	\$ 15.27	\$ 68.05	\$ 6,872.65
243			8" Dia Pipe	EA	6	0%	6	0.812	\$ 72.00	\$ 58.46	\$ 36.36	\$ 94.82	\$ 578.43
244			10" Dia Pipe	EA	1	0%	1	0.932	\$ 72.00	\$ 67.10	\$ 104.03	\$ 171.13	\$ 119.79
			PIPE SUPPORT:										
245			3/8" Dia Adjustable Clevis Hanger	EA	6	0%	6	0.119	\$ 72.00	\$ 8.57	\$ 1.87	\$ 10.44	\$ 62.63
246			1/2" Dia Adjustable Clevis Hanger	EA	981	0%	981	0.120	\$ 72.00	\$ 8.64	\$ 1.94	\$ 10.58	\$ 10,378.98
247			3/4" Dia Adjustable Clevis Hanger	EA	50	0%	50	0.123	\$ 72.00	\$ 8.86	\$ 2.20	\$ 11.06	\$ 552.80
248			1" Dia Adjustable Clevis Hanger	EA	31	0%	31	0.143	\$ 72.00	\$ 10.30	\$ 1.89	\$ 12.19	\$ 377.77
249			1-1/2" Dia Adjustable Clevis Hanger	EA	432	0%	432	0.156	\$ 72.00	\$ 11.23	\$ 2.32	\$ 13.55	\$ 5,854.46
250			2" Dia Adjustable Clevis Hanger	EA	38	0%	38	0.159	\$ 72.00	\$ 11.45	\$ 2.68	\$ 14.13	\$ 536.86
251			2-1/2" Dia Adjustable Clevis Hanger	EA	29	0%	29	0.166	\$ 72.00	\$ 11.95	\$ 3.55	\$ 15.50	\$ 449.56
252			3" Dia Adjustable Clevis Hanger	EA	132	0%	132	0.174	\$ 72.00	\$ 12.53	\$ 7.50	\$ 20.03	\$ 2,643.70
253			4" Dia Adjustable Clevis Hanger	EA	67	0%	67	0.178	\$ 72.00	\$ 12.82	\$ 7.21	\$ 20.03	\$ 1,341.74
254			6" Dia Adjustable Clevis Hanger	EA	95	0%	95	0.185	\$ 72.00	\$ 13.32	\$ 13.27	\$ 26.59	\$ 2,526.05
255			8" Dia Adjustable Clevis Hanger	EA	1	0%	1	0.193	\$ 72.00	\$ 13.90	\$ 24.65	\$ 38.55	\$ 38.55
256			10" Dia Adjustable Clevis Hanger	EA	2	0%	2	0.223	\$ 72.00	\$ 16.06	\$ 28.87	\$ 44.93	\$ 89.85
257			3/8" Dia Threaded Rod (1 Each = 1 Feet)	EA	1500	0%	1500	0.050	\$ 72.00	\$ 3.60	\$ 4.77	\$ 8.37	\$ 12,555.00
258			1/2" Dia Threaded Rod (1 Each = 1 Feet)	EA	266	0%	266	0.050	\$ 72.00	\$ 3.60	\$ 5.63	\$ 9.23	\$ 2,455.18
259			5/8" Dia Threaded Rod (1 Each = 1 Feet)	EA	98	0%	98	0.055	\$ 72.00	\$ 3.96	\$ 6.22	\$ 10.18	\$ 997.64
			TRENCHING & BACKFILLING:										
260			Excavation & Backfilling (3' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	2292	0%	2292	0.625	\$ 72.00	\$ 45.00	\$ -	\$ 45.00	\$ 103,140.00
												SUBTOTAL	\$ 675,945
HVAC													
			FLEXIBLE DUCT										
261			6" Dia Flexible Duct	LF	4	10%	4	0.057	\$ 75.00	\$ 4.28	\$ 3.71	\$ 7.99	\$ 34.78
262			8" Dia Flexible Duct	LF	8	10%	9	0.080	\$ 75.00	\$ 6.00	\$ 4.87	\$ 10.87	\$ 93.62
263			10" Dia Flexible Duct	LF	31	10%	34	0.100	\$ 75.00	\$ 7.50	\$ 5.24	\$ 12.74	\$ 439.34
			GAS LINE										
			Schedule 40 Electric-Resistance Weld (ERW)										
264			1-1/2" Gas Line @ 2 PSI	LF	312	10%	344	0.080	\$ 75.00	\$ 6.00	\$ 11.20	\$ 17.20	\$ 5,910.80
265			2-1/2" Gas Line @ 2 PSI	LF	31	10%	34	0.102	\$ 75.00	\$ 7.65	\$ 29.50	\$ 37.15	\$ 1,257.82
			GAS LINE FITTINGS:										
			ELBOW:										
266			1-1/2" Gas Line @ 2 PSI 90 Deg Elbow	EA	20	0%	20	0.200	\$ 75.00	\$ 15.00	\$ 7.85	\$ 22.85	\$ 457.00

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
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Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
267			2-1/2" Gas Line @ 2 PSI 90 Deg Elbow	EA	4	0%	4	0.240	\$ 75.00	\$ 18.00	\$ 26.54	\$ 44.54	\$ 178.16
			TEE:										
268			1-1/2" Gas Line @ 2 PSI Tee	EA	3	0%	3	0.220	\$ 75.00	\$ 16.50	\$ 9.85	\$ 26.35	\$ 79.05
269			2-1/2" Gas Line @ 2 PSI Tee	EA	2	0%	2	0.260	\$ 75.00	\$ 19.50	\$ 28.47	\$ 47.97	\$ 95.94
			REDUCER:										
270			2-1/2" / 1-1/2" Gas Line Reducer	EA	1	0%	1	0.250	\$ 75.00	\$ 18.75	\$ 25.62	\$ 44.37	\$ 44.37
			REFRIGERANT PIPE										
			Type "ACR" Copper Pipe										
271		Assumed	3/8" Dia Refrigerant Liquid Pipe	LF	1339	10%	1473	0.032	\$ 75.00	\$ 2.40	\$ 2.64	\$ 5.04	\$ 7,422.58
272			5/8" Dia Refrigerant Suction Pipe	LF	1339	10%	1473	0.038	\$ 75.00	\$ 2.85	\$ 5.02	\$ 7.87	\$ 11,590.42
			1/2" Thick Fiberglass Insulation										
273		Assumed	3/8" Dia Refrigerant Liquid Pipe	LF	1339	10%	1473	0.012	\$ 75.00	\$ 0.90	\$ 2.68	\$ 3.58	\$ 5,272.39
274			5/8" Dia Refrigerant Suction Pipe	LF	1339	10%	1473	0.017	\$ 75.00	\$ 1.28	\$ 3.45	\$ 4.73	\$ 6,958.67
			REFRIGERANT PIPE FITTINGS:										
			ELBOW:										
275			3/8" Dia Refrigerant Liquid Pipe 90 Deg Elbow	EA	31	0%	31	0.160	\$ 75.00	\$ 12.00	\$ 3.03	\$ 15.03	\$ 465.93
276			5/8" Dia Refrigerant Suction Pipe 90 Deg Elbow	EA	31	0%	31	0.180	\$ 75.00	\$ 13.50	\$ 4.85	\$ 18.35	\$ 568.85
			CONDENSATE DRAIN PIPE										
			Type "M" Copper										
277		Assumed	3/4" Dia Condensate Drain Pipe	LF	348	10%	383	0.063	\$ 75.00	\$ 4.73	\$ 3.65	\$ 8.38	\$ 3,205.95
			1/2" Thick Fiberglass Insulation										
278			3/4" Dia Condensate Drain Pipe	LF	348	10%	383	0.024	\$ 75.00	\$ 1.80	\$ 3.40	\$ 5.20	\$ 1,990.56
			CONDENSATE DRAIN FITTINGS:										
			ELBOW:										
279			3/4" Dia Condensate Drain Pipe 90 Deg Elbow	EA	30	0%	30	0.320	\$ 75.00	\$ 24.00	\$ 6.48	\$ 30.48	\$ 914.40
			AIR DEVICES										
280			Supply Air Ceiling Diffuser, Face Size: 8"x8"	EA	1	0%	1	0.280	\$ 75.00	\$ 21.00	\$ 35.60	\$ 56.60	\$ 56.60
281		Size Assumed	Supply Air Ceiling Diffuser, Face Size: 12"x6", Neck Size:	EA	1	0%	1	0.320	\$ 75.00	\$ 24.00	\$ 38.72	\$ 62.72	\$ 62.72
282			Supply Air Ceiling Diffuser, Face Size: 12"x6", Neck Size:	EA	1	0%	1	0.320	\$ 75.00	\$ 24.00	\$ 38.72	\$ 62.72	\$ 62.72
283			Supply Air Ceiling Diffuser, Face Size: 24"x8", Neck Size:	EA	5	0%	5	0.400	\$ 75.00	\$ 30.00	\$ 85.25	\$ 115.25	\$ 576.25
284			Supply Air Ceiling Diffuser, Face Size: 24"x24", Neck Size:	EA	1	0%	1	0.533	\$ 75.00	\$ 39.98	\$ 132.45	\$ 172.43	\$ 172.43
285		Size Assumed	Supply Air Ceiling Diffuser, Face Size: 24"x24", Neck Size:	EA	3	0%	3	0.533	\$ 75.00	\$ 39.98	\$ 132.45	\$ 172.43	\$ 517.28
286			Supply Air Ceiling Diffuser, Face Size: 24"x24", Neck Size:	EA	11	0%	11	0.533	\$ 75.00	\$ 39.98	\$ 132.45	\$ 172.43	\$ 1,896.68
287			Supply Air Ceiling Diffuser, Face Size: 26"x18", Neck Size:	EA	4	0%	4	0.533	\$ 75.00	\$ 39.98	\$ 109.67	\$ 149.65	\$ 598.58
288			Return Air Grille, Face Size: 14"x6", Neck Size: 14"x6"	EA	1	0%	1	0.360	\$ 75.00	\$ 27.00	\$ 35.69	\$ 62.69	\$ 62.69
289		Size Assumed	Return Air Grille, Face Size: 22"x6" (Size Assumed), Neck	EA	1	0%	1	0.385	\$ 75.00	\$ 28.88	\$ 30.71	\$ 59.59	\$ 59.59
290			Return Air Grille, Face Size: 24"x10" (Size Assumed), Nec	EA	2	0%	2	0.440	\$ 75.00	\$ 33.00	\$ 58.64	\$ 91.64	\$ 183.28
291			ER-1: Exhaust Air Grille, Face Size: 6"x4", Neck Size: 6"x	EA	60	0%	60	0.250	\$ 75.00	\$ 18.75	\$ 17.64	\$ 36.39	\$ 2,183.40
292			ER-1: Exhaust Air Grille, Face Size: 10"x4", Neck Size: 4"	EA	2	0%	2	0.320	\$ 75.00	\$ 24.00	\$ 40.50	\$ 64.50	\$ 129.00
293		Size Assumed	ER-2: Exhaust Air Grille, Face Size: 6"x4", Neck Size: 6"x	EA	12	0%	12	0.250	\$ 75.00	\$ 18.75	\$ 17.64	\$ 36.39	\$ 436.68
294			ER-2: Exhaust Air Grille, Face Size: 10"x4", Neck Size: 4"	EA	3	0%	3	0.320	\$ 75.00	\$ 24.00	\$ 40.50	\$ 64.50	\$ 193.50
295			Exhaust Air Grille, Face Size: 6"x6", Neck Size: 6" Dia	EA	4	0%	4	0.285	\$ 75.00	\$ 21.38	\$ 33.50	\$ 54.88	\$ 219.50
296			Exhaust Air Grille, Face Size: 6"x6", Neck Size: 4"x4"	EA	17	0%	17	0.285	\$ 75.00	\$ 21.38	\$ 33.50	\$ 54.88	\$ 932.88
297		Size Assumed	Exhaust Air Grille, Face Size: 20"x10", Neck Size: 10" Dia	EA	1	0%	1	0.500	\$ 75.00	\$ 37.50	\$ 65.98	\$ 103.48	\$ 103.48
			INDIRECT GAS FIRED MAKE-UP AIR UNIT										
298			MUA-1: Make Up Air Unit, ENGINEERED AIR FWE354	EA	1	0%	1	10.880	\$ 75.00	\$ 816.00	\$ 11,850.00	\$ 12,666.00	\$ 12,666.00
			AIR CONDITIONER										
299			PTAC-1: Packaged Terminal Air Conditioner, GE AZ65H0	EA	80	0%	80	3.560	\$ 75.00	\$ 267.00	\$ 1,685.00	\$ 1,952.00	\$ 156,160.00
			AIR CONDITIONING SPLIT SYSTEM										
300			AC-1: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	5.200	\$ 75.00	\$ 390.00	\$ 5,850.00	\$ 6,240.00	\$ 6,240.00

DETAILED BREAKDOWN OF ITEMS

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Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
301	M301, M302, M400, M401, M402 & M500		AC-2: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 2,540.00	\$ 2,903.75	\$ 2,903.75
302			AC-3: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 1,685.00	\$ 2,048.75	\$ 2,048.75
303			AC-4: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 4,299.00	\$ 4,662.75	\$ 4,662.75
304			AC-5: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 2,540.00	\$ 2,903.75	\$ 2,903.75
305			AC-6: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 1,850.00	\$ 2,213.75	\$ 2,213.75
306			AC-7: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 4,750.00	\$ 5,113.75	\$ 5,113.75
307			AC-8: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 3,850.00	\$ 4,213.75	\$ 4,213.75
308			AC-9: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	5.200	\$ 75.00	\$ 390.00	\$ 5,200.00	\$ 5,590.00	\$ 5,590.00
309			AC-10: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 2,540.00	\$ 2,903.75	\$ 2,903.75
310			AC-11: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 4,750.00	\$ 5,113.75	\$ 5,113.75
311			AC-12: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	5.200	\$ 75.00	\$ 390.00	\$ 2,540.00	\$ 2,930.00	\$ 2,930.00
312			AC-13: Air Conditioning Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.850	\$ 75.00	\$ 363.75	\$ 1,685.00	\$ 2,048.75	\$ 2,048.75
			CONDENSING UNIT										
313			CU-1: Condensing Unit, MITSUBISHI ELECTRIC P	EA	1	0%	1	4.650	\$ 75.00	\$ 348.75	\$ 2,991.75	\$ 3,340.50	\$ 3,340.50
			POOL AIR HANDLING UNIT										
314			AHU-1: Air Handling Unit, DESERT AIRE LC06, Air Flow (CFM): 2000, External static Pressure: 1, Moisture	EA	1	0%	1	8.450	\$ 75.00	\$ 633.75	\$ 5,887.00	\$ 6,520.75	\$ 6,520.75
			POOL CONDENSING UNIT										
315			CU-2: Condensing Unit, DESERT AIRE RC5S032C3H212	EA	1	0%	1	6.220	\$ 75.00	\$ 466.50	\$ 4,855.00	\$ 5,321.50	\$ 5,321.50
			GAS WATER HEATER										
316			DWH-1: Gas Water Heater, AO SMITH BTH-400, Capacity	EA	1	0%	1	4.250	\$ 75.00	\$ 318.75	\$ 17,500.00	\$ 17,818.75	\$ 17,818.75
317			DWH-2: Gas Water Heater, AO SMITH BTH-400, Capacity	EA	1	0%	1	4.250	\$ 75.00	\$ 318.75	\$ 17,500.00	\$ 17,818.75	\$ 17,818.75
318			DWH-3: Gas Water Heater, AO SMITH BTH-400, Capacity	EA	1	0%	1	4.250	\$ 75.00	\$ 318.75	\$ 17,500.00	\$ 17,818.75	\$ 17,818.75
			ELECTRIC HEAT COIL										
319			EHC-1: Electric Heat Coil, THERMOLEC, Location: Pool	EA	1	0%	1	3.500	\$ 75.00	\$ 262.50	\$ 1,850.00	\$ 2,112.50	\$ 2,112.50
			EXHAUST FAN										
320			EF-1: Exhaust Fan, BROAN L150, Description: Cabinet Fa	EA	1	0%	1	1.850	\$ 75.00	\$ 138.75	\$ 233.50	\$ 372.25	\$ 372.25
321			EF-2: Exhaust Fan, BROAN L200, Description: Cabinet Fa	EA	1	0%	1	1.850	\$ 75.00	\$ 138.75	\$ 285.67	\$ 424.42	\$ 424.42
322			EF-3: Exhaust Fan, BROAN L200L, Description: Inline Fa	EA	1	0%	1	1.850	\$ 75.00	\$ 138.75	\$ 267.00	\$ 405.75	\$ 405.75
323			EF-4: Exhaust Fan, BROAN L300L, Description: Inline Fa	EA	1	0%	1	1.850	\$ 75.00	\$ 138.75	\$ 296.87	\$ 435.62	\$ 435.62
324			EF-5: Exhaust Fan, BROAN L300L, Description: Inline Fa	EA	1	0%	1	1.850	\$ 75.00	\$ 138.75	\$ 315.14	\$ 453.89	\$ 453.89
325			EF-6: Exhaust Fan, BROAN L150L, Description: Inline Fa	EA	1	0%	1	1.850	\$ 75.00	\$ 138.75	\$ 220.90	\$ 359.65	\$ 359.65
326			EF-7: Exhaust Fan, GREENHECK CUE-090-D, Descriptio	EA	1	0%	1	1.850	\$ 75.00	\$ 138.75	\$ 755.70	\$ 894.45	\$ 894.45
327			EF-8: Exhaust Fan, GREENHECK CUE-120-A, Descriptio	EA	1	0%	1	1.850	\$ 75.00	\$ 138.75	\$ 1,850.94	\$ 1,989.69	\$ 1,989.69
328			EF-9: Exhaust Fan, GREENHECK CUE-099-A, Descriptio	EA	1	0%	1	1.850	\$ 75.00	\$ 138.75	\$ 1,565.29	\$ 1,704.04	\$ 1,704.04
329			EF-10: Exhaust Fan, GREENHECK CUE-099-A, Descriptio	EA	1	0%	1	1.850	\$ 75.00	\$ 138.75	\$ 1,428.99	\$ 1,567.74	\$ 1,567.74
330			EF-11: Exhaust Fan, GREENHECK CUE-090-D, Descriptio	EA	4	0%	4	1.850	\$ 75.00	\$ 138.75	\$ 755.70	\$ 894.45	\$ 3,577.80
331			EF-12: Exhaust Fan, GREENHECK CUE-099-A, Descriptio	EA	1	0%	1	1.850	\$ 75.00	\$ 138.75	\$ 1,250.54	\$ 1,389.29	\$ 1,389.29
332			EF-13: Exhaust Fan, GREENHECK CUE-099-A, Descriptio	EA	1	0%	1	1.850	\$ 75.00	\$ 138.75	\$ 1,850.94	\$ 1,989.69	\$ 1,989.69
333			EF-14: Exhaust Fan, GREENHECK CUE-090-D, Descriptio	EA	1	0%	1	1.850	\$ 75.00	\$ 138.75	\$ 755.70	\$ 894.45	\$ 894.45
			ELECTRICAL HEAT TERMINAL										
334			EFF-1: Electrical Heat Terminal, OUELLET OLA200, Loc	EA	1	0%	1	1.880	\$ 75.00	\$ 141.00	\$ 649.00	\$ 790.00	\$ 790.00
335			EFF-2: Electrical Heat Terminal, OUELLET OAC02008-T	EA	4	0%	4	1.880	\$ 75.00	\$ 141.00	\$ 649.00	\$ 790.00	\$ 3,160.00
336			EFF-3: Electrical Heat Terminal, OUELLET OAC04000-T	EA	1	0%	1	1.880	\$ 75.00	\$ 141.00	\$ 649.00	\$ 790.00	\$ 790.00
337			EFF-4: Electrical Heat Terminal, OUELLET OAC04000-T	EA	1	0%	1	1.880	\$ 75.00	\$ 141.00	\$ 649.00	\$ 790.00	\$ 790.00
338			EFF-5: Electrical Heat Terminal, OUELLET OAC01502-T	EA	4	0%	4	1.880	\$ 75.00	\$ 141.00	\$ 649.00	\$ 790.00	\$ 3,160.00
339			EFF-6: Electrical Heat Terminal, OUELLET OACP4000, I	EA	1	0%	1	1.880	\$ 75.00	\$ 141.00	\$ 649.00	\$ 790.00	\$ 790.00

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
340			EFF-7: Electrical Heat Terminal, OUELLET OACP4000, L	EA	1	0%	1	1.880	\$ 75.00	\$ 141.00	\$ 649.00	\$ 790.00	\$ 790.00
341			EFF-8: Electrical Heat Terminal, OUELLET OACP8008, L	EA	1	0%	1	1.880	\$ 75.00	\$ 141.00	\$ 649.00	\$ 790.00	\$ 790.00
342			EFF-9: Electrical Heat Terminal, OUELLET OAC04000-T	EA	3	0%	3	1.880	\$ 75.00	\$ 141.00	\$ 649.00	\$ 790.00	\$ 2,370.00
343			EFF-10: Electrical Heat Terminal, OUELLET OAC04000-T	EA	3	0%	3	1.880	\$ 75.00	\$ 141.00	\$ 649.00	\$ 790.00	\$ 2,370.00
344			EFF-11: Electrical Heat Terminal, OUELLET OAC01502-T	EA	6	0%	6	1.880	\$ 75.00	\$ 141.00	\$ 622.00	\$ 763.00	\$ 4,578.00
345			EFF-12: Electrical Heat Terminal, OUELLET OAC01502-T	EA	3	0%	3	1.880	\$ 75.00	\$ 141.00	\$ 622.00	\$ 763.00	\$ 2,289.00
346			EBB-3: Electrical Heat Terminal, OUELLET OFM1258, L	EA	2	0%	2	1.880	\$ 75.00	\$ 141.00	\$ 649.00	\$ 790.00	\$ 1,580.00
			LOUVER										
347			Louver, Face Size: 8"x4", Neck Size: 8"x4"	EA	1	0%	1	0.300	\$ 75.00	\$ 22.50	\$ 168.20	\$ 190.70	\$ 190.70
348		Size Assumed	Louver, Face Size: 8"x8", Neck Size: 8"x8"	EA	1	0%	1	0.325	\$ 75.00	\$ 24.38	\$ 144.21	\$ 168.59	\$ 168.59
349			Louver, Face Size: 10"x8", Neck Size: 10"x8"	EA	1	0%	1	0.385	\$ 75.00	\$ 28.88	\$ 210.40	\$ 239.28	\$ 239.28
			DAMPERS										
350			4"x4" Fire Damper	EA	9	0%	9	0.292	\$ 75.00	\$ 21.90	\$ 33.40	\$ 55.30	\$ 497.70
351		Size Assumed	6"x4" Fire Damper	EA	72	0%	72	0.330	\$ 75.00	\$ 24.75	\$ 38.50	\$ 63.25	\$ 4,554.00
352			8"x4" Fire Damper	EA	1	0%	1	0.345	\$ 75.00	\$ 25.88	\$ 48.12	\$ 74.00	\$ 74.00
353			10"x4" Fire Damper	EA	20	0%	20	0.376	\$ 75.00	\$ 28.20	\$ 55.64	\$ 83.84	\$ 1,676.80
354			10"x6" Fire Damper	EA	90	0%	90	0.385	\$ 75.00	\$ 28.88	\$ 58.50	\$ 87.38	\$ 7,863.75
355			10"x8" Fire Damper	EA	24	0%	24	0.400	\$ 75.00	\$ 30.00	\$ 64.10	\$ 94.10	\$ 2,258.40
356			12"x8" Fire Damper	EA	3	0%	3	0.420	\$ 75.00	\$ 31.50	\$ 70.24	\$ 101.74	\$ 305.22
357			20"x10" Fire Damper	EA	3	0%	3	0.500	\$ 75.00	\$ 37.50	\$ 88.31	\$ 125.81	\$ 377.43
358			26"x18" Fire Damper	EA	3	0%	3	0.600	\$ 75.00	\$ 45.00	\$ 110.09	\$ 155.09	\$ 465.27
359			8"x4" Fire/Smoke Damper	EA	1	0%	1	0.345	\$ 75.00	\$ 25.88	\$ 567.68	\$ 593.56	\$ 593.56
360			8"x8" Fire/Smoke Damper	EA	1	0%	1	0.365	\$ 75.00	\$ 27.38	\$ 683.17	\$ 710.55	\$ 710.55
361			10"x8" Fire/Smoke Damper	EA	1	0%	1	0.425	\$ 75.00	\$ 31.88	\$ 720.14	\$ 752.02	\$ 752.02
362			6" Dia Motorized Damper	EA	3	0%	3	0.330	\$ 75.00	\$ 24.75	\$ 189.55	\$ 214.30	\$ 642.90
363			8" Dia Motorized Damper	EA	1	0%	1	0.380	\$ 75.00	\$ 28.50	\$ 210.54	\$ 239.04	\$ 239.04
364			8"x8" Motorized Damper	EA	1	0%	1	0.400	\$ 75.00	\$ 30.00	\$ 210.00	\$ 240.00	\$ 240.00
365			10" Dia Motorized Damper	EA	2	0%	2	0.500	\$ 75.00	\$ 37.50	\$ 342.54	\$ 380.04	\$ 760.08
366			24"x12" Motorized Damper	EA	2	0%	2	0.545	\$ 75.00	\$ 40.88	\$ 391.46	\$ 432.34	\$ 864.67
367			26"x12" Motorized Damper	EA	1	0%	1	0.580	\$ 75.00	\$ 43.50	\$ 420.00	\$ 463.50	\$ 463.50
368			6" Dia Balancing Damper	EA	2	0%	2	0.330	\$ 75.00	\$ 24.75	\$ 54.98	\$ 79.73	\$ 159.46
369			8" Dia Balancing Damper	EA	4	0%	4	0.385	\$ 75.00	\$ 28.88	\$ 89.38	\$ 118.26	\$ 473.02
370			10" Dia Balancing Damper	EA	16	0%	16	0.500	\$ 75.00	\$ 37.50	\$ 105.27	\$ 142.77	\$ 2,284.32
			DUCT WEIGHT										
371			Galvanized Sheet Metal Duct	LBS	9153	10%	10068	0.092	\$ 75.00	\$ 6.90	\$ 0.78	\$ 7.68	\$ 77,324.54
			DUCT INSULATION										
372			1" Thick Thermal Insulation	SF	2362	10%	2598	0.025	\$ 75.00	\$ 1.88	\$ 7.85	\$ 9.73	\$ 25,267.50
372			2" Thick Thermal Insulation	SF	6762	10%	7438	0.030	\$ 75.00	\$ 2.25	\$ 12.68	\$ 14.93	\$ 111,052.33
			MISCELLANEOUS										
373			GM-1 Commercial Gas Meter	EA	1	0%	1	2.000	\$ 75.00	\$ 150.00	\$ 734.95	\$ 884.95	\$ 884.95
374			EBB-1 (No Detail)	EA	1	0%	1	0.850	\$ 75.00	\$ 63.75	\$ 133.00	\$ 196.75	\$ 196.75
375			Thermostat	EA	19	0%	19	0.650	\$ 75.00	\$ 48.75	\$ 87.97	\$ 136.72	\$ 2,597.68
376			Duct Smoke Detector	EA	1	0%	1	0.500	\$ 75.00	\$ 37.50	\$ 96.95	\$ 134.45	\$ 134.45
377			Smoke Detector	EA	3	0%	3	0.500	\$ 75.00	\$ 37.50	\$ 50.45	\$ 87.95	\$ 263.85
378			6" Dia Flexible Connections	EA	4	0%	4	0.385	\$ 75.00	\$ 28.88	\$ 17.83	\$ 46.71	\$ 186.82
379			10" Dia Flexible connections	EA	4	0%	4	0.400	\$ 75.00	\$ 30.00	\$ 31.00	\$ 61.00	\$ 244.00

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: MEP



Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
380			6" Dia Wall Hood	EA	3	0%	3	0.480	\$ 75.00	\$ 36.00	\$ 42.12	\$ 78.12	\$ 234.36
381			8" Dia Wall Hood	EA	1	0%	1	0.480	\$ 75.00	\$ 36.00	\$ 62.07	\$ 98.07	\$ 98.07
382			10" Dia Wall Hood	EA	2	0%	2	0.280	\$ 75.00	\$ 21.00	\$ 133.37	\$ 154.37	\$ 308.74
383			6" Dia Lint Screen	EA	1	0%	1	0.300	\$ 75.00	\$ 22.50	\$ 65.79	\$ 88.29	\$ 88.29
384			10" Dia Bird Screen	EA	2	0%	2	0.345	\$ 75.00	\$ 25.88	\$ 38.59	\$ 64.47	\$ 128.93
385			8"x8" Bird Screen	EA	1	0%	1	0.320	\$ 75.00	\$ 24.00	\$ 50.51	\$ 74.51	\$ 74.51
386			10"x6" Wire Mesh	EA	1	0%	1	0.200	\$ 75.00	\$ 15.00	\$ 10.00	\$ 25.00	\$ 25.00
387			8"x8" Gooseneck	EA	1	0%	1	0.350	\$ 75.00	\$ 26.25	\$ 135.00	\$ 161.25	\$ 161.25
388			24"x12" Wall Louver	EA	2	0%	2	0.520	\$ 75.00	\$ 39.00	\$ 116.51	\$ 155.51	\$ 311.02
			VALVES:										
389			1-1/2" Ball Valve Gas Line	EA	5	0%	5	0.325	\$ 75.00	\$ 24.38	\$ 104.37	\$ 128.75	\$ 643.73
390			1-1/2" Isolation Valve Gas Line	EA	2	0%	2	0.325	\$ 75.00	\$ 24.38	\$ 59.99	\$ 84.37	\$ 168.73
391			1-1/2" Pressure Reducing Valve Gas Line	EA	1	0%	1	0.500	\$ 75.00	\$ 37.50	\$ 220.38	\$ 257.88	\$ 257.88
			DUCT SUPPORTS:										
392			3/8" Threaded Rod	EA	594	0%	594	0.050	\$ 75.00	\$ 3.75	\$ 4.77	\$ 8.52	\$ 5,060.88
393			1" x 22 Ga. Strap	EA	297	0%	297	0.160	\$ 75.00	\$ 12.00	\$ 2.64	\$ 14.64	\$ 4,348.08
												SUBTOTAL	\$ 641,514

ELECTRICAL

DISTRIBUTION													
			CONDUIT:										
394			1-1/4" EMT Conduit	LF	173	10%	190	0.080	\$ 75.00	\$ 6.00	\$ 4.22	\$ 10.22	\$ 1,944.42
395			2" EMT Conduit	LF	251	10%	276	0.100	\$ 75.00	\$ 7.50	\$ 6.44	\$ 13.94	\$ 3,843.01
396			2-1/2" EMT Conduit	LF	1522	10%	1674	0.133	\$ 75.00	\$ 9.98	\$ 8.51	\$ 18.49	\$ 30,946.16
397			4" EMT Conduit	LF	104	10%	115	0.200	\$ 75.00	\$ 15.00	\$ 14.53	\$ 29.53	\$ 3,393.82
			CONDUCTOR:										
398			#2 AL RW90 NUAL (AA-8030)	LF	692	10%	761	0.018	\$ 75.00	\$ 1.33	\$ 1.28	\$ 2.61	\$ 1,988.94
399			#2/0 AL RW90 NUAL (AA-8030)	LF	752	10%	827	0.028	\$ 75.00	\$ 2.07	\$ 1.95	\$ 4.02	\$ 3,324.10
400			#4/0 AL RW90 NUAL (AA-8030)	LF	6088	10%	6696	0.036	\$ 75.00	\$ 2.73	\$ 2.25	\$ 4.98	\$ 33,327.95
401			#500MCM AL RW90 NUAL (AA-8030)	LF	418	10%	460	0.050	\$ 75.00	\$ 3.75	\$ 3.12	\$ 6.87	\$ 3,158.22
			LUGS:										
402			Compression Lug AL With 1-Hole , #2 AL Wire	EA	8	0%	8	0.220	\$ 75.00	\$ 16.50	\$ 4.45	\$ 20.95	\$ 167.60
			Heat Shrink Tubing for #2 AL Wire	EA	8	0%	8	0.120	\$ 75.00	\$ 9.00	\$ 1.70	\$ 10.70	\$ 85.56
403			Compression Lug AL With 1-Hole , #2/0 AL Wire	EA	24	0%	24	0.280	\$ 75.00	\$ 21.00	\$ 7.25	\$ 28.25	\$ 678.00
			Heat Shrink Tubing for #2/0 AL Wire	EA	24	0%	24	0.120	\$ 75.00	\$ 9.00	\$ 2.01	\$ 11.01	\$ 264.24
404			Compression Lug AL With 1-Hole , #4/0 AL Wire	EA	96	0%	96	0.300	\$ 75.00	\$ 22.50	\$ 12.40	\$ 34.90	\$ 3,350.40
			Heat Shrink Tubing for #4/0 AL Wire	EA	96	0%	96	0.120	\$ 75.00	\$ 9.00	\$ 2.37	\$ 11.37	\$ 1,091.52
405			Compression Lug AL With 1-Hole , #500 MCM AL Wire	EA	8	0%	8	0.500	\$ 75.00	\$ 37.50	\$ 54.70	\$ 92.20	\$ 737.60
			Heat Shrink Tubing for #500 MCM AL Wire	EA	8	0%	8	0.120	\$ 75.00	\$ 9.00	\$ 2.91	\$ 11.91	\$ 95.28
			CIRCUIT BREAKER:										
406			1P/15A Breaker	EA	300	0%	300	1.200	\$ 75.00	\$ 90.00	\$ 465.00	\$ 555.00	\$ 166,500.00
407			1P/20A Breaker	EA	15	0%	15	1.200	\$ 75.00	\$ 90.00	\$ 465.00	\$ 555.00	\$ 8,325.00
408			2P/15A Breaker	EA	37	0%	37	1.429	\$ 75.00	\$ 107.18	\$ 593.56	\$ 700.74	\$ 25,927.20
409			2P/20A Breaker	EA	13	0%	13	1.429	\$ 75.00	\$ 107.18	\$ 593.56	\$ 700.74	\$ 9,109.56
410			2P/30A Breaker	EA	4	0%	4	1.429	\$ 75.00	\$ 107.18	\$ 593.56	\$ 700.74	\$ 2,802.94
411			2P/40A Breaker	EA	3	0%	3	1.429	\$ 75.00	\$ 107.18	\$ 593.56	\$ 700.74	\$ 2,102.21
412			2P/50A Breaker	EA	1	0%	1	1.429	\$ 75.00	\$ 107.18	\$ 593.56	\$ 700.74	\$ 700.74

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: MEP



Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
413	E2.0, E3.0, E6.0 & E7.0		3P/15A Breaker	EA	1	0%	1	1.509	\$ 75.00	\$ 113.18	\$ 609.18	\$ 722.36	\$ 722.36
414			3P/20A Breaker	EA	2	0%	2	1.509	\$ 75.00	\$ 113.18	\$ 609.18	\$ 722.36	\$ 1,444.71
415			3P/50A Breaker	EA	1	0%	1	1.509	\$ 75.00	\$ 113.18	\$ 609.18	\$ 722.36	\$ 722.36
416			3P/60A Breaker	EA	1	0%	1	1.509	\$ 75.00	\$ 113.18	\$ 609.18	\$ 722.36	\$ 722.36
417			3P/100A Breaker	EA	1	0%	1	2.000	\$ 75.00	\$ 150.00	\$ 554.51	\$ 704.51	\$ 704.51
418			3P/150A Breaker	EA	2	0%	2	2.500	\$ 75.00	\$ 187.50	\$ 3,729.28	\$ 3,916.78	\$ 7,833.56
419			3P/200A Breaker	EA	12	0%	12	2.500	\$ 75.00	\$ 187.50	\$ 3,729.28	\$ 3,916.78	\$ 47,001.36
420			1750A GFI Main Breaker	EA	1	0%	1	7.500	\$ 75.00	\$ 562.50	\$ 7,655.00	\$ 8,217.50	\$ 8,217.50
			PANEL:										
421			Panel 1A: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,860.00	\$ 3,058.75	\$ 3,058.75
422			Panel 1B: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,860.00	\$ 3,058.75	\$ 3,058.75
423			Panel 1C: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,698.00	\$ 2,896.75	\$ 2,896.75
424			Panel 1D: 100A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	1.950	\$ 75.00	\$ 146.25	\$ 1,250.00	\$ 1,396.25	\$ 1,396.25
425			Panel 2A: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
426			Panel 2B: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
427			Panel 2C: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
428			Panel 3A: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
429			Panel 3B: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
430			Panel 3C: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
431			Panel 4A: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
432			Panel 4B: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
433			Panel 4C: 200A, 208Y/120V, 3P, 4W, Main MLO, 22 KA	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,900.00	\$ 3,098.75	\$ 3,098.75
434			Main Distribution MDP, 2000A, 120/208V, 3P, 4W (4- Sec	EA	1	0%	1	7.890	\$ 75.00	\$ 591.75	\$ 35,000.00	\$ 35,591.75	\$ 35,591.75
			DEVICES:										
435			Utility Meter	EA	1	0%	1	1.200	\$ 75.00	\$ 90.00	\$ 125.15	\$ 215.15	\$ 215.15
			DISCONNECT SWITCH:										
436			15A Disconnect Switch	EA	1	0%	1	0.650	\$ 75.00	\$ 48.75	\$ 205.56	\$ 254.31	\$ 254.31
437			1P/15A Disconnect Switch, WP	EA	8	0%	8	0.890	\$ 75.00	\$ 66.75	\$ 318.00	\$ 384.75	\$ 3,078.00
438			3P/20A Disconnect Switch	EA	1	0%	1	0.950	\$ 75.00	\$ 71.25	\$ 222.27	\$ 293.52	\$ 293.52
439			3P/60A Disconnect Switch WP	EA	1	0%	1	1.150	\$ 75.00	\$ 86.25	\$ 425.69	\$ 511.94	\$ 511.94
			GROUNDING:										
440			#6 CU Grounding Conductor	LF	16	10%	17	0.012	\$ 75.00	\$ 0.92	\$ 0.77	\$ 1.69	\$ 29.24
			POWER										
			CONDUIT:										
441			3/4" EMT Conduit	LF	31960	10%	35156	0.062	\$ 75.00	\$ 4.65	\$ 1.52	\$ 6.17	\$ 216,909.74
442			1" EMT Conduit	LF	4850	10%	5335	0.070	\$ 75.00	\$ 5.25	\$ 2.56	\$ 7.81	\$ 41,666.35
443			1" RGS Conduit	LF	1167	10%	1284	0.123	\$ 75.00	\$ 9.23	\$ 5.74	\$ 14.97	\$ 19,210.57
			CONDUCTOR:										
444			#12 CU RW90 X-LINK	LF	173246	10%	190571	0.007	\$ 75.00	\$ 0.53	\$ 1.20	\$ 1.73	\$ 328,735.04
445			#10 CU RW90 X-LINK	LF	12195	10%	13415	0.008	\$ 75.00	\$ 0.60	\$ 1.45	\$ 2.05	\$ 27,499.73
446			#8 CU RW90 X-LINK	LF	18589	10%	20448	0.010	\$ 75.00	\$ 0.75	\$ 1.65	\$ 2.40	\$ 49,075.01
			DEVICE:										
447			Duplex Receptacle	EA	835	0%	835	0.300	\$ 75.00	\$ 22.50	\$ 32.56	\$ 55.06	\$ 45,975.10
448			Duplex Receptacle GFI	EA	4	0%	4	0.320	\$ 75.00	\$ 24.00	\$ 35.89	\$ 59.89	\$ 239.56
449			Duplex Receptacle GFI, WP	EA	10	0%	10	0.320	\$ 75.00	\$ 24.00	\$ 35.89	\$ 59.89	\$ 598.90
450			Duplex Receptacle Over Counter, GFI	EA	6	0%	6	0.300	\$ 75.00	\$ 22.50	\$ 35.89	\$ 58.39	\$ 350.34
451			Equipment Connection	EA	62	0%	62	0.350	\$ 75.00	\$ 26.25	\$ -	\$ 26.25	\$ 1,627.50
452			Four-Plex Receptacle	EA	80	0%	80	0.400	\$ 75.00	\$ 30.00	\$ 47.71	\$ 77.71	\$ 6,216.80
453			Four-Plex Receptacle, GFI	EA	45	0%	45	0.415	\$ 75.00	\$ 31.13	\$ 52.89	\$ 84.02	\$ 3,780.68

DETAILED BREAKDOWN OF ITEMS

Prepared for:
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Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
454			Over Counter Duplex Receptacle, GFI	EA	35	0%	35	0.300	\$ 75.00	\$ 22.50	\$ 35.89	\$ 58.39	\$ 2,043.65
455			Motor Connection	EA	87	0%	87	0.350	\$ 75.00	\$ 26.25	\$ -	\$ 26.25	\$ 2,283.75
456			20A Special Receptacle	EA	11	0%	11	0.350	\$ 75.00	\$ 26.25	\$ 47.71	\$ 73.96	\$ 813.56
457			Split-Feed Receptacle	EA	80	0%	80	0.320	\$ 75.00	\$ 24.00	\$ 32.56	\$ 56.56	\$ 4,524.80
			LIGHTING										
			CONDUIT:										
458			3/4" EMT Conduit	LF	17077	10%	18784	0.062	\$ 75.00	\$ 4.65	\$ 1.52	\$ 6.17	\$ 115,898.88
			CONDUCTOR:										
459			#12 CU RW90 X-LINK	LF	7932	10%	8725	0.007	\$ 75.00	\$ 0.53	\$ 1.20	\$ 1.73	\$ 15,050.97
460			#10 CU RW90 X-LINK	LF	20619	10%	22681	0.008	\$ 75.00	\$ 0.60	\$ 1.45	\$ 2.05	\$ 46,495.85
			LIGHTING FIXTURES:										
461			100: LED Recessed Box, EATON-22CZ-LD5-39-UNV-L8	EA	24	0%	24	0.850	\$ 75.00	\$ 63.75	\$ 85.96	\$ 149.71	\$ 3,593.04
462			101: LED Recessed Box, EATON-22SR-LD2-29-C-UNV-L8	EA	13	0%	13	0.850	\$ 75.00	\$ 63.75	\$ 176.69	\$ 240.44	\$ 3,125.72
463			103: LED Recessed Box, EATON-24GR-LD5-72-F1-UNV-L8	EA	5	0%	5	0.850	\$ 75.00	\$ 63.75	\$ 139.07	\$ 202.82	\$ 1,014.10
464			106: Decorative Pendant LED, CHALLENGER Lighting -	EA	3	0%	3	1.200	\$ 75.00	\$ 90.00	\$ 279.60	\$ 369.60	\$ 1,108.80
465			107: Decorative Pendant LED, CHALLENGER Lighting -	EA	1	0%	1	1.200	\$ 75.00	\$ 90.00	\$ 279.60	\$ 369.60	\$ 369.60
466			111: Decorative Pendant LED, CHALLENGER Lighting -	EA	1	0%	1	0.980	\$ 75.00	\$ 73.50	\$ 175.00	\$ 248.50	\$ 248.50
467			113: Wall Sconce LED, RESTORATION HARDWARE - 7	EA	5	0%	5	0.890	\$ 75.00	\$ 66.75	\$ 230.00	\$ 296.75	\$ 1,483.75
468			114: Decorative Pendant LED, RESTORATION HARDWARE -	EA	3	0%	3	0.890	\$ 75.00	\$ 66.75	\$ 230.00	\$ 296.75	\$ 890.25
469			115: Wall Sconce LED, ASHLEY LIGHTING, Inc. - 71269	EA	35	0%	35	0.650	\$ 75.00	\$ 48.75	\$ 200.99	\$ 249.74	\$ 8,740.90
470			116: Wall Sconce LED, ASHLEY LIGHTING, Inc. - 71270	EA	2	0%	2	0.450	\$ 75.00	\$ 33.75	\$ 155.00	\$ 188.75	\$ 377.50
471			117: Ceiling Dome LED, RESTORATION HARDWARE -	EA	264	0%	264	0.890	\$ 75.00	\$ 66.75	\$ 230.00	\$ 296.75	\$ 78,342.00
472			118: Surface Mounted Wrap LED, EATON Metalux - 2WN	EA	12	0%	12	0.650	\$ 75.00	\$ 48.75	\$ 114.99	\$ 163.74	\$ 1,964.88
473			119: Surface Mounted Wrap LED, EATON Metalux - 2WN	EA	22	0%	22	0.650	\$ 75.00	\$ 48.75	\$ 159.56	\$ 208.31	\$ 4,582.82
474			120: Cove LED, EATON Corelite - JS-LL-3L35-1D-120-S	EA	8	0%	8	0.880	\$ 75.00	\$ 66.00	\$ 279.00	\$ 345.00	\$ 2,760.00
475			121: Wall Sconce LED, INSIGHT LIGHTING - MLE-DW	EA	5	0%	5	0.800	\$ 75.00	\$ 60.00	\$ 188.00	\$ 248.00	\$ 1,240.00
476			122: Down Light LED, EATON - Halo - PD620ED010-PD	EA	217	0%	217	0.350	\$ 75.00	\$ 26.25	\$ 110.56	\$ 136.81	\$ 29,687.77
477			124: Down Light LED, EATON - Portfolio - LD6A-15-D0	EA	37	0%	37	0.350	\$ 75.00	\$ 26.25	\$ 132.00	\$ 158.25	\$ 5,855.25
478			126: Down Light LED, EATON - Halo - Edison - ML4D09	EA	3	0%	3	0.380	\$ 75.00	\$ 28.50	\$ 132.00	\$ 160.50	\$ 481.50
479			127: Down Light LED, EATON - Halo - ML4D09NFL930	EA	20	0%	20	0.320	\$ 75.00	\$ 24.00	\$ 77.20	\$ 101.20	\$ 2,024.00
480			128: Down Light LED, EATON - Halo - PD615D010B-PD	EA	5	0%	5	0.650	\$ 75.00	\$ 48.75	\$ 195.00	\$ 243.75	\$ 1,218.75
481			131: Surface Direct Indirect LED Light, EATON - Metalux	EA	8	0%	8	0.560	\$ 75.00	\$ 42.00	\$ 125.89	\$ 167.89	\$ 1,343.12
482			132: Flood Light LED, LUMARK - LDWP-FC-3B-120V-F	EA	5	0%	5	0.890	\$ 75.00	\$ 66.75	\$ 500.00	\$ 566.75	\$ 2,833.75
483			134: Elevator Pit LED Light, PHILIPS Quality Exceline - R	EA	2	0%	2	0.560	\$ 75.00	\$ 42.00	\$ 109.19	\$ 151.19	\$ 302.38
484			135: Tape Lights LED, FLEXYDLED CH#103197122, Wa	LF	8	0%	8	0.100	\$ 75.00	\$ 7.50	\$ 16.88	\$ 24.38	\$ 191.10
485			136: Tape Lights LED, FLEXYDLED CH#103197122, Wa	LF	77	0%	77	0.050	\$ 75.00	\$ 3.75	\$ 8.44	\$ 12.19	\$ 942.70
486			137: Tape Lights LED, FLEXYDLED CH#103197122, Wa	LF	6	0%	6	0.050	\$ 75.00	\$ 3.75	\$ 8.44	\$ 12.19	\$ 77.51
487			104: Track Light LED, TECH LIGHTING LLC - 700TITM	EA	1	0%	1	0.450	\$ 75.00	\$ 33.75	\$ 230.00	\$ 263.75	\$ 263.75
			3 Heads And 5' Track	EA	1	0%	1	0.500	\$ 75.00	\$ 37.50	\$ 65.23	\$ 102.73	\$ 102.73
488			138: Linear Cove Light LED, EATON - O.03.L3K.90.101.	LF	35	0%	35	0.085	\$ 75.00	\$ 6.38	\$ 9.47	\$ 15.84	\$ 549.17
489			Emergency Remote Head C/W Battery Backup: Emergency	EA	48	0%	48	0.550	\$ 75.00	\$ 41.25	\$ 160.00	\$ 201.25	\$ 9,660.00
490			114: Decorative Pendant LED, RESTORATION HARDWARE -	EA	4	0%	4	0.890	\$ 75.00	\$ 66.75	\$ 230.00	\$ 296.75	\$ 1,187.00
491			Exit Sign: Exit Light LED, EATON - Surelites - CX7 (Or A	EA	49	0%	49	0.450	\$ 75.00	\$ 33.75	\$ 125.49	\$ 159.24	\$ 7,802.76
492		Detail Not Given	Strip Light @ Pool	LF	52	0%	52	0.050	\$ 75.00	\$ 3.75	\$ 0.25	\$ 4.00	\$ 208.36
			LIGHTING CONTROL:										
493			Single Pole Switch, WP	EA	2	0%	2	0.290	\$ 75.00	\$ 21.75	\$ 19.50	\$ 41.25	\$ 82.50
494			Single Pole Switch - Throw Type	EA	98	0%	98	0.290	\$ 75.00	\$ 21.75	\$ 25.60	\$ 47.35	\$ 4,640.30
495			Dimmer Switch	EA	1	0%	1	0.250	\$ 75.00	\$ 18.75	\$ 16.59	\$ 35.34	\$ 35.34
496			Occupancy Sensor Switch	EA	19	0%	19	0.250	\$ 75.00	\$ 18.75	\$ 22.85	\$ 41.60	\$ 790.40
497			Occupancy Sensor, Ceiling Mounted	EA	24	0%	24	0.280	\$ 75.00	\$ 21.00	\$ 22.85	\$ 43.85	\$ 1,052.40
498			Three-Way Dimmer Switch	EA	5	0%	5	0.280	\$ 75.00	\$ 21.00	\$ 29.80	\$ 50.80	\$ 254.00

DETAILED BREAKDOWN OF ITEMS

Prepared for:

Project ID:

Scope: MEP



Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
499			Three-Way Switch	EA	7	0%	7	0.280	\$ 75.00	\$ 21.00	\$ 21.00	\$ 42.00	\$ 294.00
500			Vacancy Sensor Switch	EA	81	0%	81	0.280	\$ 75.00	\$ 21.00	\$ 22.85	\$ 43.85	\$ 3,551.85
			MISCELLANEOUS										
501			Junction Box	EA	16	0%	16	0.350	\$ 75.00	\$ 26.25	\$ 65.00	\$ 91.25	\$ 1,460.00
502			Junction Box, Weather Proof	EA	5	0%	5	0.350	\$ 75.00	\$ 26.25	\$ 72.00	\$ 98.25	\$ 491.25
503			Pull Box	EA	25	0%	25	0.450	\$ 75.00	\$ 33.75	\$ 83.25	\$ 117.00	\$ 2,925.00

SUBTOTAL \$ 1,568,654

PROJECTED COST													\$3,848,112
OVERHEAD AND PROFIT												15%	\$577,217
INSURANCE												3%	\$115,443
CONTINGENCY												5%	\$192,406
TAX												7%	\$0
SUGGESTED BID													\$4,733,178

Note:

1. Please verify the equipment's and their prices with owner.
2. Online sources are used for pricing.
3. Prices can vary depending upon field conditions.

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: MEP



Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
GENERAL REQUIREMENTS													
1			Permits	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 35,000.00	\$ 35,000.00
2			Supervision and Coordination	LS	6	0%	6	0.000	\$ -	\$ -	\$ -	\$ 25,000.00	\$ 150,000.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 12,000.00	\$ 12,000.00
4			Final Cleaning	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 22,000.00	\$ 22,000.00
5			Mobilization Costs	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 150,000.00	\$ 150,000.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 65,000.00	\$ 65,000.00
7			Scaffolding	LS	1	0%	1	0.000	\$ -	\$ -	\$ -	\$ 10,000.00	\$ 10,000.00
												SUBTOTAL	\$ 444,000

PLUMBING

COLD WATER PIPE (BELOW GRADE)													
Type "K" Soft Annealed Copper Tube, ASTM B 88M													
8			2" Dia Domestic Cold Water Pipe	LF	28	10%	31	0.045	\$ 72.00	\$ 3.24	\$ 49.59	\$ 52.83	\$ 1,650.41
9			3" Dia Domestic Cold Water Pipe	LF	4	10%	4	0.055	\$ 72.00	\$ 3.96	\$ 88.75	\$ 92.71	\$ 397.73
COLD WATER PIPE (ABOVE GRADE)													
Type "L" Hard Drawn Copper Tube, ASTM B 88M													
10			3/4" Dia Domestic Cold Water Pipe	LF	28	10%	31	0.042	\$ 72.00	\$ 3.02	\$ 5.44	\$ 8.46	\$ 262.74
11			1-1/4" Dia Domestic Cold Water Pipe	LF	38	10%	42	0.050	\$ 72.00	\$ 3.60	\$ 8.56	\$ 12.16	\$ 506.01
12			1-1/2" Dia Domestic Cold Water Pipe	LF	31	10%	34	0.052	\$ 72.00	\$ 3.74	\$ 9.69	\$ 13.43	\$ 457.66
13			2" Dia Domestic Cold Water Pipe	LF	20	10%	23	0.055	\$ 72.00	\$ 3.96	\$ 20.40	\$ 24.36	\$ 548.78
Assumed 3/4" Thick Fiberglass Insulation													
14			3/4" Dia Domestic Cold Water Pipe	LF	28	10%	31	0.067	\$ 72.00	\$ 4.82	\$ 5.22	\$ 10.04	\$ 311.79
15			1-1/4" Dia Domestic Cold Water Pipe	LF	38	10%	42	0.069	\$ 72.00	\$ 4.97	\$ 8.95	\$ 13.92	\$ 579.17
16			1-1/2" Dia Domestic Cold Water Pipe	LF	31	10%	34	0.073	\$ 72.00	\$ 5.26	\$ 9.83	\$ 15.09	\$ 513.93
17			2" Dia Domestic Cold Water Pipe	LF	20	10%	23	0.076	\$ 72.00	\$ 5.47	\$ 14.57	\$ 20.04	\$ 451.43
COLD WATER PIPE FITTINGS:													
ELBOW:													
18			3/4" Dia Domestic Cold Water Pipe 90 Deg Elbow	EA	1	0%	1	0.233	\$ 72.00	\$ 16.78	\$ 15.00	\$ 31.78	\$ 31.78
19			1-1/4" Dia Domestic Cold Water Pipe 90 Deg Elbow	EA	1	0%	1	0.400	\$ 72.00	\$ 28.80	\$ 28.00	\$ 56.80	\$ 56.80
20			1-1/2" Dia Domestic Cold Water Pipe 90 Deg Elbow	EA	3	0%	3	0.420	\$ 72.00	\$ 30.24	\$ 37.00	\$ 67.24	\$ 201.72
21			2" Dia Domestic Cold Water Pipe 90 Deg Elbow	EA	3	0%	3	0.440	\$ 72.00	\$ 31.68	\$ 66.00	\$ 97.68	\$ 293.04
TEE:													
22			3/4" Dia Domestic Cold Water Pipe Tee	EA	1	0%	1	0.580	\$ 72.00	\$ 41.76	\$ 11.90	\$ 53.66	\$ 53.66
23			2" / 3/4" Dia Domestic Cold Water Pipe Tee	EA	1	0%	1	0.712	\$ 72.00	\$ 51.26	\$ 150.00	\$ 201.26	\$ 201.26
24			2" / 1-1/2" Dia Domestic Cold Water Pipe Tee	EA	1	0%	1	0.850	\$ 72.00	\$ 61.20	\$ 175.00	\$ 236.20	\$ 236.20
REDUCER:													
25			2" / 1-1/2" Dia Domestic Cold Water Pipe Reducer	EA	1	0%	1	0.400	\$ 72.00	\$ 28.80	\$ 172.00	\$ 200.80	\$ 200.80
HOT WATER PIPE (ABOVE GRADE)													
Type "L" Hard Drawn Copper Tube, ASTM B 88M													
26			3/4" Dia Domestic Hot Water Pipe	LF	36	10%	39	0.055	\$ 72.00	\$ 3.96	\$ 5.44	\$ 9.40	\$ 370.59
Size Assumed 3/4" Thick Fiberglass Insulation													
27			3/4" Dia Domestic Hot Water Pipe	LF	36	10%	39	0.420	\$ 72.00	\$ 30.24	\$ 37.00	\$ 67.24	\$ 2,650.87
HOT WATER PIPE FITTINGS:													
ELBOW:													
28			3/4" Dia Domestic Hot Water Pipe 90 Deg Elbow	EA	4	0%	4	0.233	\$ 72.00	\$ 16.78	\$ 15.00	\$ 31.78	\$ 127.10

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: MEP



Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
			TEE:										
29			3/4" Dia Domestic Hot Water Pipe Tee	EA	1	0%	1	0.580	\$ 72.00	\$ 41.76	\$ 11.90	\$ 53.66	\$ 53.66
			SANITARY PIPE (BELOW GRADE)										
			DWV Schedule 40 PVC										
30			4" Dia Sanitary Pipe	LF	254	10%	279	0.069	\$ 72.00	\$ 4.97	\$ 5.88	\$ 10.84	\$ 3,029.34
31			6" Dia Sanitary Pipe	LF	104	10%	114	0.072	\$ 72.00	\$ 5.18	\$ 19.50	\$ 24.68	\$ 2,811.36
			SANITARY PIPE FITTINGS:										
			ELBOW:										
32			4" Dia Sanitary Pipe 90 Deg Elbow	EA	26	0%	26	0.435	\$ 72.00	\$ 31.32	\$ 38.50	\$ 69.82	\$ 1,815.32
33			4" Dia Sanitary Pipe 45 Deg Elbow	EA	24	0%	24	0.435	\$ 72.00	\$ 31.32	\$ 38.50	\$ 69.82	\$ 1,675.68
34			6" Dia Sanitary Pipe 45 Deg Elbow	EA	2	0%	2	0.685	\$ 72.00	\$ 49.32	\$ 125.00	\$ 174.32	\$ 348.64
			WYE:										
35			4" Dia Sanitary Pipe Wye	EA	30	0%	30	0.625	\$ 72.00	\$ 45.00	\$ 51.00	\$ 96.00	\$ 2,880.00
36			6" Dia Sanitary Pipe Wye	EA	2	0%	2	0.755	\$ 72.00	\$ 54.36	\$ 250.00	\$ 304.36	\$ 608.72
37			6" / 4" Dia Sanitary Pipe Wye	EA	7	0%	7	0.958	\$ 72.00	\$ 68.98	\$ 65.00	\$ 133.98	\$ 937.83
			REDUCER:										
38			6" / 4" Dia Sanitary Pipe Reducer	EA	2	0%	2	0.865	\$ 72.00	\$ 62.28	\$ 58.00	\$ 120.28	\$ 240.56
			SANITARY PIPE (ABOVE GRADE)										
			DWV Schedule 40 PVC										
39			4" Dia Sanitary Pipe	LF	24	10%	26	0.069	\$ 72.00	\$ 4.97	\$ 5.88	\$ 10.84	\$ 287.00
			SANITARY PIPE FITTINGS:										
			REDUCER:										
40			4" / 3" Dia Sanitary Pipe Reducer	EA	10	0%	10	0.655	\$ 72.00	\$ 47.16	\$ 23.50	\$ 70.66	\$ 706.60
			VENT PIPE (ABOVE GRADE)										
			DWV Schedule 40 PVC										
41			3" Dia Vent Pipe	LF	142	10%	157	0.065	\$ 72.00	\$ 4.68	\$ 7.88	\$ 12.56	\$ 1,965.57
42			4" Dia Vent Pipe	LF	13	10%	14	0.069	\$ 72.00	\$ 4.97	\$ 5.88	\$ 10.84	\$ 151.73
			VENT PIPE FITTINGS:										
			ELBOW:										
43			3" Dia Vent Pipe 90 Deg Elbow	EA	8	0%	8	0.410	\$ 72.00	\$ 29.52	\$ 21.50	\$ 51.02	\$ 408.16
44			4" Dia Vent Pipe 90 Deg Elbow	EA	1	0%	1	0.435	\$ 72.00	\$ 31.32	\$ 38.50	\$ 69.82	\$ 69.82
			TEE:										
45			3" Dia Vent Pipe Tee	EA	6	0%	6	0.410	\$ 72.00	\$ 29.52	\$ 21.50	\$ 51.02	\$ 306.12
			STORM DRAIN PIPE (BELOW GRADE)										
			DWV Schedule 40 PVC										
46			6" Dia Storm Pipe Line	LF	11	10%	12	0.072	\$ 72.00	\$ 5.18	\$ 19.50	\$ 24.68	\$ 292.70
47			8" Dia Storm Drain Pipe	LF	13	10%	14	0.075	\$ 72.00	\$ 5.40	\$ 36.14	\$ 41.54	\$ 594.02
			STORM DRAIN PIPE (ABOVE GRADE)										
			DWV Schedule 40 PVC										
48			4" Dia Storm Pipe	LF	27	10%	29	0.069	\$ 72.00	\$ 4.97	\$ 7.88	\$ 12.85	\$ 378.13
49			6" Dia Storm Pipe	LF	12	10%	13	0.072	\$ 72.00	\$ 5.18	\$ 19.50	\$ 24.68	\$ 330.99
50			8" Dia Storm Pipe	LF	65	10%	71	0.075	\$ 72.00	\$ 5.40	\$ 36.14	\$ 41.54	\$ 2,947.72
			STORM DRAIN PIPE FITTINGS:										
			ELBOW:										
51			4" Dia Storm Pipe 90 Deg Elbow	EA	2	0%	2	0.435	\$ 72.00	\$ 31.32	\$ 38.50	\$ 69.82	\$ 139.64
52			8" Dia Storm Pipe 90 Deg Elbow	EA	3	0%	3	0.788	\$ 72.00	\$ 56.74	\$ 315.00	\$ 371.74	\$ 1,115.21
53			4" Dia Storm Pipe 45 Deg Elbow	EA	1	0%	1	0.435	\$ 72.00	\$ 31.32	\$ 38.50	\$ 69.82	\$ 69.82
			WYE:										
54			8" Dia Storm Pipe Wye	EA	1	0%	1	0.885	\$ 72.00	\$ 63.72	\$ 450.00	\$ 513.72	\$ 513.72

M200, M300,
M301

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: MEP



Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
55			8" / 4" Dia Storm Pipe Wye	EA	2	0%	2	0.985	\$ 72.00	\$ 70.92	\$ 245.00	\$ 315.92	\$ 631.84
			REDUCER:										
56			8" / 6" Dia Storm Pipe Reducer	EA	1	0%	1	0.963	\$ 72.00	\$ 69.34	\$ 94.00	\$ 163.34	\$ 163.34
			PLUMBING FIXTURES										
57			NFHB: 1-1/4" Dia Exterior Hose Bib, WATTS HY-725-6-K	EA	1	0%	1	1.500	\$ 72.00	\$ 108.00	\$ 525.00	\$ 633.00	\$ 633.00
58			Lavatory	EA	4	0%	4	2.000	\$ 72.00	\$ 144.00	\$ 553.00	\$ 697.00	\$ 2,788.00
59			Water Closet	EA	6	0%	6	3.019	\$ 72.00	\$ 217.37	\$ 895.00	\$ 1,112.37	\$ 6,674.21
			WATER HEATER										
60			DWHT: Domestic Water Heater, AO SMITH BTH-500 M	EA	1	0%	1	3.200	\$ 72.00	\$ 230.40	\$ 1,207.20	\$ 1,437.60	\$ 1,437.60
			WATER HEATER ACCESSORIES										
61			Expansion Tank	EA	1	0%	1	1.500	\$ 72.00	\$ 108.00	\$ 48.48	\$ 156.48	\$ 156.48
			MISCELLANEOUS										
62			1-1/2" Dia Pipe End Cap	EA	1	0%	1	0.020	\$ 72.00	\$ 1.44	\$ 5.15	\$ 6.59	\$ 6.59
63			4" Dia Pipe End Cap	EA	3	0%	3	0.048	\$ 72.00	\$ 3.46	\$ 27.00	\$ 30.46	\$ 91.37
			CLEANOUTS & DRAINS:										
64			4" Dia Roof Drain	EA	2	0%	2	1.000	\$ 72.00	\$ 72.00	\$ 75.79	\$ 147.79	\$ 295.58
65			8" Dia Clean Out	EA	2	0%	2	1.330	\$ 72.00	\$ 95.76	\$ 250.22	\$ 345.98	\$ 691.96
66			4" Dia Clean Out	EA	8	0%	8	1.000	\$ 72.00	\$ 72.00	\$ 55.37	\$ 127.37	\$ 1,018.96
67			4" Dia, FD-1: Floor Drain, WATTS FD-104-NH-C-A5-1-6,	EA	10	0%	10	1.000	\$ 72.00	\$ 72.00	\$ 168.83	\$ 240.83	\$ 2,408.30
			VALVES:										
68			3/4" Dia Insulation Valve	EA	4	0%	4	0.400	\$ 72.00	\$ 28.80	\$ 97.62	\$ 126.42	\$ 505.68
69			1-1/2" Dia Insulation Valve	EA	1	0%	1	0.522	\$ 72.00	\$ 37.58	\$ 29.47	\$ 67.05	\$ 67.05
70			1-1/4" Dia Insulation Valve	EA	3	0%	3	0.500	\$ 72.00	\$ 36.00	\$ 25.58	\$ 61.58	\$ 184.74
71			2" Dia By-Pass Valve	EA	1	0%	1	0.576	\$ 72.00	\$ 41.47	\$ 41.99	\$ 83.46	\$ 83.46
72			2" Dia Drainage Valve	EA	1	0%	1	0.655	\$ 72.00	\$ 47.16	\$ 149.00	\$ 196.16	\$ 196.16
73			2" Dia Flushing Valve	EA	1	0%	1	0.695	\$ 72.00	\$ 50.04	\$ 669.99	\$ 720.03	\$ 720.03
74			2" Dia Inlet Valve	EA	1	0%	1	0.622	\$ 72.00	\$ 44.78	\$ 89.99	\$ 134.77	\$ 134.77
74			2" Dia Outlet Valve	EA	1	0%	1	0.622	\$ 72.00	\$ 44.78	\$ 89.99	\$ 134.77	\$ 134.77
75			Back Flow Preventer	EA	2	0%	2	0.950	\$ 72.00	\$ 68.40	\$ 256.10	\$ 324.50	\$ 649.00
			PVC COUPLING:										
76			3" Dia	EA	14	0%	14	0.622	\$ 72.00	\$ 44.78	\$ 2.04	\$ 46.82	\$ 666.26
77			4" Dia	EA	32	0%	32	0.645	\$ 72.00	\$ 46.44	\$ 6.42	\$ 52.86	\$ 1,691.52
78			6" Dia	EA	13	0%	13	0.733	\$ 72.00	\$ 52.78	\$ 15.27	\$ 68.05	\$ 884.60
79			8" Dia	EA	7	0%	7	0.812	\$ 72.00	\$ 58.46	\$ 36.36	\$ 94.82	\$ 663.77
			PIPE SUPPORT:										
80			3/4" Dia Adjustable Clevis Hanger	EA	10	0%	10	0.123	\$ 72.00	\$ 8.86	\$ 2.20	\$ 11.06	\$ 110.56
81			1-1/4" Dia Adjustable Clevis Hanger	EA	6	0%	6	0.142	\$ 72.00	\$ 10.22	\$ 2.28	\$ 12.50	\$ 75.02
82			1-1/2" Dia Adjustable Clevis Hanger	EA	5	0%	5	0.156	\$ 72.00	\$ 11.23	\$ 2.32	\$ 13.55	\$ 67.76
83			2" Dia Adjustable Clevis Hanger	EA	2	0%	2	0.159	\$ 72.00	\$ 11.45	\$ 2.68	\$ 14.13	\$ 28.26
84			3" Dia Adjustable Clevis Hanger	EA	14	0%	14	0.174	\$ 72.00	\$ 12.53	\$ 7.50	\$ 20.03	\$ 280.39
85			4" Dia Adjustable Clevis Hanger	EA	6	0%	6	0.178	\$ 72.00	\$ 12.82	\$ 7.21	\$ 20.03	\$ 120.16
86			6" Dia Adjustable Clevis Hanger	EA	1	0%	1	0.185	\$ 72.00	\$ 13.32	\$ 13.27	\$ 26.59	\$ 26.59
87			8" Dia Adjustable Clevis Hanger	EA	6	0%	6	0.193	\$ 72.00	\$ 13.90	\$ 24.65	\$ 38.55	\$ 231.28
88			3/8" Dia Threaded Rod (1 Each = 1 Feet)	EA	21	0%	21	0.050	\$ 72.00	\$ 3.60	\$ 4.77	\$ 8.37	\$ 175.77
89			1/2" Dia Threaded Rod (1 Each = 1 Feet)	EA	22	0%	22	0.050	\$ 72.00	\$ 3.60	\$ 5.63	\$ 9.23	\$ 203.06
90			5/8" Dia Threaded Rod (1 Each = 1 Feet)	EA	7	0%	7	0.055	\$ 72.00	\$ 3.96	\$ 6.22	\$ 10.18	\$ 71.26
			TRENCHING & BACKFILLING:										
91			Excavation & Backfilling (3' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	1242	0%	1242	0.625	\$ 72.00	\$ 45.00	\$ -	\$ 45.00	\$ 55,890.00
												SUBTOTAL	\$ 115,641

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: MEP



Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
HVAC													
			GAS LINE										
			Schedule 40 Electric-Resistance Weld (ERW)										
92			1" Dia Gas Line	LF	27	10%	30	0.072	\$ 75.00	\$ 5.40	\$ 8.25	\$ 13.65	\$ 408.26
93			2" Dia Gas Line	LF	109	10%	120	0.095	\$ 75.00	\$ 7.13	\$ 24.56	\$ 31.69	\$ 3,806.70
94			Below Grade 2" Dia Gas Line	LF	17	10%	19	0.120	\$ 75.00	\$ 9.00	\$ 24.56	\$ 33.56	\$ 626.10
			GAS LINE FITTINGS:										
			ELBOW:										
95			1" Dia Gas Line 90 Deg Elbow	EA	2	0%	2	0.200	\$ 75.00	\$ 15.00	\$ 7.25	\$ 22.25	\$ 44.50
96			2" Dia Gas Line 90 Deg Elbow	EA	4	0%	4	0.230	\$ 75.00	\$ 17.25	\$ 20.14	\$ 37.39	\$ 149.56
			TEE:										
97			2" Dia Gas Line Tee	EA	2	0%	2	0.260	\$ 75.00	\$ 19.50	\$ 22.58	\$ 42.08	\$ 84.16
			REDUCER:										
98			2" / 1" Dia Gas Line Reducer	EA	1	0%	1	0.250	\$ 75.00	\$ 18.75	\$ 19.64	\$ 38.39	\$ 38.39
			CONDENSATE DRAIN PIPE										
			Type "M" Copper										
99		Assumed	3/4" Dia Condensate Drain Pipe	LF	74	10%	81	0.063	\$ 75.00	\$ 4.73	\$ 3.56	\$ 8.29	\$ 674.31
		Size Assumed	1/2" Thick Fiberglass Insulation										
100			3/4" Dia Condensate Drain Pipe	LF	74	10%	81	0.024	\$ 75.00	\$ 1.80	\$ 3.40	\$ 5.20	\$ 423.22
			CONDENSATE DRAIN FITTINGS:										
			ELBOW:										
101			3/4" Dia Condensate Drain Pipe 90 Deg Elbow	EA	4	0%	4	0.320	\$ 75.00	\$ 24.00	\$ 6.48	\$ 30.48	\$ 121.92
			AIR DEVICES										
102		Size Assumed	Transfer Air Grille, Face size: 12"x8", Neck Size: 12"x8"	EA	8	0%	8	0.385	\$ 75.00	\$ 28.88	\$ 48.64	\$ 77.52	\$ 620.12
			ROOF TOP UNIT										
103			RTU-1: Roof Top Unit, DAIKIN DPS012A, Airflow (CFM)	EA	1	0%	1	8.850	\$ 75.00	\$ 663.75	\$ 10,450.00	\$ 11,113.75	\$ 11,113.75
104			RTU-2: Roof Top Unit, DAIKIN DPS003A, Airflow (CFM)	EA	1	0%	1	6.200	\$ 75.00	\$ 465.00	\$ 4,650.00	\$ 5,115.00	\$ 5,115.00
			GAS METER										
105			Commercial Gas Meter And PRV Station	EA	1	0%	1	1.850	\$ 75.00	\$ 138.75	\$ 599.00	\$ 737.75	\$ 737.75
			EXHAUST FAN										
106			EF-1: Inline Exhaust Fan, COOK GN-542, Air Capacity (C	EA	2	0%	2	2.500	\$ 75.00	\$ 187.50	\$ 725.07	\$ 912.57	\$ 1,825.14
			LOUVER										
107			L-1: Louver, Face Size: 12"x6", Neck Size: 8"x8"	EA	2	0%	2	0.320	\$ 75.00	\$ 24.00	\$ 210.63	\$ 234.63	\$ 469.26
108			Louver, Face Size: 6"x6", Neck Size: 6"x6" (Louver Assum	EA	3	0%	3	0.285	\$ 75.00	\$ 21.38	\$ 117.87	\$ 139.25	\$ 417.74
109			Louver, Face Size: 8"x6", Neck Size: 8"x6" (Louver Assum	EA	2	0%	2	0.300	\$ 75.00	\$ 22.50	\$ 144.21	\$ 166.71	\$ 333.42
110			Louver, Face Size: 8"x8", Neck Size: 8"x8" (Louver Assum	EA	1	0%	1	0.325	\$ 75.00	\$ 24.38	\$ 198.71	\$ 223.09	\$ 223.09
111			Louver, Face Size: 12"x8", Neck Size: 12"x8" (Louver Ass	EA	1	0%	1	0.385	\$ 75.00	\$ 28.88	\$ 245.42	\$ 274.30	\$ 274.30
			DUCT WEIGHT										
112			Galvanized Sheet Metal Duct	LBS	1140	10%	1254	0.092	\$ 75.00	\$ 6.90	\$ 0.78	\$ 7.68	\$ 9,630.72
			DUCT INSULATION										
113			1" Thick Thermal Insulation	SF	919	10%	1011	0.025	\$ 75.00	\$ 1.88	\$ 7.85	\$ 9.73	\$ 9,831.00
114			2" Thick Thermal Insulation	SF	118	10%	130	0.030	\$ 75.00	\$ 2.25	\$ 12.68	\$ 14.93	\$ 1,937.91
			MISCELLANEOUS										
115			8"x8" Flexible Connections	EA	4	0%	4	0.400	\$ 75.00	\$ 30.00	\$ 28.72	\$ 58.72	\$ 234.88
116			20"x20" Supply Air Kitchen Duct Temporary Seal	EA	1	0%	1	0.240	\$ 75.00	\$ 18.00	\$ 32.50	\$ 50.50	\$ 50.50
117			20"x20" Exhaust Air Kitchen Duct Temporary Seal	EA	1	0%	1	0.240	\$ 78.00	\$ 18.72	\$ 32.50	\$ 51.22	\$ 51.22
			VALVES:										
118			1" Dia Insulation Valve	EA	1	0%	1	0.280	\$ 75.00	\$ 21.00	\$ 28.35	\$ 49.35	\$ 49.35
119			2" Dia Insulation Valve	EA	2	0%	2	0.320	\$ 75.00	\$ 24.00	\$ 42.14	\$ 66.14	\$ 132.28
120			1" Dia Shutdown Valve	EA	1	0%	1	0.280	\$ 75.00	\$ 21.00	\$ 18.99	\$ 39.99	\$ 39.99

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: MEP



Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
121			2" Dia Shutdown Valve	EA	2	0%	2	0.320	\$ 75.00	\$ 24.00	\$ 26.74	\$ 50.74	\$ 101.48
			PIPE SUPPORTS:						\$ 75.00				
122			1" Dia Adjustable Clevis Hanger	EA	4	0%	4	0.050	\$ 75.00	\$ 3.75	\$ 3.95	\$ 7.70	\$ 30.80
123			2" Dia Adjustable Clevis Hanger	EA	11	0%	11	0.062	\$ 75.00	\$ 4.65	\$ 6.67	\$ 11.32	\$ 124.52
124			3/8" Dia Threaded Rod (1 Each = 1 Feet)	EA	4	0%	4	0.050	\$ 75.00	\$ 3.75	\$ 4.77	\$ 8.52	\$ 34.08
125			1/2" Dia Threaded Rod (1 Each = 1 Feet)	EA	11	0%	11	0.050	\$ 75.00	\$ 3.75	\$ 5.40	\$ 9.15	\$ 100.65
			DUCT SUPPORTS:										
126			3/8" Threaded Rod	EA	52	0%	52	0.050	\$ 75.00	\$ 3.75	\$ 4.77	\$ 8.52	\$ 443.04
127			1" x 22 Ga. Strap	EA	26	0%	26	0.160	\$ 75.00	\$ 12.00	\$ 2.64	\$ 14.64	\$ 380.64
												SUBTOTAL	\$ 50,680
ELECTRICAL													
			DISTRIBUTION										
			CONDUIT:										
128			2" EMT Conduit	LF	8	10%	8	0.100	\$ 75.00	\$ 7.50	\$ 6.44	\$ 13.94	\$ 115.31
129			3" EMT Conduit	LF	7	10%	7	0.160	\$ 75.00	\$ 12.00	\$ 10.70	\$ 22.70	\$ 164.80
			CONDUCTOR:										
130			#6 AL RW90 NUAL (AA-8030)	LF	8	10%	8	0.012	\$ 75.00	\$ 0.92	\$ 2.63	\$ 3.56	\$ 29.41
131			#4 AL RW90 NUAL (AA-8030)	LF	7	10%	7	0.015	\$ 75.00	\$ 1.13	\$ 2.98	\$ 4.11	\$ 29.85
132			#1 AL RW90 NUAL (AA-8030)	LF	32	10%	35	0.020	\$ 75.00	\$ 1.50	\$ 1.38	\$ 2.88	\$ 101.27
133			#250 KCMIL, AL RW90 NUAL (AA-8030)	LF	28	10%	31	0.040	\$ 75.00	\$ 3.00	\$ 2.70	\$ 5.70	\$ 175.56
			LUGS:										
134			Compression Lug AL With 1-Hole , #6 AL Wire	EA	2	0%	2	0.150	\$ 75.00	\$ 11.25	\$ 2.53	\$ 13.78	\$ 27.56
			Heat Shrink Tubing for #6 AL Wire	EA	2	0%	2	0.120	\$ 75.00	\$ 9.00	\$ 1.29	\$ 10.29	\$ 20.58
135			Compression Lug AL With 1-Hole , #4 AL Wire	EA	2	0%	2	0.200	\$ 75.00	\$ 15.00	\$ 3.45	\$ 18.45	\$ 36.90
			Heat Shrink Tubing for #4 AL Wire	EA	2	0%	2	0.120	\$ 75.00	\$ 9.00	\$ 1.47	\$ 10.47	\$ 20.94
136			Compression Lug AL With 1-Hole , #1 AL Wire	EA	8	0%	8	0.250	\$ 75.00	\$ 18.75	\$ 4.89	\$ 23.64	\$ 189.12
			Heat Shrink Tubing for #1 AL Wire	EA	8	0%	8	0.120	\$ 75.00	\$ 9.00	\$ 1.74	\$ 10.74	\$ 85.92
137			Compression Lug AL With 1-Hole , #250 KCMIL AL Wire	EA	8	0%	8	0.400	\$ 75.00	\$ 30.00	\$ 24.00	\$ 54.00	\$ 432.00
			Heat Shrink Tubing for #250 KCMIL AL Wire	EA	8	0%	8	0.120	\$ 75.00	\$ 9.00	\$ 2.55	\$ 11.55	\$ 92.40
			CIRCUIT BREAKER:										
138			1P/20A Breaker	EA	2	0%	2	1.200	\$ 75.00	\$ 90.00	\$ 465.00	\$ 555.00	\$ 1,110.00
139			3P/30A Breaker	EA	1	0%	1	1.509	\$ 75.00	\$ 113.18	\$ 609.18	\$ 722.36	\$ 722.36
140			3P/60A Breaker	EA	1	0%	1	1.509	\$ 75.00	\$ 113.18	\$ 609.18	\$ 722.36	\$ 722.36
141			3P/100A Breaker	EA	1	0%	1	2.000	\$ 75.00	\$ 150.00	\$ 554.51	\$ 704.51	\$ 704.51
142			3P/200A Breaker	EA	1	0%	1	2.500	\$ 75.00	\$ 187.50	\$ 3,729.28	\$ 3,916.78	\$ 3,916.78
			PANEL:										
143			Panel CL: 100A, 208Y/120V, 3PH, 4W, Mains: MLO, 22K	EA	1	0%	1	1.950	\$ 75.00	\$ 146.25	\$ 1,250.00	\$ 1,396.25	\$ 1,396.25
144			Panel P1: 200A, 208Y/120V, 3PH, 4W, Mains: MLO, 22K	EA	1	0%	1	2.650	\$ 75.00	\$ 198.75	\$ 2,560.00	\$ 2,758.75	\$ 2,758.75
			DEVICES:										
145			TX-1 Utility Transformer (With Concrete Base)	EA	1	0%	1	7.560	\$ 75.00	\$ 567.00	\$ 20,089.00	\$ 20,656.00	\$ 20,656.00
146			Utility Meter And CT Cabinet	EA	1	0%	1	2.560	\$ 75.00	\$ 192.00	\$ 2,219.00	\$ 2,411.00	\$ 2,411.00
			DISCONNECT SWITCH:										
147			3P/30A Disconnect Switch (Assumed From Panel Schedule)	EA	1	0%	1	0.950	\$ 75.00	\$ 71.25	\$ 222.27	\$ 293.52	\$ 293.52
148			3P/60A Disconnect Switch (Assumed From Panel Schedule)	EA	1	0%	1	1.150	\$ 75.00	\$ 86.25	\$ 425.69	\$ 511.94	\$ 511.94
149			400A/400AF Disconnect Switch	EA	1	0%	1	2.150	\$ 75.00	\$ 161.25	\$ 1,393.77	\$ 1,555.02	\$ 1,555.02
			POWER										
			CONDUIT:										
150			3/4" EMT Conduit	LF	20	10%	22	0.062	\$ 75.00	\$ 4.65	\$ 1.52	\$ 6.17	\$ 135.74
151			1" EMT Conduit	LF	10	10%	11	0.070	\$ 75.00	\$ 5.25	\$ 2.56	\$ 7.81	\$ 85.91

E1.1, E2.0, E3.0
,E4.0 & E6.0

DETAILED BREAKDOWN OF ITEMS

Prepared for:
Project ID:
Scope: MEP



Date: 08/30/23

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
152			3/4" RGS Conduit	LF	153	10%	168	0.100	\$ 75.00	\$ 7.50	\$ 3.78	\$ 11.28	\$ 1,898.42
153			1" RGS Conduit	LF	61	10%	67	0.123	\$ 75.00	\$ 9.23	\$ 5.74	\$ 14.97	\$ 1,000.86
			CONDUCTOR:										
154			#10 CU RW90 X-LINK	LF	641	10%	705	0.008	\$ 75.00	\$ 0.60	\$ 1.45	\$ 2.05	\$ 1,445.46
155			#6 CU RW90 X-LINK	LF	212	10%	233	0.012	\$ 75.00	\$ 0.92	\$ 2.63	\$ 3.56	\$ 829.20
			DEVICE:										
156			Duplex Receptacle 20A, GFI, WP	EA	2	0%	2	0.320	\$ 75.00	\$ 24.00	\$ 35.89	\$ 59.89	\$ 119.78
			LIGHTING										
			CONDUIT:										
157		For Wall Mounted LED Pack	3/4" EMT Conduit With Pull String	LF	611	10%	672	0.062	\$ 75.00	\$ 4.65	\$ 1.52	\$ 6.17	\$ 4,146.86
158			1" EMT Conduit	LF	253	10%	278	0.070	\$ 75.00	\$ 5.25	\$ 2.56	\$ 7.81	\$ 2,173.52
			CONDUCTOR:										
159			#8 CU RW90 X-LINK	LF	506	10%	557	0.010	\$ 75.00	\$ 0.75	\$ 1.65	\$ 2.40	\$ 1,335.84
160			#10 CU RW90 X-LINK	LF	253	10%	278	0.008	\$ 75.00	\$ 0.60	\$ 1.45	\$ 2.05	\$ 570.52
			LIGHTING FIXTURES:						\$ 75.00				
161			202: Linear Light LED, METALUX - 4CWPLD4040C, 4000K Mounted: Ceiling Surface Mounted Watt: 43	EA	11	0%	11	0.420	\$ 75.00	\$ 31.50	\$ 82.67	\$ 114.17	\$ 1,255.87
			MISCELLANEOUS										
162			Junction Box (For Wall Mounted LED Pack)	EA	5	0%	5	0.350	\$ 75.00	\$ 26.25	\$ 65.00	\$ 91.25	\$ 456.25
163			Junction Box (For Signage)	EA	2	0%	2	0.350	\$ 75.00	\$ 26.25	\$ 65.00	\$ 91.25	\$ 182.50
SUBTOTAL												\$	53,917

												PROJECTED COST	
OVERHEAD AND PROFIT													\$664,237
INSURANCE												15%	\$99,636
CONTINGENCY												3%	\$19,927
TAX												5%	\$33,212
												7%	\$8,154
SUGGESTED BID													\$825,166

- Note:**
1. Please verify the equipment's and their prices with owner.
 2. Online sources are used for pricing.
 3. Prices can vary depending upon field conditions.