

COST SUMMARY

Date:
Project: Hidden For Privacy
Project Location: Hidden For Privacy

Project Type:
Scope of Work: Plumbing
Total Base Bid: \$ 8,872,994

BASE BID	TOTAL COSTS
Base bid	\$ 8,872,994
Note: Click on any of the above text to go to the relevant Tab	

CSI Summary for Base Bid					
Div. No.	CSI Division	Labor Cost	Material Cost	Total Cost	% of sub-total cost
DIV-01	General Requirements	\$ -	\$ -	\$ -	0.0%
DIV-02	Existing conditions	\$ -	\$ -	\$ -	0.0%
DIV-03	Concrete	\$ -	\$ -	\$ -	0.0%
DIV-04	Masonry	\$ -	\$ -	\$ -	0.0%
DIV-05	Metals	\$ -	\$ -	\$ -	0.0%
DIV-06	Wood, Plastics & Composites	\$ -	\$ -	\$ -	0.0%
DIV-07	Thermal & Moisture Protection	\$ -	\$ -	\$ -	0.0%
DIV-08	Openings	\$ -	\$ -	\$ -	0.0%
DIV-09	Finishes	\$ -	\$ -	\$ -	0.0%
DIV-10	Specialties	\$ -	\$ -	\$ -	0.0%
DIV-11	Equipment	\$ -	\$ -	\$ -	0.0%
DIV-12	Furnishings	\$ -	\$ -	\$ -	0.0%
DIV-13	Special Construction	\$ -	\$ -	\$ -	0.0%
DIV-14	Conveying Equipment	\$ -	\$ -	\$ -	0.0%
DIV-21	Fire Suppression	\$ -	\$ -	\$ -	0.0%
DIV-22	Plumbing	\$ 2,216,454	\$ 4,439,627	\$ 6,656,081	100.0%
DIV-23	Heating, Ventilating, & Air conditioning	\$ -	\$ -	\$ -	0.0%
DIV-26	Electrical	\$ -	\$ -	\$ -	0.0%
DIV-27	Communications	\$ -	\$ -	\$ -	0.0%
DIV-28	Electronic Safety & Security	\$ -	\$ -	\$ -	0.0%
DIV-31	Earthwork	\$ -	\$ -	\$ -	0.0%
DIV-32	Exterior Improvements	\$ -	\$ -	\$ -	0.0%
DIV-33	Utilities	\$ -	\$ -	\$ -	0.0%
SUB TOTAL		\$ 2,216,454	\$ 4,439,627	\$ 6,656,081	
MATERIAL TAX			\$ 421,765	\$ 421,765	9.5%
OVERHEAD AND PROFIT		\$ 554,113.53	\$ 1,109,906.69	\$ 1,664,020	25.0%
Bond Fee				\$ 131,128	1.5%
TOTAL BASE BID				\$ 8,872,994	

For Client's Use Only

Comparison with Sub-Quotes		Comments
Enter Sub-Quotes here	Difference	
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	\$ 421,765	
	\$ 1,664,020	
	\$ 131,128	
	\$ 8,872,994	

ITEM #	REF. SHEET	DETAIL	CSI SECT	DESCRIPTION	QTY.	WASTAGE	QTY WITH WASTAGE	UNIT	UNIT LABOR HOURS	TOTAL LABOR HOURS	Contractor Type	PER HOUR LABOR RATE	TOTAL LABOR COST	UNIT MATERIAL COST	TOTAL MATERIAL COST	ITEM COST	TRADE COST
Estimate of Materials and Cost of Construction																	
CLICK HERE TO GO BACK TO COST SUMMARY																	
Sub-Total \$6,656,081 Material Tax 9.5% \$421,765 (Adjust the percentage for Material tax as required) Overhead & Profit 25% \$1,664,020 (Adjust the percentage for Overhead & Profit as required) Bond Fee 1.5% \$131,128 (Adjust the percentage for Bond Fee as required) Total Bid \$8,872,994 Material Wastage 1 0% (for Quantities in Each & LS) Material Wastage 2 5% (for Quantities in LF, SF, SY, CY, LBS, TONS) Note: Contractor can add or Remove Allownces from DIV-1 Tab According to his Requirements Date: Project: Hidden For Privacy Project Location: Hidden For Privacy Project Type: Gross Internal Area of Structure (SF) 373,195 Covered Area of Structure (SF) No. of Units 317 No. of Floors 7 Hardscaping Area (SF) Soft scaping Area (SF)																	
ITEM #	REF. SHEET	DETAIL	CSI SECT	DESCRIPTION	QTY.	WASTAGE	QTY WITH WASTAGE	UNIT	UNIT LABOR HOURS	TOTAL LABOR HOURS	Contractor Type	PER HOUR LABOR RATE	TOTAL LABOR COST	UNIT MATERIAL COST	TOTAL MATERIAL COST	ITEM COST	TRADE COST
			DIV-01	General													\$-
				Plan Design and Permitting													
1			DIV-01	Architecture (Assumed By Owner)	1	0%	1	LS		-			\$-			\$-	
2			DIV-01	Engineering (Assumed By Owner)	1	0%	1	LS		-			\$-			\$-	
3			DIV-01	Surveying	1	0%	1	LS		-			\$-			\$-	
4			DIV-01	Permit Fee	1	0%	1	LS		-			\$-			\$-	
5			DIV-01	Permits (Based on interior finish area)	1	0%	1	LS		-			\$-			\$-	
6			DIV-01	Plan Coordination	1	0%	1	LS		-			\$-			\$-	
7			DIV-01	Roof Inspection	1	0%	1	LS		-			\$-			\$-	
				Equipment and Tools													
8			DIV-01	Tool Rentals	1	0%	1	LS		-			\$-			\$-	
9			DIV-01	Mobilization/Demobilization (Temporary Control & Facilities)	1	0%	1	LS		-			\$-				
				Bonds, Insurance, Legal													
10			DIV-01	Casualty Insurance	1	0%	1	LS		-			\$-			\$-	
11			DIV-01	Medical Insurance	1	0%	1	LS		-			\$-				
12			DIV-01	General Liability Insurance	1	0%	1	LS		-			\$-			\$-	
				Project Management & Supervision													
13			DIV-01	Project Management & Supervision	1	0%	1	LS		-			\$-				
			DIV-22	Plumbing													\$6,656,081
				Water													
				Water Pipes													
14			DIV-22	1/2" Cold water pipe	13,030	5%	13,682	LF	0.063	861.93	Plumber	\$46.1	\$39,735.2	\$2.6	34887.825	\$74,623	
15			DIV-22	3/4" Cold water pipe	22,400	5%	23,520	LF	0.073	1,716.96	Plumber	\$46.1	\$79,151.9	\$4.0	94785.6	\$173,937	
16			DIV-22	1" Cold water pipe	7,775	5%	8,164	LF	0.073	595.95	Plumber	\$46.1	\$27,473.5	\$6.8	55758.4125	\$83,232	
17			DIV-22	1-1/4" Cold water pipe	1,777	5%	1,866	LF	0.083	154.87	Plumber	\$46.1	\$7,139.3	\$9.6	17986.794	\$25,126	
18			DIV-22	1-1/2" Cold water pipe	149	5%	156	LF	0.103	16.06	Plumber	\$46.1	\$740.5	\$12.0	1877.58984	\$2,618	
19			DIV-22	2" Cold water pipe	229	5%	240	LF	0.133	31.91	Plumber	\$46.1	\$1,471.2	\$31.6	7587.09252	\$9,058	
20			DIV-22	2-1/2" Cold water pipe	105	5%	110	LF	0.153	16.80	Plumber	\$46.1	\$774.4	\$34.1	3740.47716	\$4,515	
21			DIV-22	3" Cold water pipe	40	5%	42	LF	0.173	7.20	Plumber	\$46.1	\$332.1	\$44.2	1839.37131	\$2,171	
22			DIV-22	4" Cold water pipe	518	5%	544	LF	0.193	104.98	Plumber	\$46.1	\$4,839.7	\$65.7	35732.23973	\$40,572	
23			DIV-22	6" Cold water pipe	1,258	5%	1,321	LF	0.231	305.05	Plumber	\$46.1	\$14,062.6	\$85.4	112774.3722	\$126,837	
24			DIV-22	1/2" Hot water pipe	13,000	5%	13,650	LF	0.063	859.95	Plumber	\$46.1	\$39,643.7	\$2.6	34807.5	\$74,451	
25			DIV-22	3/4" Hot water pipe	21,962	5%	23,060	LF	0.073	1,683.39	Plumber	\$46.1	\$77,604.2	\$4.0	92932.203	\$170,536	
26			DIV-22	1-1/2" Hot water pipe	165	5%	173	LF	0.103	17.82	Plumber	\$46.1	\$821.4	\$12.0	2082.89592	\$2,904	
27			DIV-22	3/4" Hot water return pipe	63	5%	66	LF	0.073	4.83	Plumber	\$46.1	\$222.8	\$4.0	266.83839	\$490	
28			DIV-22	1" Thick. Mineral fiber glass insulation Type-1	82,469	5%	86,592	LF	0.050	4,329.62	Plumber	\$46.1	\$199,595.6	\$1.4	116899.8075	\$316,495	
				Note: Pipe Material is hard Copper Tube, ASTM B 88, Type L													
				Fittings													
29			DIV-22	1/2" Elbow	1,822	0%	1,822	EA	0.129	235.04	Plumber	\$46.1	\$10,835.3	\$0.8	1439.38	\$12,275	
30			DIV-22	3/4" Elbow	1,540	0%	1,540	EA	0.181	278.74	Plumber	\$46.1	\$12,849.9	\$1.7	2587.2	\$15,437	
31			DIV-22	1" Elbow	151	0%	151	EA	0.232	35.03	Plumber	\$46.1	\$1,615.0	\$5.1	764.06	\$2,379	
32			DIV-22	2" Elbow	80	0%	80	EA	0.447	35.76	Plumber	\$46.1	\$1,648.5	\$20.6	1648	\$3,297	
33			DIV-22	3/4" X 3/4" X 1/2" Tee	3,505	0%	3,505	EA	0.564	1,976.82	Plumber	\$46.1	\$91,131.4	\$8.4	29442	\$120,573	
34			DIV-22	Union	736	0%	736	EA	0.120	88.32	Plumber	\$46.1	\$4,071.6	\$2.2	1633.92	\$5,705	
				Note: Fitting material is hard Copper Tube, ASTM B 88, Type L													
				Valves													
35			DIV-22	1" Pressure & temp relief valve	368	0%	368	EA	0.500	184.00	Plumber	\$46.1	\$8,482.4	\$4.5	1656	\$10,138	
36			DIV-22	1" Shut off valve	368	0%	368	EA	0.500	184.00	Plumber	\$46.1	\$8,482.4	\$4.5	1656	\$10,138	

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37			DIV-22	1/2" Regulator valve	1	0%	1	EA	0.400	0.40	Plumber	\$ 46.1	\$ 18.4	\$ 3.5	3.45	\$ 22	
38			DIV-22	1/2" Shut off valve	16	0%	16	EA	0.400	6.40	Plumber	\$ 46.1	\$ 295.0	\$ 3.5	55.2	\$ 350	
39			DIV-22	1/2" Thermostatic valve -Maf: Kohler -Model: k-2972-KS-NA	307	0%	307	EA	0.650	199.55	Plumber	\$ 46.1	\$ 9,199.3	\$ 253.2	77720.12	\$ 86,919	
40			DIV-22	3/4" Check valve	20	0%	20	EA	0.500	10.00	Plumber	\$ 46.1	\$ 461.0	\$ 4.1	82.4	\$ 543	
41			DIV-22	3/4" Shut off valve	11	0%	11	EA	0.500	5.50	Plumber	\$ 46.1	\$ 253.6	\$ 4.1	45.32	\$ 299	
				Sanitary													
				Sanitary Pipes													
42			DIV-22	1-1/2" Sanitary pipe	6,604	5%	6,934	LF	0.130	901.45	Plumber	\$ 46.1	\$ 41,556.7	\$ 7.6	52422.552	\$ 93,979	
43			DIV-22	2" sanatory pipe	7,872	5%	8,266	LF	0.130	1,074.53	Plumber	\$ 46.1	\$ 49,535.7	\$ 13.2	108775.296	\$ 158,311	
44			DIV-22	3" sanatory pipe	13,195	5%	13,855	LF	0.160	2,216.76	Plumber	\$ 46.1	\$ 102,192.6	\$ 14.5	200616.78	\$ 302,809	
45			DIV-22	4" sanatory pipe	7,781	5%	8,170	LF	0.190	1,552.31	Plumber	\$ 46.1	\$ 71,561.5	\$ 17.0	139135.9515	\$ 210,697	
46			DIV-22	6" sanatory pipe	896	5%	941	LF	0.220	207.08	Plumber	\$ 46.1	\$ 9,546.2	\$ 33.0	31014.23693	\$ 40,560	
47			DIV-22	8" sanatory pipe	618	5%	649	LF	0.260	168.81	Plumber	\$ 46.1	\$ 7,782.0	\$ 63.3	41123.93838	\$ 48,906	
48			DIV-22	10" sanatory pipe	351	5%	369	LF	0.310	114.34	Plumber	\$ 46.1	\$ 5,271.0	\$ 98.1	36189.94302	\$ 41,461	
49			DIV-22	12" Sanitary Pipe	57	5%	60	LF	0.365	22.00	Plumber	\$ 46.1	\$ 1,014.1	\$ 124.3	7491.561	\$ 8,506	
50			DIV-22	1-1/2" Vent pipe	60	5%	63	LF	0.130	8.14	Plumber	\$ 46.1	\$ 375.4	\$ 7.6	473.5017	\$ 849	
51			DIV-22	2" Vent pipe	17,450	5%	18,323	LF	0.130	2,381.93	Plumber	\$ 46.1	\$ 109,806.7	\$ 13.2	241124.1	\$ 350,931	
52			DIV-22	3" Vent pipe	575	5%	604	LF	0.160	96.61	Plumber	\$ 46.1	\$ 4,453.9	\$ 14.5	8743.51632	\$ 13,197	
				Note: Pipe Material is Cast-Iron Pipe, ASTM A 74													
				Fittings													
53			DIV-22	2" Bend (45 degree)	1,018	0%	1,018	EA	0.250	254.50	Plumber	\$ 46.1	\$ 11,732.5	\$ 7.6	7757.16	\$ 19,490	
54			DIV-22	3" Bend (45 degree)	20	0%	20	EA	0.350	7.00	Plumber	\$ 46.1	\$ 322.7	\$ 9.9	198.4	\$ 521	
55			DIV-22	4" Bend (45 degree)	20	0%	20	EA	0.500	10.00	Plumber	\$ 46.1	\$ 461.0	\$ 12.6	251	\$ 712	
56			DIV-22	1-1/2" WYE	7	0%	7	EA	0.250	1.75	Plumber	\$ 46.1	\$ 80.7	\$ 7.6	53.34	\$ 134	
57			DIV-22	2" WYE	472	0%	472	EA	0.250	118.00	Plumber	\$ 46.1	\$ 5,439.8	\$ 9.3	4389.6	\$ 9,829	
58			DIV-22	3" WYE	383	0%	383	EA	0.350	134.05	Plumber	\$ 46.1	\$ 6,179.7	\$ 11.5	4415.99	\$ 10,596	
59			DIV-22	4" WYE	16	0%	16	EA	0.500	8.00	Plumber	\$ 46.1	\$ 368.8	\$ 17.5	280.64	\$ 649	
60			DIV-22	1-1/2" Elbow	21	0%	21	EA	0.250	5.25	Plumber	\$ 46.1	\$ 242.0	\$ 7.6	160.02	\$ 402	
61			DIV-22	2" Elbow	100	0%	100	EA	0.250	25.00	Plumber	\$ 46.1	\$ 1,152.5	\$ 7.6	762	\$ 1,915	
62			DIV-22	3" Tee	68	0%	68	EA	0.350	23.80	Plumber	\$ 46.1	\$ 1,097.2	\$ 9.9	674.56	\$ 1,772	
63			DIV-22	4" Tee	19	0%	19	EA	0.500	9.50	Plumber	\$ 46.1	\$ 438.0	\$ 12.6	238.45	\$ 676	
				Note: Fitting material is cast-Iron, ASTM A 74													
				Misc.													
64			DIV-22	Trench drain (TD-1) -Maf: Zurn -Model: Z886	37	5%	39	LF	0.125	4.86	Plumber	\$ 46.1	\$ 223.9	\$ 109.0	4234.2615	\$ 4,458	
65			DIV-22	(3") Hub drain (HD-1) -Maf: Zurn -Model: Z1870	322	0%	322	EA	2.500	805.00	Plumber	\$ 46.1	\$ 37,110.5	\$ 146.0	47012	\$ 84,123	
66			DIV-22	(8") Hub drain (HD-2) -Maf: Zurn -Model: Z1870	322	0%	322	EA	3.500	1,127.00	Plumber	\$ 46.1	\$ 51,954.7	\$ 598.0	192556	\$ 244,511	
67			DIV-22	(4") Floor clean out -Maf: Zurn -Model: Z-1440	12	0%	12	EA	3.000	36.00	Plumber	\$ 46.1	\$ 1,659.6	\$ 325.2	3901.8	\$ 5,561	
68			DIV-22	(4") Grade clean out	1	0%	1	EA	3.000	3.00	Plumber	\$ 46.1	\$ 138.3	\$ 350.2	350.15	\$ 488	
69			DIV-22	Wall clean out (WCO) -Maf: Zurn -Model: Z-1446	3	0%	3	EA	2.500	7.50	Plumber	\$ 46.1	\$ 345.8	\$ 315.1	945.36	\$ 1,291	
70			DIV-22	Drain (AD-1) -Maf: Zurn -Model: Z535	7	0%	7	EA	3.000	21.00	Plumber	\$ 46.1	\$ 968.1	\$ 658.0	4605.93	\$ 5,574	
71			DIV-22	Drain (AD-2) -Maf: Zurn -Model: Z535	8	0%	8	EA	3.000	24.00	Plumber	\$ 46.1	\$ 1,106.4	\$ 658.0	5263.92	\$ 6,370	
72			DIV-22	Drain (AD-3) -Maf: Zurn -Model: Z505	1	0%	1	EA	3.000	3.00	Plumber	\$ 46.1	\$ 138.3	\$ 547.3	547.3	\$ 686	
73			DIV-22	Floor drain (FD-1) -Maf: Zurn -Model: FD1	8	0%	8	EA	2.500	20.00	Plumber	\$ 46.1	\$ 922.0	\$ 125.0	1000	\$ 1,922	
74			DIV-22	Roof drain (RD-1) -Maf: Zurn -Model: Z-100 W\ Stainer	3	0%	3	EA	2.500	7.50	Plumber	\$ 46.1	\$ 345.8	\$ 125.0	375	\$ 721	
				Gas													
				Gas Pipes													
75			DIV-22	3/4" gas pipe	766	5%	804	LF	0.073	58.71	Plumber	\$ 46.1	\$ 2,706.4	\$ 3.9	3136.3605	\$ 5,843	
76			DIV-22	1" Gas pipe	204	5%	214	LF	0.103	22.04	Plumber	\$ 46.1	\$ 1,015.9	\$ 6.8	1454.9178	\$ 2,471	
				Note: Pipe Material is black steel, Schedule 40													
				Plumbing Fixtures													

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77			DIV-22	Bath tub (BT-1) -Manu: Sterling -Model: 71121112	315	0%	315	EA	6.250	1,968.75	Plumber	\$ 46.1	\$ 90,759.4	\$ 1,235.3	389103.75	\$ 479,863	
78			DIV-22	Ice maker box w\ hammer arrestor (IMB) -Manu: Specialty Product -Model: OBFOS-211	411	0%	411	EA	3.750	1,541.25	Plumber	\$ 46.1	\$ 71,051.6	\$ 175.3	72027.75	\$ 143,079	
79			DIV-22	Kitchen sink (KS-1) -Manu: Hydrapro -Model: SSSUSB31189	315	0%	315	EA	5.890	1,855.35	Plumber	\$ 46.1	\$ 85,531.6	\$ 1,280.2	403247.25	\$ 488,779	
80			DIV-22	Lavatory (L-1) -Manu: Kohler -Model: K-1724	111	0%	111	EA	4.890	542.79	Plumber	\$ 46.1	\$ 25,022.6	\$ 666.3	73959.3	\$ 98,982	
81			DIV-22	Lavatory (L-2) -Manu: Kohler -Model: K-3894-4-NA	4	0%	4	EA	4.890	19.56	Plumber	\$ 46.1	\$ 901.7	\$ 666.3	2665.2	\$ 3,567	
82			DIV-22	Lavatory (L-3) -Manu: Kohler -Model: TBD	802	0%	802	EA	4.890	3,921.78	Plumber	\$ 46.1	\$ 180,794.1	\$ 666.3	534372.6	\$ 715,167	
83			DIV-22	Mop Sink (MS-1) -Manu: Flat -Model: TSB-500	1	0%	1	EA	4.500	4.50	Plumber	\$ 46.1	\$ 207.5	\$ 1,209.7	1209.7	\$ 1,417	
84			DIV-22	Shower hub drain (SH-1) -Manu: Zurn -Model: FD	305	0%	305	EA	1.500	457.50	Plumber	\$ 46.1	\$ 21,090.8	\$ 49.9	15219.5	\$ 36,310	
85			DIV-22	Shower hub drain (SH-2) -Manu: Zurn -Model: FD	2	0%	2	EA	1.500	3.00	Plumber	\$ 46.1	\$ 138.3	\$ 49.9	99.8	\$ 238	
86			DIV-22	Urinal (UR-1) -Manu: Kohler -Model: K-5244-ET	2	0%	2	EA	4.150	8.30	Plumber	\$ 46.1	\$ 382.6	\$ 544.4	1088.8	\$ 1,471	
87			DIV-22	Water closet (WC-1) -Manu: Kohler -Model: K-25087-0	512	0%	512	EA	5.890	3,015.68	Plumber	\$ 46.1	\$ 139,022.8	\$ 575.0	294400	\$ 433,423	
88			DIV-22	Water closet (WC-2) -Manu: Kohler -Model: K-96053	4	0%	4	EA	5.890	23.56	Plumber	\$ 46.1	\$ 1,086.1	\$ 875.0	3500	\$ 4,586	
89			DIV-22	Water closet (WC-2A) -Manu: Kohler -Model: K-96057	4	0%	4	EA	5.890	23.56	Plumber	\$ 46.1	\$ 1,086.1	\$ 875.0	3500	\$ 4,586	
90			DIV-22	Water closet (WC-3) -Manu: Kohler -Model: K-25087-0	1	0%	1	EA	5.890	5.89	Plumber	\$ 46.1	\$ 271.5	\$ 875.0	875	\$ 1,147	
91			DIV-22	Water closet (WC-3A) -Manu: Kohler -Model: K-25077	4	0%	4	EA	5.890	23.56	Plumber	\$ 46.1	\$ 1,086.1	\$ 875.0	3500	\$ 4,586	
92			DIV-22	Fire rated washing machine box (WMB) -Manu: Specialty Products -Model: OBFOS-101	315	0%	315	EA	2.500	787.50	Plumber	\$ 46.1	\$ 36,303.8	\$ 189.5	59692.5	\$ 95,996	
93			DIV-22	Trap primer (TP-1) -Manu: Precision plumbing product -Model: LTP-1500	323	0%	323	EA	3.150	1,017.45	Plumber	\$ 46.1	\$ 46,904.4	\$ 150.1	48488.76	\$ 95,393	
94			DIV-22	Trap primer (TP-2) -Manu: Precision plumbing product -Model: MP-500	1	0%	1	EA	3.150	3.15	Plumber	\$ 46.1	\$ 145.2	\$ 150.1	150.12	\$ 295	
				Plumbing Equipments													
				Booster Pump													
95			DIV-22	Water booster pump (BP-1) -Manu: Grundfos -Model: MPC-E 5 CRE 20-3	1	0%	1	EA	10.000	10.00	Plumber	\$ 46.1	\$ 461.0	\$ 1,750.2	1750.2	\$ 2,211	
				Cartridge Circulator													
96			DIV-22	CP-1-1 -Manu: Taco -Model: 0010	1	0%	1	EA	2.500	2.50	Plumber	\$ 46.1	\$ 115.3	\$ 191.9	191.9	\$ 307	
97			DIV-22	CP-1-2 -Manu: Taco -Model: 0010	1	0%	1	EA	2.500	2.50	Plumber	\$ 46.1	\$ 115.3	\$ 191.9	191.9	\$ 307	
98			DIV-22	CP-1-3 -Manu: Taco -Model: 0010	1	0%	1	EA	2.500	2.50	Plumber	\$ 46.1	\$ 115.3	\$ 191.9	191.9	\$ 307	
				Electric water heater													
99			DIV-22	EWH-1 -Manu: AO Smith -Model: ENLB-40	56	0%	56	EA	5.600	313.60	Plumber	\$ 46.1	\$ 14,457.0	\$ 759.0	42503.44	\$ 56,960	
100			DIV-22	EWH-2 -Manu: AO Smith -Model: ENLB-50	305	0%	305	EA	6.500	1,982.50	Plumber	\$ 46.1	\$ 91,393.3	\$ 930.0	283646.95	\$ 375,040	
101			DIV-22	EWH-3-3 -Manu: AO Smith -Model: ENLB-30	1	0%	1	EA	4.800	4.80	Plumber	\$ 46.1	\$ 221.3	\$ 738.3	738.32	\$ 960	
102			DIV-22	EWH-4-1 -Manu: AO Smith -Model: HPTS-50	1	0%	1	EA	6.500	6.50	Plumber	\$ 46.1	\$ 299.7	\$ 1,930.0	1929.99	\$ 2,230	

ITEM #	REF. SHEET	DETAIL	CSI SECT	DESCRIPTION	QTY.	WASTAGE	QTY WITH WASTAGE	UNIT	UNIT LABOR HOURS	TOTAL LABOR HOURS	Contractor Type	PER HOUR LABOR RATE	TOTAL LABOR COST	UNIT MATERIAL COST	TOTAL MATERIAL COST	ITEM COST	TRADE COST
103			DIV-22	EWH-4-2 -Manu: AO Smith -Model: HPTS-50	1	0%	1	EA	6.500	6.50	Plumber	\$ 46.1	\$ 299.7	\$ 1,930.0	1929.99	\$ 2,230	
104			DIV-22	EWH-5-1 -Manu: Eemax -Model: AM007240-T	1	0%	1	EA	4.000	4.00	Plumber	\$ 46.1	\$ 184.4	\$ 652.1	652.13	\$ 837	
105			DIV-22	EWH-5-2 -Manu: Eemax -Model: AM007240-T	1	0%	1	EA	4.000	4.00	Plumber	\$ 46.1	\$ 184.4	\$ 652.1	652.13	\$ 837	
106			DIV-22	EWH-5-3 -Manu: Eemax -Model: AM007240-T	1	0%	1	EA	4.000	4.00	Plumber	\$ 46.1	\$ 184.4	\$ 652.1	652.13	\$ 837	
107			DIV-22	EWH-5-4 -Manu: Eemax -Model: AM007240-T	1	0%	1	EA	4.000	4.00	Plumber	\$ 46.1	\$ 184.4	\$ 652.1	652.13	\$ 837	
				Electric water cooler													
108			DIV-22	EW-C-1 -Manu: Elkay -Model: ERFP28K	2	0%	2	EA	7.150	14.30	Plumber	\$ 46.1	\$ 659.2	\$ 4,748.0	9496	\$ 10,155	
109			DIV-22	EW-C-2 -Manu: Elkay -Model: ERFP28K	1	0%	1	EA	7.150	7.15	Plumber	\$ 46.1	\$ 329.6	\$ 4,748.0	4748	\$ 5,078	
				Misc.													
110			DIV-22	Expansion Tank	364	0%	364	EA	3.500	1,274.00	Plumber	\$ 46.1	\$ 58,731.4	\$ 450.0	163800	\$ 222,531	
111			DIV-22	Lowboy-style tank	4	0%	4	EA	3.500	14.00	Plumber	\$ 46.1	\$ 645.4	\$ 350.0	1400	\$ 2,045	
112			DIV-22	2" H plastic safe pan	368	0%	368	EA	0.250	92.00	Plumber	\$ 46.1	\$ 4,241.2	\$ 11.5	4232	\$ 8,473	
113			DIV-22	Water meter with electric water heater	368	0%	368	EA	10.000	3,680.00	Plumber	\$ 46.1	\$ 169,648.0	\$ 350.0	128800	\$ 298,448	
SUB TOTAL									Total Lab. Hours =	\$ 48,079		Total Lab. Cost =	\$ 2,216,454	Total Mat. Cost =	\$ 4,439,627	\$ 6,656,081	\$ 6,656,081
MATERIAL TAX												9.5%			\$ 421,765	\$ 421,765	\$ 421,765
OVERHEAD AND PROFIT												25%	\$ 554,114		\$ 1,109,907	\$ 1,664,020	\$ 1,664,020
TOTAL BASE BID													\$ 2,770,568		\$ 5,971,298	\$ 8,741,866	\$ 8,741,866

1 UNIT B1P - DOMESTIC PLAN
SCALE: 1/4" = 1'-0"

3 UNIT B1BP - DOMESTIC PLAN
SCALE: 1/4" = 1'-0"

2 UNIT B1P - SANITARY PLAN
SCALE: 1/4" = 1'-0"

4 UNIT B1BP - SANITARY PLAN
SCALE: 1/4" = 1'-0"

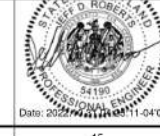
- GENERAL PLAN NOTES:
- REFER TO PLUMBING FIXTURE SCHEDULE FOR DOMESTIC WATER AND SANITARY WASTE/VENT FIXTURE PIPE RUNNOUTS.
- PROVIDE TRAP PRIMER OR TRAP SEAL PREVENTION DEVICE APPROVED BY THE AHJ FOR HUB DRAINS THAT ARE SUBJECT TO EVAPORATION AND DO NOT RECEIVE PERIODIC DISCHARGE.
- SANITARY BATHROOM ROUTING IS TO KEEP THE WATER CLOSET AS THE LAST FIXTURE CONNECTED INTO SANITARY BRANCH BEFORE CONNECTING TO RISER.
- PROVIDE ALL REQUIRED CONNECTIONS FOR DISHWASHER, GARBAGE DISPOSAL, AND KITCHEN SINK PER MANUFACTURER'S REQUIREMENTS.
- HAVE A SHUT OFF VALVE FOR EACH UNIT.
- REFER TO PLUMBING FIXTURE SCHEDULE FOR DOMESTIC WATER AND SANITARY WASTE/VENT FIXTURE PIPE RUNNOUTS.
- KEYED NOTE:
- 1 BATHROOM P.O.51 FOR EACH UNIT.
 - 2 VENT RISER.
 - 3 CW RISER, SHUT OFF VALVE FOR EACH UNIT.
 - 4 DISHWASHER.
 - 5 STORM RISE PROVIDE CL GROUND LEVEL.
 - 6 KITCHEN SINK P.O.51 FOR EACH UNIT.
 - 7 WASHER BOX P.O.51 FOR EACH UNIT.
 - 8 DRYER VENT.
 - 9 1/2" CW AND PLUMBING F.

2" S	23.1 FT
2" V	22.2 FT
3" S	11.8 FT
1-1/2" S	4.0 FT
2" ST	1.0 EA
HD-1:Hub Drain with Trap Pri...	0.9 FT
WC-1-Water Closet, Flush Valve	1.0 EA
L-3: Lavatory	1.0 EA
WMB-Washing Machine Box	3.0 EA
KS-1:Kitchen Sink	1.0 EA
SH-1-Shower	1.0 EA
3/4" CW	1.0 EA
3/4" HW	45.5 FT
1/2" CW	45.6 FT
EWB-2-Electric Water Heater	34.1 FT
IMB-Ice Maker Valve Box	1.0 EA
1/2" HW	1.0 EA
3/4" Dia -90° Elbow	27.4 FT
1/2" Dia -90° Elbow	19.0 EA
1/2" Dia -Tee	13.0 EA
3/4" Dia -Tee	7.0 EA
3/4" to 1/2" Dia -Tee	7.0 EA
Shutt Off Valve,PRV,1"Water ...	2.0 EA
2" Dia Elbow	1.0 EA
2" Dia Elbow	10.0 EA
1-1/2" Dia Elbow	10.0 EA
2" Dia Tee -Wye	3.0 EA
3" Dia Tee -Wye	2.0 EA
	2.0 EA

LORD
AECK
SARGENT

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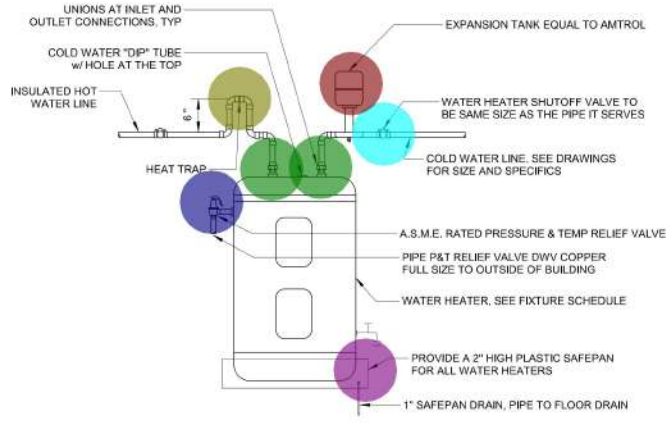
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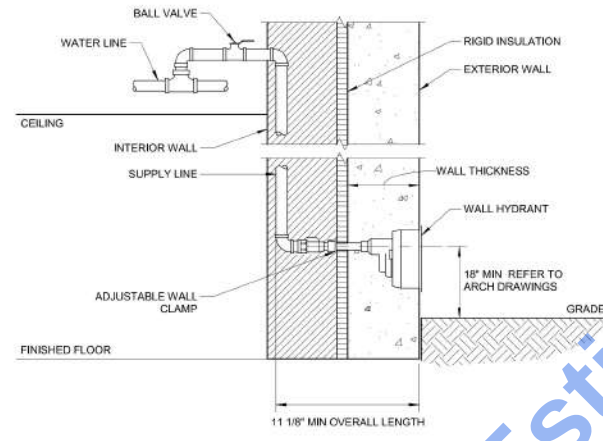
JOB NO.
11654-00
DWG NO.
P173

- Shutt Off Valve
- Expansion Tank Equal to AMTROL
- 3/4" Dia Unions
- 3/4" Dia Heat Trap
- ASME Rated Pressure & Temperature Relief Valve
- 2" High Plastic Safepan For Water Heater

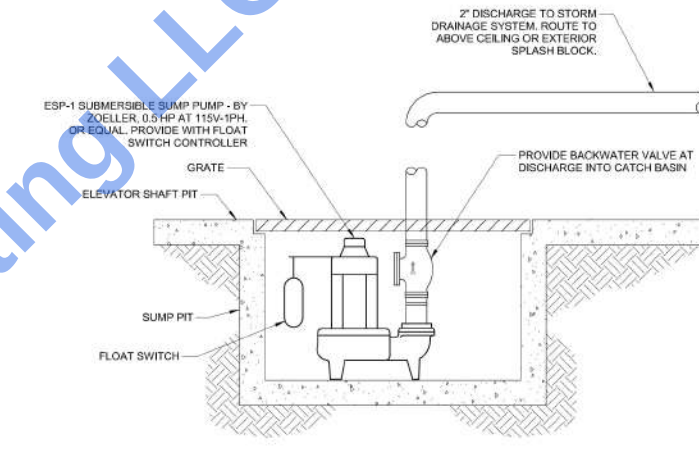
- 1.0 EA
- 1.0 EA
- 2.0 EA
- 1.0 EA
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- 1.0 EA



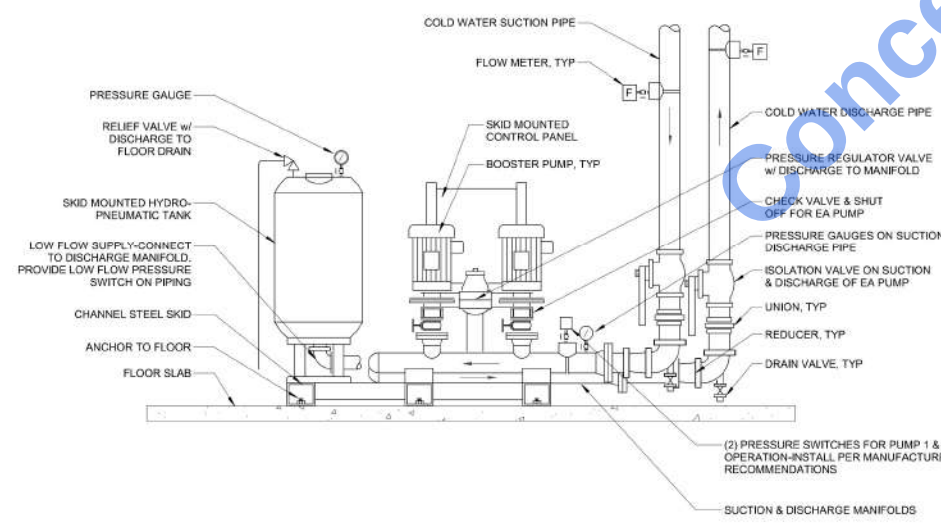
5 WATER HEATER PIPING DETAIL
P301 SCALE: NTS



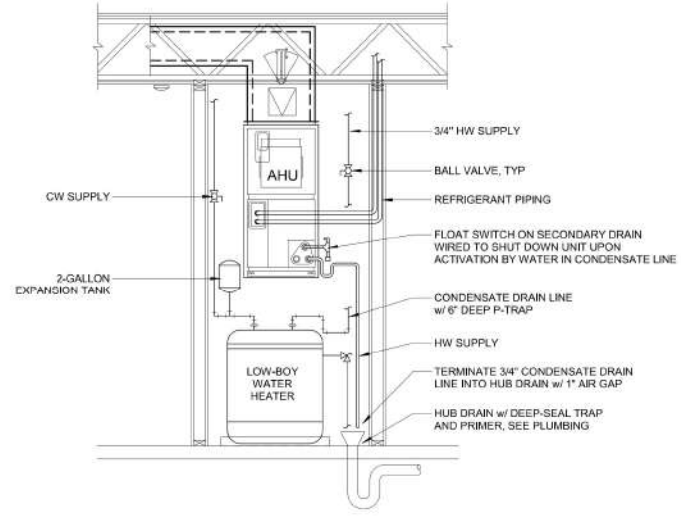
4 WALL HYDRANT PIPING DETAIL
P301 SCALE: NTS



3 ELEVATOR PIT SUMP PUMP DIAGRAM
P301 SCALE: NTS



2 DOMESTIC WATER PRESSURE BOOSTER DETAIL
P301 SCALE: NTS



1 HVAC-MECHANICAL CLOSET DETAIL 2
P301 SCALE: 1/4" = 1'-0"

Professional Certification, I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 94196, Expiration Date: 2023-04-11.



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11/01/2022
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