

EST NUMBER: WEB15400
RUN DATE.: 08/05/09 08:46am
DATA DATE.: SEPT 2009

MECHANICAL PLUMBING ESTIMATE
ANYTOWN, ANYWHERE
ESTIMATE SUMMARY

PREPARED FOR: ALL OF OUR CLIENTS
PREPARED BY.: TEMPEST COMPANY
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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
SITE	3,592.1	194,292	98,510	0	122,220	415,022
TUNNEL	2,295.6	124,165	118,708	0	15,940	258,813
AREA A	27,117.8	1,466,360	520,844	0	165,814	2,153,018
*** TOTAL ESTIMATED COST ***	33,005.5	1,784,817	738,062	0	303,974	2,826,853

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SITE SUMMARY - SITE

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
MECHANICAL	3,592.1	194,292	98,510	0	122,220	415,022
*** SITE ESTIMATED COST ***	3,592.1	194,292	98,510	0	122,220	415,022

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
PLUMBING	3,592.1	194,292	98,510	0	122,220	415,022
*** MECHANICAL ESTIMATED COST ***	3,592.1	194,292	98,510	0	122,220	415,022

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
GROUND HYDRANT WATER SYSTEM	148.0	8,005	4,006	0	29,880	41,891
DOMESTIC WATER SYSTEM	353.8	19,136	16,927	0	16,080	52,143
SANITARY SEWER	171.0	9,249	3,959	0	5,820	19,028
FORCE MAIN	1,693.5	91,600	7,872	0	19,200	118,672
FIRE WATER SYSTEM	949.1	51,337	51,557	0	39,600	142,494
SPRINKLER WATER SYSTEM	220.3	11,916	9,172	0	11,640	32,728
SPRINKLER VAULT	56.4	3,049	5,017	0	0	8,066
*** PLUMBING ESTIMATED COST ***	3,592.1	194,292	98,510	0	122,220	415,022

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
GROUND HYDRANT WATER SYSTEM													
1/2" Pipe Polyethylene 225 PSI SDR 7.3 Plain End	40	Lin Ft	0.05	2.0	54.09	108	0.42	17	0	0	0	0	125
3/4" Pipe Polyethylene 225 PSI SDR 7.3 Plain End	520	Lin Ft	0.06	31.2	54.09	1,688	0.49	255	0	0	0	0	1,943
1" Pipe Polyethylene 225 PSI SDR 7.3 Plain End	330	Lin Ft	0.07	23.1	54.09	1,249	0.64	211	0	0	0	0	1,460
2" Pipe Polyethylene 225 PSI SDR 7.3 Plain End	1,600	Lin Ft	0.036	57.6	54.09	3,116	1.445	2,312	0	0	0	0	5,428
2" 90 Degree Ell Polyethylene Fusion Weld 100 PSI SDR 17	1	Each	0.6	0.6	54.09	32	26.74	27	0	0	0	0	59
3/4" 45 Degree Ell Polyethylene Fusion Weld 100 PSI SDR 17	4	Each	0.3	1.2	54.09	65	4.2	17	0	0	0	0	82
2" 45 Degree Ell Polyethylene Fusion Weld 100 PSI SDR 17	11	Each	0.6	6.6	54.09	357	31.77	349	0	0	0	0	706
2" Tee Polyethylene Fusion Welded 100 PSI SDR 17	1	Each	0.7	0.7	54.09	38	39.49	39	0	0	0	0	77
1" x 3/4" Reducing Tee Polyethylene Fusion Weld 100 PSI SDR 17	1	Each	0.35	0.4	54.09	22	6.3	6	0	0	0	0	28
1" x 1/2" Reducing Tee Polyethylene Fusion Weld 100 PSI SDR 17	1	Each	0.35	0.4	54.09	22	4.9	5	0	0	0	0	27
2" x 1" Reducing Tee Polyethylene Fusion Weld 100 PSI SDR 17	6	Each	0.7	4.2	54.09	227	39.49	237	0	0	0	0	464
2" x 3/4" Reducing Tee Polyethylene Fusion Weld 100 PSI SDR 17	1	Each	0.7	0.7	54.09	38	28.21	28	0	0	0	0	66
1" x 3/4" Concentric Reducer Polyethylene Fusion Weld 100 PSI SDR 17	2	Each	0.3	0.6	54.09	32	4.9	10	0	0	0	0	42
2" x 1" Concentric Reducer Polyethylene Fusion Weld 100 PSI SDR 17	2	Each	0.6	1.2	54.09	65	39.49	79	0	0	0	0	144
1/2" Adapter to Male SPS Polyethylene Schedule 40	1	Each	0.25	0.3	54.09	16	3.5	4	0	0	0	0	20
3/4" Adapter to Male SPS Polyethylene Schedule 40	4	Each	0.3	1.2	54.09	65	4.9	20	0	0	0	0	85
Excavation & Backfill	2,490	Lin Ft	0	0.0	0	0	0	0	0	0	12	29,880	29,880
3/4" Yard Hydrant	9	Each	1.5	13.5	54.09	730	30	270	0	0	0	0	1,000
2" Curb Stop	1	Each	1.5	1.5	54.09	81	70	70	0	0	0	0	151
2" Curb Box	1	Each	1	1.0	54.09	54	50	50	0	0	0	0	104
*** GROUND HYDRANT WATER SYSTEM ESTIMATED COST ***				148.0		8,005		4,006		0		29,880	41,891
DOMESTIC WATER SYSTEM													
6" Pipe Ductile Iron Cement Lined Standard Weight Mechanical Joint	980	Lin Ft	0.21	205.8	54.09	11,132	9.1	8,918	0	0	0	0	20,050
8" Pipe Ductile Iron Cement Lined Standard Weight Mechanical Joint	360	Lin Ft	0.23	82.8	54.09	4,479	11.77	4,237	0	0	0	0	8,716
6" 90 Degree Ell Cast Iron Cement Lined 125# Mechanical Joint w/Gaskets	2	Each	2	4.0	54.09	216	44.25	89	0	0	0	0	305
8" 45 Degree Ell Cast Iron Cement Lined 125# Mechanical Joint w/Gaskets	1	Each	2.73	2.7	54.09	146	58.468	58	0	0	0	0	204
6" Tee Cast Iron Cement Lined 125# Mechanical Joint w/Gaskets	1	Each	3.71	3.7	54.09	200	44.08	44	0	0	0	0	244

DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
6" x 3" Reducing Tee Cast Iron Cement Lined 125# Mechanical Joint w/Gaskets	1	Each	2.93	2.9	54.09	157	52.37	52	0	0	0	0	209
8" x 6" Reducing Tee Cast Iron Cement Lined 125# Mechanical Joint w/Gaskets	1	Each	4.3	4.3	54.09	233	81.61	82	0	0	0	0	315
8" x 3" Reducing Wye Cast Iron Cement Lined 125# Mechanical Joint w/Gaskets	1	Each	3.62	3.6	54.09	195	126	126	0	0	0	0	321
3" Cap Cast Iron Cement Lined 125# Mechanical Joint w/Gaskets	1	Each	0.57	0.6	54.09	32	6.5	7	0	0	0	0	39
8" Plug Cast Iron Cement Lined 125# Mechanical Joint w/Gaskets	1	Each	1.11	1.1	54.09	59	18.2	18	0	0	0	0	77
6" Gate Valve Mechanical Joint	2	Each	6.17	12.3	54.09	665	508	1,016	0	0	0	0	1,681
Excavation & Backfill	1,340	Lin Ft	0	0.0	0	0	0	0	0	0	12	16,080	16,080
3" Kicker	3	Each	2	6.0	54.09	325	75	225	0	0	0	0	550
8" Kicker	4	Each	3.5	14.0	54.09	757	1.25	5	0	0	0	0	762
6" Valve Box	2	Each	2.5	5.0	54.09	270	125	250	0	0	0	0	520
6" Fire Hydrant	1	Each	5	5.0	54.09	270	1,800	1,800	0	0	0	0	2,070
*** DOMESTIC WATER SYSTEM ESTIMATED COST ***				353.8		19,136		16,927		0		16,080	52,143
SANITARY SEWER													
12" PVC Pipe-DWV Schedule 40 Plain End	285	Lin Ft	0.6	171.0	54.09	9,249	13.89	3,959	0	0	0	0	13,208
Excavation & Backfill	285	Lin Ft	0	0.0	0	0	0	0	0	0	12	3,420	3,420
Manhole 48" x 5'0"	2	Each	0	0.0	0	0	0	0	0	0	1,200	2,400	2,400
*** SANITARY SEWER ESTIMATED COST ***				171.0		9,249		3,959		0		5,820	19,028
FORCE MAIN													
4" Pipe PVC - DWV SDR 21 Plain End	3,090	Lin Ft	0.54	1,668.6	54.09	90,255	2.38	7,354	0	0	0	0	97,609
4" Long Sweep Bend PVC Solvent Weld Standard Weight	1	Each	0.84	0.8	54.09	43	8.586	9	0	0	0	0	52
4" 1/8 Bend PVC Solvent Weld Standard Weight	6	Each	0.84	5.0	54.09	270	5.3685	32	0	0	0	0	302
4" Plug PVC Screwed Standard Weight	1	Each	0.05	0.1	54.09	5	1.899	2	0	0	0	0	7
Excavation & Backfill	1,600	Lin Ft	0	0.0	0	0	0	0	0	0	12	19,200	19,200
4" Connect Existing	2	Each	2	4.0	54.09	216	50	100	0	0	0	0	316
4" Kicker	5	Each	3	15.0	54.09	811	75	375	0	0	0	0	1,186
*** FORCE MAIN ESTIMATED COST ***				1,693.5		91,600		7,872		0		19,200	118,672

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FIRE WATER SYSTEM													
6" Pipe Ductile Iron Cement Lined Standard Weight Mechanical Joint	30	Lin Ft	0.21	6.3	54.09	341	9.1	273	0	0	0	0	614
8" Pipe Ductile Iron Cement Lined Standard Weight Mechanical Joint	3,300	Lin Ft	0.23	759.0	54.09	41,054	11.77	38,841	0	0	0	0	79,895
8" 90 Degree Ell Cast Iron Cement Lined 125# Mechanical Joint w/Gaskets	2	Each	2.12	4.2	54.09	227	64.57	129	0	0	0	0	356
8" 45 Degree Ell Cast Iron Cement Lined 125# Mechanical Joint w/Gaskets	4	Each	2.73	10.9	54.09	590	58.468	234	0	0	0	0	824
8" Tee Cast Iron Cement Lined 125# Mechanical Joint w/Gaskets	2	Each	4.15	8.3	54.09	449	88.1	176	0	0	0	0	625
8" x 6" Reducing Tee Cast Iron Cement Lined 125# Mechanical Joint w/Gaskets	5	Each	4.3	21.5	54.09	1,163	81.61	408	0	0	0	0	1,571
8" Cap Cast Iron Cement Lined 125# Mechanical Joint w/Gaskets	1	Each	1.11	1.1	54.09	59	17.86	18	0	0	0	0	77
6" Gate Valve Mechanical Joint	3	Each	6.17	18.5	54.09	1,001	508	1,524	0	0	0	0	2,525
8" Gate Valve Mechanical Joint	2	Each	8.4	16.8	54.09	909	4.27	9	0	0	0	0	918
Excavation & Backfill	3,300	Lin Ft	0	0.0	0	0	0	0	0	0	12	39,600	39,600
6" Kicker	3	Each	3	9.0	54.09	487	100	300	0	0	0	0	787
8" Kicker	16	Each	3.5	56.0	54.09	3,029	1.25	20	0	0	0	0	3,049
6" Valve Box	3	Each	2.5	7.5	54.09	406	125	375	0	0	0	0	781
6" Fire Hydrant	5	Each	5	25.0	54.09	1,352	1,800	9,000	0	0	0	0	10,352
8" Valve Box	2	Each	2.5	5.0	54.09	270	125	250	0	0	0	0	520
*** FIRE WATER SYSTEM ESTIMATED COST ***				949.1		51,337		51,557		0		39,600	142,494
SPRINKLER WATER SYSTEM													
6" Pipe Ductile Iron Cement Lined Standard Weight Mechanical Joint	970	Lin Ft	0.21	203.7	54.09	11,018	9.1	8,827	0	0	0	0	19,845
6" 90 Degree Ell Cast Iron Cement Lined 125# Mechanical Joint w/Gaskets	1	Each	2	2.0	54.09	108	44.25	44	0	0	0	0	152
6" 45 Degree Ell Cast Iron Cement Lined 125# Mechanical Joint w/Gaskets	2	Each	2.43	4.9	54.09	265	28.422	57	0	0	0	0	322
6" Tee Cast Iron Cement Lined 125# Mechanical Joint w/Gaskets	1	Each	3.71	3.7	54.09	200	44.08	44	0	0	0	0	244
Excavation & Backfill	970	Lin Ft	0	0.0	0	0	0	0	0	0	12	11,640	11,640
6" Kicker	2	Each	3	6.0	54.09	325	100	200	0	0	0	0	525
*** SPRINKLER WATER SYSTEM ESTIMATED COST ***				220.3		11,916		9,172		0		11,640	32,728

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SPRINKLER VAULT													
6" Pipe Ductile Iron Cement Lined	1	Each	2.18	2.2	54.09	119	430.95	431	0	0	0	0	550
1'-0" Long Class 53 Flange x Flange													
6" Pipe Ductile Iron Cement Lined	2	Each	2.48	5.0	54.09	270	487.73	975	0	0	0	0	1,245
2'-0" Long Class 53 Flange x Flange													
6" Pipe Ductile Iron Cement Lined	2	Each	2.68	5.4	54.09	292	527.41	1,055	0	0	0	0	1,347
6'-0" Long Class 53 Flange x Plain End													
6" Pipe Ductile Iron Cement Lined	1	Each	3.3	3.3	54.09	178	707.66	708	0	0	0	0	886
6'-0" Long Class 53 Flange x Plain End													
6" 90 Degree Ell Cast Iron Cement Lined	1	Each	1.91	1.9	54.09	103	55.51	56	0	0	0	0	159
125# Flanged													
8" x 6" Concentric Reducer Cast Iron	1	Each	2.18	2.2	54.09	119	64.36	64	0	0	0	0	183
Cement Lined 125# Flanged													
6" Check Valve Cast Iron 150# Flanged	2	Each	2.65	5.3	54.09	287	462.25	925	0	0	0	0	1,212
6" 150# BN&G Set A193-B7 Studs,	11	Each	1.25	13.8	54.09	746	16.6	183	0	0	0	0	929
A194-2H Nuts & 1/16" Composition Gasket													
8" 150# BN&G Set A193-B7 Studs,	1	Each	1.25	1.3	54.09	70	20.1	20	0	0	0	0	90
A194-2H Nuts & 1/16" Composition Gasket													
6" Post Ind. Valve	1	Each	5	5.0	54.09	270	400	400	0	0	0	0	670
6" Wall Sleeve	3	Each	2	6.0	54.09	325	30	90	0	0	0	0	415
8" Wall Sleeve	1	Each	2	2.0	54.09	108	30	30	0	0	0	0	138
6" Fire Department Connector	1	Each	3	3.0	54.09	162	80	80	0	0	0	0	242
*** SPRINKLER VAULT ESTIMATED COST ***				56.4		3,049		5,017		0		0	8,066

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
MECHANICAL	2,295.6	124,165	118,708	0	15,940	258,813
*** TUNNEL ESTIMATED COST ***	2,295.6	124,165	118,708	0	15,940	258,813

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
PLUMBING	2,295.6	124,165	118,708	0	15,940	258,813
*** MECHANICAL ESTIMATED COST ***	2,295.6	124,165	118,708	0	15,940	258,813

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
PLUMBING FIXTURES AND EQUIPMENT	58.5	3,164	1,030	0	100	4,294
DOMESTIC WATER SYSTEM	1,355.7	73,326	81,225	0	0	154,551
UNDERGROUND DRAIN, WASTE & VENT SYSTEM	881.4	47,675	36,453	0	15,840	99,968
*** PLUMBING ESTIMATED COST ***	2,295.6	124,165	118,708	0	15,940	258,813

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PLUMBING FIXTURES AND EQUIPMENT													
6" Water Meter	1	Each	4	4.0	54.09	216	0	0	0	0	0	0	216
Concrete Support Pad	1	Each	0	0.0	0	0	0	0	0	0	100	100	100
3/4" HB1 Hose Bibb	6	Each	1	6.0	54.09	325	0	0	0	0	0	0	325
2" Expansion Joint	7	Each	1	7.0	54.09	379	75	525	0	0	0	0	904
4" Expansion Joint	4	Each	1.5	6.0	54.09	325	100	400	0	0	0	0	725
1 1/4" Expansion Joint	3	Each	1	3.0	54.09	162	35	105	0	0	0	0	267
2" FD2 Floor Drain	10	Each	1.5	15.0	54.09	811	0	0	0	0	0	0	811
4" FCO1 Floor Clean Out	9	Each	1.5	13.5	54.09	730	0	0	0	0	0	0	730
Water Filters	2	Each	2	4.0	54.09	216	0	0	0	0	0	0	216
*** PLUMBING FIXTURES AND EQUIPMENT ESTIMATED COST ***				58.5		3,164		1,030		0		100	4,294
DOMESTIC WATER SYSTEM													
1/2" Pipe Copper B-88 Type K Hard	10	Lin Ft	0.06	0.6	54.09	32	1.64	16	0	0	0	0	48
3/4" Pipe Copper B-88 Type K Hard	40	Lin Ft	0.07	2.8	54.09	151	3.045	122	0	0	0	0	273
1 1/4" Pipe Copper B-88 Type K Hard	172	Lin Ft	0.08	13.8	54.09	746	4.935	849	0	0	0	0	1,595
2" Pipe Copper B-88 Type K Hard	624	Lin Ft	0.09	56.2	54.09	3,040	9.94	6,203	0	0	0	0	9,243
2 1/2" Pipe Copper B-88 Type L Hard Grooved End	5	Lin Ft	0.12	0.6	54.09	32	11.2	56	0	0	0	0	88
3" Pipe Copper B-88 Type L Hard Grooved End	20	Lin Ft	0.14	2.8	54.09	151	8.64	173	0	0	0	0	324
4" Pipe Copper B-88 Type L Hard Grooved End	1,202	Lin Ft	0.18	216.4	54.09	11,705	13.62	16,371	0	0	0	0	28,076
6" Pipe Copper B-88 Type L Hard Grooved End	572	Lin Ft	0.27	154.4	54.09	8,351	33.54	19,185	0	0	0	0	27,536
3/4" Pipe Copper B-88 Type L Hard	25	Lin Ft	0.06	1.5	54.09	81	1.825	46	0	0	0	0	127
1" Pipe Copper B-88 Type L Hard	20	Lin Ft	0.08	1.6	54.09	87	2.87	57	0	0	0	0	144
1 1/4" Pipe Copper B-88 Type L Hard	430	Lin Ft	0.08	34.4	54.09	1,861	4.03	1,733	0	0	0	0	3,594
2" Pipe Copper B-88 Type L Hard	880	Lin Ft	0.09	79.2	54.09	4,284	8.115	7,141	0	0	0	0	11,425
2 1/2" 90 Degree Ell Wrought Copper B-88 Grooved End	7	Each	0.83	5.8	54.09	314	31.75	222	0	0	0	0	536
3" 90 Degree Ell Wrought Copper B-88 Grooved End	8	Each	1	8.0	54.09	433	44.625	357	0	0	0	0	790
4" 90 Degree Ell Wrought Copper B-88 Grooved End	11	Each	1.33	14.6	54.09	790	103.375	1,137	0	0	0	0	1,927
6" 90 Degree Ell B-88 Wrought Copper Grooved End	2	Each	2.56	5.1	54.09	276	469.625	939	0	0	0	0	1,215

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MECHANICAL PLUMBING ESTIMATE
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 ESTIMATE DETAIL - TUNNEL

PREPARED FOR: ALL OF OUR CLIENTS
 PREPARED BY.: TEMPEST COMPANY
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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR MAN HOURS TOTAL	LABOR DOLLARS UNIT	LABOR DOLLARS TOTAL	MATERIAL DOLLARS UNIT	MATERIAL DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	TOTAL DOLLARS
3/4" 90 Degree Ell Wrought Copper B-88	11	Each	0.47	5.2	54.09	281	1.9278	21	0	0	0	0	302
1" 90 Degree Ell Wrought Copper B-88	6	Each	0.58	3.5	54.09	189	4.7292	28	0	0	0	0	217
1 1/4" 90 Degree Ell Wrought Copper B-88	4	Each	0.67	2.7	54.09	146	7.1442	29	0	0	0	0	175
2" 90 Degree Ell Wrought Copper B-88	40	Each	0.8	32.0	54.09	1,731	20.3154	813	0	0	0	0	2,544
4" 45 Degree Ell Wrought Copper B-88 Grooved End	1	Each	1.32	1.3	54.09	70	103.375	103	0	0	0	0	173
6" 45 Degree Ell Wrought Copper B-88 Grooved End	1	Each	2.45	2.5	54.09	135	469.625	470	0	0	0	0	605
1 1/4" 45 Degree Ell Wrought Copper B-88	1	Each	0.67	0.7	54.09	38	9.3744	9	0	0	0	0	47
2" 45 Degree Ell Wrought Copper B-88	2	Each	0.8	1.6	54.09	87	18.8496	38	0	0	0	0	125
2" Tee Wrought Copper B-88	9	Each	1.15	10.4	54.09	563	35.91	323	0	0	0	0	886
4" x 3" Reducing Tee Copper B-88 Grooved End	1	Each	1.85	1.9	54.09	103	64.02	64	0	0	0	0	167
4" x 2 1/2" Reducing Tee Copper B-88 Grooved End	2	Each	1.8	3.6	54.09	195	72.77	146	0	0	0	0	341
4" x 2 1/2" Reducing Tee Copper B-88 Grooved End	1	Each	1.75	1.8	54.09	97	64.02	64	0	0	0	0	161
4" x 3/4" Reducing Tee Copper B-88 Grooved End	2	Each	1.55	3.1	54.09	168	169.125	338	0	0	0	0	506
6" x 4" Reducing Tee Copper B-88 Grooved End	1	Each	3.2	3.2	54.09	173	239.71	240	0	0	0	0	413
6" x 3" Reducing Tee Copper B-88 Grooved End	4	Each	3.15	12.6	54.09	682	239.4	958	0	0	0	0	1,640
6" x 2" Reducing Tee Copper B-88 Grooved End	1	Each	3.05	3.1	54.09	168	239.71	240	0	0	0	0	408
6" x 1" Reducing Tee Copper B-88 Grooved End	3	Each	2.9	8.7	54.09	471	171	513	0	0	0	0	984
2" x 1" Reducing Tee Copper B-88	2	Each	1.17	2.3	54.09	124	14.24	28	0	0	0	0	152
2" x 3/4" Reducing Tee Copper B-88	1	Each	1.17	1.2	54.09	65	27.1236	27	0	0	0	0	92
2" x 1/2" Reducing Tee Copper B-88	4	Each	1.17	4.7	54.09	254	27.1236	108	0	0	0	0	362
2" Coupling Wrought Copper B-88	1	Each	0.84	0.8	54.09	43	10.2144	10	0	0	0	0	53
2" Union Wrought Copper B-88	4	Each	0.87	3.5	54.09	189	73.7268	295	0	0	0	0	484
2 1/2" Companion Flange Cast Copper	4	Each	0.7	2.8	54.09	151	107.8938	432	0	0	0	0	583
3" Companion Flange Cast Copper	6	Each	0.85	5.1	54.09	276	111.6696	670	0	0	0	0	946
4" Companion Flange Cast Copper	6	Each	1.1	6.6	54.09	357	155.7906	935	0	0	0	0	1,292
6" Companion Flange Cast Copper	6	Each	2.4	14.4	54.09	779	304.7898	1,829	0	0	0	0	2,608
1/2" Gate Valve Bronze 125# Solder	1	Each	0.29	0.3	54.09	16	4.71	5	0	0	0	0	21
1/2" Ball Valve Bronze 125# Solder	4	Each	0.25	1.0	54.09	54	5.1	20	0	0	0	0	74

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 PREPARED BY.: TEMPEST COMPANY
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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR MAN HOURS TOTAL	LABOR DOLLARS UNIT	LABOR DOLLARS TOTAL	MATERIAL DOLLARS UNIT	MATERIAL DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	TOTAL DOLLARS
3/4" Ball Valve Bronze 125# Solder	9	Each	0.19	1.7	54.09	92	11.36	102	0	0	0	0	194
1" Ball Valve Bronze 125# Solder	2	Each	0.5	1.0	54.09	54	11.1	22	0	0	0	0	76
1 1/4" Ball Valve Bronze 125# Solder	1	Each	0.93	0.9	54.09	49	24.5	25	0	0	0	0	74
2" Ball Valve Bronze 125# Solder	13	Each	1	13.0	54.09	703	56	728	0	0	0	0	1,431
2 1/2" Gate Valve IBBM 150# Flanged	2	Each	1.06	2.1	54.09	114	81.8	164	0	0	0	0	278
3" Gate Valve IBBM 150# Flanged	1	Each	1.19	1.2	54.09	65	90.05	90	0	0	0	0	155
4" Gate Valve IBBM 150# Flanged	1	Each	2.27	2.3	54.09	124	133.06	133	0	0	0	0	257
6" Gate Valve IBBM 150# Flanged	2	Each	3.14	6.3	54.09	341	403	806	0	0	0	0	1,147
6" Check Valve IBBM 150# Flanged	1	Each	2.65	2.7	54.09	146	350	350	0	0	0	0	496
2 1/2" Butterfly Valve IBBM 150# Flanged	1	Each	0.67	0.7	54.09	38	45.5	46	0	0	0	0	84
3" Butterfly Valve IBBM 150# Flanged	2	Each	0.67	1.3	54.09	70	64.02	128	0	0	0	0	198
4" Butterfly Valve IBBM 150# Flanged	2	Each	1.32	2.6	54.09	141	65.1	130	0	0	0	0	271
2 1/2" 125# BN&G Set A307 Machine Bolts w/Nuts & 1/16" Composition Gasket	4	Each	0.65	2.6	54.09	141	5.95	24	0	0	0	0	165
3" 125# BN&G Set A307 Machine Bolts w/Nuts & 1/16" Composition Gasket	6	Each	0.65	3.9	54.09	211	6.23	37	0	0	0	0	248
4" 125# BN&G Set A307 Machine Bolts w/Nuts & 1/16" Composition Gasket	6	Each	0.9	5.4	54.09	292	10.22	61	0	0	0	0	353
6" 125# BN&G Set A307 Machine Bolts w/Nuts & 1/16" Composition Gasket	6	Each	0.9	5.4	54.09	292	10.89	65	0	0	0	0	357
4" Pipe Anchor Copper Plated	5	Each	0.7	3.5	54.09	189	29.4	147	0	0	0	0	336
1 1/4" Pipe Anchor Copper Plated	5	Each	0.5	2.5	54.09	135	12.6	63	0	0	0	0	198
2" Pipe Anchor Copper Plated	11	Each	0.5	5.5	54.09	297	19.6	216	0	0	0	0	513
4" Pipe Guide Copper Plated	6	Each	0.7	4.2	54.09	227	28	168	0	0	0	0	395
1 1/4" Pipe Guide Copper Plated	4	Each	0.5	2.0	54.09	108	16.1	64	0	0	0	0	172
2" Pipe Guide Copper Plated	9	Each	0.5	4.5	54.09	243	21	189	0	0	0	0	432
3" Roller Hanger w/Insulated Shield Copper Plated	2	Each	0.9	1.8	54.09	97	33.6	67	0	0	0	0	164
4" Roller Hanger w/Insulated Shield Copper Plated	150	Each	1.21	181.5	54.09	9,817	26	3,900	0	0	0	0	13,717
6" Roller Hanger w/Insulated Shield Copper Plated	70	Each	1.27	88.9	54.09	4,809	39.2	2,744	0	0	0	0	7,553
1/2" Roller Hanger w/Insulated Shield Copper Plated	1	Each	0.95	1.0	54.09	54	14	14	0	0	0	0	68
3/4" Roller Hanger w/Insulated Shield Copper Plated	9	Each	0.95	8.6	54.09	465	10	90	0	0	0	0	555
1" Roller Hanger w/Insulated Shield Copper Plated	2	Each	0.95	1.9	54.09	103	11	22	0	0	0	0	125

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 ESTIMATE DETAIL - TUNNEL

PREPARED FOR: ALL OF OUR CLIENTS
 PREPARED BY.: TEMPEST COMPANY
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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
1 1/4" Roller Hanger w/Insulated Shield Copper Plated	76	Each	0.95	72.2	54.09	3,905	17	1,292	0	0	0	0	5,197
2" Roller Hanger w/Insulated Shield Copper Plated	188	Each	0.95	178.6	54.09	9,660	30.8	5,790	0	0	0	0	15,450
Pressure Gauge	5	Each	1	5.0	54.09	270	30	150	0	0	0	0	420
6" Floor Pipe Support	1	Each	2.5	2.5	54.09	135	35	35	0	0	0	0	170
*** DOMESTIC WATER SYSTEM ESTIMATED COST ***				1,355.7		73,326		81,225		0		0	154,551
UNDERGROUND DRAIN, WASTE & VENT SYSTEM													
3" Soil Pipe Cast Iron Service Weight Hub Type	5	Lin Ft	0.18	0.9	54.09	49	4.7931	24	0	0	0	0	73
4" Soil Pipe Cast Iron Service Weight Hub Type	110	Lin Ft	0.23	25.3	54.09	1,368	6.2283	685	0	0	0	0	2,053
6" Soil Pipe Cast Iron Service Weight Hub Type	20	Lin Ft	0.32	6.4	54.09	346	10.7055	214	0	0	0	0	560
8" Soil Pipe Cast Iron Service Weight Hub Type	410	Lin Ft	0.44	180.4	54.09	9,758	16.6725	6,836	0	0	0	0	16,594
10" Soil Pipe Cast Iron Service Weight Hub Type	230	Lin Ft	0.57	131.1	54.09	7,091	27.7485	6,382	0	0	0	0	13,473
12" Soil Pipe Cast Iron Service Weight Hub Type	200	Lin Ft	0.63	126.0	54.09	6,815	40.3104	8,062	0	0	0	0	14,877
2" Soil Pipe Cast Iron Service Weight Hub Type	335	Lin Ft	0.14	46.9	54.09	2,537	3.4749	1,164	0	0	0	0	3,701
4" 1/4 Bend Cast Iron Service Weight Hub	16	Each	0.85	13.6	54.09	736	11.1	178	0	0	0	0	914
6" 1/4 Bend Cast Iron Service Weight Hub	1	Each	1.13	1.1	54.09	59	25.72	26	0	0	0	0	85
2" 1/4 Bend Cast Iron Service Weight Hub	28	Each	0.6	16.8	54.09	909	8.48	237	0	0	0	0	1,146
6" 1/8 Bend Cast Iron Hub Service Weight	1	Each	1.1	1.1	54.09	59	23.48	23	0	0	0	0	82
8" 1/8 Bend Cast Iron Hub Service Weight	1	Each	1.46	1.5	54.09	81	70.08	70	0	0	0	0	151
2" 1/8 Bend Cast Iron Hub Service Weight	3	Each	0.8	2.4	54.09	130	6.04	18	0	0	0	0	148
2" P Trap Cast Iron Hub Service Weight	10	Each	0.65	6.5	54.09	352	13.52	135	0	0	0	0	487
2" Tee Cast Iron Hub Service Weight	7	Each	0.77	5.4	54.09	292	11.88	83	0	0	0	0	375
8" x 4" Reducing Wye Cast Iron Hub Service Weight	1	Each	1.74	1.7	54.09	92	75.52	76	0	0	0	0	168
4" x 2" Reducing Combo Wye Cast Iron Hub Service Weight	6	Each	1.75	10.5	54.09	568	23	138	0	0	0	0	706
8" x 4" Reducing Combo Wye Cast Iron Hub Service Weight	8	Each	2.38	19.0	54.09	1,028	89.52	716	0	0	0	0	1,744
8" x 2" Reducing Combo Wye Cast Iron Hub Service Weight	2	Each	2.28	4.6	54.09	249	96.64	193	0	0	0	0	442
10" x 4" Reducing Combo Wye Cast Iron Hub Service Weight	6	Each	3.58	21.5	54.09	1,163	84	504	0	0	0	0	1,667
10" x 3" Reducing Combo Wye Cast Iron Hub Service Weight	1	Each	3.53	3.5	54.09	189	114.89	115	0	0	0	0	304
12" x 10" Reducing Combo Wye Cast Iron Hub Service Weight	1	Each	4.35	4.4	54.09	238	204.4	204	0	0	0	0	442

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 ESTIMATE DETAIL - TUNNEL

PREPARED FOR: ALL OF OUR CLIENTS
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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
12" x 6" Reducing Combo Wye Cast Iron Hub Service Weight	1	Each	4.25	4.3	54.09	233	15.75	16	0	0	0	0	249
12" x 4" Reducing Combo Wye Cast Iron Hub Service Weight	5	Each	4.15	20.8	54.09	1,125	14	70	0	0	0	0	1,195
10" x 8" Concentric Reducer Cast Iron Hub Service Weight	1	Each	1.4	1.4	54.09	76	61.44	61	0	0	0	0	137
12" x 4" Concentric Reducer Cast Iron Hub Service Weight	1	Each	1.47	1.5	54.09	81	89.28	89	0	0	0	0	170
Pipe Sleeve For 3" Pipe	4	Each	1	4.0	54.09	216	21	84	0	0	0	0	300
Pipe Sleeve For 4" Pipe	8	Each	1	8.0	54.09	433	28	224	0	0	0	0	657
Pipe Sleeve For 6" Pipe	1	Each	1	1.0	54.09	54	30	30	0	0	0	0	84
Pipe Sleeve For 2" Pipe	4	Each	1	4.0	54.09	216	18	72	0	0	0	0	288
3" Diameter Pipe Link Seal	4	Each	1	4.0	54.09	216	29.85	119	0	0	0	0	335
4" Diameter Pipe Link Seal	8	Each	1	8.0	54.09	433	45	360	0	0	0	0	793
6" Diameter Pipe Link Seal	1	Each	1	1.0	54.09	54	58.8	59	0	0	0	0	113
2" Diameter Pipe Link Seal	4	Each	1	4.0	54.09	216	24.75	99	0	0	0	0	315
4" Roller Hanger	12	Each	1.05	12.6	54.09	682	34.3	412	0	0	0	0	1,094
6" Roller Hanger	4	Each	1.11	4.4	54.09	238	40.74	163	0	0	0	0	401
8" Roller Hanger	52	Each	1.32	68.6	54.09	3,711	51.1	2,657	0	0	0	0	6,368
10" Roller Hanger	28	Each	1.32	37.0	54.09	2,001	89.88	2,517	0	0	0	0	4,518
12" Roller Hanger	25	Each	1.32	33.0	54.09	1,785	94.6	2,365	0	0	0	0	4,150
2" Roller Hanger	42	Each	0.79	33.2	54.09	1,796	23.17	973	0	0	0	0	2,769
Excavation & Backfill	1,320	Lin Ft	0	0.0	0	0	0	0	0	0	12	15,840	15,840
*** UNDERGROUND DRAIN, WASTE & VENT SYSTEM ESTIMATED COST ***				881.4			47,675		36,453		0	15,840	99,968

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MECHANICAL PLUMBING ESTIMATE
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AREA A SUMMARY - AREA A

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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
MECHANICAL	27,117.8	1,466,360	520,844	0	165,814	2,153,018
*** AREA A ESTIMATED COST ***	27,117.8	1,466,360	520,844	0	165,814	2,153,018

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MECHANICAL PLUMBING ESTIMATE
ANYTOWN, ANYWHERE
MECHANICAL SUMMARY - AREA A

PREPARED FOR: ALL OF OUR CLIENTS
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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
PLUMBING	27,117.8	1,466,360	520,844	0	165,814	2,153,018
*** MECHANICAL ESTIMATED COST ***	27,117.8	1,466,360	520,844	0	165,814	2,153,018

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MECHANICAL PLUMBING ESTIMATE
ANYTOWN, ANYWHERE
PLUMBING SUMMARY - AREA A

PREPARED FOR: ALL OF OUR CLIENTS
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DESCRIPTION	LABOR MANHOURS	LABOR DOLLARS	MATERIAL DOLLARS	EQUIPMENT DOLLARS	SUBCONTRACT DOLLARS	TOTAL DOLLARS
PLUMBING FIXTURES AND EQUIPMENT	5,822.9	314,955	423	0	562	315,940
UNDERGROUND DOMESTIC WATER SYSTEM	295.2	15,964	4,333	0	0	20,297
DOMESTIC WATER SYSTEM	6,211.3	335,724	172,868	0	0	508,592
UNDERGROUND DRAIN, WASTE & VENT SYSTEM	3,543.2	191,648	82,425	0	96,300	370,373
ACID WASTE SYSTEM	2,237.2	121,006	73,600	0	11,712	206,318
ABOVEGROUND DRAIN, WASTE & VENT SYSTEM	2,855.4	154,322	30,212	0	9,900	194,434
AIR SYSTEM	186.8	10,103	2,327	0	0	12,430
GAS SYSTEM	1,552.8	83,985	13,983	0	0	97,968
CHLORINE VENT SYSTEM	21.7	1,173	208	0	0	1,381
UNDERGROUND STORM DRAINAGE SYSTEM	2,247.8	121,583	92,410	0	47,340	261,333
ABOVEGROUND STORM DRAINAGE SYSTEM	2,143.5	115,897	48,055	0	0	163,952
*** PLUMBING ESTIMATED COST ***	27,117.8	1,466,360	520,844	0	165,814	2,153,018

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MECHANICAL PLUMBING ESTIMATE
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 ESTIMATE DETAIL - AREA A

PREPARED FOR: ALL OF OUR CLIENTS
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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
PLUMBING FIXTURES AND EQUIPMENT													
WC-1 Water Closet	113	Each	4.8	542.4	54.09	29,338	0	0	0	0	0	0	29,338
HWC-1 Handicapped Water Closet	104	Each	4.8	499.2	54.09	27,002	0	0	0	0	0	0	27,002
UR-1 Urinal	12	Each	4.8	57.6	54.09	3,116	0	0	0	0	0	0	3,116
HUR-1 Handicapped Urinal	14	Each	4.8	67.2	54.09	3,635	0	0	0	0	0	0	3,635
HLAV-1 Handicapped Lavatory	49	Each	3.3	161.7	54.09	8,746	0	0	0	0	0	0	8,746
HLAV-3 Handicapped Lavatory	49	Each	3.3	161.7	54.09	8,746	0	0	0	0	0	0	8,746
HS-2 Sink	48	Each	5.3	254.4	54.09	13,760	0	0	0	0	0	0	13,760
MS-1 Mop Basin	15	Each	6	90.0	54.09	4,868	0	0	0	0	0	0	4,868
HEC-1 HC Electric Water Cooler	27	Each	4.8	129.6	54.09	7,010	0	0	0	0	0	0	7,010
HEC-3 HC Electric Water Cooler	13	Each	4.8	62.4	54.09	3,375	0	0	0	0	0	0	3,375
SH-1 Individual Shower	13	Each	7.5	97.5	54.09	5,274	0	0	0	0	0	0	5,274
HSH-1 HC Shower Assembly	26	Each	1.5	39.0	54.09	2,110	0	0	0	0	0	0	2,110
FD-1 Floor Drain	147	Each	1.88	276.4	54.09	14,950	0	0	0	0	0	0	14,950
FD-2 Floor Drain	9	Each	2.25	20.3	54.09	1,098	0	0	0	0	0	0	1,098
FD-3 Floor Drain	59	Each	2.03	119.8	54.09	6,480	0	0	0	0	0	0	6,480
FD-4 Floor Drain	3	Each	1.88	5.6	54.09	303	0	0	0	0	0	0	303
FD-5 Floor Drain	1	Each	1.88	1.9	54.09	103	0	0	0	0	0	0	103
WH-1 Freeze Proof Wall Hydrant	22	Each	1	22.0	54.09	1,190	0	0	0	0	0	0	1,190
HB-1 Hose Bibb	2	Each	0.75	1.5	54.09	81	0	0	0	0	0	0	81
HB-2 Neptune Hose Box	39	Each	1	39.0	54.09	2,110	0	0	0	0	0	0	2,110
4" FCO-1 Floor Clean Out	17	Each	1.56	26.5	54.09	1,433	0	0	0	0	0	0	1,433
8" ECO-1 Exterior Clean Out	2	Each	2.7	5.4	54.09	292	0	0	0	0	0	0	292
3/4" WHA-A Water Hammer Arrestor	6	Each	0.8	4.8	54.09	260	0	0	0	0	0	0	260
1" WHA-B Water Hammer Arrestor	4	Each	0.9	3.6	54.09	195	0	0	0	0	0	0	195
1 1/2" WHA-C Water Hammer Arrestor	4	Each	1	4.0	54.09	216	0	0	0	0	0	0	216
WPV-1 Whirlpool Valve Assembly	3	Each	3	9.0	54.09	487	0	0	0	0	0	0	487
1/2" TP-1 Auto Trap Primer	1	Each	1	1.0	54.09	54	0	0	0	0	0	0	54

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MECHANICAL PLUMBING ESTIMATE
 ANYTOWN, ANYWHERE
 ESTIMATE DETAIL - AREA A

PREPARED FOR: ALL OF OUR CLIENTS
 PREPARED BY.: TEMPEST COMPANY
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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
WB-1 Washer Box	6	Each	1.5	9.0	54.09	487	0	0	0	0	0	0	487
3" Vent Thru Roof	4	Each	2.5	10.0	54.09	541	45	180	0	0	0	0	721
1 1/2" Flow Control Valve	2	Each	1	2.0	54.09	108	20	40	0	0	0	0	148
1" Flow Control Valve	1	Each	0.7	0.7	54.09	38	20	20	0	0	0	0	58
3/4" Flow Control Valve	1	Each	0.4	0.4	54.09	22	18	18	0	0	0	0	40
SH-2 Panel on Shower System (8 Head)	2	Each	8	16.0	54.09	865	0	0	0	0	0	0	865
SH Closet Carrier	74	Each	2.6	192.4	54.09	10,407	0	0	0	0	0	0	10,407
DHH Closet Carrier	18	Each	4.5	81.0	54.09	4,381	0	0	0	0	0	0	4,381
SV-SI Closet Carrier	2	Each	2.6	5.2	54.09	281	0	0	0	0	0	0	281
SV Closet Carrier	29	Each	2.6	75.4	54.09	4,078	0	0	0	0	0	0	4,078
SV-2SIH Closet Carrier	2	Each	2.6	5.2	54.09	281	0	0	0	0	0	0	281
Carrier - Urinal	23	Each	2.6	59.8	54.09	3,235	0	0	0	0	0	0	3,235
Carrier - Lavatory	45	Each	2.25	101.3	54.09	5,479	0	0	0	0	0	0	5,479
WFC-1 Water Fountain	12	Each	3.8	45.6	54.09	2,467	0	0	0	0	0	0	2,467
SH-2 Panel on Shower System (12 Head)	2	Each	12	24.0	54.09	1,298	0	0	0	0	0	0	1,298
5" ECO-1 Exterior Clean Out	1	Each	2.15	2.2	54.09	119	0	0	0	0	0	0	119
12" ECO-1 Exterior Clean Out	2	Each	3.25	6.5	54.09	352	0	0	0	0	0	0	352
WHA-D Water Hammer Arrestor	5	Each	1.2	6.0	54.09	325	0	0	0	0	0	0	325
WHA-F Water Hammer Arrestor	1	Each	1.3	1.3	54.09	70	0	0	0	0	0	0	70
SV-SI-H Closet Carrier	6	Each	2.6	15.6	54.09	844	0	0	0	0	0	0	844
HLAV-2 Handicapped Lavatory	5	Each	3	15.0	54.09	811	0	0	0	0	0	0	811
LS-1 Lab Sink	103	Each	5.3	545.9	54.09	29,528	0	0	0	0	0	0	29,528
HEC-2 HC Electric Water Cooler	6	Each	4.8	28.8	54.09	1,558	0	0	0	0	0	0	1,558
ECO-1 Exterior Clean Out	10	Each	2.7	27.0	54.09	1,460	0	0	0	0	0	0	1,460
HEW-1 HC Eye Wash/Shower	18	Each	6	108.0	54.09	5,842	0	0	0	0	0	0	5,842
1" WHA-C Water Hammer Arrestor	2	Each	1	2.0	54.09	108	0	0	0	0	0	0	108
2" WHA-D Water Hammer Arrestor	2	Each	1	2.0	54.09	108	0	0	0	0	0	0	108
TP-2 Water Saver Trap Primer	2	Each	1	2.0	54.09	108	0	0	0	0	0	0	108

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MECHANICAL PLUMBING ESTIMATE
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 ESTIMATE DETAIL - AREA A

PREPARED FOR: ALL OF OUR CLIENTS
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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
SP-1 Elevator Sump Pump	2	Each	3	6.0	54.09	325	0	0	0	0	0	0	325
2 1/2" Second Stage Gas Regulator	1	Each	2.5	2.5	54.09	135	0	0	0	0	0	0	135
1/2" Lab Gas Cocks	22	Each	0.5	11.0	54.09	595	0	0	0	0	0	0	595
ANT-1 Acid Neutralization Tank	1	Each	8	8.0	54.09	433	0	0	0	0	0	0	433
ANT-2 Acid Neutralization Tank	1	Each	8	8.0	54.09	433	0	0	0	0	0	0	433
Excavation & Backfill	1	Lin Ft	0	0.0	0	0	0	0	0	0	12	12	12
DVH-SI Closet Carrier	5	Each	4.5	22.5	54.09	1,217	0	0	0	0	0	0	1,217
DV Closet Carrier	3	Each	4.5	13.5	54.09	730	0	0	0	0	0	0	730
DV-H Closet Carrier	4	Each	4.5	18.0	54.09	974	0	0	0	0	0	0	974
HLAV-4 Handicapped Lavatory	3	Each	3.3	9.9	54.09	535	0	0	0	0	0	0	535
KS-1 Sink	8	Each	4.5	36.0	54.09	1,947	0	0	0	0	0	0	1,947
KS-2 Sink	6	Each	4.5	27.0	54.09	1,460	0	0	0	0	0	0	1,460
ART-1 Sink	4	Each	4.5	18.0	54.09	974	0	0	0	0	0	0	974
ART-2 Sink	8	Each	4.5	36.0	54.09	1,947	0	0	0	0	0	0	1,947
DS-1 Darkroom Sink	4	Each	5.3	21.2	54.09	1,147	0	0	0	0	0	0	1,147
GA-1 Sink	2	Each	4.5	9.0	54.09	487	0	0	0	0	0	0	487
RD-1 Roof Drain w/Extension Collar	63	Each	3.75	236.3	54.09	12,781	0	0	0	0	0	0	12,781
3" FCO-1 Floor Clean Out	16	Each	1.32	21.1	54.09	1,141	0	0	0	0	0	0	1,141
4" WCO-1 Wall Clean Out	44	Each	0.8	35.2	54.09	1,904	0	0	0	0	0	0	1,904
4" ECO-1 Exterior Clean Out	9	Each	1.56	14.0	54.09	757	0	0	0	0	0	0	757
HEW-2 HC Eye Wash/Shower	2	Each	6	12.0	54.09	649	0	0	0	0	0	0	649
PT-1 Plaster Trap	10	Each	1.5	15.0	54.09	811	0	0	0	0	0	0	811
WHA Water Hammer Arrester	12	Each	0.9	10.8	54.09	584	0	0	0	0	0	0	584
TP-1 Auto Trap Primer	9	Each	1	9.0	54.09	487	0	0	0	0	0	0	487
Air Compressor	2	Each	8	16.0	54.09	865	0	0	0	0	0	0	865
Air Dryer	2	Each	8	16.0	54.09	865	0	0	0	0	0	0	865
HS-3 Sink	2	Each	5.3	10.6	54.09	573	0	0	0	0	0	0	573
DF-1 Drinking Fountain	2	Each	4.8	9.6	54.09	519	0	0	0	0	0	0	519

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MECHANICAL PLUMBING ESTIMATE
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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
HB-3 Neptune Hose Box	2	Each	1	2.0	54.09	108	0	0	0	0	0	0	108
FCO-1 Floor Clean Out	14	Each	1.56	21.8	54.09	1,179	0	0	0	0	0	0	1,179
WHA-A Water Hammer Arrestor	9	Each	0.9	8.1	54.09	438	0	0	0	0	0	0	438
WHA-B Water Hammer Arrestor	4	Each	1	4.0	54.09	216	0	0	0	0	0	0	216
WHA-C Water Hammer Arrestor	4	Each	1.1	4.4	54.09	238	0	0	0	0	0	0	238
4" BWV-1 Back Water Valve	16	Each	1.5	24.0	54.09	1,298	0	0	0	0	0	0	1,298
2" PFP-1 Reducing Pressure Back Flow Preventer	1	Each	1.98	2.0	54.09	108	0	0	0	0	0	0	108
SVHSI Closet Carrier	2	Each	2.6	5.2	54.09	281	0	0	0	0	0	0	281
Individual Shower Head	22	Each	2.3	50.6	54.09	2,737	0	0	0	0	0	0	2,737
1 1/2" Gas PRV	1	Each	1	1.0	54.09	54	50	50	0	0	0	0	104
DW-1 Dishwasher	1	Each	8	8.0	54.09	433	0	0	0	0	0	0	433
GS-1 Glass Filler	2	Each	1.5	3.0	54.09	162	0	0	0	0	0	0	162
KD-1 Kitchen Floor Drain	3	Each	4	12.0	54.09	649	0	0	0	0	0	0	649
KD-2 Funneled Floor Drain	20	Each	1.88	37.6	54.09	2,034	0	0	0	0	0	0	2,034
FS-1 Floor Sink	2	Each	6	12.0	54.09	649	0	0	0	0	0	0	649
WHA-A Water Hammer Arrestor	3	Each	0.9	2.7	54.09	146	0	0	0	0	0	0	146
WHA-B Water Hammer Arrestor	1	Each	1	1.0	54.09	54	0	0	0	0	0	0	54
WHA-C Water Hammer Arrestor	1	Each	1.1	1.1	54.09	59	0	0	0	0	0	0	59
CV-SI Closet Carrier	2	Each	4.5	9.0	54.09	487	0	0	0	0	0	0	487
SV-SI Closet Carrier	2	Each	2.6	5.2	54.09	281	0	0	0	0	0	0	281
Faucet	1	Each	1	1.0	54.09	54	0	0	0	0	0	0	54
Hand Sink	3	Each	5.3	15.9	54.09	860	0	0	0	0	0	0	860
Sink	3	Each	4.5	13.5	54.09	730	0	0	0	0	0	0	730
Vegetable Sink	1	Each	5.3	5.3	54.09	287	0	0	0	0	0	0	287
Disposer	2	Each	2	4.0	54.09	216	0	0	0	0	0	0	216
Scullery Sink	1	Each	4	4.0	54.09	216	0	0	0	0	0	0	216
Waste System	1	Each	8	8.0	54.09	433	0	0	0	0	0	0	433
Utility System	1	Each	4	4.0	54.09	216	0	0	0	0	0	0	216

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
Dishwasher	1	Each	8	8.0	54.09	433	0	0	0	0	0	0	433
Tray Conveyor	3	Each	12	36.0	54.09	1,947	0	0	0	0	0	0	1,947
Ice Machine	1	Each	2	2.0	54.09	108	0	0	0	0	0	0	108
SV Carrier	1	Each	2.6	2.6	54.09	141	0	0	0	0	0	0	141
2" FD-2 Floor Drain	14	Each	1.88	26.3	54.09	1,423	0	0	0	0	0	0	1,423
4" RD-1 Roof Drain	13	Each	3.75	48.8	54.09	2,640	0	0	0	0	0	0	2,640
5" RD-1 Roof Drain	8	Each	4.13	33.0	54.09	1,785	0	0	0	0	0	0	1,785
3/4" WH-1 Freeze Proof Wall Hydrant	7	Each	1	7.0	54.09	379	0	0	0	0	0	0	379
5" WCO-1 Wall Clean Out	3	Each	0.84	2.5	54.09	135	0	0	0	0	0	0	135
6" WCO-1 Wall Clean Out	3	Each	0.92	2.8	54.09	151	0	0	0	0	0	0	151
Carrier - Lavatory	5	Each	2	10.0	54.09	541	0	0	0	0	0	0	541
HWC-2 Handicapped Water Closet	1	Each	1.8	1.8	54.09	97	0	0	0	0	0	0	97
HS-1 Sink	41	Each	5.3	217.3	54.09	11,754	0	0	0	0	0	0	11,754
HEC-4 HC Electric Water Cooler	1	Each	4.8	4.8	54.09	260	0	0	0	0	0	0	260
2" FD-1 Floor Drain	29	Each	1.88	54.5	54.09	2,948	0	0	0	0	0	0	2,948
4" FD-1 Roof Drain w/Extension Collar	18	Each	2.25	40.5	54.09	2,191	0	0	0	0	0	0	2,191
WH-1 Fire Proof Wall Hydrant	1	Each	1	1.0	54.09	54	0	0	0	0	0	0	54
WCO-1 Wall Clean Out	11	Each	0.92	10.1	54.09	546	0	0	0	0	0	0	546
1 1/4" WHA Water Hammer Arrester	2	Each	0.6	1.2	54.09	65	0	0	0	0	0	0	65
2" WHA-B Water Hammer Arrester	2	Each	0.9	1.8	54.09	97	0	0	0	0	0	0	97
Air Station	14	Each	2	28.0	54.09	1,515	0	0	0	0	0	0	1,515
ANT-3 Acid Neutral Tank	1	Each	4	4.0	54.09	216	0	0	0	0	0	0	216
3/4" WHA-B Water Hammer Arrester	1	Each	1	1.0	54.09	54	0	0	0	0	0	0	54
1 1/4" WHA-B Water Hammer Arrester	1	Each	1	1.0	54.09	54	0	0	0	0	0	0	54
Fume Hood	3	Each	6	18.0	54.09	974	0	0	0	0	0	0	974
1 1/2" Second Stage Gas Regulator & Shut Off Valve	1	Each	1	1.0	54.09	54	0	0	0	0	0	0	54
1/2" Gas Cocks	148	Each	0.5	74.0	54.09	4,003	0	0	0	0	0	0	4,003
DHH-SI Closet Carrier	2	Each	4.5	9.0	54.09	487	0	0	0	0	0	0	487

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MECHANICAL PLUMBING ESTIMATE
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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
Carrier - Urinal	2	Each	2.6	5.2	54.09	281	0	0	0	0	0	0	281
4" FCO-1 Floor Clean Out	3	Each	1.56	4.7	54.09	254	0	0	0	0	0	0	254
2" WCO-1 Wall Clean Out	1	Each	0.71	0.7	54.09	38	0	0	0	0	0	0	38
4" WCO-1 Wall Clean Out	1	Each	0.8	0.8	54.09	43	0	0	0	0	0	0	43
5" WCO-1 Wall Clean Out	1	Each	0.84	0.8	54.09	43	0	0	0	0	0	0	43
DV-SI-H Closet Carrier	3	Each	4.5	13.5	54.09	730	0	0	0	0	0	0	730
2" FD-4 Floor Drain	1	Each	1.88	1.9	54.09	103	0	0	0	0	0	0	103
SV-2SI Closet Carrier	1	Each	2.6	2.6	54.09	141	0	0	0	0	0	0	141
SS-1 Sink	1	Each	5.3	5.3	54.09	287	0	0	0	0	0	0	287
SH-3 Panel on Shower System (10 Head)	4	Each	10	40.0	54.09	2,164	0	0	0	0	0	0	2,164
3/4" WH-1 Wall Hydrant	2	Each	1	2.0	54.09	108	0	0	0	0	0	0	108
3/4" HB-1 Hose Bibb	2	Each	1	2.0	54.09	108	0	0	0	0	0	0	108
6" ECO-1 Exterior Clean Out	1	Each	2.43	2.4	54.09	130	0	0	0	0	0	0	130
10" ECO-1 Exterior Clean Out	1	Each	3	3.0	54.09	162	0	0	0	0	0	0	162
1" WHA Water Hammer Arrestor	2	Each	0.8	1.6	54.09	87	0	0	0	0	0	0	87
2" WB-1 Guy Gray	1	Each	2	2.0	54.09	108	0	0	0	0	0	0	108
2" SP-1 Elevator Sump Pump	1	Each	3	3.0	54.09	162	0	0	0	0	0	0	162
Oil Fired Water Heater	1	Each	8	8.0	54.09	433	0	0	0	0	0	0	433
Concrete Pad 9' x 15' x 4" For Water Heater	1	Each	0	0.0	0	0	0	0	0	0	450	450	450
2" Adjustable Balancing Valve	1	Each	1.2	1.2	54.09	65	35	35	0	0	0	0	100
P-1 Pump	1	Each	8	8.0	54.09	433	0	0	0	0	0	0	433
P-2 Pump	1	Each	8	8.0	54.09	433	0	0	0	0	0	0	433
2 1/2" MV-1 Mixing Valve	1	Each	7.88	7.9	54.09	427	0	0	0	0	0	0	427
2 1/2" MV-2 Mixing Valve	1	Each	7.88	7.9	54.09	427	0	0	0	0	0	0	427
Amtrol St-609V Therm-x-trol Asme Rated Expansion Tank 16" Diameter	1	Each	3	3.0	54.09	162	0	0	0	0	0	0	162
2" SS Flex Pump Connector	2	Each	1	2.0	54.09	108	40	80	0	0	0	0	188
Concrete Pad for Expansion Tank 24" x 24" x 4"	1	Each	0	0.0	0	0	0	0	0	0	100	100	100
2" MV-2 Mixing Valve	1	Each	2	2.0	54.09	108	0	0	0	0	0	0	108

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
Amtrol ST-60V Therm-X-Trol ASME Rated Expansion Tank 16" Diameter	1	Each	3	3.0	54.09	162	0	0	0	0	0	0	162
96" Diameter x 96" Deep Concrete Grease Trap	1	L Sum	16	16.0	54.09	865	0	0	0	0	0	0	865
*** PLUMBING FIXTURES AND EQUIPMENT ESTIMATED COST ***				5,822.9		314,955		423		0		562	315,940
UNDERGROUND DOMESTIC WATER SYSTEM													
1/2" Pipe Copper B-88 Type L Hard	702	Lin Ft	0.06	42.1	54.09	2,277	1.155	811	0	0	0	0	3,088
3/4" Pipe Copper B-88 Type L Hard	351	Lin Ft	0.06	21.1	54.09	1,141	1.825	641	0	0	0	0	1,782
1" Pipe Copper B-88 Type L Hard	70	Lin Ft	0.08	5.6	54.09	303	2.87	201	0	0	0	0	504
1 1/4" Pipe Copper B-88 Type L Hard	99	Lin Ft	0.08	7.9	54.09	427	4.03	399	0	0	0	0	826
1 1/2" Pipe Copper B-88 Type L Hard	110	Lin Ft	0.08	8.8	54.09	476	5.2	572	0	0	0	0	1,048
2" Pipe Copper B-88 Type L Hard	19	Lin Ft	0.09	1.7	54.09	92	8.115	154	0	0	0	0	246
1/2" 90 Degree Ell Wrought Copper B-88	105	Each	0.41	43.1	54.09	2,331	0.8568	90	0	0	0	0	2,421
3/4" 90 Degree Ell Wrought Copper B-88	19	Each	0.47	8.9	54.09	481	1.9278	37	0	0	0	0	518
1 1/4" 90 Degree Ell Wrought Copper B-88	4	Each	0.67	2.7	54.09	146	7.1442	29	0	0	0	0	175
1/2" 45 Degree Ell Wrought Copper B-88	25	Each	0.41	10.3	54.09	557	1.575	39	0	0	0	0	596
3/4" 45 Degree Ell Wrought Copper B-88	7	Each	0.47	3.3	54.09	178	2.7594	19	0	0	0	0	197
1" 45 Degree Ell Wrought Copper B-88	2	Each	0.58	1.2	54.09	65	6.93	14	0	0	0	0	79
1 1/4" 45 Degree Ell Wrought Copper B-88	2	Each	0.67	1.3	54.09	70	9.3744	19	0	0	0	0	89
1 1/2" 45 Degree Ell Wrought Copper B-88	1	Each	0.72	0.7	54.09	38	11.2854	11	0	0	0	0	49
2" 45 Degree Ell Wrought Copper B-88	1	Each	0.8	0.8	54.09	43	18.8496	19	0	0	0	0	62
1/2" Tee Wrought Copper B-88	7	Each	0.59	4.1	54.09	222	1.47	10	0	0	0	0	232
3/4" Tee Wrought Copper B-88	1	Each	0.68	0.7	54.09	38	3.5364	4	0	0	0	0	42
3/4" x 1/2" Reducing Tee Copper B-88	12	Each	0.69	8.3	54.09	449	3.402	41	0	0	0	0	490
1" x 3/4" Reducing Tee Copper B-88	3	Each	0.86	2.6	54.09	141	10.9704	33	0	0	0	0	174
1" x 1/2" Reducing Tee Copper B-88	8	Each	0.86	6.9	54.09	373	10.9704	88	0	0	0	0	461
1 1/4" x 1" Reducing Tee Copper B-88	2	Each	0.96	1.9	54.09	103	16.1406	32	0	0	0	0	135
1 1/4" x 3/4" Reducing Tee Copper B-88	1	Each	0.96	1.0	54.09	54	16.1406	16	0	0	0	0	70
1 1/4" x 1/2" Reducing Tee Copper B-88	4	Each	0.96	3.8	54.09	206	16.1406	65	0	0	0	0	271
1 1/4" x 3/4" Reducing Tee Copper B-88	1	Each	1.02	1.0	54.09	54	17.136	17	0	0	0	0	71

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR MAN HOURS TOTAL	LABOR DOLLARS UNIT	LABOR DOLLARS TOTAL	MATERIAL DOLLARS UNIT	MATERIAL DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	TOTAL DOLLARS
2" x 1 1/2" Reducing Tee Copper B-88	1	Each	1.17	1.2	54.09	65	27.9636	28	0	0	0	0	93
1/2" Coupling Wrought Copper B-88	10	Each	0.41	4.1	54.09	222	0.651	7	0	0	0	0	229
3/4" Coupling Wrought Copper B-88	13	Each	0.54	7.0	54.09	379	1.3062	17	0	0	0	0	396
1 1/4" Coupling Wrought Copper B-88	2	Each	0.71	1.4	54.09	76	4.6242	9	0	0	0	0	85
1 1/2" Coupling Wrought Copper B-88	3	Each	0.74	2.2	54.09	119	6.111	18	0	0	0	0	137
3/4" x 1/2" Concentric Reducer Copper B-88	5	Each	0.3	1.5	54.09	81	16.002	80	0	0	0	0	161
1" x 3/4" Concentric Reducer Copper B-88	1	Each	0.33	0.3	54.09	16	21.5628	22	0	0	0	0	38
1" x 1/2" Concentric Reducer Copper B-88	3	Each	0.33	1.0	54.09	54	1.81	5	0	0	0	0	59
2" x 1 1/2" Concentric Reducer Copper B-88	1	Each	0.6	0.6	54.09	32	8.4	8	0	0	0	0	40
1/2" Cap Wrought Copper B-88	25	Each	0.23	5.8	54.09	314	0.6258	16	0	0	0	0	330
3/4" Cap Wrought Copper B-88	1	Each	0.29	0.3	54.09	16	1.1634	1	0	0	0	0	17
1 1/4" Cap Wrought Copper B-88	1	Each	0.36	0.4	54.09	22	3.7086	4	0	0	0	0	26
1 1/2" Cap Wrought Copper B-88	1	Each	0.41	0.4	54.09	22	5.4012	5	0	0	0	0	27
2" Cap Wrought Copper B-88	1	Each	0.45	0.5	54.09	27	9.9666	10	0	0	0	0	37
1/2" Ball Valve Bronze 150# Solder	3	Each	0.19	0.6	54.09	32	4.34	13	0	0	0	0	45
3/4" Ball Valve Bronze 150# Solder	5	Each	0.19	1.0	54.09	54	4.77	24	0	0	0	0	78
1" Ball Valve Bronze 150# Solder	2	Each	0.65	1.3	54.09	70	5.99	12	0	0	0	0	82
1 1/4" Ball Valve Bronze 150# Solder	2	Each	0.56	1.1	54.09	59	10.07	20	0	0	0	0	79
1 1/2" Ball Valve Bronze 150# Solder	2	Each	0.86	1.7	54.09	92	12.87	26	0	0	0	0	118
2" Ball Valve Bronze 150# Solder	1	Each	0.951	1.0	54.09	54	50.04	50	0	0	0	0	104
1/2" Clevis Hanger w/Insulation Shield Copper Plated	70	Each	0.5	35.0	54.09	1,893	3.54	248	0	0	0	0	2,141
3/4" Clevis Hanger w/Insulation Shield Copper Plated	49	Each	0.5	24.5	54.09	1,325	5.01	245	0	0	0	0	1,570
1" Clevis Hanger w/Insulation Shield Copper Plated	6	Each	0.5	3.0	54.09	162	3.95	24	0	0	0	0	186
1 1/4" Clevis Hanger w/Insulation Shield Copper Plated	11	Each	0.5	5.5	54.09	297	4.13	45	0	0	0	0	342
1 1/2" Clevis Hanger w/Insulation Shield Copper Plated	6	Each	0.5	3.0	54.09	162	4.31	26	0	0	0	0	188
2" Clevis Hanger w/Insulation Shield Copper Plated	2	Each	0.5	1.0	54.09	54	4.56	9	0	0	0	0	63
*** UNDERGROUND DOMESTIC WATER SYSTEM ESTIMATED COST ***				295.2		15,964		4,333		0		0	20,297

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
DOMESTIC WATER SYSTEM													
1/2" Pipe Copper B-88 Type K Hard	80	Lin Ft	0.06	4.8	54.09	260	1.64	131	0	0	0	0	391
3/4" Pipe Copper B-88 Type K Hard	14	Lin Ft	0.07	1.0	54.09	54	3.045	43	0	0	0	0	97
1" Pipe Copper B-88 Type K Hard	40	Lin Ft	0.08	3.2	54.09	173	3.985	159	0	0	0	0	332
2 1/2" Pipe Copper B-88 Type L Hard Grooved End	725	Lin Ft	0.12	87.0	54.09	4,706	11.2	8,120	0	0	0	0	12,826
3" Pipe Copper B-88 Type L Hard Grooved End	1,226	Lin Ft	0.14	171.6	54.09	9,282	8.64	10,593	0	0	0	0	19,875
4" Pipe Copper B-88 Type L Hard Grooved End	429	Lin Ft	0.18	77.2	54.09	4,176	13.62	5,843	0	0	0	0	10,019
1/2" Pipe Copper B-88 Type L Hard	5,682	Lin Ft	0.06	340.9	54.09	18,439	1.155	6,563	0	0	0	0	25,002
3/4" Pipe Copper B-88 Type L Hard	5,942	Lin Ft	0.06	356.5	54.09	19,283	1.825	10,844	0	0	0	0	30,127
1" Pipe Copper B-88 Type L Hard	2,521	Lin Ft	0.08	201.7	54.09	10,910	2.87	7,235	0	0	0	0	18,145
1 1/4" Pipe Copper B-88 Type L Hard	2,164	Lin Ft	0.08	173.1	54.09	9,363	4.03	8,721	0	0	0	0	18,084
1 1/2" Pipe Copper B-88 Type L Hard	2,478	Lin Ft	0.08	198.2	54.09	10,721	5.2	12,886	0	0	0	0	23,607
2" Pipe Copper B-88 Type L Hard	3,200	Lin Ft	0.09	288.0	54.09	15,578	8.115	25,968	0	0	0	0	41,546
2 1/2" 90 Degree Ell Wrought Copper B-88 Grooved End	14	Each	0.83	11.6	54.09	627	31.75	445	0	0	0	0	1,072
3" 90 Degree Ell Wrought Copper B-88 Grooved End	15	Each	1	15.0	54.09	811	44.625	669	0	0	0	0	1,480
4" 90 Degree Ell Wrought Copper B-88 Grooved End	9	Each	1.33	12.0	54.09	649	103.375	930	0	0	0	0	1,579
1/2" 90 Degree Ell Wrought Copper B-88	842	Each	0.41	345.2	54.09	18,672	0.8568	721	0	0	0	0	19,393
3/4" 90 Degree Ell Wrought Copper B-88	361	Each	0.47	169.7	54.09	9,179	1.9278	696	0	0	0	0	9,875
1" 90 Degree Ell Wrought Copper B-88	50	Each	0.58	29.0	54.09	1,569	4.7292	236	0	0	0	0	1,805
1 1/4" 90 Degree Ell Wrought Copper B-88	141	Each	0.67	94.5	54.09	5,112	7.1442	1,007	0	0	0	0	6,119
1 1/2" 90 Degree Ell Wrought Copper B-88	171	Each	0.72	123.1	54.09	6,658	11.1426	1,905	0	0	0	0	8,563
2" 90 Degree Ell Wrought Copper B-88	63	Each	0.8	50.4	54.09	2,726	20.3154	1,280	0	0	0	0	4,006
2 1/2" 45 Degree Ell Wrought Copper B-88 Grooved End	1	Each	0.83	0.8	54.09	43	31.75	32	0	0	0	0	75
3" 45 Degree Ell Wrought Copper B-88 Grooved End	1	Each	0.99	1.0	54.09	54	44.625	45	0	0	0	0	99
1/2" 45 Degree Ell Wrought Copper B-88	61	Each	0.41	25.0	54.09	1,352	1.575	96	0	0	0	0	1,448
3/4" 45 Degree Ell Wrought Copper B-88	34	Each	0.47	16.0	54.09	865	2.7594	94	0	0	0	0	959
1" 45 Degree Ell Wrought Copper B-88	4	Each	0.58	2.3	54.09	124	6.93	28	0	0	0	0	152
1 1/4" 45 Degree Ell Wrought Copper B-88	8	Each	0.67	5.4	54.09	292	9.3744	75	0	0	0	0	367

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
1 1/2" 45 Degree Ell Wrought Copper B-88	5	Each	0.72	3.6	54.09	195	11.2854	56	0	0	0	0	251
2" 45 Degree Ell Wrought Copper B-88	4	Each	0.8	3.2	54.09	173	18.8496	75	0	0	0	0	248
2 1/2" Tee Wrought Copper B-88 Grooved End	2	Each	0.22	0.4	54.09	22	51.5	103	0	0	0	0	125
2 1/2" Tee Wrought Copper B-88	1	Each	2.03	2.0	54.09	108	72.4542	72	0	0	0	0	180
3" Tee Wrought Copper B-88 Grooved End	9	Each	1.47	13.2	54.09	714	76.625	690	0	0	0	0	1,404
4" Tee Wrought Copper B-88 Grooved End	3	Each	1.98	5.9	54.09	319	168.75	506	0	0	0	0	825
1/2" Tee Wrought Copper B-88	197	Each	0.59	116.2	54.09	6,285	1.47	290	0	0	0	0	6,575
3/4" Tee Wrought Copper B-88	95	Each	0.68	64.6	54.09	3,494	3.5364	336	0	0	0	0	3,830
1" Tee Wrought Copper B-88	32	Each	0.84	26.9	54.09	1,455	10.9326	350	0	0	0	0	1,805
1 1/4" Tee Wrought Copper B-88	40	Each	0.97	38.8	54.09	2,099	14.9436	598	0	0	0	0	2,697
1 1/2" Tee Wrought Copper B-88	18	Each	1.05	18.9	54.09	1,022	23.0328	415	0	0	0	0	1,437
2" Tee Wrought Copper B-88	22	Each	1.15	25.3	54.09	1,368	35.91	790	0	0	0	0	2,158
2 1/2" x 2" Reducing Tee Copper B-88 Grooved End	8	Each	1.1	8.8	54.09	476	19.6	157	0	0	0	0	633
2 1/2" x 1 1/2" Reducing Tee Copper B-88 Grooved End	7	Each	1.05	7.4	54.09	400	77.125	540	0	0	0	0	940
2 1/2" x 1 1/2" Reducing Tee Copper B-88	1	Each	1.89	1.9	54.09	103	84.4578	84	0	0	0	0	187
2 1/2" x 1 1/4" Reducing Tee Copper B-88 Grooved End	7	Each	1	7.0	54.09	379	77.125	540	0	0	0	0	919
2 1/2" x 1 1/4" Reducing Tee Copper B-88	1	Each	1.89	1.9	54.09	103	84.4578	84	0	0	0	0	187
2 1/2" x 1" Reducing Tee Copper B-88 Grooved End	7	Each	0.95	6.7	54.09	362	77.125	540	0	0	0	0	902
2 1/2" x 1" Reducing Tee Copper B-88	2	Each	1.89	3.8	54.09	206	84.4578	169	0	0	0	0	375
2 1/2" x 3/4" Reducing Tee Copper B-88 Grooved End	11	Each	0.9	9.9	54.09	535	79.125	870	0	0	0	0	1,405
2 1/2" x 3/4" Reducing Tee Copper B-88	1	Each	1.89	1.9	54.09	103	82.6644	83	0	0	0	0	186
2 1/2" x 1/2" Reducing Tee Copper B-88 Grooved End	6	Each	0.8	4.8	54.09	260	14	84	0	0	0	0	344
3" x 2 1/2" Reducing Tee Copper B-88 Grooved End	5	Each	1.35	6.8	54.09	368	26	130	0	0	0	0	498
3" x 2" Reducing Tee Copper B-88 Grooved End	8	Each	1.3	10.4	54.09	563	26.04	208	0	0	0	0	771
3" x 1 1/2" Reducing Tee Copper B-88 Grooved End	4	Each	1.25	5.0	54.09	270	143	572	0	0	0	0	842
3" x 1 1/4" Reducing Tee Copper B-88 Grooved End	6	Each	1.2	7.2	54.09	389	143	858	0	0	0	0	1,247
3" x 1" Reducing Tee Copper B-88 Grooved End	2	Each	1.15	2.3	54.09	124	143	286	0	0	0	0	410
3" x 1" Reducing Tee Copper B-88	1	Each	2.3	2.3	54.09	124	93.0342	93	0	0	0	0	217

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
3" x 3/4" Reducing Tee Copper B-88 Grooved End	13	Each	1.1	14.3	54.09	773	143	1,859	0	0	0	0	2,632
3" x 1/2" Reducing Tee Copper B-88 Grooved End	5	Each	1.11	5.6	54.09	303	18.57	93	0	0	0	0	396
3" x 1/2" Reducing Tee Copper B-88	1	Each	2.3	2.3	54.09	124	93.0342	93	0	0	0	0	217
4" x 3" Reducing Tee Copper B-88 Grooved End	3	Each	1.85	5.6	54.09	303	64.02	192	0	0	0	0	495
4" x 2 1/2" Reducing Tee Copper B-88 Grooved End	6	Each	1.75	10.5	54.09	568	64.02	384	0	0	0	0	952
4" x 1 1/2" Reducing Tee Copper B-88 Grooved End	2	Each	1.7	3.4	54.09	184	222.25	445	0	0	0	0	629
4" x 1 1/4" Reducing Tee Copper B-88 Grooved End	1	Each	1.65	1.7	54.09	92	222.25	222	0	0	0	0	314
4" x 1" Reducing Tee Copper B-88 Grooved End	1	Each	1.6	1.6	54.09	87	222.25	222	0	0	0	0	309
4" x 3/4" Reducing Tee Copper B-88 Grooved End	5	Each	1.55	7.8	54.09	422	169.125	846	0	0	0	0	1,268
4" x 3/4" Reducing Tee Copper B-88	1	Each	3	3.0	54.09	162	193.6116	194	0	0	0	0	356
4" x 1/2" Reducing Tee Copper B-88 Grooved End	4	Each	1.28	5.1	54.09	276	45.71	183	0	0	0	0	459
6" x 2" Reducing Tee Copper B-88 Grooved End	1	Each	3.05	3.1	54.09	168	239.71	240	0	0	0	0	408
3/4" x 1/2" Reducing Tee Copper B-88	138	Each	0.69	95.2	54.09	5,149	3.402	469	0	0	0	0	5,618
1" x 3/4" Reducing Tee Copper B-88	22	Each	0.86	18.9	54.09	1,022	10.9704	241	0	0	0	0	1,263
1" x 1/2" Reducing Tee Copper B-88	32	Each	0.86	27.5	54.09	1,487	10.9704	351	0	0	0	0	1,838
1 1/4" x 1" Reducing Tee Copper B-88	49	Each	0.96	47.0	54.09	2,542	16.1406	791	0	0	0	0	3,333
1 1/4" x 3/4" Reducing Tee Copper B-88	72	Each	0.96	69.1	54.09	3,738	16.1406	1,162	0	0	0	0	4,900
1 1/4" x 1/2" Reducing Tee Copper B-88	22	Each	0.96	21.1	54.09	1,141	16.1406	355	0	0	0	0	1,496
1 1/2" x 1 1/4" Reducing Tee Copper B-88	17	Each	1.02	17.3	54.09	936	17.136	291	0	0	0	0	1,227
1 1/2" x 1" Reducing Tee Copper B-88	19	Each	1.02	19.4	54.09	1,049	17.136	326	0	0	0	0	1,375
1 1/4" x 3/4" Reducing Tee Copper B-88	29	Each	1.02	29.6	54.09	1,601	17.136	497	0	0	0	0	2,098
1 1/2" x 1/2" Reducing Tee Copper B-88	23	Each	1.02	23.5	54.09	1,271	17.136	394	0	0	0	0	1,665
2" x 1 1/2" Reducing Tee Copper B-88	44	Each	1.17	51.5	54.09	2,786	27.9636	1,230	0	0	0	0	4,016
2" x 1 1/4" Reducing Tee Copper B-88	141	Each	1.17	165.0	54.09	8,925	31.0422	4,377	0	0	0	0	13,302
2" x 1" Reducing Tee Copper B-88	36	Each	1.17	42.1	54.09	2,277	14.24	513	0	0	0	0	2,790
2" x 3/4" Reducing Tee Copper B-88	47	Each	1.17	55.0	54.09	2,975	27.1236	1,275	0	0	0	0	4,250
2" x 1/2" Reducing Tee Copper B-88	42	Each	1.17	49.1	54.09	2,656	27.1236	1,139	0	0	0	0	3,795
2 1/2" Coupling Wrought Copper B-88 Grooved End	4	Each	0.08	0.3	54.09	16	18.625	75	0	0	0	0	91

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR DOLLARS TOTAL	LABOR DOLLARS UNIT	MATERIAL DOLLARS TOTAL	MATERIAL DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL DOLLARS	
3" Coupling Wrought Copper B-88 Grooved End	13	Each	0.08	1.0	54.09	54	20.5	267	0	0	0	0	321
4" Coupling Wrought Copper B-88 Grooved End	5	Each	0.09	0.5	54.09	27	31.375	157	0	0	0	0	184
1/2" Coupling Wrought Copper B-88	23	Each	0.41	9.4	54.09	508	0.651	15	0	0	0	0	523
3/4" Coupling Wrought Copper B-88	37	Each	0.54	20.0	54.09	1,082	1.3062	48	0	0	0	0	1,130
1" Coupling Wrought Copper B-88	14	Each	0.63	8.8	54.09	476	2.604	36	0	0	0	0	512
1 1/4" Coupling Wrought Copper B-88	10	Each	0.71	7.1	54.09	384	4.6242	46	0	0	0	0	430
1 1/2" Coupling Wrought Copper B-88	18	Each	0.74	13.3	54.09	719	6.111	110	0	0	0	0	829
2" Coupling Wrought Copper B-88	19	Each	0.84	16.0	54.09	865	10.2144	194	0	0	0	0	1,059
2 1/2" x 2" Concentric Reducer Copper B-88 Grooved End	6	Each	0.08	0.5	54.09	27	42.875	257	0	0	0	0	284
2 1/2" x 1 1/2" Concentric Reducer Copper B-88 Grooved End	1	Each	0.08	0.1	54.09	5	42.875	43	0	0	0	0	48
3" x 2 1/2" Concentric Reducer Copper B-88 Grooved End	2	Each	0.08	0.2	54.09	11	42.25	85	0	0	0	0	96
3" x 2" Concentric Reducer Copper B-88 Grooved End	2	Each	0.08	0.2	54.09	11	42.25	85	0	0	0	0	96
3" x 1 1/2" Concentric Reducer Copper B-88 Grooved End	1	Each	0.08	0.1	54.09	5	53	53	0	0	0	0	58
3" x 1" Concentric Reducer Copper B-88 Grooved End	1	Each	0.08	0.1	54.09	5	9	9	0	0	0	0	14
4" x 2" Concentric Reducer Copper B-88 Grooved End	1	Each	0.09	0.1	54.09	5	87	87	0	0	0	0	92
3/4" x 1/2" Concentric Reducer Copper B-88	42	Each	0.3	12.6	54.09	682	16.002	672	0	0	0	0	1,354
1" x 3/4" Concentric Reducer Copper B-88	15	Each	0.33	5.0	54.09	270	21.5628	323	0	0	0	0	593
1" x 1/2" Concentric Reducer Copper B-88	4	Each	0.33	1.3	54.09	70	1.81	7	0	0	0	0	77
1 1/4" x 1" Concentric Reducer Copper B-88	3	Each	0.4	1.2	54.09	65	32.466	97	0	0	0	0	162
1 1/4" x 3/4" Concentric Reducer Copper B-88	1	Each	0.4	0.4	54.09	22	32.466	32	0	0	0	0	54
1 1/4" x 1/2" Concentric Reducer Copper B-88	2	Each	0.63	1.3	54.09	70	3.44	7	0	0	0	0	77
1 1/2" x 1 1/4" Concentric Reducer Copper B-88	11	Each	0.4	4.4	54.09	238	4.34	48	0	0	0	0	286
1 1/2" x 1" Concentric Reducer Copper B-88	1	Each	0.4	0.4	54.09	22	4.34	4	0	0	0	0	26
1 1/2" x 3/4" Concentric Reducer Copper B-88	1	Each	0.4	0.4	54.09	22	3.74	4	0	0	0	0	26
1 1/2" x 1/2" Concentric Reducer Copper B-88	1	Each	0.68	0.7	54.09	38	5.59	6	0	0	0	0	44
2" x 1 1/2" Concentric Reducer Copper B-88	17	Each	0.6	10.2	54.09	552	8.4	143	0	0	0	0	695
2" x 1 1/4" Concentric Reducer Copper B-88	1	Each	0.75	0.8	54.09	43	8.11	8	0	0	0	0	51
2" x 1" Concentric Reducer Copper B-88	4	Each	0.75	3.0	54.09	162	8.11	32	0	0	0	0	194

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
2" x 3/4" Concentric Reducer Copper B-88	1	Each	0.75	0.8	54.09	43	5.91	6	0	0	0	0	49
1/2" Adapter Copper to Female SPS	1	Each	0.22	0.2	54.09	11	2.8518	3	0	0	0	0	14
1/2" Adapter Copper to Male SPS	7	Each	0.22	1.5	54.09	81	1.7934	13	0	0	0	0	94
3/4" Adapter Copper to Female SPS	1	Each	0.25	0.3	54.09	16	3.9186	4	0	0	0	0	20
3/4" Adapter Copper to Male SPS	3	Each	0.25	0.8	54.09	43	3.0156	9	0	0	0	0	52
1" Adapter Copper to Female SPS	8	Each	0.75	6.0	54.09	325	92.2656	738	0	0	0	0	1,063
2 1/2" Cap Wrought Copper B-88 Grooved End	1	Each	0.08	0.1	54.09	5	29.75	30	0	0	0	0	35
3" Cap Wrought Copper B-88 Grooved End	1	Each	0.08	0.1	54.09	5	37.375	37	0	0	0	0	42
1/2" Cap Wrought Copper B-88	273	Each	0.23	62.8	54.09	3,397	0.6258	171	0	0	0	0	3,568
3/4" Cap Wrought Copper B-88	49	Each	0.29	14.2	54.09	768	1.1634	57	0	0	0	0	825
1" Cap Wrought Copper B-88	81	Each	0.33	26.7	54.09	1,444	2.7594	224	0	0	0	0	1,668
1 1/4" Cap Wrought Copper B-88	116	Each	0.36	41.8	54.09	2,261	3.7086	430	0	0	0	0	2,691
1 1/2" Cap Wrought Copper B-88	14	Each	0.41	5.7	54.09	308	5.4012	76	0	0	0	0	384
2" Cap Wrought Copper B-88	5	Each	0.45	2.3	54.09	124	9.9666	50	0	0	0	0	174
1/2" Union Wrought Copper B-88	1	Each	0.41	0.4	54.09	22	9.3576	9	0	0	0	0	31
3/4" Union Wrought Copper B-88	2	Each	0.54	1.1	54.09	59	11.7642	24	0	0	0	0	83
3/4" Union Copper Solder to Female SPS	3	Each	0.63	1.9	54.09	103	29.9796	90	0	0	0	0	193
1 1/4" Union Wrought Copper B-88	6	Each	0.71	4.3	54.09	233	32.865	197	0	0	0	0	430
1 1/2" Union Wrought Copper B-88	1	Each	0.75	0.8	54.09	43	43.2516	43	0	0	0	0	86
2" Union Wrought Copper B-88	1	Each	0.87	0.9	54.09	49	73.7268	74	0	0	0	0	123
2 1/2" Companion Flange Cast Copper	18	Each	0.7	12.6	54.09	682	107.8938	1,942	0	0	0	0	2,624
3" Companion Flange Cast Copper	10	Each	0.85	8.5	54.09	460	111.6696	1,117	0	0	0	0	1,577
4" Companion Flange Cast Copper	23	Each	1.1	25.3	54.09	1,368	155.7906	3,583	0	0	0	0	4,951
4" Gate Valve Bronze 125# Flanged	1	Each	2	2.0	54.09	108	560	560	0	0	0	0	668
1 1/4" Check Valve Bronze 125# Solder	2	Each	0.78	1.6	54.09	87	60.5	121	0	0	0	0	208
2" Check Valve Bronze 125# Solder	1	Each	1	1.0	54.09	54	119	119	0	0	0	0	173
2 1/2" Ball Valve Bronze 125# Flanged	9	Each	1.2	10.8	54.09	584	33.5	302	0	0	0	0	886
2 1/2" Ball Valve Bronze 125# Solder	1	Each	1.5	1.5	54.09	81	76.01	76	0	0	0	0	157

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
3" Butterfly Valve Bronze 125# Flanged	3	Each	1.25	3.8	54.09	206	39.25	118	0	0	0	0	324
3" Ball Valve Bronze 125# Solder	2	Each	2.5	5.0	54.09	270	132	264	0	0	0	0	534
4" Butterfly Valve Bronze 125# Flanged	7	Each	1.35	9.5	54.09	514	41.03	287	0	0	0	0	801
1/2" Ball Valve Bronze 125# Solder	46	Each	0.25	11.5	54.09	622	5.1	235	0	0	0	0	857
1/2" Ball Valve Bronze 150# Solder	25	Each	0.19	4.8	54.09	260	4.34	109	0	0	0	0	369
3/4" Ball Valve Bronze 125# Screwed	33	Each	0.54	17.8	54.09	963	7.5	248	0	0	0	0	1,211
3/4" Ball Valve Bronze 125# Solder	27	Each	0.19	5.1	54.09	276	11.36	307	0	0	0	0	583
3/4" Ball Valve Bronze 150# Solder	28	Each	0.19	5.3	54.09	287	4.77	134	0	0	0	0	421
1" Ball Valve Bronze 125# Solder	12	Each	0.5	6.0	54.09	325	11.1	133	0	0	0	0	458
1" Ball Valve Bronze 150# Solder	10	Each	0.65	6.5	54.09	352	5.99	60	0	0	0	0	412
1 1/4" Ball Valve Bronze 125# Screwed	7	Each	0.77	5.4	54.09	292	20.94	147	0	0	0	0	439
1 1/4" Ball Valve Bronze 125# Solder	9	Each	0.93	8.4	54.09	454	24.5	221	0	0	0	0	675
1 1/4" Ball Valve Bronze 150# Solder	2	Each	0.56	1.1	54.09	59	10.07	20	0	0	0	0	79
1 1/2" Ball Valve Bronze 125# Screwed	1	Each	0.86	0.9	54.09	49	23.53	24	0	0	0	0	73
1 1/2" Ball Valve Bronze 125# Solder	10	Each	1.15	11.5	54.09	622	32.5	325	0	0	0	0	947
1 1/2" Ball Valve Bronze 150# Solder	5	Each	0.86	4.3	54.09	233	12.87	64	0	0	0	0	297
2" Ball Valve Bronze 125# Screwed	1	Each	1	1.0	54.09	54	49	49	0	0	0	0	103
2" Ball Valve Bronze 125# Solder	34	Each	1	34.0	54.09	1,839	56	1,904	0	0	0	0	3,743
2" Ball Valve Bronze 150# Solder	13	Each	0.951	12.4	54.09	671	50.04	651	0	0	0	0	1,322
1/2" Solenoid Valve Bronze 150# Screwed	31	Each	0.85	26.4	54.09	1,428	45.36	1,406	0	0	0	0	2,834
3/4" Solenoid Valve Bronze 150# Screwed	16	Each	1.03	16.5	54.09	892	55.44	887	0	0	0	0	1,779
3" Gate Valve IBBM 150# Flanged	1	Each	1.19	1.2	54.09	65	90.05	90	0	0	0	0	155
4" Check Valve IBBM 150# Flanged	4	Each	1.95	7.8	54.09	422	216.5	866	0	0	0	0	1,288
2 1/2" Ball Valve IBBM 150# Flanged	3	Each	1	3.0	54.09	162	224	672	0	0	0	0	834
2 1/2" 125# BN&G Set A307 Machine Bolts w/Nuts & 1/16" Composition Gasket	18	Each	0.65	11.7	54.09	633	5.95	107	0	0	0	0	740
3" 125# BN&G Set A307 Machine Bolts w/Nuts & 1/16" Composition Gasket	10	Each	0.65	6.5	54.09	352	6.23	62	0	0	0	0	414
4" 125# BN&G Set A307 Machine Bolts w/Nuts & 1/16" Composition Gasket	23	Each	0.9	20.7	54.09	1,120	10.22	235	0	0	0	0	1,355
Pipe Sleeve For 2 1/2" Pipe	1	Each	1	1.0	54.09	54	3.36	3	0	0	0	0	57

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR DOLLARS TOTAL	MATERIAL DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL DOLLARS					
Pipe Sleeve For 1/2" Pipe	119	Each	1	119.0	54.09	6,437	14	1,666	0	0	0	0	8,103
Pipe Sleeve For 3/4" Pipe	9	Each	1	9.0	54.09	487	14	126	0	0	0	0	613
Pipe Sleeve For 1 1/4" Pipe	11	Each	1	11.0	54.09	595	1.27	14	0	0	0	0	609
Pipe Sleeve For 2" Pipe	5	Each	1	5.0	54.09	270	2.87	14	0	0	0	0	284
3" Sleeve Shield	27	Each	0.5	13.5	37.43	505	35	945	0	0	0	0	1,450
4" Sleeve Shield	1	Each	0.5	0.5	37.43	19	2.8	3	0	0	0	0	22
6" Sleeve Shield	1	Each	0.5	0.5	37.43	19	35	35	0	0	0	0	54
2 1/2" Clevis Hanger w/Insulated Shield Copper Plated	80	Each	0.65	52.0	54.09	2,813	6.65	532	0	0	0	0	3,345
3" Clevis Hanger w/Insulated Shield Copper Plated	132	Each	0.65	85.8	54.09	4,641	7	924	0	0	0	0	5,565
4" Clevis Hanger w/Insulated Shield Copper Plated	44	Each	0.7	30.8	54.09	1,666	8.4	370	0	0	0	0	2,036
1/2" Clevis Hanger w/Insulation Shield Copper Plated	614	Each	0.5	307.0	54.09	16,606	3.54	2,174	0	0	0	0	18,780
3/4" Clevis Hanger w/Insulation Shield Copper Plated	716	Each	0.5	358.0	54.09	19,364	5.01	3,587	0	0	0	0	22,951
1" Clevis Hanger w/Insulation Shield Copper Plated	265	Each	0.5	132.5	54.09	7,167	3.95	1,047	0	0	0	0	8,214
1 1/4" Clevis Hanger w/Insulation Shield Copper Plated	228	Each	0.5	114.0	54.09	6,166	4.13	942	0	0	0	0	7,108
1 1/2" Clevis Hanger w/Insulation Shield Copper Plated	261	Each	0.5	130.5	54.09	7,059	4.31	1,125	0	0	0	0	8,184
2" Clevis Hanger w/Insulation Shield Copper Plated	303	Each	0.5	151.5	54.09	8,195	4.56	1,382	0	0	0	0	9,577
2 1/2" Pipe Anchor Copper Plated	2	Each	0.65	1.3	54.09	70	25.2	50	0	0	0	0	120
3" Pipe Anchor Copper Plated	1	Each	0.65	0.7	54.09	38	28	28	0	0	0	0	66
3/4" Pipe Anchor Copper Plated	3	Each	0.5	1.5	54.09	81	9.8	29	0	0	0	0	110
1" Pipe Anchor Copper Plated	4	Each	0.5	2.0	54.09	108	11.2	45	0	0	0	0	153
1 1/4" Pipe Anchor Copper Plated	3	Each	0.5	1.5	54.09	81	12.6	38	0	0	0	0	119
1 1/2" Pipe Anchor Copper Plated	15	Each	0.5	7.5	54.09	406	14	210	0	0	0	0	616
2" Pipe Anchor Copper Plated	5	Each	0.5	2.5	54.09	135	19.6	98	0	0	0	0	233
1" Pipe Guide Copper Plated	1	Each	0.5	0.5	54.09	27	14	14	0	0	0	0	41
2 1/2" Riser Clamp Copper Plated	1	Each	0.15	0.2	54.09	11	9.48	9	0	0	0	0	20
3" Riser Clamp Copper Plated	1	Each	0.15	0.2	54.09	11	10.98	11	0	0	0	0	22
1/2" Riser Clamp Copper Plated	86	Each	0.15	12.9	54.09	698	6.06	521	0	0	0	0	1,219
3/4" Riser Clamp Copper Plated	21	Each	0.15	3.2	54.09	173	6.06	127	0	0	0	0	300

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
1" Riser Clamp Copper Plated	1	Each	0.15	0.2	54.09	11	6.06	6	0	0	0	0	17
1 1/4" Riser Clamp Copper Plated	7	Each	0.15	1.1	54.09	59	6.27	44	0	0	0	0	103
2" Riser Clamp Copper Plated	4	Each	0.15	0.6	54.09	32	8.07	32	0	0	0	0	64
Trapeze Pipe Hanger - Steel/Copper Three Pipe 3" Largest Pipe Size	3	Each	3.5	10.5	54.09	568	7.35	22	0	0	0	0	590
Trapeze Pipe Hanger - Steel/Copper Three Pipe 4" Largest Pipe Size	8	Each	3.5	28.0	54.09	1,515	56	448	0	0	0	0	1,963
Thermometer	3	Each	1	3.0	54.09	162	50	150	0	0	0	0	312
3/4" Circuit Setter	2	Each	0.4	0.8	54.09	43	18	36	0	0	0	0	79
3/4" Flow Control Valve 4 GPM	1	Each	0.4	0.4	54.09	22	18	18	0	0	0	0	40
Balancing Valve	1	Each	1	1.0	54.09	54	35	35	0	0	0	0	89
*** DOMESTIC WATER SYSTEM ESTIMATED COST ***				6,211.3		335,724		172,868		0		0	508,592
UNDERGROUND DRAIN, WASTE & VENT SYSTEM													
3" Soil Pipe Cast Iron Service Weight Hub Type	731	Lin Ft	0.18	131.6	54.09	7,118	4.7931	3,504	0	0	0	0	10,622
4" Soil Pipe Cast Iron Service Weight Hub Type	3,899	Lin Ft	0.23	896.8	54.09	48,508	6.2283	24,284	0	0	0	0	72,792
6" Soil Pipe Cast Iron Service Weight Hub Type	272	Lin Ft	0.32	87.0	54.09	4,706	10.7055	2,912	0	0	0	0	7,618
8" Soil Pipe Cast Iron Service Weight Hub Type	260	Lin Ft	0.44	114.4	54.09	6,188	16.6725	4,335	0	0	0	0	10,523
12" Soil Pipe Cast Iron Service Weight Hub Type	70	Lin Ft	0.63	44.1	54.09	2,385	40.3104	2,822	0	0	0	0	5,207
2" Soil Pipe Cast Iron Service Weight Hub Type	3,958	Lin Ft	0.14	554.1	54.09	29,971	3.4749	13,754	0	0	0	0	43,725
3" Pipe DWV PVC Schedule 40 Plain End	155	Lin Ft	0.048	7.4	54.09	400	1.63	253	0	0	0	0	653
4" Pipe DWV PVC Schedule 40 Plain End	99	Lin Ft	0.054	5.3	54.09	287	2.3	228	0	0	0	0	515
1 1/2" Pipe DWV PVC Schedule 40 Plain End	435	Lin Ft	0.04	17.4	54.09	941	0.62	270	0	0	0	0	1,211
2" Pipe DWV PVC Schedule 40 Plain End	400	Lin Ft	0.05	20.0	54.09	1,082	0.81	324	0	0	0	0	1,406
3" 1/4 Bend Cast Iron Service Weight Hub	8	Each	0.7	5.6	54.09	303	11.36	91	0	0	0	0	394
4" 1/4 Bend Cast Iron Service Weight Hub	57	Each	0.85	48.5	54.09	2,623	11.1	633	0	0	0	0	3,256
6" 1/4 Bend Cast Iron Service Weight Hub	1	Each	1.13	1.1	54.09	59	25.72	26	0	0	0	0	85
2" 1/4 Bend Cast Iron Service Weight Hub	296	Each	0.6	177.6	54.09	9,606	8.48	2,510	0	0	0	0	12,116
3" Long Sweep Bend Cast Iron Hub Standard Weight	11	Each	0.68	7.5	54.09	406	18.16	200	0	0	0	0	606
4" Long Sweep Bend Cast Iron Hub Service Weight	50	Each	0.85	42.5	54.09	2,299	26.96	1,348	0	0	0	0	3,647
2" Long Sweep Bend Cast Iron Hub Service Weight	73	Each	0.6	43.8	54.09	2,369	12.88	940	0	0	0	0	3,309

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
3" 1/8 Bend Cast Iron Hub Service Weight	14	Each	0.6	8.4	54.09	454	9.48	133	0	0	0	0	587
4" 1/8 Bend Cast Iron Hub Service Weight	43	Each	0.8	34.4	54.09	1,861	13.84	595	0	0	0	0	2,456
6" 1/8 Bend Cast Iron Hub Service Weight	3	Each	1.1	3.3	54.09	178	23.48	70	0	0	0	0	248
8" 1/8 Bend Cast Iron Hub Service Weight	2	Each	1.46	2.9	54.09	157	70.08	140	0	0	0	0	297
12" 1/8 Bend Cast Iron Hub Service Weight	1	Each	2.31	2.3	54.09	124	191.24	191	0	0	0	0	315
2" 1/8 Bend Cast Iron Hub Service Weight	57	Each	0.8	45.6	54.09	2,467	6.04	344	0	0	0	0	2,811
3" P Trap Cast Iron Hub Service Weight	30	Each	0.75	22.5	54.09	1,217	20.2	606	0	0	0	0	1,823
4" P Trap Cast Iron Hub Service Weight	1	Each	0.92	0.9	54.09	49	29.12	29	0	0	0	0	78
2" P Trap Cast Iron Hub Service Weight	218	Each	0.65	141.7	54.09	7,665	13.52	2,947	0	0	0	0	10,612
4" Floor Cleanout Cast Iron Hub Service Weight	19	Each	0.5	9.5	54.09	514	65.8	1,250	0	0	0	0	1,764
3" Tee Cast Iron Hub Service Weight	1	Each	1.11	1.1	54.09	59	19.16	19	0	0	0	0	78
4" Tee Cast Iron Hub Service Weight	1	Each	1.06	1.1	54.09	59	23.48	23	0	0	0	0	82
2" Tee Cast Iron Hub Service Weight	149	Each	0.77	114.7	54.09	6,204	11.88	1,770	0	0	0	0	7,974
3" x 2" Reducing Tee Cast Iron Hub Service Weight	10	Each	0.96	9.6	54.09	519	16.48	165	0	0	0	0	684
4" x 2" Reducing Tee Cast Iron Hub Service Weight	19	Each	1.26	23.9	54.09	1,293	20.04	381	0	0	0	0	1,674
5" x 2" Reducing Tee Cast Iron Hub Service Weight	1	Each	1.58	1.6	54.09	87	8.4	8	0	0	0	0	95
3" Wye Cast Iron Hub Service Weight	3	Each	1.17	3.5	54.09	189	20.04	60	0	0	0	0	249
4" Wye Cast Iron Hub Service Weight	41	Each	1.53	62.7	54.09	3,391	26.84	1,100	0	0	0	0	4,491
6" Wye Cast Iron Hub Service Weight	3	Each	1.8	5.4	54.09	292	61.72	185	0	0	0	0	477
2" Wye Cast Iron Hub Service Weight	24	Each	0.77	18.5	54.09	1,001	10.8	259	0	0	0	0	1,260
3" x 2" Reducing Wye Cast Iron Hub Service Weight	6	Each	0.72	4.3	54.09	233	15.56	93	0	0	0	0	326
4" x 3" Reducing Wye Cast Iron Hub Service Weight	15	Each	1.01	15.2	54.09	822	23	345	0	0	0	0	1,167
4" x 2" Reducing Wye Cast Iron Hub Service Weight	72	Each	0.96	69.1	54.09	3,738	20.84	1,500	0	0	0	0	5,238
6" x 4" Reducing Wye Cast Iron Hub Service Weight	1	Each	1.54	1.5	54.09	81	41.64	42	0	0	0	0	123
6" x 3" Reducing Wye Cast Iron Hub Service Weight	1	Each	1.5	1.5	54.09	81	40	40	0	0	0	0	121
6" x 3" Reducing Wye Cast Iron Hub Service Weight	3	Each	1.45	4.4	54.09	238	39.16	117	0	0	0	0	355
8" x 4" Reducing Wye Cast Iron Hub Service Weight	2	Each	1.74	3.5	54.09	189	75.52	151	0	0	0	0	340
8" x 3" Reducing Wye Cast Iron Hub Service Weight	2	Each	1.7	3.4	54.09	184	87.6	175	0	0	0	0	359

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
12" x 6" Reducing Wye Cast Iron Hub Service Weight	1	Each	4.16	4.2	54.09	227	229.92	230	0	0	0	0	457
3" Wye & 1/8 Bend Cast Iron Hub Service Weight	4	Each	1.4	5.6	54.09	303	22.6	90	0	0	0	0	393
4" Wye & 1/8 Bend Cast Iron Hub Service Weight	61	Each	1.5	91.5	54.09	4,949	31.12	1,898	0	0	0	0	6,847
12" Wye & 1/8 Bend Cast Iron Hub Service Weight	1	Each	5.1	5.1	54.09	276	350	350	0	0	0	0	626
2" Wye & 1/8 Bend Cast Iron Hub Service Weight	29	Each	1.2	34.8	54.09	1,882	15.2	441	0	0	0	0	2,323
3" x 2" Reducing Combo Wye Cast Iron Hub Service Weight	18	Each	0.98	17.6	54.09	952	17.04	307	0	0	0	0	1,259
4" x 3" Reducing Combo Wye Cast Iron Hub Service Weight	12	Each	1.75	21.0	54.09	1,136	27	324	0	0	0	0	1,460
4" x 2" Reducing Combo Wye Cast Iron Hub Service Weight	102	Each	1.75	178.5	54.09	9,655	23	2,346	0	0	0	0	12,001
6" x 4" Reducing Combo Wye Cast Iron Hub Service Weight	5	Each	1.95	9.8	54.09	530	53.84	269	0	0	0	0	799
6" x 2" Reducing Combo Wye Cast Iron Hub Service Weight	1	Each	1.95	2.0	54.09	108	48.2	48	0	0	0	0	156
8" x 4" Reducing Combo Wye Cast Iron Hub Service Weight	4	Each	2.38	9.5	54.09	514	89.52	358	0	0	0	0	872
8" x 3" Reducing Combo Wye Cast Iron Hub Service Weight	2	Each	2.33	4.7	54.09	254	32.13	64	0	0	0	0	318
12" x 4" Reducing Combo Wye Cast Iron Hub Service Weight	1	Each	4.15	4.2	54.09	227	14	14	0	0	0	0	241
3" x 2" Reducing Cross Cast Iron Hub Service Weight	2	Each	1.32	2.6	54.09	141	30.84	62	0	0	0	0	203
4" Test Tee Cast Iron Hub Service Weight	1	Each	1.5	1.5	54.09	81	50.01	50	0	0	0	0	131
4" Tap Tee Cast Iron Hub Service Weight	4	Each	2.03	8.1	54.09	438	58.56	234	0	0	0	0	672
3" Double Wye Cast Iron Hub Service Weight	1	Each	1.32	1.3	54.09	70	32.84	33	0	0	0	0	103
4" Double Wye Cast Iron Hub Service Weight	10	Each	1.86	18.6	54.09	1,006	43	430	0	0	0	0	1,436
2" Double Wye Cast Iron Hub Service Weight	4	Each	0.9	3.6	54.09	195	14.94	60	0	0	0	0	255
4" x 2" Reducing Double Wye Cast Iron Hub Service Weight	3	Each	1.81	5.4	54.09	292	33.76	101	0	0	0	0	393
3" Double Combo Wye Cast Iron Hub Service Weight	6	Each	1.73	10.4	54.09	563	39	234	0	0	0	0	797
4" Double Combo Wye Cast Iron Hub Service Weight	2	Each	2.34	4.7	54.09	254	63.96	128	0	0	0	0	382
2" Double Combo Wye Cast Iron Hub Service Weight	6	Each	1.16	7.0	54.09	379	23.91	143	0	0	0	0	522
3" x 2" Reducing Double Combo Cast Iron Hub Service Weight	6	Each	1.85	11.1	54.09	600	33.28	200	0	0	0	0	800
4" x 3" Reducing Double Combo Cast Iron Hub Service Weight	4	Each	2.25	9.0	54.09	487	44.88	180	0	0	0	0	667
4" x 2" Reducing Double Combo Cast Iron Hub Service Weight	10	Each	1.89	18.9	54.09	1,022	39.48	395	0	0	0	0	1,417
12" x 4" Reducing Double Combo Cast Iron Hub Service Weight	1	Each	6.34	6.3	54.09	341	110	110	0	0	0	0	451
4" x 2" Concentric Reducer Cast Iron Hub Service Weight	2	Each	0.64	1.3	54.09	70	9.52	19	0	0	0	0	89

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
6" x 4" Concentric Reducer Cast Iron Hub Service Weight	2	Each	0.68	1.4	54.09	76	21.8	44	0	0	0	0	120
6" x 2" Concentric Reducer Cast Iron Hub Service Weight	1	Each	0.62	0.6	54.09	32	20.4	20	0	0	0	0	52
4" Plug Cast Iron Hub Service Weight	5	Each	0.05	0.3	54.09	16	7.4	37	0	0	0	0	53
2" Plug Cast Iron Hub Service Weight	1	Each	0.04	0.1	54.09	5	4.24	4	0	0	0	0	9
3" 1/4 Bend PVC Solvent Weld Standard Weight	4	Each	0.5	2.0	54.09	108	3.429	14	0	0	0	0	122
1 1/2" 1/4 Bend PVC Solvent Weld Standard Weight	14	Each	0.4	5.6	54.09	303	0.7335	10	0	0	0	0	313
2" 1/4 Bend PVC Solvent Weld Standard Weight	13	Each	0.36	4.7	54.09	254	1.161	15	0	0	0	0	269
3" Long Sweep Bend PVC Solvent Weld Standard Weight	2	Each	0.64	1.3	54.09	70	4.5	9	0	0	0	0	79
4" Long Sweep Bend PVC Solvent Weld Standard Weight	4	Each	0.84	3.4	54.09	184	8.586	34	0	0	0	0	218
1 1/2" Long Sweep Bend PVC Solvent Weld Standard Weight	7	Each	0.3	2.1	54.09	114	1.7685	12	0	0	0	0	126
2" Long Sweep Bend PVC Solvent Weld Standard Weight	9	Each	0.36	3.2	54.09	173	1.54	14	0	0	0	0	187
3" 1/8 Bend PVC Solvent Weld Standard Weight	6	Each	0.64	3.8	54.09	206	3.06	18	0	0	0	0	224
4" 1/8 Bend PVC Solvent Weld Standard Weight	3	Each	0.84	2.5	54.09	135	5.3685	16	0	0	0	0	151
1 1/2" 1/8 Bend PVC Solvent Weld Standard Weight	8	Each	0.3	2.4	54.09	130	0.7245	6	0	0	0	0	136
2" 1/8 Bend PVC Solvent Weld Standard Weight	7	Each	0.36	2.5	54.09	135	1.035	7	0	0	0	0	142
3" P Trap PVC Solvent Weld Standard Weight	1	Each	0.64	0.6	54.09	32	2.06	2	0	0	0	0	34
2" P Trap PVC Solvent Weld Standard Weight	2	Each	0.4	0.8	54.09	43	7.1505	14	0	0	0	0	57
3" Tee PVC Solvent Weld Standard Weight	2	Each	0.95	1.9	54.09	103	5.148	10	0	0	0	0	113
2" Tee PVC Solvent Weld Standard Weight	2	Each	0.6	1.2	54.09	65	1.9575	4	0	0	0	0	69
3" x 2" Reducing Tee PVC Solvent Weld Standard Weight	8	Each	1.3	10.4	54.09	563	3.8475	31	0	0	0	0	594
4" x 3" Reducing Tee PVC Solvent Weld Standard Weight	1	Each	1.3	1.3	54.09	70	11.115	11	0	0	0	0	81
2" x 1 1/2" Reducing Tee PVC Solvent Weld Standard Weight	15	Each	0.64	9.6	54.09	519	1.7325	26	0	0	0	0	545
4" Wye PVC Solvent Weld Standard Weight	1	Each	1.25	1.3	54.09	70	11.691	12	0	0	0	0	82
2" Wye PVC Solvent Weld Standard Weight	3	Each	0.6	1.8	54.09	97	2.385	7	0	0	0	0	104
3" x 2" Reducing Wye PVC Solvent Weld Standard Weight	2	Each	0.95	1.9	54.09	103	4.77	10	0	0	0	0	113
4" x 3" Reducing Wye PVC Solvent Weld Standard Weight	1	Each	1.25	1.3	54.09	70	9.4905	9	0	0	0	0	79
4" x 2" Reducing Wye PVC Solvent Weld Standard Weight	1	Each	1.25	1.3	54.09	70	7.0335	7	0	0	0	0	77
4" x 1 1/2" Reducing Wye PVC Solvent Weld Standard Weight	6	Each	1.25	7.5	54.09	406	12.6	76	0	0	0	0	482

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
2" x 1 1/2" Reducing Wye PVC Solvent Weld Standard Weight	6	Each	0.85	5.1	54.09	276	2.934	18	0	0	0	0	294
4" Wye & 1/8 Bend PVC Solvent Weld Standard Weight	2	Each	1.45	2.9	54.09	157	21.888	44	0	0	0	0	201
2" Wye & 1/8 Bend PVC Solvent Weld Standard Weight	2	Each	0.7	1.4	54.09	76	3.4425	7	0	0	0	0	83
3" x 2" Reducing Combo Wye PVC Solvent Weld Standard Weight	3	Each	1	3.0	54.09	162	5.6655	17	0	0	0	0	179
4" x 3" Reducing Combo Wye PVC Solvent Weld Standard Weight	2	Each	1.3	2.6	54.09	141	11.511	23	0	0	0	0	164
3" x 2" Reducing Cross PVC Solvent Weld Standard Weight	2	Each	1.22	2.4	54.09	130	6.75	14	0	0	0	0	144
1 1/2" Tap Tee PVC Solvent Weld Standard Weight	21	Each	0.6	12.6	54.09	682	0.6	13	0	0	0	0	695
2" x 1 1/2" Reducing Tap Tee PVC Solvent Weld Standard Weight	2	Each	1.2	2.4	54.09	130	0.42	1	0	0	0	0	131
4" Double Wye PVC Solvent Weld Standard Weight	1	Each	1.9	1.9	54.09	103	25.929	26	0	0	0	0	129
2" Tapped Cross PVC Solvent Weld Standard Weight	1	Each	1.4	1.4	54.09	76	4.2	4	0	0	0	0	80
3" x 2" Concentric Reducer PVC Solvent Weld Standard Weight	4	Each	0.3	1.2	54.09	65	2.4795	10	0	0	0	0	75
4" x 2" Concentric Reducer PVC Solvent Weld Standard Weight	1	Each	0.5	0.5	54.09	27	4.914	5	0	0	0	0	32
2" x 1 1/2" Concentric Reducer PVC Solvent Weld Standard Weight	3	Each	0.36	1.1	54.09	59	0.33	1	0	0	0	0	60
3" Plug PVC Screwed Standard Weight	1	Each	0.04	0.1	54.09	5	1.287	1	0	0	0	0	6
4" Plug PVC Screwed Standard Weight	4	Each	0.05	0.2	54.09	11	1.899	8	0	0	0	0	19
2" Plug PVC Screwed Standard Weight	1	Each	0.25	0.3	54.09	16	0.6615	1	0	0	0	0	17
3" Rubber Joint	54	Each	0	0.0	0	0	3.87	209	0	0	0	0	209
4" Rubber Joint	66	Each	0	0.0	0	0	4.2	277	0	0	0	0	277
6" Rubber Joint	31	Each	0	0.0	0	0	5.01	155	0	0	0	0	155
2" Rubber Joint	52	Each	0	0.0	0	0	2.5	130	0	0	0	0	130
Pipe Sleeve For 3" Pipe	2	Each	1	2.0	54.09	108	21	42	0	0	0	0	150
Pipe Sleeve For 4" Pipe	6	Each	1	6.0	54.09	325	28	168	0	0	0	0	493
Pipe Sleeve For 1 1/2" Pipe	11	Each	1	11.0	54.09	595	2.11	23	0	0	0	0	618
Pipe Sleeve For 2" Pipe	11	Each	1	11.0	54.09	595	2.87	32	0	0	0	0	627
3" Clevis Hanger PVC Coated Steel	7	Each	1.1	7.7	54.09	416	8.04	56	0	0	0	0	472
4" Clevis Hanger PVC Coated Steel	8	Each	1.4	11.2	54.09	606	8.85	71	0	0	0	0	677
1 1/2" Clevis Hanger PVC Coated Steel	25	Each	1.05	26.3	54.09	1,423	5.31	133	0	0	0	0	1,556
2" Clevis Hanger PVC Coated Steel	31	Each	1.05	32.6	54.09	1,763	5.4	167	0	0	0	0	1,930

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS	
Excavation & Backfill	8,025	Lin Ft	0	0.0	0	0	0	0	0	0	12	96,300	96,300	
*** UNDERGROUND DRAIN, WASTE & VENT SYSTEM ESTIMATED COST ***				3,543.2				191,648		82,425		0	96,300	370,373
ACID WASTE SYSTEM														
3" Pipe Polypropylene Schedule 40 Plain End	605	Lin Ft	0.072	43.6	54.09	2,358	8.4	5,082	0	0	0	0	7,440	
4" Pipe Polypropylene Schedule 40 Plain End	240	Lin Ft	0.07	16.8	54.09	909	11.25	2,700	0	0	0	0	3,609	
1 1/2" Pipe Polypropylene Schedule 40 Plain End	2,116	Lin Ft	0.054	114.3	54.09	6,182	3.7	7,829	0	0	0	0	14,011	
2" Pipe Polypropylene Schedule 40 Plain End	2,701	Lin Ft	0.05	135.1	54.09	7,308	4.2	11,344	0	0	0	0	18,652	
3" 1/4 Bend Polypropylene Fusion Weld Standard Weight	5	Each	0.7	3.5	54.09	189	40.8	204	0	0	0	0	393	
4" 1/4 Bend Polypropylene Fusion Weld Standard Weight	1	Each	0.65	0.7	54.09	38	78.2	78	0	0	0	0	116	
1 1/2" 1/4 Bend Polypropylene Fusion Weld Standard Weight	155	Each	0.4	62.0	54.09	3,354	25.45	3,945	0	0	0	0	7,299	
2" 1/4 Bend Polypropylene Fusion Weld Standard Weight	174	Each	0.45	78.3	54.09	4,235	31.75	5,525	0	0	0	0	9,760	
1 1/2" Long Sweep Bend Polypropylene Fusion Weld Standard Weight	42	Each	0.4	16.8	54.09	909	27.25	1,145	0	0	0	0	2,054	
2" Long Sweep Bend Polypropylene Fusion Weld Standard Weight	1	Each	0.45	0.5	54.09	27	36	36	0	0	0	0	63	
3" 1/8 Bend Polypropylene Fusion Weld Standard Weight	1	Each	0.76	0.8	54.09	43	56.15	56	0	0	0	0	99	
1 1/2" 1/8 Bend Polypropylene Fusion Weld Standard Weight	82	Each	0.4	32.8	54.09	1,774	25.4	2,083	0	0	0	0	3,857	
2" 1/8 Bend Polypropylene Fusion Weld Standard Weight	19	Each	0.45	8.6	54.09	465	30.65	582	0	0	0	0	1,047	
2" P Trap Polypropylene Fusion Weld Standard Weight	10	Each	0.66	6.6	54.09	357	70.45	705	0	0	0	0	1,062	
3" Wall Cleanout Polypropylene Fusion Weld Standard Weight	2	Each	1	2.0	54.09	108	64.96	130	0	0	0	0	238	
1 1/2" Tee Polypropylene Fusion Weld Standard Weight	41	Each	0.61	25.0	54.09	1,352	31.9	1,308	0	0	0	0	2,660	
2" Tee Polypropylene Fusion Weld Standard Weight	88	Each	0.8	70.4	54.09	3,808	37.9	3,335	0	0	0	0	7,143	
3" x 2" Reducing Tee Polypropylene Fusion Weld Standard Weight	13	Each	1.3	16.9	54.09	914	82.8	1,076	0	0	0	0	1,990	
3" x 1 1/2" Reducing Tee Polypropylene Fusion Weld Standard Weight	2	Each	1.3	2.6	54.09	141	66.25	133	0	0	0	0	274	
2" x 1 1/2" Reducing Tee Polypropylene Fusion Weld Standard Weight	39	Each	0.64	25.0	54.09	1,352	37.9	1,478	0	0	0	0	2,830	
3" Wye Polypropylene Fusion Weld Standard Weight	1	Each	1.17	1.2	54.09	65	80.8	81	0	0	0	0	146	
4" Wye Polypropylene Fusion Weld Standard Weight	2	Each	1.8	3.6	54.09	195	118.1	236	0	0	0	0	431	
1 1/2" Wye Polypropylene Fusion Weld Standard Weight	13	Each	0.61	7.9	54.09	427	32.4	421	0	0	0	0	848	
2" Wye Polypropylene Fusion Weld Standard Weight	12	Each	0.7	8.4	54.09	454	45.95	551	0	0	0	0	1,005	
3" x 2" Reducing Wye Polypropylene Fusion Welded Standard Weight	4	Each	1.3	5.2	54.09	281	75.85	303	0	0	0	0	584	

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
4" x 3" Reducing Wye Polypropylene Fusion Welded Standard Weight	3	Each	1.5	4.5	54.09	243	113.05	339	0	0	0	0	582
4" x 2" Reducing Wye Polypropylene Fusion Welded Standard Weight	3	Each	1.5	4.5	54.09	243	108.65	326	0	0	0	0	569
2" x 1 1/2" Reducing Wye Polypropylene Fusion Welded Standard Weight	14	Each	0.85	11.9	54.09	644	45.45	636	0	0	0	0	1,280
3" Wye & 1/8 Bend Polypropylene Fusion Welded Standard Weight	16	Each	1.03	16.5	54.09	892	90.85	1,454	0	0	0	0	2,346
4" Wye & 1/8 Bend Polypropylene Fusion Welded Standard Weight	3	Each	1.8	5.4	54.09	292	130.1	390	0	0	0	0	682
1 1/2" Wye & 1/8 Bend Polypropylene Fusion Welded Standard Weight	3	Each	0.6	1.8	54.09	97	42.3	127	0	0	0	0	224
2" Wye & 1/8 Bend Polypropylene Fusion Welded Standard Weight	49	Each	0.7	34.3	54.09	1,855	56.5	2,769	0	0	0	0	4,624
3" x 2" Reducing Combo Wye Polypropylene Fusion Weld Standard Weight	30	Each	1.17	35.1	54.09	1,899	81.05	2,432	0	0	0	0	4,331
4" x 3" Reducing Combo Wye Polypropylene Fusion Weld Standard Weight	2	Each	1.8	3.6	54.09	195	118	236	0	0	0	0	431
4" x 2" Reducing Combo Wye Polypropylene Fusion Weld Standard Weight	14	Each	1.8	25.2	54.09	1,363	112.3	1,572	0	0	0	0	2,935
2" x 1 1/2" Reducing Combo Wye Polypropylene Fusion Weld Standard Weight	15	Each	0.95	14.3	54.09	773	52.2	783	0	0	0	0	1,556
3" Test Tee Polypropylene Fusion Weld Standard Weight	2	Each	2.02	4.0	54.09	216	150	300	0	0	0	0	516
2" Tap Tee Polypropylene Fusion Weld Standard Weight	36	Each	0.7	25.2	54.09	1,363	42	1,512	0	0	0	0	2,875
2" Double Wye Polypropylene Fusion Weld Standard Weight	2	Each	2.04	4.1	54.09	222	125	250	0	0	0	0	472
2" Double Combo Wye Polypropylene Fusion Weld Standard Weight	1	Each	0.9	0.9	54.09	49	41.54	42	0	0	0	0	91
3" x 2" Reducing Double Combo Wye Polypropylene Fusion Weld Standard Weight	1	Each	1.2	1.2	54.09	65	49	49	0	0	0	0	114
3" x 2" Concentric Reducer Polypropylene Fusion Weld Standard Weight	5	Each	1.17	5.9	54.09	319	7.64	38	0	0	0	0	357
2" x 1 1/2" Concentric Reducer Polypropylene Fusion Weld Standard Weight	31	Each	0.43	13.3	54.09	719	6.44	200	0	0	0	0	919
1 1/2" Plug Polypropylene Screwed Standard Weight	22	Each	0.25	5.5	54.09	297	10.15	223	0	0	0	0	520
2" Plug Polypropylene Screwed Standard Weight	6	Each	0.25	1.5	54.09	81	6.55	39	0	0	0	0	120
3" Fusion Weld Polypropylene Schedule 40	56	Each	1.1	61.6	54.09	3,332	1.62	91	0	0	0	0	3,423
4" Fusion Weld Polypropylene Schedule 40	20	Each	1.3	26.0	54.09	1,406	2.31	46	0	0	0	0	1,452
1 1/2" Fusion Weld Polypropylene Schedule 40	40	Each	0.09	3.6	54.09	195	0.57	23	0	0	0	0	218
2" Fusion Weld Polypropylene Schedule 40	630	Each	1	630.0	54.09	34,077	7.59	4,782	0	0	0	0	38,859
Pipe Sleeve for 1 1/2" Pipe	51	Each	1	51.0	54.09	2,759	2.11	108	0	0	0	0	2,867
Pipe Sleeve for 2" Pipe	18	Each	1	18.0	54.09	974	2.87	52	0	0	0	0	1,026

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR DOLLARS TOTAL	LABOR DOLLARS UNIT	MATERIAL DOLLARS TOTAL	MATERIAL DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	SUBCONTRACT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	TOTAL DOLLARS
3" Clevis Hanger PVC Coated Steel	26	Each	1.1	28.6	54.09	1,547	8.04	209	0	0	0	1,756
1 1/2" Clevis Hanger PVC Coated Steel	191	Each	1.05	200.6	54.09	10,850	5.31	1,014	0	0	0	11,864
2" Clevis Hanger PVC Coated Steel	276	Each	1.05	289.8	54.09	15,675	5.4	1,490	0	0	0	17,165
3" Riser Clamp PVC Coated Steel	6	Each	0.22	1.3	54.09	70	21.57	129	0	0	0	199
1 1/2" Riser Clamp PVC Coated Steel	59	Each	0.2	11.8	54.09	638	15.6	920	0	0	0	1,558
2" Riser Clamp PVC Coated Steel	38	Each	0.2	7.6	54.09	411	17.19	653	0	0	0	1,064
Excavation & Backfill	976	Lin Ft	0	0.0	0	0	0	0	0	12	11,712	11,712
*** ACID WASTE SYSTEM ESTIMATED COST ***				2,237.2		121,006		73,600			11,712	206,318
ABOVEGROUND DRAIN, WASTE & VENT SYSTEM												
3" Soil Pipe Cast Iron Service Weight Hub Type	178	Lin Ft	0.18	32.0	54.09	1,731	4.7931	853	0	0	0	2,584
4" Soil Pipe Cast Iron Service Weight Hub Type	395	Lin Ft	0.23	90.9	54.09	4,917	6.2283	2,460	0	0	0	7,377
2" Soil Pipe Cast Iron Service Weight Hub Type	252	Lin Ft	0.14	35.3	54.09	1,909	3.4749	876	0	0	0	2,785
3" Pipe DWV PVC Schedule 40 Plain End	859	Lin Ft	0.048	41.2	54.09	2,229	1.63	1,400	0	0	0	3,629
4" Pipe DWV PVC Schedule 40 Plain End	877	Lin Ft	0.054	47.4	54.09	2,564	2.3	2,017	0	0	0	4,581
6" Pipe DWV PVC Schedule 40 Plain End	11	Lin Ft	0.11	1.2	54.09	65	4.08	45	0	0	0	110
1 1/2" Pipe DWV PVC Schedule 40 Plain End	2,306	Lin Ft	0.04	92.2	54.09	4,987	0.62	1,430	0	0	0	6,417
2" Pipe DWV PVC Schedule 40 Plain End	6,125	Lin Ft	0.05	306.3	54.09	16,568	0.81	4,961	0	0	0	21,529
4" 1/4 Bend Cast Iron Service Weight Hub	1	Each	0.85	0.9	54.09	49	11.1	11	0	0	0	60
2" 1/4 Bend Cast Iron Service Weight Hub	28	Each	0.6	16.8	54.09	909	8.48	237	0	0	0	1,146
3" Long Sweep Bend Cast Iron Hub Standard Weight	6	Each	0.68	4.1	54.09	222	18.16	109	0	0	0	331
4" Long Sweep Bend Cast Iron Hub Service Weight	2	Each	0.85	1.7	54.09	92	26.96	54	0	0	0	146
2" Long Sweep Bend Cast Iron Hub Service Weight	6	Each	0.6	3.6	54.09	195	12.88	77	0	0	0	272
3" 1/8 Bend Cast Iron Hub Service Weight	5	Each	0.6	3.0	54.09	162	9.48	47	0	0	0	209
4" 1/8 Bend Cast Iron Hub Service Weight	3	Each	0.8	2.4	54.09	130	13.84	42	0	0	0	172
2" 1/8 Bend Cast Iron Hub Service Weight	2	Each	0.8	1.6	54.09	87	6.04	12	0	0	0	99
3" P Trap Cast Iron Hub Service Weight	24	Each	0.75	18.0	54.09	974	20.2	485	0	0	0	1,459
4" P Trap Cast Iron Hub Service Weight	4	Each	0.92	3.7	54.09	200	29.12	116	0	0	0	316
2" Tee Cast Iron Hub Service Weight	12	Each	0.77	9.2	54.09	498	11.88	143	0	0	0	641

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
3" x 2" Reducing Tee Cast Iron Hub Service Weight	14	Each	0.96	13.4	54.09	725	16.48	231	0	0	0	0	956
4" x 2" Reducing Tee Cast Iron Hub Service Weight	4	Each	1.26	5.0	54.09	270	20.04	80	0	0	0	0	350
4" Wye Cast Iron Hub Service Weight	7	Each	1.53	10.7	54.09	579	26.84	188	0	0	0	0	767
3" x 2" Reducing Wye Cast Iron Hub Service Weight	3	Each	0.72	2.2	54.09	119	15.56	47	0	0	0	0	166
4" x 3" Reducing Wye Cast Iron Hub Service Weight	11	Each	1.01	11.1	54.09	600	23	253	0	0	0	0	853
4" x 2" Reducing Wye Cast Iron Hub Service Weight	2	Each	0.96	1.9	54.09	103	20.84	42	0	0	0	0	145
4" Wye & 1/8 Bend Cast Iron Hub Service Weight	8	Each	1.5	12.0	54.09	649	31.12	249	0	0	0	0	898
4" x 3" Reducing Combo Wye Cast Iron Hub Service Weight	7	Each	1.75	12.3	54.09	665	27	189	0	0	0	0	854
4" x 2" Reducing Combo Wye Cast Iron Hub Service Weight	1	Each	1.75	1.8	54.09	97	23	23	0	0	0	0	120
4" x 3" Reducing Double Combo Cast Iron Hub Service Weight	1	Each	2.25	2.3	54.09	124	44.88	45	0	0	0	0	169
4" x 3" Concentric Reducer Cast Iron Hub Standard Weight	5	Each	0.62	3.1	54.09	168	10.8	54	0	0	0	0	222
4" x 2" Concentric Reducer Cast Iron Hub Service Weight	1	Each	0.64	0.6	54.09	32	9.52	10	0	0	0	0	42
3" 1/4 Bend PVC Solvent Weld Standard Weight	11	Each	0.5	5.5	54.09	297	3.429	38	0	0	0	0	335
4" 1/4 Bend PVC Solvent Weld Standard Weight	23	Each	0.67	15.4	54.09	833	6.741	155	0	0	0	0	988
6" 1/4 Bend PVC Solvent Weld Standard Weight	1	Each	0.91	0.9	54.09	49	23.652	24	0	0	0	0	73
1 1/2" 1/4 Bend PVC Solvent Weld Standard Weight	106	Each	0.4	42.4	54.09	2,293	0.7335	78	0	0	0	0	2,371
2" 1/4 Bend PVC Solvent Weld Standard Weight	301	Each	0.36	108.4	54.09	5,863	1.161	349	0	0	0	0	6,212
4" Long Sweep Bend PVC Solvent Weld Standard Weight	3	Each	0.84	2.5	54.09	135	8.586	26	0	0	0	0	161
1 1/2" Long Sweep Bend PVC Solvent Weld Standard Weight	10	Each	0.3	3.0	54.09	162	1.7685	18	0	0	0	0	180
2" Long Sweep Bend PVC Solvent Weld Standard Weight	16	Each	0.36	5.8	54.09	314	1.54	25	0	0	0	0	339
3" 1/8 Bend PVC Solvent Weld Standard Weight	11	Each	0.64	7.0	54.09	379	3.06	34	0	0	0	0	413
4" 1/8 Bend PVC Solvent Weld Standard Weight	8	Each	0.84	6.7	54.09	362	5.3685	43	0	0	0	0	405
1 1/2" 1/8 Bend PVC Solvent Weld Standard Weight	17	Each	0.3	5.1	54.09	276	0.7245	12	0	0	0	0	288
2" 1/8 Bend PVC Solvent Weld Standard Weight	43	Each	0.36	15.5	54.09	838	1.035	45	0	0	0	0	883
3" P Trap PVC Solvent Weld Standard Weight	3	Each	0.64	1.9	54.09	103	2.06	6	0	0	0	0	109
2" P Trap PVC Solvent Weld Standard Weight	17	Each	0.4	6.8	54.09	368	7.1505	122	0	0	0	0	490
4" Wall Cleanout PVC Solvent Weld Standard Weight	3	Each	0.3	0.9	54.09	49	13.26	40	0	0	0	0	89
3" Tee PVC Solvent Weld Standard Weight	8	Each	0.95	7.6	54.09	411	5.148	41	0	0	0	0	452

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
4" Tee PVC Solvent Weld Standard Weight	8	Each	1.3	10.4	54.09	563	9.153	73	0	0	0	0	636
1 1/2" Tee PVC Solvent Weld Standard Weight	13	Each	0.6	7.8	54.09	422	1.332	17	0	0	0	0	439
2" Tee PVC Solvent Weld Standard Weight	203	Each	0.6	121.8	54.09	6,588	1.9575	397	0	0	0	0	6,985
3" x 2" Reducing Tee PVC Solvent Weld Standard Weight	31	Each	1.3	40.3	54.09	2,180	3.8475	119	0	0	0	0	2,299
3" x 1 1/2" Reducing Tee PVC Solvent Weld Standard Weight	6	Each	1.3	7.8	54.09	422	3.6405	22	0	0	0	0	444
4" x 3" Reducing Tee PVC Solvent Weld Standard Weight	3	Each	1.3	3.9	54.09	211	11.115	33	0	0	0	0	244
4" x 2" Reducing Tee PVC Solvent Weld Standard Weight	23	Each	1.3	29.9	54.09	1,617	8.181	188	0	0	0	0	1,805
4" x 1 1/2" Reducing Tee PVC Solvent Weld Standard Weight	3	Each	1.5	4.5	54.09	243	9.0585	27	0	0	0	0	270
4" x 1 1/4" Reducing Tee PVC Solvent Weld Standard Weight	1	Each	1.09	1.1	54.09	59	5.17	5	0	0	0	0	64
2" x 1 1/2" Reducing Tee PVC Solvent Weld Standard Weight	50	Each	0.64	32.0	54.09	1,731	1.7325	87	0	0	0	0	1,818
3" Wye PVC Solvent Weld Standard Weight	2	Each	0.95	1.9	54.09	103	6.4485	13	0	0	0	0	116
4" Wye PVC Solvent Weld Standard Weight	2	Each	1.25	2.5	54.09	135	11.691	23	0	0	0	0	158
2" Wye PVC Solvent Weld Standard Weight	19	Each	0.6	11.4	54.09	617	2.385	45	0	0	0	0	662
3" x 2" Reducing Wye PVC Solvent Weld Standard Weight	12	Each	0.95	11.4	54.09	617	4.77	57	0	0	0	0	674
4" x 3" Reducing Wye PVC Solvent Weld Standard Weight	1	Each	1.25	1.3	54.09	70	9.4905	9	0	0	0	0	79
4" x 2" Reducing Wye PVC Solvent Weld Standard Weight	1	Each	1.25	1.3	54.09	70	7.0335	7	0	0	0	0	77
4" x 1 1/2" Reducing Wye PVC Solvent Weld Standard Weight	1	Each	1.25	1.3	54.09	70	12.6	13	0	0	0	0	83
2" x 1 1/2" Reducing Wye PVC Solvent Weld Standard Weight	1	Each	0.85	0.9	54.09	49	2.934	3	0	0	0	0	52
4" Wye & 1/8 Bend PVC Solvent Weld Standard Weight	32	Each	1.45	46.4	54.09	2,510	21.888	700	0	0	0	0	3,210
2" Wye & 1/8 Bend PVC Solvent Weld Standard Weight	7	Each	0.7	4.9	54.09	265	3.4425	24	0	0	0	0	289
4" x 3" Reducing Combo Wye PVC Solvent Weld Standard Weight	8	Each	1.3	10.4	54.09	563	11.511	92	0	0	0	0	655
4" x 2" Reducing Combo Wye PVC Solvent Weld Standard Weight	5	Each	1.3	6.5	54.09	352	9.2115	46	0	0	0	0	398
4" x 1 1/2" Reducing Combo Wye PVC Solvent Weld Standard Weight	1	Each	1.65	1.7	54.09	92	2.48	2	0	0	0	0	94
4" Cross PVC Solvent Weld Standard Weight	3	Each	1.9	5.7	54.09	308	17.982	54	0	0	0	0	362
3" x 2" Reducing Cross PVC Solvent Weld Standard Weight	1	Each	1.22	1.2	54.09	65	6.75	7	0	0	0	0	72
4" Test Tee PVC Solvent Weld Standard Weight	1	Each	1.5	1.5	54.09	81	11.025	11	0	0	0	0	92
3" Tap Tee PVC Solvent Weld Standard Weight	3	Each	1.3	3.9	54.09	211	2.24	7	0	0	0	0	218
4" Tap Tee PVC Solvent Weld Standard Weight	1	Each	1.5	1.5	54.09	81	4.14	4	0	0	0	0	85

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
1 1/2" Tap Tee PVC Solvent Weld Standard Weight	51	Each	0.6	30.6	54.09	1,655	0.6	31	0	0	0	0	1,686
2" Tap Tee PVC Solvent Weld Standard Weight	50	Each	0.85	42.5	54.09	2,299	0.8	40	0	0	0	0	2,339
3" x 2" Reducing Tap Tee PVC Solvent Weld Standard Weight	1	Each	1.3	1.3	54.09	70	1.13	1	0	0	0	0	71
3" x 1 1/2" Reducing Tap Tee PVC Solvent Weld Standard Weight	3	Each	1.3	3.9	54.09	211	1.19	4	0	0	0	0	215
4" x 2" Reducing Tap Tee PVC Solvent Weld Standard Weight	10	Each	1.5	15.0	54.09	811	4	40	0	0	0	0	851
1 1/2" x 1 1/4" Reducing Tap Tee PVC Solvent Weld Standard Weight	3	Each	1	3.0	54.09	162	0.56	2	0	0	0	0	164
2" x 1 1/2" Reducing Tap Tee PVC Solvent Weld Standard Weight	76	Each	1.2	91.2	54.09	4,933	0.42	32	0	0	0	0	4,965
2" x 1 1/4" Reducing Tap Tee PVC Solvent Weld Standard Weight	5	Each	1.2	6.0	54.09	325	0.6	3	0	0	0	0	328
4" x 3" Reducing Double Combo Wye PVC Solvent Weld Standard Weight	6	Each	1.9	11.4	54.09	617	36.8685	221	0	0	0	0	838
4" x 2" Reducing Double Combo Wye PVC Solvent Weld Standard Weight	9	Each	1.9	17.1	54.09	925	37.4355	337	0	0	0	0	1,262
4" Tapped Cross PVC Solvent Weld Standard Weight	16	Each	1.5	24.0	54.09	1,298	14	224	0	0	0	0	1,522
1 1/2" Tapped Cross PVC Solvent Weld Standard Weight	3	Each	1	3.0	54.09	162	2.8	8	0	0	0	0	170
2" Tapped Cross PVC Solvent Weld Standard Weight	3	Each	1.4	4.2	54.09	227	4.2	13	0	0	0	0	240
3" x 2" Concentric Reducer PVC Solvent Weld Standard Weight	7	Each	0.3	2.1	54.09	114	2.4795	17	0	0	0	0	131
4" x 3" Concentric Reducer PVC Solvent Weld Standard Weight	5	Each	0.5	2.5	54.09	135	5.229	26	0	0	0	0	161
4" x 2" Concentric Reducer PVC Solvent Weld Standard Weight	1	Each	0.5	0.5	54.09	27	4.914	5	0	0	0	0	32
4" x 1 1/2" Concentric Reducer PVC Solvent Weld Standard Weight	2	Each	1	2.0	54.09	108	2.8	6	0	0	0	0	114
5" x 2" Concentric Reducer PVC Solvent Weld Standard Weight	3	Each	0.6	1.8	54.09	97	7	21	0	0	0	0	118
2" x 1 1/2" Concentric Reducer PVC Solvent Weld Standard Weight	12	Each	0.36	4.3	54.09	233	0.33	4	0	0	0	0	237
4" Plug PVC Screwed Standard Weight	2	Each	0.05	0.1	54.09	5	1.899	4	0	0	0	0	9
2" Plug PVC Screwed Standard Weight	2	Each	0.25	0.5	54.09	27	0.6615	1	0	0	0	0	28
Pipe Sleeve For 3" Pipe	2	Each	1	2.0	54.09	108	21	42	0	0	0	0	150
Pipe Sleeve For 4" Pipe	14	Each	1	14.0	54.09	757	28	392	0	0	0	0	1,149
Pipe Sleeve For 5" Pipe	5	Each	1	5.0	54.09	270	35	175	0	0	0	0	445
Pipe Sleeve For 6" Pipe	4	Each	1	4.0	54.09	216	30	120	0	0	0	0	336
Pipe Sleeve For 1 1/2" Pipe	5	Each	1	5.0	54.09	270	2.11	11	0	0	0	0	281
Pipe Sleeve For 2" Pipe	7	Each	1	7.0	54.09	379	2.87	20	0	0	0	0	399
4" Sleeve Shield	8	Each	0.5	4.0	37.43	150	2.8	22	0	0	0	0	172

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR DOLLARS TOTAL	LABOR DOLLARS UNIT	MATERIAL DOLLARS TOTAL	MATERIAL DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL DOLLARS	
5" Sleeve Shield	4	Each	0.5	2.0	37.43	75	2	8	0	0	0	83	
6" Sleeve Shield	3	Each	0.5	1.5	37.43	56	35	105	0	0	0	161	
3" Clevis Hanger PVC Coated Steel	63	Each	1.1	69.3	54.09	3,748	8.04	507	0	0	0	4,255	
4" Clevis Hanger PVC Coated Steel	71	Each	1.4	99.4	54.09	5,377	8.85	628	0	0	0	6,005	
1 1/2" Clevis Hanger PVC Coated Steel	206	Each	1.05	216.3	54.09	11,700	5.31	1,094	0	0	0	12,794	
2" Clevis Hanger PVC Coated Steel	650	Each	1.05	682.5	54.09	36,916	5.4	3,510	0	0	0	40,426	
3" Riser Clamp PVC Coated Steel	13	Each	0.22	2.9	54.09	157	21.57	280	0	0	0	437	
4" Riser Clamp PVC Coated Steel	21	Each	0.25	5.3	54.09	287	29.13	612	0	0	0	899	
1 1/2" Riser Clamp PVC Coated Steel	6	Each	0.2	1.2	54.09	65	15.6	94	0	0	0	159	
2" Riser Clamp PVC Coated Steel	25	Each	0.2	5.0	54.09	270	17.19	430	0	0	0	700	
3" Vent Thru Roof	15	Each	2.5	37.5	54.09	2,028	45	675	0	0	0	2,703	
4" Vent Thru Roof	13	Each	2	26.0	54.09	1,406	40	520	0	0	0	1,926	
Excavation & Backfill	825	Lin Ft	0	0.0	0	0	0	0	0	0	12	9,900	
*** ABOVEGROUND DRAIN, WASTE & VENT SYSTEM ESTIMATED COST ***				2,855.4		154,322		30,212		0		9,900	194,434
AIR SYSTEM													
1/2" Pipe Carbon Steel A-53 Welded Schedule 40/SW Threaded & Coupled Galvanized	505	Lin Ft	0.05	25.3	54.09	1,368	1.737	877	0	0	0	2,245	
3/4" Pipe Carbon Steel A-53 Welded Schedule 40/SW Threaded & Coupled Galvanized	72	Lin Ft	0.05	3.6	54.09	195	2.094	151	0	0	0	346	
1" Pipe Carbon Steel A-53 Welded Schedule 40/SW Threaded & Coupled Galvanized	220	Lin Ft	0.06	13.2	54.09	714	2.82	620	0	0	0	1,334	
1/2" 90 Degree Ell A-197 Malleable Iron Galvanized 150# Screwed	24	Each	0.51	12.2	54.09	660	1.1225	27	0	0	0	687	
3/4" 90 Degree Ell A-197 Malleable Iron Galvanized 150# Screwed	4	Each	0.69	2.8	54.09	151	1.3775	6	0	0	0	157	
1" 90 Degree Ell A-197 Malleable Iron Galvanized 150# Screwed	9	Each	0.86	7.7	54.09	416	2.55	23	0	0	0	439	
1/2" 45 Degree Ell A-197 Malleable Iron Galvanized 150# Screwed	3	Each	0.51	1.5	54.09	81	0.35	1	0	0	0	82	
3/4" 45 Degree Ell A-197 Malleable Iron Galvanized 150# Screwed	1	Each	0.69	0.7	54.09	38	0.5	1	0	0	0	39	
1/2" Tee A-197 Malleable Iron Galvanized 150# Screwed	7	Each	0.74	5.2	54.09	281	1.455	10	0	0	0	291	
1" Tee A-197 Malleable Iron Galvanized 150# Screwed	4	Each	1.26	5.0	54.09	270	3.87	15	0	0	0	285	
3/4" x 1/2" Reducing Tee A-197 Malleable Iron Galvanized 150# Screwed	7	Each	0.92	6.4	54.09	346	3.3325	23	0	0	0	369	

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
1" x 3/4" Reducing Tee A-197 Malleable Iron Galvanized 150# Screwed	2	Each	1.16	2.3	54.09	124	4.675	9	0	0	0	0	133
1" x 1/2" Reducing Tee A-197 Malleable Iron Galvanized 150# Screwed	8	Each	1.16	9.3	54.09	503	4.675	37	0	0	0	0	540
3/4" x 1/2" Concentric Reducer A-197 Malleable Iron Galvanized 150# Screwed	2	Each	0.45	0.9	54.09	49	2.13	4	0	0	0	0	53
1" x 3/4" Concentric Reducer A-197 Malleable Iron Galvanized 150# Screwed	1	Each	0.75	0.8	54.09	43	3.2975	3	0	0	0	0	46
1/2" Cap A-197 Malleable Iron Galvanized 150# Screwed	7	Each	0.27	1.9	54.09	103	1.2425	9	0	0	0	0	112
3/4" Union A-197 Malleable Iron Galvanized 150# Screwed	1	Each	0.71	0.7	54.09	38	5.6175	6	0	0	0	0	44
1" Union A-197 Malleable Iron Galvanized 150# Screwed	6	Each	0.8	4.8	54.09	260	7.355	44	0	0	0	0	304
1" Gate Valve Bronze 150# Screwed	1	Each	0.89	0.9	54.09	49	29.48	29	0	0	0	0	78
1/2" Ball Valve Bronze 150# Screwed	8	Each	0.54	4.3	54.09	233	8.97	72	0	0	0	0	305
1" Ball Valve Bronze 150# Screwed	5	Each	0.87	4.4	54.09	238	18.63	93	0	0	0	0	331
1/2" Clevis Hanger Steel	59	Each	0.5	29.5	54.09	1,596	1.29	76	0	0	0	0	1,672
3/4" Clevis Hanger Steel	8	Each	1.05	8.4	54.09	454	1.29	10	0	0	0	0	464
1" Clevis Hanger Steel	27	Each	1.05	28.4	54.09	1,536	1.35	36	0	0	0	0	1,572
Pressure Gauge	1	Each	1	1.0	54.09	54	30	30	0	0	0	0	84
1" Flex Hose	3	Each	0.7	2.1	54.09	114	15	45	0	0	0	0	159
1/2" Quick Connection	7	Each	0.5	3.5	54.09	189	10	70	0	0	0	0	259
*** AIR SYSTEM ESTIMATED COST ***				186.8			10,103	2,327		0		0	12,430
GAS SYSTEM													
2 1/2" Pipe Carbon Steel A-53 Welded Schedule 40/SW Plain End	188	Lin Ft	0.15	28.2	54.09	1,525	5.547	1,043	0	0	0	0	2,568
1/2" Pipe Carbon Steel A-53 Welded Schedule 40/SW Threaded & Coupled	759	Lin Ft	0.05	38.0	54.09	2,055	1.14	865	0	0	0	0	2,920
3/4" Pipe Carbon Steel A-53 Welded Schedule 40/SW Threaded & Coupled	1,669	Lin Ft	0.08	133.5	54.09	7,221	1.35	2,253	0	0	0	0	9,474
1" Pipe Carbon Steel A-53 Welded Schedule 40/SW Threaded & Coupled	54	Lin Ft	0.07	3.8	54.09	206	1.959	106	0	0	0	0	312
1 1/4" Pipe Carbon Steel A-53 Welded Schedule 40/SW Threaded & Coupled	139	Lin Ft	0.1	13.9	54.09	752	2.538	353	0	0	0	0	1,105
1 1/2" Pipe Carbon Steel A-53 Welded Schedule 40/SW Threaded & Coupled	185	Lin Ft	0.11	20.4	54.09	1,103	3.039	562	0	0	0	0	1,665
2" Pipe Carbon Steel A-53 Welded Schedule 40/SW Threaded & Coupled	34	Lin Ft	0.11	3.7	54.09	200	4.188	142	0	0	0	0	342
1/2" Pipe Carbon Steel A-53 Welded Schedule 40/SW Threaded & Coupled Galvanized	1,000	Lin Ft	0.05	50.0	54.09	2,705	1.737	1,737	0	0	0	0	4,442

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2 1/2" Slip On Flange A-181 Forged Steel 150# Raised Face	2	Each	2.37	4.7	54.09	254	21.7	43	0	0	0	0	297
2 1/2" 90 Degree Ell A-234 Carbon Steel Schedule 40/SW Butt Weld	5	Each	2.21	11.1	54.09	600	14.025	70	0	0	0	0	670
2 1/2" x 2" Reducing Tee A-234 Carbon Steel Schedule 40/SW Butt Weld	2	Each	3.11	6.2	54.09	335	51.2	102	0	0	0	0	437
1/2" 90 Degree Ell A-197 Malleable Iron 150# Screwed	500	Each	0.51	255.0	54.09	13,793	0.8325	416	0	0	0	0	14,209
3/4" 90 Degree Ell A-197 Malleable Iron 150# Screwed	143	Each	0.69	98.7	54.09	5,339	1.0075	144	0	0	0	0	5,483
1 1/4" 90 Degree Ell A-197 Malleable Iron 150# Screwed	1	Each	0.98	1.0	54.09	54	2.88	3	0	0	0	0	57
1 1/2" 90 Degree Ell A-197 Malleable Iron 150# Screwed	6	Each	1.07	6.4	54.09	346	3.7875	23	0	0	0	0	369
1/2" Tee A-197 Malleable Iron 150# Screwed	74	Each	0.74	54.8	54.09	2,964	1.1125	82	0	0	0	0	3,046
3/4" Tee A-197 Malleable Iron 150# Screwed	40	Each	1.02	40.8	54.09	2,207	1.5975	64	0	0	0	0	2,271
3/4" x 1/2" Reducing Tee A-197 Malleable Iron 150# Screwed	102	Each	0.92	93.8	54.09	5,074	2.475	252	0	0	0	0	5,326
1" x 1/2" Reducing Tee A-197 Malleable Iron 150# Screwed	2	Each	0.67	1.3	54.09	70	3.12	6	0	0	0	0	76
1 1/4" x 1" Reducing Tee A-197 Malleable Iron 150# Screwed	1	Each	1.26	1.3	54.09	70	5.405	5	0	0	0	0	75
1 1/4" x 3/4" Reducing Tee A-197 Malleable Iron 150# Screwed	2	Each	1.26	2.5	54.09	135	4.985	10	0	0	0	0	145
1 1/2" x 1" Reducing Tee A-197 Malleable Iron 150# Screwed	1	Each	1.43	1.4	54.09	76	6.295	6	0	0	0	0	82
1 1/2" x 3/4" Reducing Tee A-197 Malleable Iron 150# Screwed	17	Each	1.43	24.3	54.09	1,314	6.295	107	0	0	0	0	1,421
3/4" x 1/2" Concentric Reducer A-197 Malleable Iron 150# Screwed	13	Each	0.45	5.9	54.09	319	1.5125	20	0	0	0	0	339
1/2" Cap A-197 Malleable Iron 150# Screwed	33	Each	0.1	3.3	54.09	178	0.8425	28	0	0	0	0	206
1 1/2" Cap A-197 Malleable Iron 150# Screwed	1	Each	0.57	0.6	54.09	32	2.5	3	0	0	0	0	35
2" Cap A-197 Malleable Iron 150# Screwed	1	Each	0.68	0.7	54.09	38	3.645	4	0	0	0	0	42
1/2" Tee A-197 Malleable Iron Galvanized 150# Screwed	80	Each	0.74	59.2	54.09	3,202	1.455	116	0	0	0	0	3,318
1/2" Cap A-197 Malleable Iron Galvanized 150# Screwed	20	Each	0.27	5.4	54.09	292	1.2425	25	0	0	0	0	317
3/4" Gate Valve Bronze 150# Screwed	17	Each	0.72	12.2	54.09	660	7.84	133	0	0	0	0	793
1/2" Ball Valve Bronze 150# Screwed	40	Each	0.54	21.6	54.09	1,168	8.97	359	0	0	0	0	1,527
1" Ball Valve Bronze 150# Screwed	1	Each	0.87	0.9	54.09	49	18.63	19	0	0	0	0	68
1 1/4" Ball Valve Bronze 150# Screwed	3	Each	1.03	3.1	54.09	168	10.6	32	0	0	0	0	200
2" Ball Valve Bronze 150# Screwed	1	Each	1.06	1.1	54.09	59	47.53	48	0	0	0	0	107
1/2" Solenoid Valve Bronze 150# Screwed	19	Each	0.85	16.2	54.09	876	45.36	862	0	0	0	0	1,738
3/4" Solenoid Valve Bronze 150# Screwed	31	Each	1.03	31.9	54.09	1,725	55.44	1,719	0	0	0	0	3,444

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2 1/2" Gate Valve IBBM 150# Flanged	1	Each	1.06	1.1	54.09	59	81.8	82	0	0	0	0	141
2 1/2" 150# BN&G Set A193-B7 Studs, A194-2H Nuts & 1/16" Composition Gasket Pipe Sleeve for 1/2" Pipe	2	Each	0.75	1.5	54.09	81	4.19	8	0	0	0	0	89
	80	Each	1	80.0	54.09	4,327	14	1,120	0	0	0	0	5,447
2 1/2" Clevis Hanger Steel	18	Each	0.65	11.7	54.09	633	3.33	60	0	0	0	0	693
1/2" Clevis Hanger Steel	211	Each	0.5	105.5	54.09	5,706	1.29	272	0	0	0	0	5,978
3/4" Clevis Hanger Steel	208	Each	1.05	218.4	54.09	11,813	1.29	268	0	0	0	0	12,081
1" Clevis Hanger Steel	8	Each	1.05	8.4	54.09	454	1.35	11	0	0	0	0	465
1 1/4" Clevis Hanger Steel	18	Each	1.37	24.7	54.09	1,336	1.53	28	0	0	0	0	1,364
1 1/2" Clevis Hanger Steel	22	Each	1.05	23.1	54.09	1,249	1.71	38	0	0	0	0	1,287
2" Clevis Hanger Steel	6	Each	1.05	6.3	54.09	341	2.04	12	0	0	0	0	353
1/2" Riser Clamp Steel	80	Each	0.19	15.2	54.09	822	4.02	322	0	0	0	0	1,144
*** GAS SYSTEM ESTIMATED COST ***				1,552.8		83,985		13,983		0		0	97,968
CHLORINE VENT SYSTEM													
2" Pipe DWV PVC Schedule 40 Plain End	125	Lin Ft	0.05	6.3	54.09	341	0.81	101	0	0	0	0	442
2" 1/4 Bend PVC Solvent Weld Standard Weight	3	Each	0.36	1.1	54.09	59	1.161	3	0	0	0	0	62
3" x 2" Concentric Reducer PVC Solvent Weld Standard Weight	1	Each	0.3	0.3	54.09	16	2.4795	2	0	0	0	0	18
Pipe Sleeve for 2" Pipe	1	Each	1	1.0	54.09	54	2.87	3	0	0	0	0	57
2" Clevis Hanger PVC Coated Steel	10	Each	1.05	10.5	54.09	568	5.4	54	0	0	0	0	622
3" Vent Thru Roof	1	Each	2.5	2.5	54.09	135	45	45	0	0	0	0	180
*** CHLORINE VENT SYSTEM ESTIMATED COST ***				21.7		1,173		208		0		0	1,381
UNDERGROUND STORM DRAINAGE SYSTEM													
4" Soil Pipe Cast Iron Service Weight Hub Type	525	Lin Ft	0.23	120.8	54.09	6,534	6.2283	3,270	0	0	0	0	9,804
5" Soil Pipe Cast Iron Service Weight Hub Type	848	Lin Ft	0.27	229.0	54.09	12,387	8.7906	7,454	0	0	0	0	19,841
6" Soil Pipe Cast Iron Service Weight Hub Type	703	Lin Ft	0.32	225.0	54.09	12,170	10.7055	7,526	0	0	0	0	19,696
8" Soil Pipe Cast Iron Service Weight Hub Type	1,351	Lin Ft	0.44	594.4	54.09	32,151	16.6725	22,525	0	0	0	0	54,676
10" Soil Pipe Cast Iron Service Weight Hub Type	720	Lin Ft	0.57	410.4	54.09	22,199	27.7485	19,979	0	0	0	0	42,178
12" Soil Pipe Cast Iron Service Weight Hub Type	232	Lin Ft	0.63	146.2	54.09	7,908	40.3104	9,352	0	0	0	0	17,260
2" Soil Pipe Cast Iron Service Weight Hub Type	38	Lin Ft	0.14	5.3	54.09	287	3.4749	132	0	0	0	0	419

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4" 1/4 Bend Cast Iron Service Weight Hub	14	Each	0.85	11.9	54.09	644	11.1	155	0	0	0	0	799
5" 1/4 Bend Cast Iron Service Weight Hub	12	Each	1.01	12.1	54.09	654	20.64	248	0	0	0	0	902
6" 1/4 Bend Cast Iron Service Weight Hub	18	Each	1.13	20.3	54.09	1,098	25.72	463	0	0	0	0	1,561
8" 1/4 Bend Cast Iron Hub Service Weight	12	Each	1.55	18.6	54.09	1,006	77.53	930	0	0	0	0	1,936
10" 1/4 Bend Cast Iron Hub Service Weight	2	Each	2.12	4.2	54.09	227	113.37	227	0	0	0	0	454
4" Long Sweep Bend Cast Iron Hub Service Weight	19	Each	0.85	16.2	54.09	876	26.96	512	0	0	0	0	1,388
5" Long Sweep Bend Cast Iron Hub Service Weight	15	Each	1.11	16.7	54.09	903	44.64	670	0	0	0	0	1,573
6" Long Sweep Bend Cast Iron Hub Service Weight	12	Each	1.25	15.0	54.09	811	54.28	651	0	0	0	0	1,462
8" Long Sweep Bend Cast Iron Hub Service Weight	7	Each	1.71	12.0	54.09	649	122.84	860	0	0	0	0	1,509
12" Long Sweep Bend Cast Iron Hub Service Weight	1	Each	2.81	2.8	54.09	151	336.56	337	0	0	0	0	488
2" Long Sweep Bend Cast Iron Hub Service Weight	1	Each	0.6	0.6	54.09	32	12.88	13	0	0	0	0	45
4" 1/8 Bend Cast Iron Hub Service Weight	14	Each	0.8	11.2	54.09	606	13.84	194	0	0	0	0	800
5" 1/8 Bend Cast Iron Hub Service Weight	11	Each	0.98	10.8	54.09	584	19.16	211	0	0	0	0	795
6" 1/8 Bend Cast Iron Hub Service Weight	4	Each	1.1	4.4	54.09	238	23.48	94	0	0	0	0	332
8" 1/8 Bend Cast Iron Hub Service Weight	3	Each	1.46	4.4	54.09	238	70.08	210	0	0	0	0	448
10" 1/8 Bend Cast Iron Hub Service Weight	2	Each	1.95	3.9	54.09	211	100.84	202	0	0	0	0	413
2" 1/8 Bend Cast Iron Hub Service Weight	1	Each	0.8	0.8	54.09	43	6.04	6	0	0	0	0	49
4" Floor Cleanout Cast Iron Hub Service Weight	2	Each	0.5	1.0	54.09	54	65.8	132	0	0	0	0	186
4" Wall Cleanout Cast Iron Hub Service Weight	3	Each	0.5	1.5	54.09	81	18.91	57	0	0	0	0	138
8" x 6" Reducing Tee Cast Iron Hub Service Weight	1	Each	2.37	2.4	54.09	130	118.48	118	0	0	0	0	248
10" x 8" Reducing Tee Cast Iron Hub Service Weight	1	Each	2.7	2.7	54.09	146	240.36	240	0	0	0	0	386
4" Wye Cast Iron Hub Service Weight	1	Each	1.53	1.5	54.09	81	26.84	27	0	0	0	0	108
8" Wye Cast Iron Hub Service Weight	1	Each	2.85	2.9	54.09	157	150.92	151	0	0	0	0	308
10" Wye Cast Iron Hub Service Weight	1	Each	3.93	3.9	54.09	211	243.92	244	0	0	0	0	455
5" x 4" Reducing Wye Cast Iron Hub Service Weight	2	Each	1.31	2.6	54.09	141	36.56	73	0	0	0	0	214
5" x 2" Reducing Wye Cast Iron Hub Service Weight	1	Each	1.21	1.2	54.09	65	33.28	33	0	0	0	0	98
6" x 5" Reducing Wye Cast Iron Hub Service Weight	1	Each	1.59	1.6	54.09	87	58.36	58	0	0	0	0	145
6" x 4" Reducing Wye Cast Iron Hub Service Weight	1	Each	1.54	1.5	54.09	81	41.64	42	0	0	0	0	123

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8" x 6" Reducing Wye Cast Iron Hub Service Weight	9	Each	1.82	16.4	54.09	887	93.84	845	0	0	0	0	1,732
8" x 4" Reducing Wye Cast Iron Hub Service Weight	7	Each	1.74	12.2	54.09	660	75.52	529	0	0	0	0	1,189
10" x 8" Reducing Wye Cast Iron Hub Service Weight	3	Each	2.72	8.2	54.09	444	203.6	611	0	0	0	0	1,055
10" x 6" Reducing Wye Cast Iron Hub Service Weight	9	Each	2.68	24.1	54.09	1,304	148.28	1,335	0	0	0	0	2,639
10" x 4" Reducing Wye Cast Iron Hub Service Weight	5	Each	2.58	12.9	54.09	698	136.04	680	0	0	0	0	1,378
12" x 6" Reducing Wye Cast Iron Hub Service Weight	1	Each	4.16	4.2	54.09	227	236.92	237	0	0	0	0	464
12" x 6" Reducing Wye Cast Iron Hub Service Weight	1	Each	4.16	4.2	54.09	227	229.92	230	0	0	0	0	457
8" Wye & 1/8 Bend Cast Iron Hub Service Weight	3	Each	3.05	9.2	54.09	498	184.24	553	0	0	0	0	1,051
10" Wye & 1/8 Bend Cast Iron Hub Service Weight	3	Each	4.23	12.7	54.09	687	56	168	0	0	0	0	855
12" Wye & 1/8 Bend Cast Iron Hub Service Weight	1	Each	5.1	5.1	54.09	276	350	350	0	0	0	0	626
5" x 4" Reducing Combo Wye Cast Iron Hub Service Weight	1	Each	1.77	1.8	54.09	97	56.52	57	0	0	0	0	154
6" x 5" Reducing Combo Wye Cast Iron Hub Service Weight	2	Each	2	4.0	54.09	216	74.24	148	0	0	0	0	364
6" x 4" Reducing Combo Wye Cast Iron Hub Service Weight	5	Each	1.95	9.8	54.09	530	53.84	269	0	0	0	0	799
8" x 6" Reducing Combo Wye Cast Iron Hub Service Weight	8	Each	2.48	19.8	54.09	1,071	122.88	983	0	0	0	0	2,054
8" x 4" Reducing Combo Wye Cast Iron Hub Service Weight	7	Each	2.38	16.7	54.09	903	89.52	627	0	0	0	0	1,530
10" x 8" Reducing Combo Wye Cast Iron Hub Service Weight	2	Each	4.52	9.0	54.09	487	157.16	314	0	0	0	0	801
10" x 6" Reducing Combo Wye Cast Iron Hub Service Weight	2	Each	3.68	7.4	54.09	400	114.48	229	0	0	0	0	629
10" x 4" Reducing Combo Wye Cast Iron Hub Service Weight	1	Each	3.58	3.6	54.09	195	84	84	0	0	0	0	279
12" x 8" Reducing Combo Wye Cast Iron Hub Service Weight	2	Each	4.3	8.6	54.09	465	219.48	439	0	0	0	0	904
12" x 4" Reducing Combo Wye Cast Iron Hub Service Weight	5	Each	4.15	20.8	54.09	1,125	14	70	0	0	0	0	1,195
4" Test Tee Cast Iron Hub Service Weight	11	Each	1.5	16.5	54.09	892	50.01	550	0	0	0	0	1,442
5" Test Tee Cast Iron Hub Service Weight	8	Each	1.85	14.8	54.09	801	70.08	561	0	0	0	0	1,362
6" Test Tee Cast Iron Hub Service Weight	7	Each	2.06	14.4	54.09	779	108.25	758	0	0	0	0	1,537
8" Test Tee Cast Iron Hub Service Weight	1	Each	2.72	2.7	54.09	146	177.88	178	0	0	0	0	324
8" x 6" Reducing Double Wye Cast Iron Hub Service Weight	2	Each	3.27	6.5	54.09	352	192.84	386	0	0	0	0	738
15" x 6" Reducing Double Wye Cast Iron Hub Service Weight	2	Each	5.57	11.1	54.09	600	350	700	0	0	0	0	1,300
10" x 8" Reducing Double Wye Cast Iron Hub Service Weight	1	Each	5.57	5.6	54.09	303	126	126	0	0	0	0	429
12" x 6" Reducing Double Wye Cast Iron Hub Service Weight	1	Each	6.34	6.3	54.09	341	154	154	0	0	0	0	495

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PREPARED FOR: ALL OF OUR CLIENTS
 PREPARED BY.: TEMPEST COMPANY
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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS	
4" x 2" Concentric Reducer Cast Iron Hub Service Weight	1	Each	0.64	0.6	54.09	32	9.52	10	0	0	0	0	42	
5" x 4" Concentric Reducer Cast Iron Hub Service Weight	7	Each	0.78	5.5	54.09	297	13.88	97	0	0	0	0	394	
6" x 5" Concentric Reducer Cast Iron Hub Service Weight	9	Each	0.87	7.8	54.09	422	23.48	211	0	0	0	0	633	
6" x 4" Concentric Reducer Cast Iron Hub Service Weight	2	Each	0.68	1.4	54.09	76	21.8	44	0	0	0	0	120	
8" x 6" Concentric Reducer Cast Iron Hub Service Weight	7	Each	1.01	7.1	54.09	384	37.36	262	0	0	0	0	646	
10" x 8" Concentric Reducer Cast Iron Hub Service Weight	4	Each	1.4	5.6	54.09	303	61.44	246	0	0	0	0	549	
10" x 4" Concentric Reducer Cast Iron Hub Service Weight	4	Each	1.2	4.8	54.09	260	54.84	219	0	0	0	0	479	
12" x 10" Concentric Reducer Cast Iron Hub Service Weight	3	Each	1.68	5.0	54.09	270	99.96	300	0	0	0	0	570	
12" x 6" Concentric Reducer Cast Iron Hub Service Weight	1	Each	1.58	1.6	54.09	87	95.76	96	0	0	0	0	183	
4" Rubber Joint	28	Each	0	0.0	0	0	4.2	118	0	0	0	0	118	
5" Rubber Joint	25	Each	0	0.0	0	0	9.1	228	0	0	0	0	228	
6" Rubber Joint	16	Each	0	0.0	0	0	5.01	80	0	0	0	0	80	
8" Rubber Joint	31	Each	0	0.0	0	0	12.38	384	0	0	0	0	384	
10" Rubber Joint	30	Each	0	0.0	0	0	18	540	0	0	0	0	540	
2" Rubber Joint	3	Each	0	0.0	0	0	2.5	8	0	0	0	0	8	
Excavation & Backfill	3,945	Lin Ft	0	0.0	0	0	0	0	0	0	12	47,340	47,340	
*** UNDERGROUND STORM DRAINAGE SYSTEM ESTIMATED COST ***				2,247.8			121,583			92,410		0	47,340	261,333
ABOVEGROUND STORM DRAINAGE SYSTEM														
5" Soil Pipe Cast Iron No Hub Service Weight	28	Lin Ft	0.23	6.4	54.09	346	8.1315	228	0	0	0	0	574	
4" Pipe DWV PVC Schedule 40 Plain End	1,816	Lin Ft	0.054	98.1	54.09	5,306	2.3	4,177	0	0	0	0	9,483	
5" Pipe DWV PVC Schedule 40 Plain End	1,857	Lin Ft	0.17	315.7	54.09	17,076	3.15	5,850	0	0	0	0	22,926	
6" Pipe DWV PVC Schedule 40 Plain End	1,078	Lin Ft	0.11	118.6	54.09	6,415	4.08	4,398	0	0	0	0	10,813	
8" Pipe DWV PVC Schedule 40 Plain End	371	Lin Ft	0.22	81.6	54.09	4,414	6.2	2,300	0	0	0	0	6,714	
10" Pipe DWV PVC Schedule 40 Plain End	50	Lin Ft	0.5	25.0	54.09	1,352	9.5	475	0	0	0	0	1,827	
2" Pipe DWV PVC Schedule 40 Plain End	10	Lin Ft	0.05	0.5	54.09	27	0.81	8	0	0	0	0	35	
5" x 4" Reducing Tap Tee Cast Iron No Hub Service Weight	2	Each	1.93	3.9	54.09	211	15.93	32	0	0	0	0	243	
5" No Hub Coupling Kit	6	Each	0.4	2.4	54.09	130	19.84	119	0	0	0	0	249	
4" 1/4 Bend PVC Solvent Weld Standard Weight	42	Each	0.67	28.1	54.09	1,520	6.741	283	0	0	0	0	1,803	

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN HOURS UNIT	LABOR MAN HOURS TOTAL	LABOR DOLLARS UNIT	LABOR DOLLARS TOTAL	MATERIAL DOLLARS UNIT	MATERIAL DOLLARS TOTAL	EQUIPMENT DOLLARS UNIT	EQUIPMENT DOLLARS TOTAL	SUBCONTRACT DOLLARS UNIT	SUBCONTRACT DOLLARS TOTAL	TOTAL DOLLARS
5" 1/4 Bend PVC Solvent Weld Standard Weight	23	Each	1.5	34.5	54.09	1,866	22.64	521	0	0	0	0	2,387
6" 1/4 Bend PVC Solvent Weld Standard Weight	23	Each	0.91	20.9	54.09	1,130	23.652	544	0	0	0	0	1,674
8" 1/4 Bend PVC Solvent Weld Standard Weight	7	Each	1.25	8.8	54.09	476	47.898	335	0	0	0	0	811
2" 1/4 Bend PVC Solvent Weld Standard Weight	2	Each	0.36	0.7	54.09	38	1.161	2	0	0	0	0	40
4" Long Sweep Bend PVC Solvent Weld Standard Weight	29	Each	0.84	24.4	54.09	1,320	8.586	249	0	0	0	0	1,569
5" Long Sweep Bend PVC Solvent Weld Standard Weight	18	Each	1.5	27.0	54.09	1,460	22.4	403	0	0	0	0	1,863
6" Long Sweep Bend PVC Solvent Weld Standard Weight	11	Each	1.56	17.2	54.09	930	31.5	347	0	0	0	0	1,277
8" Long Sweep Bend PVC Solvent Weld Standard Weight	2	Each	2.25	4.5	54.09	243	30.8	62	0	0	0	0	305
10" Long Sweep Bend PVC Solvent Weld Standard Weight	2	Each	2.6	5.2	54.09	281	33.46	67	0	0	0	0	348
4" 1/8 Bend PVC Solvent Weld Standard Weight	16	Each	0.84	13.4	54.09	725	5.3685	86	0	0	0	0	811
5" 1/8 Bend PVC Solvent Weld Standard Weight	20	Each	1.5	30.0	54.09	1,623	14	280	0	0	0	0	1,903
6" 1/8 Bend PVC Solvent Weld Standard Weight	7	Each	0.91	6.4	54.09	346	21.645	152	0	0	0	0	498
4" Floor Cleanout PVC Solvent Weld Standard Weight	13	Each	1	13.0	54.09	703	17.5	228	0	0	0	0	931
4" Wall Cleanout PVC Solvent Weld Standard Weight	20	Each	0.3	6.0	54.09	325	13.26	265	0	0	0	0	590
5" Wall Cleanout PVC Solvent Weld Standard Weight	7	Each	0.3	2.1	54.09	114	16.8	118	0	0	0	0	232
6" Wall Cleanout PVC Solvent Weld Standard Weight	22	Each	0.3	6.6	54.09	357	15	330	0	0	0	0	687
4" Roof Drain PVC Solvent Weld Standard Weight	20	Each	2.5	50.0	54.09	2,705	75	1,500	0	0	0	0	4,205
5" Roof Drain PVC Solvent Weld Standard Weight	8	Each	2.5	20.0	54.09	1,082	210	1,680	0	0	0	0	2,762
4" Tee PVC Solvent Weld Standard Weight	1	Each	1.3	1.3	54.09	70	9.153	9	0	0	0	0	79
5" Tee PVC Solvent Weld Standard Weight	1	Each	2	2.0	54.09	108	13.06	13	0	0	0	0	121
6" Tee PVC Solvent Weld Standard Weight	3	Each	2.75	8.3	54.09	449	38.169	115	0	0	0	0	564
4" Wye PVC Solvent Weld Standard Weight	16	Each	1.25	20.0	54.09	1,082	11.691	187	0	0	0	0	1,269
5" Wye PVC Solvent Weld Standard Weight	9	Each	1.8	16.2	54.09	876	19.95	180	0	0	0	0	1,056
6" Wye PVC Solvent Weld Standard Weight	4	Each	2.25	9.0	54.09	487	35.2935	141	0	0	0	0	628
5" x 4" Reducing Wye PVC Solvent Weld Standard Weight	5	Each	1.65	8.3	54.09	449	18.2	91	0	0	0	0	540
6" x 5" Reducing Wye PVC Solvent Weld Standard Weight	4	Each	1.35	5.4	54.09	292	13	52	0	0	0	0	344
6" x 4" Reducing Wye PVC Solvent Weld Standard Weight	3	Each	1.35	4.1	54.09	222	25.9425	78	0	0	0	0	300
8" x 5" Reducing Wye PVC Solvent Weld Standard Weight	4	Each	2.2	8.8	54.09	476	25.2	101	0	0	0	0	577

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
4" Wye & 1/8 Bend PVC Solvent Weld Standard Weight	50	Each	1.45	72.5	54.09	3,922	21.888	1,094	0	0	0	0	5,016
5" Wye & 1/8 Bend PVC Solvent Weld Standard Weight	11	Each	1.54	16.9	54.09	914	20.54	226	0	0	0	0	1,140
6" Wye & 1/8 Bend PVC Solvent Weld Standard Weight	17	Each	1.45	24.7	54.09	1,336	67.9095	1,154	0	0	0	0	2,490
8" Wye & 1/8 Bend PVC Solvent Weld Standard Weight	4	Each	1.9	7.6	54.09	411	126.216	505	0	0	0	0	916
10" Wye & 1/8 Bend PVC Solvent Weld Standard Weight	1	Each	2.3	2.3	54.09	124	35	35	0	0	0	0	159
5" x 4" Reducing Combo Wye PVC Solvent Weld Standard Weight	27	Each	1.5	40.5	54.09	2,191	28.94	781	0	0	0	0	2,972
6" x 5" Reducing Combo Wye PVC Solvent Weld Standard Weight	8	Each	1.6	12.8	54.09	692	92	736	0	0	0	0	1,428
6" x 4" Reducing Combo Wye PVC Solvent Weld Standard Weight	6	Each	1.6	9.6	54.09	519	63.153	379	0	0	0	0	898
8" x 6" Reducing Combo Wye PVC Solvent Weld Standard Weight	2	Each	2	4.0	54.09	216	29.5	59	0	0	0	0	275
8" x 5" Reducing Combo Wye PVC Solvent Weld Standard Weight	2	Each	2	4.0	54.09	216	29.5	59	0	0	0	0	275
10" x 8" Reducing Combo Wye PVC Solvent Weld Standard Weight	2	Each	2.3	4.6	54.09	249	40	80	0	0	0	0	329
10" x 5" Reducing Combo Wye PVC Solvent Weld Standard Weight	1	Each	2.3	2.3	54.09	124	40	40	0	0	0	0	164
4" Test Tee PVC Solvent Weld Standard Weight	2	Each	1.5	3.0	54.09	162	11.025	22	0	0	0	0	184
5" Test Tee PVC Solvent Weld Standard Weight	3	Each	2	6.0	54.09	325	10.5	32	0	0	0	0	357
6" Test Tee PVC Solvent Weld Standard Weight	3	Each	2.75	8.3	54.09	449	10	30	0	0	0	0	479
8" Test Tee PVC Solvent Weld Standard Weight	1	Each	3.4	3.4	54.09	184	12.5	13	0	0	0	0	197
10" Test Tee PVC Solvent Weld Standard Weight	1	Each	3.5	3.5	54.09	189	18	18	0	0	0	0	207
4" Tap Tee PVC Solvent Weld Standard Weight	4	Each	1.5	6.0	54.09	325	4.14	17	0	0	0	0	342
5" x 4" Reducing Tap Tee PVC Solvent Weld Standard Weight	2	Each	2	4.0	54.09	216	16.8	34	0	0	0	0	250
6" x 4" Reducing Tap Tee PVC Solvent Weld Standard Weight	2	Each	2.5	5.0	54.09	270	16.62	33	0	0	0	0	303
4" Double Wye PVC Solvent Weld Standard Weight	2	Each	1.9	3.8	54.09	206	25.929	52	0	0	0	0	258
5" Double Wye PVC Solvent Weld Standard Weight	1	Each	2	2.0	54.09	108	14	14	0	0	0	0	122
6" x 5" Reducing Double Wye PVC Solvent Weld Standard Weight	2	Each	2	4.0	54.09	216	16.8	34	0	0	0	0	250
8" x 5" Reducing Double Wye PVC Solvent Weld Standard Weight	1	Each	4	4.0	54.09	216	21.5	22	0	0	0	0	238
5" Double Combo Wye PVC Solvent Weld Standard Weight	3	Each	2	6.0	54.09	325	19	57	0	0	0	0	382
6" Double Combo Wye PVC Solvent Weld Standard Weight	2	Each	2.1	4.2	54.09	227	13.5	27	0	0	0	0	254
5" x 4" Reducing Double Combo Wye PVC Solvent Weld Standard Weight	3	Each	3	9.0	54.09	487	28	84	0	0	0	0	571
6" x 5" Reducing Double Combo Wye PVC Solvent Weld Standard Weight	2	Each	2.7	5.4	54.09	292	15.86	32	0	0	0	0	324

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
6" x 4" Reducing Double Combo Wye PVC Solvent Weld Standard Weight	3	Each	2.7	8.1	54.09	438	11.35	34	0	0	0	0	472
8" x 6" Reducing Double Combo Wye PVC Solvent Weld Standard Weight	1	Each	3	3.0	54.09	162	36	36	0	0	0	0	198
5" x 4" Concentric Reducer PVC Solvent Weld Standard Weight	14	Each	0.6	8.4	54.09	454	11.77	165	0	0	0	0	619
6" x 5" Concentric Reducer PVC Solvent Weld Standard Weight	11	Each	1.6	17.6	54.09	952	28	308	0	0	0	0	1,260
6" x 4" Concentric Reducer PVC Solvent Weld Standard Weight	2	Each	1.51	3.0	54.09	162	7.08	14	0	0	0	0	176
8" x 6" Concentric Reducer PVC Solvent Weld Standard Weight	1	Each	0.75	0.8	54.09	43	43.13	43	0	0	0	0	86
8" x 5" Concentric Reducer PVC Solvent Weld Standard Weight	2	Each	0.75	1.5	54.09	81	43.13	86	0	0	0	0	167
10" x 8" Concentric Reducer PVC Solvent Weld Standard Weight	1	Each	2.8	2.8	54.09	151	20	20	0	0	0	0	171
12" x 5" Concentric Reducer PVC Solvent Weld Standard Weight	1	Each	1.5	1.5	54.09	81	21	21	0	0	0	0	102
4" Plug PVC Screwed Standard Weight	38	Each	0.05	1.9	54.09	103	1.899	72	0	0	0	0	175
5" Plug PVC Screwed Standard Weight	45	Each	1.2	54.0	54.09	2,921	7.94	357	0	0	0	0	3,278
6" Plug PVC Screwed Standard Weight	14	Each	1.2	16.8	54.09	909	6.3135	88	0	0	0	0	997
8" Plug PVC Screwed Standard Weight	4	Each	1.5	6.0	54.09	325	7.5	30	0	0	0	0	355
Pipe Sleeve For 4" Pipe	6	Each	1	6.0	54.09	325	28	168	0	0	0	0	493
Pipe Sleeve For 5" Pipe	3	Each	1	3.0	54.09	162	35	105	0	0	0	0	267
Pipe Sleeve For 6" Pipe	9	Each	1	9.0	54.09	487	30	270	0	0	0	0	757
6" Sleeve Shield	1	Each	0.5	0.5	37.43	19	35	35	0	0	0	0	54
8" Sleeve Shield	4	Each	0.5	2.0	37.43	75	4	16	0	0	0	0	91
4" Clevis Hanger PVC Coated Steel	178	Each	1.4	249.2	54.09	13,479	8.85	1,575	0	0	0	0	15,054
5" Clevis Hanger PVC Coated Steel	202	Each	0.8	161.6	54.09	8,741	25.86	5,224	0	0	0	0	13,965
6" Clevis Hanger PVC Coated Steel	104	Each	1.46	151.8	54.09	8,211	33.09	3,441	0	0	0	0	11,652
8" Clevis Hanger PVC Coated Steel	14	Each	1.67	23.4	54.09	1,266	37.8	529	0	0	0	0	1,795
10" Clevis Hanger PVC Coated Steel	16	Each	1	16.0	54.09	865	49	784	0	0	0	0	1,649
4" Clevis Hanger w/Insulation Shield PVC Coated Steel	6	Each	0.86	5.2	54.09	281	9	54	0	0	0	0	335
5" Clevis Hanger w/Insulation Shield PVC Coated Steel	12	Each	0.86	10.3	54.09	557	10	120	0	0	0	0	677
6" Clevis Hanger w/Insulation Shield PVC Coated Steel	22	Each	0.86	18.9	54.09	1,022	14	308	0	0	0	0	1,330
8" Clevis Hanger w/Insulation Shield PVC Coated Steel	20	Each	0.86	17.2	54.09	930	20	400	0	0	0	0	1,330
4" Riser Clamp PVC Coated Steel	15	Each	0.25	3.8	54.09	206	29.13	437	0	0	0	0	643

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DESCRIPTION	QUANTITY	UNIT MEAS	LABOR MAN UNIT	HOURS TOTAL	LABOR DOLLARS UNIT	TOTAL	MATERIAL DOLLARS UNIT	TOTAL	EQUIPMENT DOLLARS UNIT	TOTAL	SUBCONTRACT DOLLARS UNIT	TOTAL	TOTAL DOLLARS
5" Riser Clamp PVC Coated Steel	33	Each	0.12	4.0	54.09	216	38.37	1,266	0	0	0	0	1,482
6" Riser Clamp PVC Coated Steel	7	Each	0.3	2.1	54.09	114	45.42	318	0	0	0	0	432
8" Riser Clamp PVC Coated Steel	2	Each	0.13	0.3	54.09	16	28	56	0	0	0	0	72
*** ABOVEGROUND STORM DRAINAGE SYSTEM ESTIMATED COST ***				2,143.5		115,897		48,055		0		0	163,952