

Building Data Summary	
Project ID:	*****
Location:	*****
Scope of Work:	Plumbing & HVAC
Date:	

Item #	Ref. Sheet #	Item Description	Unit	Quantity	Wastage	Quantity w/ Wastage	Unit Material Cost	Total Material Cost	Unit Manhour	Hourly Wage	Unit Labor Cost	Total Labor Cost	Sub Cost	Total Trade Cost
DIVISION.01 GENERAL REQUIREMENTS														
1		Supervision and Coordination	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -	\$ 8,500.00	
2		Submittals and Shop drawings	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -		
3		Final Cleaning	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -		
4		Mobilization Costs	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -		
5		Temporary Control & Facilities	LS	1	0%	1	\$ -	\$ -	0.000	\$ -	\$ -	\$ -		
		Subtotal (General Requirements)												\$ 8,500
DIVISION 01-Site														
		Site												
6		Connection To Existing 8" Pipe	EA	1	0%	1	\$ 12.00	\$ 12.00	0.120	\$ 50.00	\$ 6.00	\$ 6.00	\$ 18.00	
7		(4" Dia) 2-Way Exterior Cleanout Manuf: JR.SMITH Model: 4261L	EA	2	0%	2	\$ 170.00	\$ 340.00	1.000	\$ 50.00	\$ 50.00	\$ 100.00	\$ 440.00	
8		(4" Dia) PVC Sanitary Pipe	LF	72	5%	76	\$ 4.50	\$ 340.20	0.200	\$ 50.00	\$ 10.00	\$ 756.00	\$ 1,096.20	
9		(1" Dia) Copper K Water Pipe	LF	201	5%	211	\$ 6.10	\$ 1,287.41	0.300	\$ 50.00	\$ 15.00	\$ 3,165.75	\$ 4,453.16	
10		(6" Dia) DI Fire Pipe	LF	205	5%	215	\$ 14.00	\$ 3,013.50	0.400	\$ 50.00	\$ 20.00	\$ 4,305.00	\$ 7,318.50	
11		(6" Dia) Fire Hydrant Assembly	EA	1	0%	1	\$ 3,500.00	\$ 3,500.00	3.500	\$ 50.00	\$ 175.00	\$ 175.00	\$ 3,675.00	
12		(6" Dia) 90D Bend	EA	2	0%	2	\$ 220.00	\$ 440.00	1.500	\$ 50.00	\$ 75.00	\$ 150.00	\$ 590.00	
13		(1" Dia) 90D Bend	EA	2	0%	2	\$ 20.00	\$ 40.00	0.300	\$ 50.00	\$ 15.00	\$ 30.00	\$ 70.00	
14		(6" Dia) 11.25D Bend	EA	1	0%	1	\$ 180.00	\$ 180.00	1.000	\$ 50.00	\$ 50.00	\$ 50.00	\$ 230.00	
15		(1" Dia) 11.25D Bend	EA	1	0%	1	\$ 18.00	\$ 18.00	0.300	\$ 50.00	\$ 15.00	\$ 15.00	\$ 33.00	
16		(6" Dia) 45D Bend	EA	2	0%	2	\$ 200.00	\$ 400.00	1.200	\$ 50.00	\$ 60.00	\$ 120.00	\$ 520.00	
17		(2" Dia) Gas Meter	EA	1	0%	1	\$ 1,300.00	\$ 1,300.00	2.500	\$ 50.00	\$ 125.00	\$ 125.00	\$ 1,425.00	
18		(6" Dia) Fire Double Detector Check Valve Assembly	EA	1	0%	1	\$ 6,520.00	\$ 6,520.00	5.000	\$ 50.00	\$ 250.00	\$ 250.00	\$ 6,770.00	
19		Fire Dept. Connection	EA	1	0%	1	\$ 650.00	\$ 650.00	3.000	\$ 50.00	\$ 150.00	\$ 150.00	\$ 800.00	
20		(1" Dia) RPZ Backflow Preventer mANUF: WATTS Model: 975-NRS	EA	2	0%	2	\$ 750.00	\$ 1,500.00	2.500	\$ 50.00	\$ 125.00	\$ 250.00	\$ 1,750.00	
21		(1" Dia) Irrigation Meter	EA	1	0%	1	\$ 320.00	\$ 320.00	2.000	\$ 50.00	\$ 100.00	\$ 100.00	\$ 420.00	
22		(1" Dia) Gate Valve	EA	2	0%	2	\$ 60.00	\$ 120.00	0.750	\$ 50.00	\$ 37.50	\$ 75.00	\$ 195.00	
23		(1" Dia) Reducer	EA	1	0%	1	\$ 3.50	\$ 3.50	0.200	\$ 50.00	\$ 10.00	\$ 10.00	\$ 13.50	
24		(1" Dia) Tee	EA	1	0%	1	\$ 2.50	\$ 2.50	0.300	\$ 50.00	\$ 15.00	\$ 15.00	\$ 17.50	
25		(1" Dia) Water Meter	EA	1	0%	1	\$ 445.00	\$ 445.00	2.000	\$ 50.00	\$ 100.00	\$ 100.00	\$ 545.00	
26		Connection To Existing 6" Pipe	EA	1	0%	1	\$ 12.00	\$ 12.00	0.120	\$ 50.00	\$ 6.00	\$ 6.00	\$ 18.00	
27		(6"x6") Tapping Sleeve & Valve	EA	1	0%	1	\$ 1,900.00	\$ 1,900.00	4.500	\$ 50.00	\$ 225.00	\$ 225.00	\$ 2,125.00	
28		(6"x2" Dia) Tee	EA	1	0%	1	\$ 350.00	\$ 350.00	2.000	\$ 50.00	\$ 100.00	\$ 100.00	\$ 450.00	
29		(6" Dia) Gate Valve	EA	1	0%	1	\$ 1,150.00	\$ 1,150.00	2.500	\$ 50.00	\$ 125.00	\$ 125.00	\$ 1,275.00	
30		(2" Dia) Gate Valve	EA	1	0%	1	\$ 400.00	\$ 400.00	1.500	\$ 50.00	\$ 75.00	\$ 75.00	\$ 475.00	
31		(2" Dia) PE Gas Pipe	LF	165	5%	173	\$ 4.50	\$ 779.63	0.500	\$ 50.00	\$ 25.00	\$ 4,331.25	\$ 5,110.88	
32		Connection To Existing 1" Pipe	EA	1	0%	1	\$ 10.00	\$ 10.00	0.120	\$ 50.00	\$ 6.00	\$ 6.00	\$ 16.00	
		Trenching												
33		Excavation	CY	192	5%	202	\$ -	\$ -	0.120	\$ 50.00	\$ 6.00	\$ 1,209.60	\$ 1,209.60	
34		Backfill	CY	145	5%	152	\$ -	\$ -	0.152	\$ 50.00	\$ 7.60	\$ 1,157.10	\$ 1,157.10	
		Subtotal (Site)						\$ 25,034				\$ 17,183		\$ 42,216
DIVISION 22-Plumbing														
		Pipes												
35		(1" Dia) Copper L Cold Water Pipe	LF	40	5%	42	\$ 6.10	\$ 256.20	0.300	\$ 50.00	\$ 15.00	\$ 630.00	\$ 886.20	
36		(1" Dia) Gas Pipe	LF	205	5%	215	\$ 3.00	\$ 645.75	0.200	\$ 50.00	\$ 10.00	\$ 2,152.50	\$ 2,798.25	
37		(1/2" Dia) Copper L Hot Water Return Pipe	LF	15	5%	16	\$ 3.50	\$ 55.13	0.250	\$ 50.00	\$ 12.50	\$ 196.88	\$ 252.00	

Building Data Summary	
Project ID:	*****
Location:	*****
Scope of Work:	Plumbing & HVAC
Date:	

Item #	Ref. Sheet #	Item Description	Unit	Quantity	Wastage	Quantity w/ Wastage	Unit Material Cost	Total Material Cost	Unit Manhour	Hourly Wage	Unit Labor Cost	Total Labor Cost	Sub Cost	Total Trade Cost
38		(1-1/2" Dia) Cast Iron/PVC Gas Pipe	LF	85	5%	89	\$ 8.00	\$ 714.00	0.400	\$ 50.00	\$ 20.00	\$ 1,785.00	\$ 2,499.00	
39		(1-1/4" Dia) Cast Iron/PVC Gas Pipe	LF	156	5%	164	\$ 6.00	\$ 982.80	0.350	\$ 50.00	\$ 17.50	\$ 2,866.50	\$ 3,849.30	
40		(2" Dia) Cast Iron/PVC Gas Pipe	LF	35	5%	37	\$ 10.00	\$ 367.50	0.450	\$ 50.00	\$ 22.50	\$ 826.88	\$ 1,194.38	
41		(2" Dia) Cast Iron/PVC Vent Pipe	LF	50	5%	53	\$ 9.00	\$ 472.50	0.400	\$ 50.00	\$ 20.00	\$ 1,050.00	\$ 1,522.50	
42		(3" Dia) Cast Iron/PVC Sanitary Pipe	LF	15	5%	16	\$ 12.00	\$ 189.00	0.500	\$ 50.00	\$ 25.00	\$ 393.75	\$ 582.75	
43		(3" Dia) Cast Iron/PVC Vent Pipe	LF	15	5%	16	\$ 12.00	\$ 189.00	0.450	\$ 50.00	\$ 22.50	\$ 354.38	\$ 543.38	
44		(3/4" Dia) Copper L Cold Water Pipe	LF	240	5%	252	\$ 4.50	\$ 1,134.00	0.250	\$ 50.00	\$ 12.50	\$ 3,150.00	\$ 4,284.00	
45		(3/4" Dia) Copper/PVC Condensate Drain Pipe	LF	80	5%	84	\$ 2.50	\$ 210.00	0.200	\$ 50.00	\$ 10.00	\$ 840.00	\$ 1,050.00	
46		(3/4" Dia) Copper L Hot Water Pipe	LF	15	5%	16	\$ 4.50	\$ 70.88	0.250	\$ 50.00	\$ 12.50	\$ 196.88	\$ 267.75	
47		(4" Dia) Cast Iron/PVC Sanitary Pipe	LF	15	5%	16	\$ 18.00	\$ 283.50	0.600	\$ 50.00	\$ 30.00	\$ 472.50	\$ 756.00	
		Insulation												
48		2" Batt Insulation	LF	75	5%	79	\$ 0.85	\$ 66.94	0.300	\$ 50.00	\$ 15.00	\$ 1,181.25	\$ 1,248.19	
		Plumbing Fixtures												
49		(3/4" Dia) Hose Bibb W/ Stem Lock Manuf: WOODFORD Model: PTMV-50070	EA	2	0%	2	\$ 45.00	\$ 90.00	0.500	\$ 50.00	\$ 25.00	\$ 50.00	\$ 140.00	
50		(3/4" Dia) Water Hammer Arrester	EA	2	0%	2	\$ 20.00	\$ 40.00	0.250	\$ 50.00	\$ 12.50	\$ 25.00	\$ 65.00	
51		Water Heater (30 Gal) Mnauf: AO SMITH Model: DEL-30	EA	1	0%	1	\$ 2,400.00	\$ 2,400.00	2.500	\$ 50.00	\$ 125.00	\$ 125.00	\$ 2,525.00	
52		Expension Tank (2 Gal) Manuf: AMTROL Model: THERM-X-TROL	EA	1	0%	1	\$ 80.00	\$ 80.00	0.500	\$ 50.00	\$ 25.00	\$ 25.00	\$ 105.00	
53		Water Closet Manuf: AMERICAN STANDARD Model: 751CA.001	EA	1	0%	1	\$ 300.00	\$ 300.00	1.500	\$ 50.00	\$ 75.00	\$ 75.00	\$ 375.00	
54		Lavatory W/ Faucet Manuf: American Standard Model: 0954	EA	1	0%	1	\$ 350.00	\$ 350.00	1.000	\$ 50.00	\$ 50.00	\$ 50.00	\$ 400.00	
55		Mop Sink W/ Faucet Manuf: MUSTEE Model: 63M	EA	1	0%	1	\$ 275.00	\$ 275.00	1.250	\$ 50.00	\$ 62.50	\$ 62.50	\$ 337.50	
56		Drinking Fountain Manuf: ELKAY Model: EZSTL8C	EA	1	0%	1	\$ 450.00	\$ 450.00	1.500	\$ 50.00	\$ 75.00	\$ 75.00	\$ 525.00	
57		Recirculation Pump Manuf: BELL & GOSSET Model: NBF-9U/LW	EA	1	0%	1	\$ 350.00	\$ 350.00	1.500	\$ 50.00	\$ 75.00	\$ 75.00	\$ 425.00	
58		(2" Dia) Wall Cleanout Manuf: JR.SMITH Model: 4530S	EA	2	0%	2	\$ 40.00	\$ 80.00	0.500	\$ 50.00	\$ 25.00	\$ 50.00	\$ 130.00	
59		(1" Dia) Pressure Reducing Valve	EA	1	0%	1	\$ 200.00	\$ 200.00	1.000	\$ 50.00	\$ 50.00	\$ 50.00	\$ 250.00	
60		(3" Dia) VTR	EA	1	0%	1	\$ 35.00	\$ 35.00	1.000	\$ 50.00	\$ 50.00	\$ 50.00	\$ 85.00	
		Connections												
61		(1" Dia) 90D Bend	EA	11	0%	11	\$ 3.00	\$ 33.00	0.100	\$ 50.00	\$ 5.00	\$ 55.00	\$ 88.00	
62		(1" to 1-1/4" Dia) Tee	EA	1	0%	1	\$ 4.00	\$ 4.00	0.150	\$ 50.00	\$ 7.50	\$ 7.50	\$ 11.50	
63		(1-1/2" Dia) 90D Bend	EA	6	0%	6	\$ 4.00	\$ 24.00	0.100	\$ 50.00	\$ 5.00	\$ 30.00	\$ 54.00	
64		(1" to 1-1/2" Dia) Tee	EA	1	0%	1	\$ 5.00	\$ 5.00	0.150	\$ 50.00	\$ 7.50	\$ 7.50	\$ 12.50	
65		(1" to 1-1/2" to 2" Dia) Tee	EA	1	0%	1	\$ 6.00	\$ 6.00	0.200	\$ 50.00	\$ 10.00	\$ 10.00	\$ 16.00	
66		(2" Dia) Tee	EA	2	0%	2	\$ 6.00	\$ 12.00	0.150	\$ 50.00	\$ 7.50	\$ 15.00	\$ 27.00	
67		(2" Dia) 90D Bend	EA	4	0%	4	\$ 5.00	\$ 20.00	0.100	\$ 50.00	\$ 5.00	\$ 20.00	\$ 40.00	
68		(1-1/2" to 1-1/4" Dia) Tee	EA	1	0%	1	\$ 5.00	\$ 5.00	0.150	\$ 50.00	\$ 7.50	\$ 7.50	\$ 12.50	
69		(1" to 1-1/4" Dia) Tee	EA	1	0%	1	\$ 4.00	\$ 4.00	0.150	\$ 50.00	\$ 7.50	\$ 7.50	\$ 11.50	

Building Data Summary	
Project ID:	*****
Location:	*****
Scope of Work:	Plumbing & HVAC
Date:	

Item #	Ref. Sheet #	Item Description	Unit	Quantity	Wastage	Quantity w/ Wastage	Unit Material Cost	Total Material Cost	Unit Manhour	Hourly Wage	Unit Labor Cost	Total Labor Cost	Sub Cost	Total Trade Cost
70		(4" Dia) 90D Bend	EA	3	0%	3	\$ 12.00	\$ 36.00	0.200	\$ 50.00	\$ 10.00	\$ 30.00	\$ 66.00	
71		(4" Dia) Tee	EA	1	0%	1	\$ 15.00	\$ 15.00	0.250	\$ 50.00	\$ 12.50	\$ 12.50	\$ 27.50	
72		(3" Dia) Tee	EA	2	0%	2	\$ 10.00	\$ 20.00	0.200	\$ 50.00	\$ 10.00	\$ 20.00	\$ 40.00	
73		(2" Dia) 90D Bend	EA	6	0%	6	\$ 5.00	\$ 30.00	0.100	\$ 50.00	\$ 5.00	\$ 30.00	\$ 60.00	
74		(2" Dia) Tee	EA	3	0%	3	\$ 6.00	\$ 18.00	0.150	\$ 50.00	\$ 7.50	\$ 22.50	\$ 40.50	
75		(3/4" Dia) 90D Bend	EA	2	0%	2	\$ 2.00	\$ 4.00	0.100	\$ 50.00	\$ 5.00	\$ 10.00	\$ 14.00	
		Subtotal (Plumbing)						\$ 10,523				\$ 17,094		\$ 27,617

DIVISION 23-HVAC

		Ducts												
76		(10" Dia) Duct	LF	56	5%	59	\$ 12.00	\$ 705.60	0.150	\$ 50.00	\$ 7.50	\$ 441.00	\$ 1,146.60	
77		(10" Dia) Flexible Duct	LF	20	5%	21	\$ 4.00	\$ 84.00	0.100	\$ 50.00	\$ 5.00	\$ 105.00	\$ 189.00	
78		(10"x14") Duct	LF	46	5%	48	\$ 13.00	\$ 627.90	0.200	\$ 50.00	\$ 10.00	\$ 483.00	\$ 1,110.90	
79		(16"x14") Duct	LF	16	5%	17	\$ 20.00	\$ 336.00	0.250	\$ 50.00	\$ 12.50	\$ 210.00	\$ 546.00	
80		(20"x14") Duct	LF	50	5%	53	\$ 25.00	\$ 1,312.50	0.300	\$ 50.00	\$ 15.00	\$ 787.50	\$ 2,100.00	
81		(4" Dia) Duct	LF	20	5%	21	\$ 5.00	\$ 105.00	0.100	\$ 50.00	\$ 5.00	\$ 105.00	\$ 210.00	
82		(4" Dia) Flexible Duct	LF	8	5%	8	\$ 3.00	\$ 25.20	0.080	\$ 50.00	\$ 4.00	\$ 33.60	\$ 58.80	
83		(4" Dia) Flue Vent	LF	35	5%	37	\$ 12.00	\$ 441.00	0.200	\$ 50.00	\$ 10.00	\$ 367.50	\$ 808.50	
84		(6" Dia) Duct	LF	20	5%	21	\$ 8.00	\$ 168.00	0.120	\$ 50.00	\$ 6.00	\$ 126.00	\$ 294.00	
85		(6" Dia) Flexible Duct	LF	5	5%	5	\$ 4.00	\$ 21.00	0.080	\$ 50.00	\$ 4.00	\$ 21.00	\$ 42.00	
86		(8" Dia) Duct	LF	5	5%	5	\$ 10.00	\$ 52.50	0.130	\$ 50.00	\$ 6.50	\$ 34.13	\$ 86.63	
87		(8" Dia) Flexible Duct	LF	5	5%	5	\$ 5.00	\$ 26.25	0.100	\$ 50.00	\$ 5.00	\$ 26.25	\$ 52.50	
		HVAC Fixtures												
88	Unit Heater Manuf: REZNOR Model: UDX-75	EA	6	0%	6	\$ 1,800.00	\$ 10,800.00	4.000	\$ 50.00	\$ 200.00	\$ 1,200.00	\$ 12,000.00		
89	Exhaust Fan Manuf: GREENHECK Model: SBCE-3H42-100	EA	5	0%	5	\$ 450.00	\$ 2,250.00	2.000	\$ 50.00	\$ 100.00	\$ 500.00	\$ 2,750.00		
90	Exhaust Fan Manuf: PANASONIC Model: FV-11-15VK	EA	2	0%	2	\$ 200.00	\$ 400.00	1.000	\$ 50.00	\$ 50.00	\$ 100.00	\$ 500.00		
91	(4'x4') Louver Manuf: GREENHECK Model: ESD-435	EA	5	0%	5	\$ 250.00	\$ 1,250.00	1.000	\$ 50.00	\$ 50.00	\$ 250.00	\$ 1,500.00		
92	(4'x4') Louver Manuf: GREENHECK Model: ESD-436	EA	5	0%	5	\$ 250.00	\$ 1,250.00	1.000	\$ 50.00	\$ 50.00	\$ 250.00	\$ 1,500.00		
93	(1'x1') Louver Manuf: GREENHECK Model: ESD-2020	EA	1	0%	1	\$ 80.00	\$ 80.00	0.500	\$ 50.00	\$ 25.00	\$ 25.00	\$ 105.00		
94	(4" Dia) Vent Cap	EA	6	0%	6	\$ 20.00	\$ 120.00	0.250	\$ 50.00	\$ 12.50	\$ 75.00	\$ 195.00		
95	(2'x2') Ceiling Diffusr Manuf: TITUS Model: TMS	EA	12	0%	12	\$ 100.00	\$ 1,200.00	0.500	\$ 50.00	\$ 25.00	\$ 300.00	\$ 1,500.00		
96	(1'x1') Ceiling Diffusr Manuf: TITUS Model: TMS	EA	2	0%	2	\$ 70.00	\$ 140.00	0.500	\$ 50.00	\$ 25.00	\$ 50.00	\$ 190.00		
97	(2'x2') Return Grille Manuf: TITUS Model: PAR	EA	4	0%	4	\$ 90.00	\$ 360.00	0.500	\$ 50.00	\$ 25.00	\$ 100.00	\$ 460.00		
98	Smoke Detector	EA	2	0%	2	\$ 60.00	\$ 120.00	0.250	\$ 50.00	\$ 12.50	\$ 25.00	\$ 145.00		
99	(10" Dia) Volume Damper	EA	10	0%	10	\$ 90.00	\$ 900.00	0.500	\$ 50.00	\$ 25.00	\$ 250.00	\$ 1,150.00		

Building Data Summary	
Project ID:	*****
Location:	*****
Scope of Work:	Plumbing & HVAC
Date:	

Item #	Ref. Sheet #	Item Description	Unit	Quantity	Wastage	Quantity w/ Wastage	Unit Material Cost	Total Material Cost	Unit Manhour	Hourly Wage	Unit Labor Cost	Total Labor Cost	Sub Cost	Total Trade Cost	
100		(8" Dia) Volume Damper	EA	1	0%	1	\$ 80.00	\$ 80.00	0.500	\$ 50.00	\$ 25.00	\$ 25.00	\$ 105.00		
101		(4" Dia) Volume Damper	EA	2	0%	2	\$ 60.00	\$ 120.00	0.500	\$ 50.00	\$ 25.00	\$ 50.00	\$ 170.00		
102		(6" Dia) Volume Damper	EA	1	0%	1	\$ 70.00	\$ 70.00	0.500	\$ 50.00	\$ 25.00	\$ 25.00	\$ 95.00		
103		Roof Top Unit (5 Ton) Manuf: CARRIER Model: 48GCEH06	EA	2	0%	2	\$ 8,200.00	\$ 16,400.00	8.000	\$ 50.00	\$ 400.00	\$ 800.00	\$ 17,200.00		
		Connections													
104		Thermostat	EA	2	0%	2	\$ 300.00	\$ 600.00	0.500	\$ 50.00	\$ 25.00	\$ 50.00	\$ 650.00		
105		Duct Transition	EA	2	0%	2	\$ 80.00	\$ 160.00	0.500	\$ 50.00	\$ 25.00	\$ 50.00	\$ 210.00		
106		Elbow W/ Turning Vanes	EA	2	0%	2	\$ 100.00	\$ 200.00	0.750	\$ 50.00	\$ 37.50	\$ 75.00	\$ 275.00		
107		Branch Fitting	EA	12	0%	12	\$ 50.00	\$ 600.00	0.500	\$ 50.00	\$ 25.00	\$ 300.00	\$ 900.00		
		Subtotal (HVAC)						\$ 41,005				\$ 7,240		\$ 48,245	
													PROJECTED COST	\$ 126,579	
													INSURANCE	3%	\$ 3,797.36
													CONTINGENCY	5%	\$ 6,328.93
													OVERHEAD AND PROFIT	15%	\$ 18,987
													TAX	7.00%	\$ 5,359.33
													SUGGESTED BID	\$ 161,051	

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

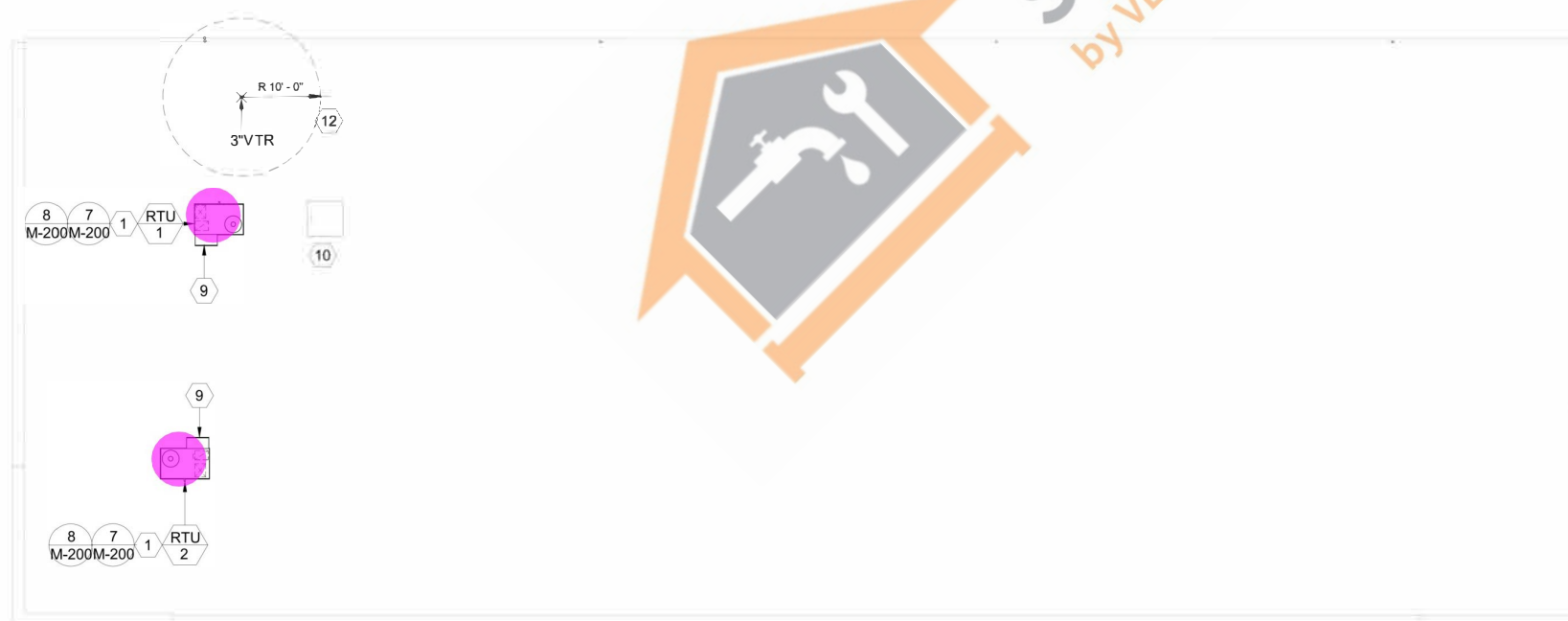






MECHANICAL FLOOR PLAN

3/32" = 1'-0"



MECHANICAL ROOF PLAN

3/32" = 1'-0"

MECHANICAL PLAN NOTES:

- (4" Dia) Flue Vent
- (10"x14") Duct
- (10" Dia) Duct
- (16"x14") Duct
- (10" Dia) Flexible Duct
- (20"x14") Duct
- (4" Dia) Duct
- (6" Dia) Duct
- (8" Dia) Duct
- (20"x14") Duct
- (4" Dia) Flexible Duct
- (6" Dia) Flexible Duct
- 8" Dia) Flexible Duct
- Unit Heater
- Exhaust Fan
- Exhaust Fan
- (4'x4') Louver
- (1'x1') Louver
- (4'x4') Louver
- (4" Dia) Vent Cap
- (2'x2') Ceiling Diffusr
- (1'x1') Ceiling Diffusr
- (2'x2') Return Grille
- Smoke Detector
- (10" Dia) Volume Damper
- (8" Dia) Volume Damper
- (4" Dia) Volume Damper
- (6" Dia) Volume Damper
- Duct Transition
- Elbow W/ Turning Vanes
- Branch Fitting
- Roof Top Unit (5 Ton)
- Thermostat

Project Name:

33.9 FT

45.1 FT

55.1 FT

15.4 FT

18.6 FT

27.7 FT

18.9 FT

19.6 FT

4.2 FT

2.0

5.6 FT

4.8 FT

2.4 FT

6.0

5.0

2.0

5.0

1.0

5.0

6.0

12.0

2.0

4.0

2.0

10.0

1.0

2.0

1.0

2.0

2.0

2.0

2.0

2.0

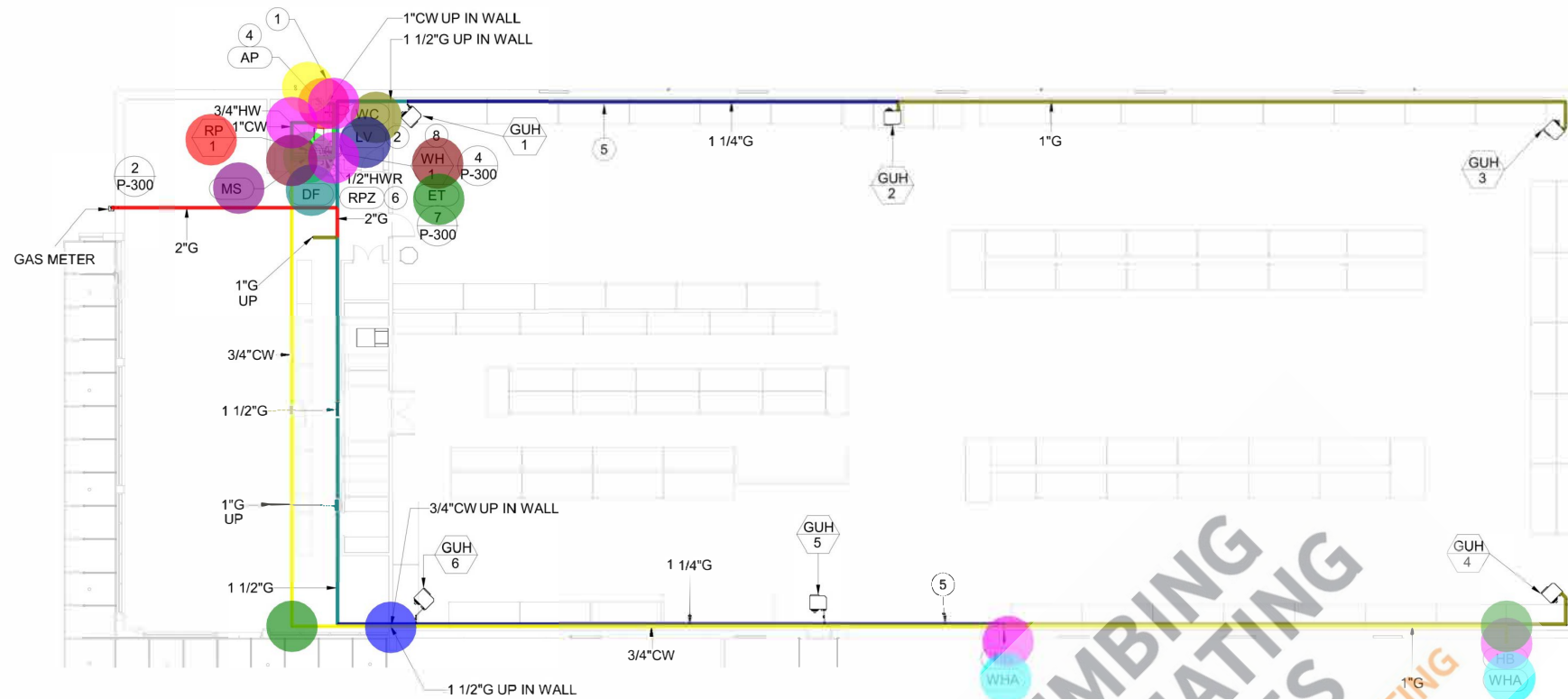
2.0

2.0

2.0

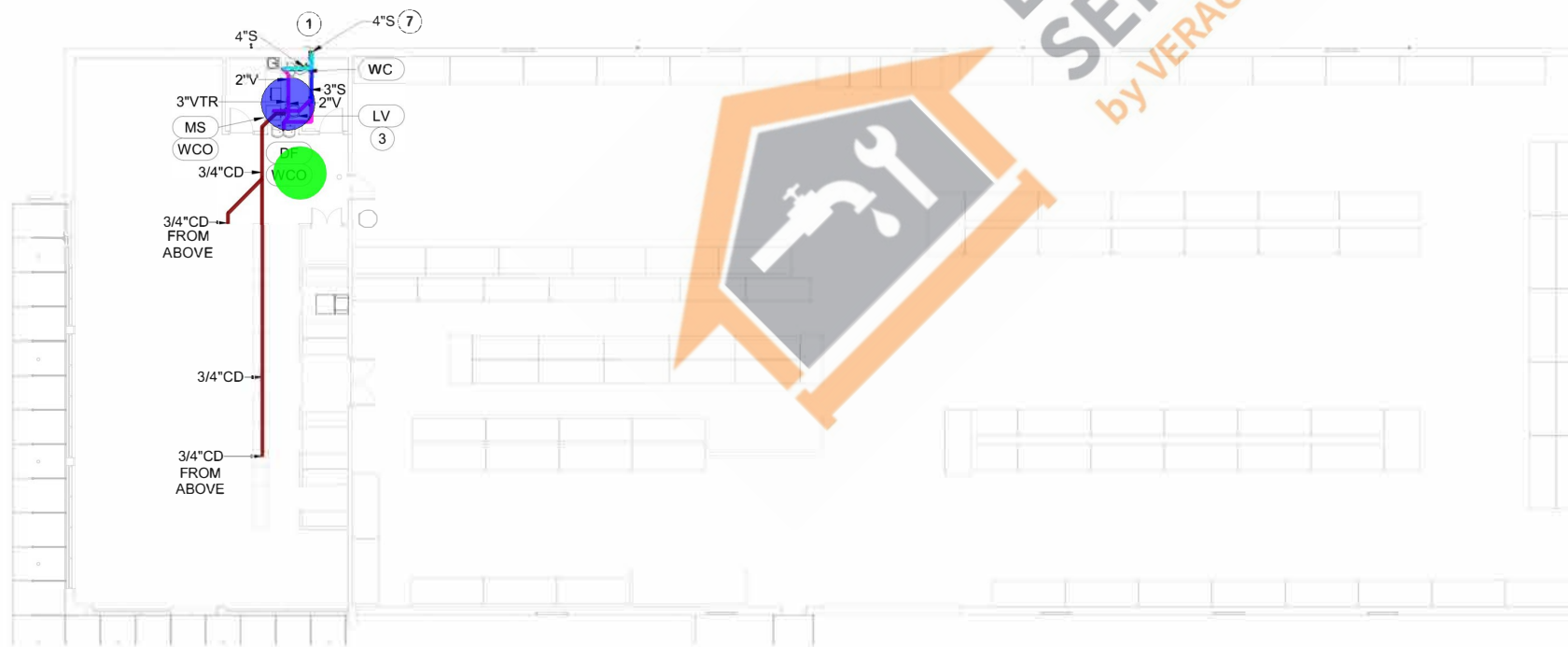
MECHANICAL PLANS

PLAN NORTH	Project No.	Sheet No.
	Drawn Author	Ckd BSS
		M-100



1 PLUMBING WATER & GAS FLOOR PLAN

3/32" = 1'-0"



2 PLUMBING SANITARY & VENT FLOOR PLAN

3/32" = 1'-0"

PLUMBING PLAN NOTES:

1. REFER TO SHEET P-002 FOR WATER AND SANITARY LINE CONTINUATION.
2. HOT WATER SERVING PUBLIC LAVS MAY NOT EXCEED 2'-0" IN LENGTH BETWEEN HOT WATER MAIN LINE AND PLUMBING FIXTURE. TO COMPLY W/IECC C404.5.1., ROUTE MAIN LINE DOWN IN WALL, AND TAP 1/2" HOT WATER LINE TO LAVATORY FAUCET. LOOP HOT WATER LINE BACK UP AND CONTINUE ROUTING TO OTHER PLUMBING FIXTURES SHOWN ON PLAN.
3. ROUTE NEW 3/4" CONDENSATE LINE DOWN IN WALL AND CONNECT TO LAVATORY TAILPIECE.
4. PROVIDE PRESSURE REDUCING VALVE ON COLD WATER LINE ENTERING BUILDING. WATER PRESSURE INTO BUILDING SERVING PLUMBING FIXTURES TO BE A MAXIMUM OF 60 PSI.
5. ROUTE GAS LINE AS HIGH AS POSSIBLE.
6. 1" BACKFLOW PREVENTER MOUNTED ON WALL.



PROJECT ADDRESS

	(1" Dia) Gas Pipe	177.2 FT
	(1-1/4" Dia) Gas Pipe	155.2 FT
	(1-1/2" Dia) Gas Pipe	75.4 FT
	(2" Dia) Gas Pipe	34.1 FT
	(1" Dia) Cold Water Pipe	24.8 FT
	(3/4" Dia) Cold Water Pipe	227.4 FT
	(3" Dia) Sanitary Pipe	6.5 FT
	(2" Dia) Vent Pipe	20.1 FT
	(4" Dia) Sanitary Pipe	5.7 FT
	(3/4" Dia) Condensate Drain Pipe	54.2 FT
	(1" Dia) Cold Water Pipe	1.0
	(1/2" Dia) Hot Water Return Pipe	1.0
	(3/4" Dia) Hot Water Pipe	1.0
	(3/4" Dia) Cold Water Pipe	1.0
	(3/4" Dia) Hose Bibb W/ Stem Lock	2.0
	(3/4" Dia) Water Hammer Arrestor	2.0
	Water Heater (30 Gal)	1.0
	Expansion Tank (2 Gal)	1.0
	Water Closet	1.0
	Lavatory W/ Faucet	1.0
	Mop Sink W/ Faucet	1.0
	Drinking Fountain	1.0
	Recirculation Pump	1.0
	(2" Dia) Wall Cleanout	2.0
	(1" Dia) Pressure Reducing Valve	1.0
	(3" Dia) VTR	1.0
	(3/4" Dia) 90D Bend	2.0
	(1" Dia) 90D Bend	3.0
	(2" Dia) Tee	1.0

Date

07.04.2024

Date

R

PLAN NORTH	Project No.	Sheet No.
	Drawn Author	Ckd BSS
		P-100