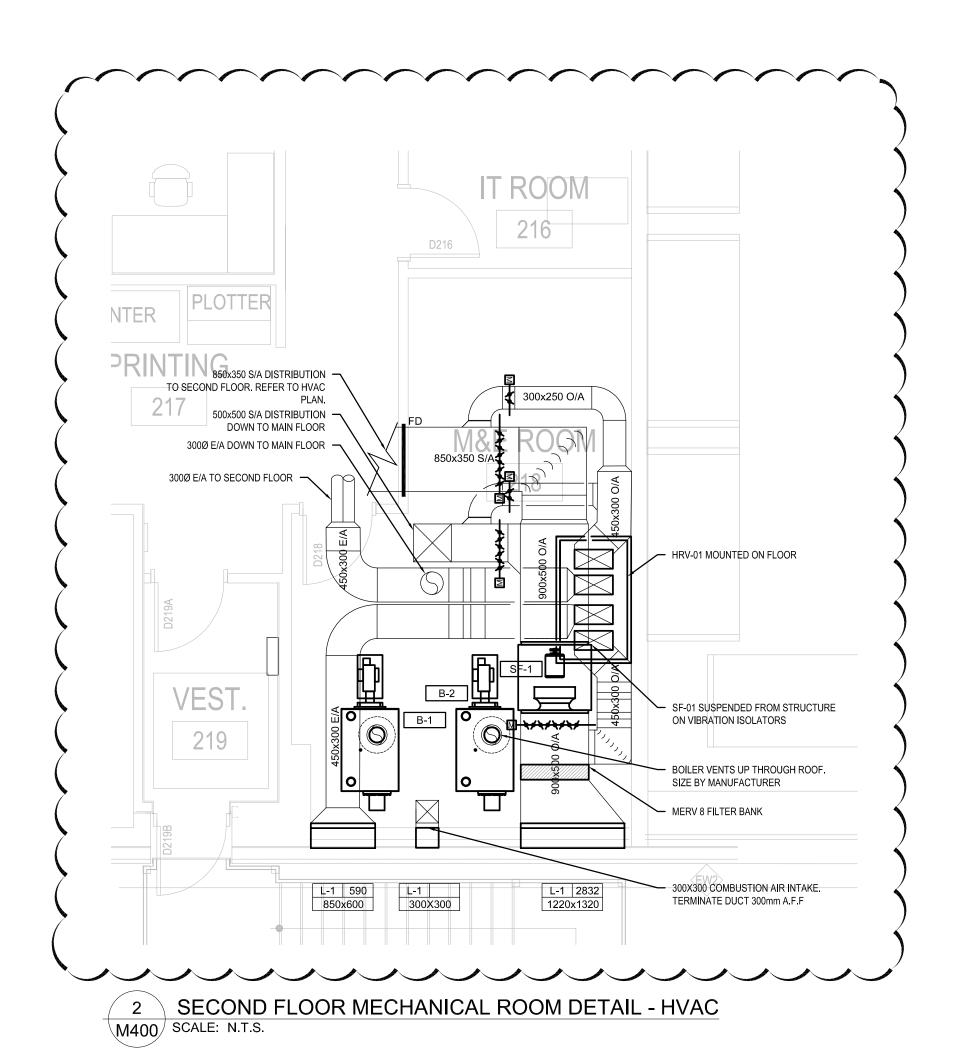
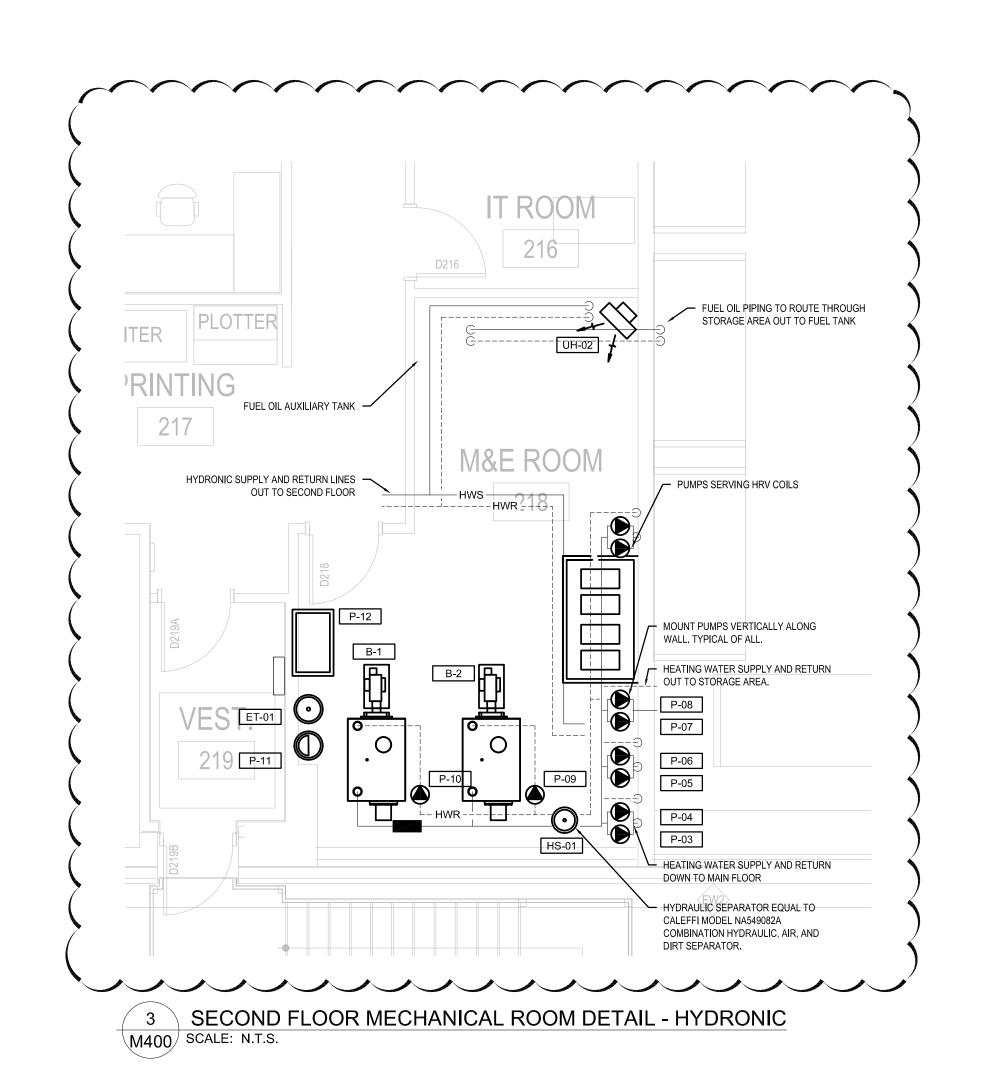


1 MAIN FLOOR MECHANICAL ROOM DETAIL M400 SCALE: N.T.S.



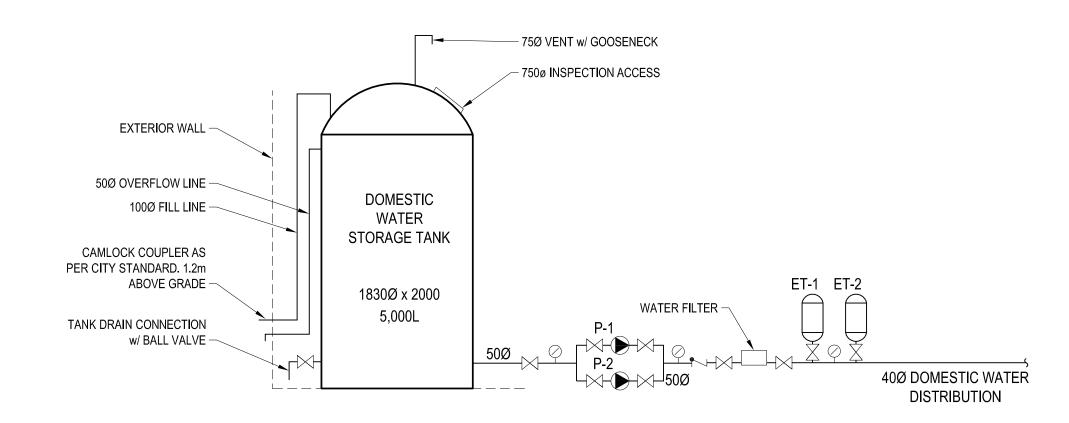


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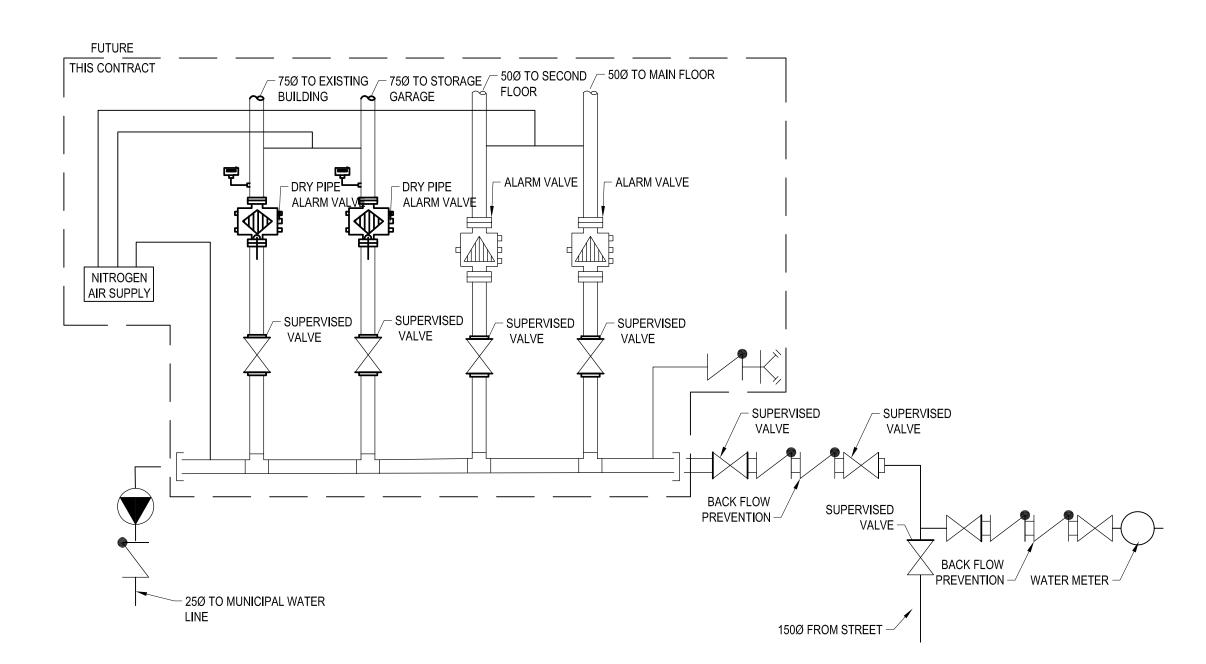
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MECHANICAL ROOM PLANS

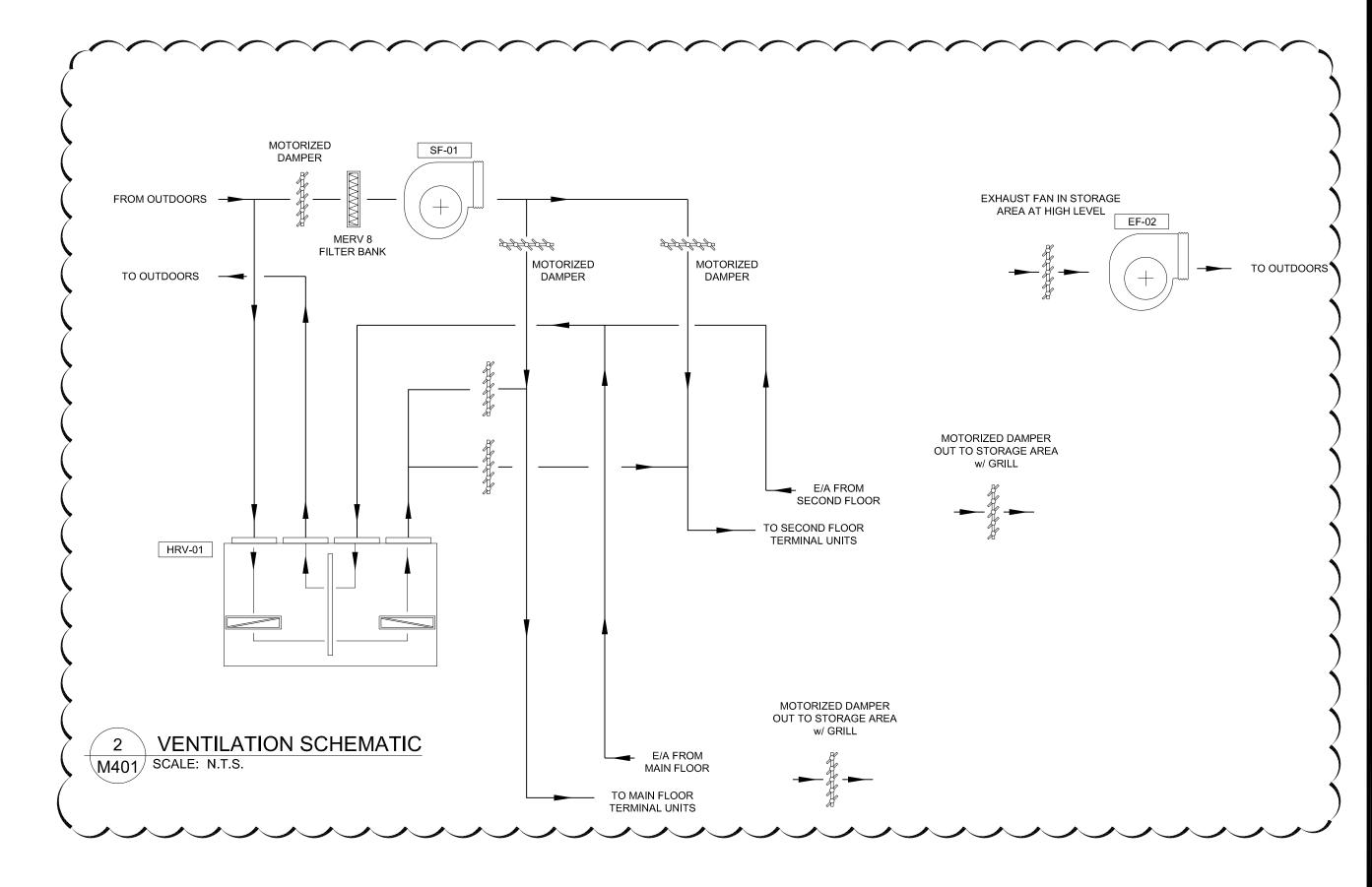
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1 DOMESTIC WATER SCHEMATIC M401 SCALE: N.T.S.



3 DOMESTIC WATETR AND SPRINKLER TREE SCHEMATIC SCALE: N.T.S.



VERNE REIMER ARCHITECTURE

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CONSULTANTS:

1600 BUFFALO PLACE WINNIPEG, MANITOBA CANADA R3T 688 PHONE: 204-477-6650 WWW.WSP.COM

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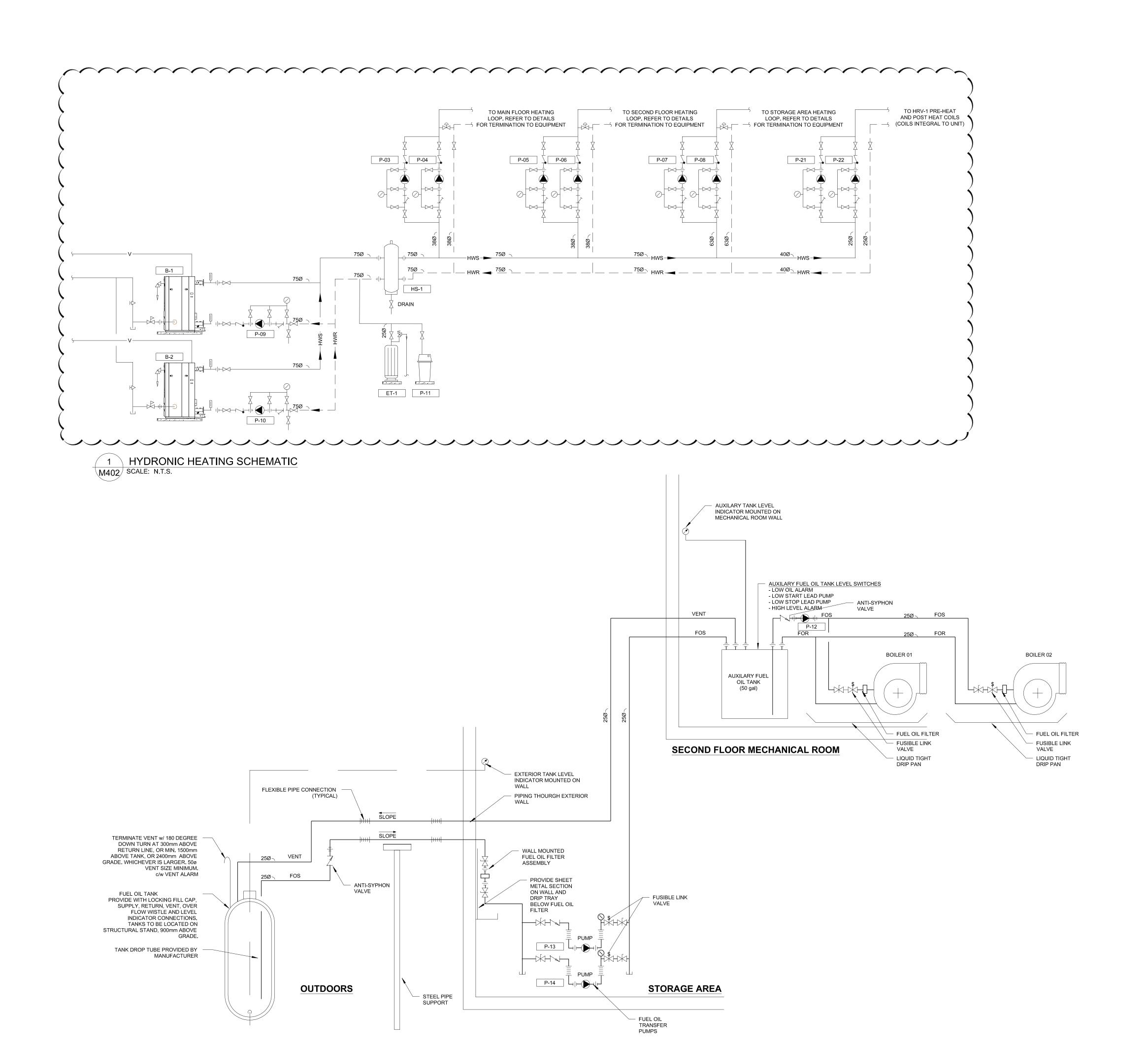
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TITLE: SCHEMATICS

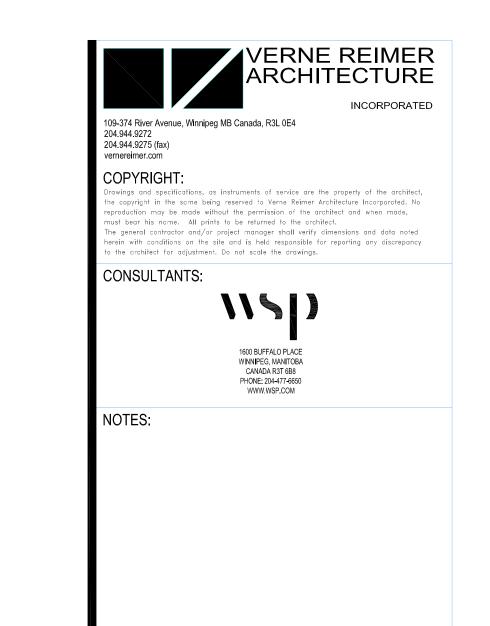
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PADIAN.	CEILING PANEL (BASED ON	u STERI_IN	ic)																				
TAG	SERVICE	WIDTH O		# OF TUBES		OF ACTIVE T PANEL	1	F INACTIVE TION	LENG TH C	F PANEL	E.V	V.T.	L.W	/ . Т.	CAPA	CITY	DES FLOW	IGN RATE	WPD	·	MANUFACTURER	MODEL	NOTES
DOD 04	440 CHARED FOURDMENT	IN 22.04	mm	4	IN 407.75	mm	IN 42.00	mm	IN 440.75	mm	°C	°F	°C	°F	BTU/HR	KW	L/S	GPM		ft.	Ctadina	I D 24	4.2
RCP-01 RCP-02	118 - SHARED EQUIPMENT 118 - SHARED EQUIPMENT	23.94 23.75	608 603	4	107.75 47.75	2,737 1,213	12.00 0.00	305 0	119.75 47.75	3,042 1,213	82 82	180 180	71 71	160 160	3,286 1,456	0.96	0.024 0.010	0.38 0.17		0.10	Sterling Sterling	LP-24 LP-24	1, 2
RCP-03 RCP-04	127 - EXECUTIVE OFFICE 128 - MEETING ROOM	23.75 23.75	603 603	4	107.75 167.75	2,737 4,261	12.00 24.00	305 610	119.75 191.75	3,042 4,870	82 82	180 180	71 71	160 160	3,286 5,116	0.96 1.50	0.024 0.037	0.38 0.58		0.10 0.38	Sterling Sterling	LP-24 LP-24	1, 2 1, 2
RCP-05	128 - MEETING ROOM	23.75	603	4	95.75	2,432	24.00	610	119.75	3,042	82	180	71	160	2,920	0.86	0.037	0.33		0.07	Sterling	LP-24	1, 2
RCP-06 RCP-07	129 - WORKSTATIONS 129 - WORKSTATIONS	23.75 23.75	603 603	4	107.75 215.75	2,737 5,480	24.00 24.00	610 610	131.75 239.75	3,346 6,090	82 82	180 180	71 71	160 160	3,286 6,580	0.96 1.93	0.024 0.047	0.38 0.75		0.10 0.81	Sterling Sterling	LP-24 LP-24	1, 2
RCP-08	103 - UTR	47.75	1,213	8	47.75	1,213	24.00	610	71.75	1,822	82	180	71	160	2,913	0.85	0.021	0.33	0.21	0.07	Sterling	LP-48	1, 2
RCP-09 RCP-10	104 - UTR 105 - LOCKERS	47.75 11.75	1,213 298	8 2	47.75 191.75	1,213 4,870	24.00 48.00	610 1,219	71.75 239.75	1,822 6,090	82 82	180 180	71 71	160 160	2,913 3,090	0.85	0.021	0.33		0.07	Sterling Sterling	LP-48 LP-12	1, 2
RCP-11	112 - OFFICE	23.75	603	4	47.75	1,213	12.00	305	59.75	1,518	82	180	71	160	1,456	0.43	0.010	0.17	0.03	0.01	Sterling	LP-24	1, 2
RCP-12 RCP-13	112 - OFFICE 122 - FILING	23.75 11.75	603 298	2	47.75 47.75	1,213 1,213	12.00 12.00	305 305	59.75 59.75	1,518 1,518	82 82	180 180	71 71	160 160	1,456 769	0.43	0.010	0.17		0.01	Sterling Sterling	LP-24 LP-12	1, 2 1, 2
RCP-14	123 - OFFICE	11.75	298	2	47.75	1,213	12.00	305	59.75	1,518	82	180	71	160	769	0.23	0.006	0.09		0.00	Sterling	LP-12	1, 2
RCP-15 RCP-16	124 - OFFICE 125 - OFFICE	11.75 11.75	298 298	2	47.75 47.75	1,213 1,213	12.00 12.00	305 305	59.75 59.75	1,518 1,518	82 82	180 180	71 71	160 160	769 769	0.23	0.006 0.006	0.09		0.00	Sterling Sterling	LP-12 LP-12	1, 2 1, 2
RCP-17 RCP-18	126 - OFFICE 119 - UTR	11.75 11.75	298	2 2	47.75 47.75	1,213 1,213	12.00 12.00	305 305	59.75 59.75	1,518 1,518	82 82	180 180	71 71	160	769	0.23	0.006 0.006	0.09		0.00	Sterling	LP-12 LP-12	1, 2
RCP-16	119 - UTR	11.75	298 298	2	47.75	1,213	12.00	305	59.75	1,518	82	180	71	160 160	769 769	0.23	0.006	0.09		0.00	Sterling Sterling	LP-12 LP-12	1, 2 1, 2
RCP-20 RCP-21	122 - FILING 113 - STAFF HUB	11.75 11.75	298 298	2	47.75 143.75	1,213 3,651	12.00 24.00	305 610	59.75 167.75	1,518 4,261	82 82	180 180	71 71	160 160	769 2,316	0.23	0.006 0.017	0.09 0.26		0.00	Sterling Sterling	LP-12 LP-12	1, 2 1, 2
RCP-22	113 - STAFF HUB	11.75	298	2	143.75	3,651	24.00	610	167.75	4,261	82	180	71	160	2,316	0.68	0.017	0.26	0.10	0.03	Sterling	LP-12	1, 2
RCP-23 RCP-24	202 - MEETING ROOM 202 - MEETING ROOM	23.75 23.75	603 603	4	143.75 143.75	3,651 3,651	24.00 0.00	610 0	167.75 143.75	4,261 3,651	82 82	180 180	71 71	160 160	4,384 4,384	1.28	0.032	0.50 0.50		0.24	Sterling Sterling	LP-24 LP-24	1, 2 1, 2
RCP-25	202 - MEETING ROOM	23.75	603	4	143.75	3,651	0.00	0	143.75	3,651	82	180	71	160	4,384	1.28	0.032	0.50	0.72	0.24	Sterling	LP-24	1, 2
RCP-26 RCP-27	207 - WASHROOM 208 - WASHROOM	47.75 47.75	1,213 1,213	8	47.75 47.75	1,213 1,213	12.00 12.00	305 305	59.75 59.75	1,518 1,518	82 82	180 180	71 71	160 160	2,913 2,913	0.85	0.021	0.33		0.07	Sterling Sterling	LP-48 LP-48	1, 2
RCP-28	209 - ENGINEERING STORAGE	35.75	908	6	143.75	3,651	48.00	1,219	191.75	4,870	82	180	71	160	5,991	1.76	0.043	0.68	2.01	0.67	Sterling	LP-36	1, 2
RCP-29 RCP-30	210 - STAFF HUB 210 - STAFF HUB	23.75	603	4	191.75 191.75	4,870 4,870	48.00 48.00	1,219 1,219	239.75 239.75	6,090 6,090	82 82	180 180	71	160 160	5,848 5,848	1.71	0.042	0.67		0.57 0.57	Sterling Sterling	LP-24 LP-24	1, 2
RCP-31	210 - STAFF HUB	23.75	603	4	95.75	2,432	24.00	610	119.75	3,042	82	180	71	160	2,920	0.86	0.021	0.33		0.07	Sterling	LP-24	1, 2
RCP-32 RCP-33	213 - LAND STORAGE 213 - LAND STORAGE	23.75 23.75	603 603	4	71.75 71.75	1,822 1,822	96.00 96.00	2,438 2,438	167.75 167.75	4,261 4,261	82 82	180 180	71 71	160 160	2,188 2,188	0.64	0.016 0.016	0.25 0.25		0.03	Sterling Sterling	LP-24 LP-24	1, 2 1, 2
RCP-34 RCP-35	215 - JANITOR 216 - IT ROOM	23.75 11.75	603 298	4 2	47.75 47.75	1,213 1,213	12.00 12.00	305 305	59.75 59.75	1,518 1,518	82 82	180 180	71 71	160 160	1,456 769	0.43	0.010 0.006	0.17 0.09		0.01	Sterling Sterling	LP-24 LP-12	1, 2 1, 2
RCP-36	221 - PLANNING & DEVELOPMENT DIR.	44.00	1,118	6	95.75	2,432	12.00	305	107.75	2,737	82	180	71	160	3,991	1.17	0.029	0.46	-	0.20	Sterling	LP-36	1, 2
RCP-37 RCP-38	222 - LAND ADMINISTRATION 223 - LAND ADMINISTRATION	44.00 44.00	1,118 1,118	8	71.75 71.75	1,822 1,822	24.00 24.00	610 610	95.75 95.75	2,432 2,432	82 82	180 180	71 71	160 160	4,377 4,377	1.28	0.031 0.031	0.50 0.50		0.24	Sterling Sterling	LP-48 LP-48	1, 2 1, 2
RCP-39	224 - ENG. & CAP. PLANNING MGR.	44.00	1,118	8	71.75	1,822	24.00	610	95.75	2,432	82	180	71	160	4,377	1.28	0.031	0.50		0.24	Sterling	LP-48	1, 2
RCP-40 RCP-41	225 - ENG. & CAP. PLANNING DIR. 225 - ENG. & CAP. PLANNING DIR.	23.75 11.75	603 298	4 2	95.75 119.75	2,432 3,042	0.00	0	95.75 119.75	2,432 3,042	82 82	180 180	71 71	160 160	2,920 1,930	0.86 0.57	0.021	0.33		0.07	Sterling Sterling	LP-24 LP-12	1, 2 1, 2
RCP-42	225 - ENG. & CAP. PLANNING DIR.	23.75	603	4	47.75	1,213	12.00	305	59.75	1,518	82	180	71	160	1,456	0.43	0.010	0.17	0.03	0.01	Sterling	LP-24	1, 2
RCP-43 RCP-44	225 - ENG. & CAP. PLANNING DIR. 230 - WORKSTATIONS	23.75 23.75	603 603	4	95.75 167.75	2,432 4,261	12.00 12.00	305 305	107.75 179.75	2,737 4,566	82 82	180 180	71 71	160 160	2,920 5,116	0.86 1.50	0.021	0.33 0.58		0.07	Sterling Sterling	LP-24 LP-24	1, 2
RCP-45	230 - WORKSTATIONS	23.75	603	4	191.75	4,870	12.00	305	203.75	5,175	82	180	71	160	5,848	1.71	0.042	0.67		0.57	Sterling	LP-24	1, 2
RCP-46 RCP-47	230 - WORKSTATIONS 230 - WORKSTATIONS	11.75 11.75	298 298	2	119.75 119.75	3,042 3,042	12.00 12.00	305 305	131.75 131.75	3,346 3,346	82 82	180 180	71 71	160 160	1,930 1,930	0.57 0.57	0.014 0.014	0.22 0.22	-	0.02	Sterling Sterling	LP-12 LP-12	1, 2 1, 2
RCP-48 RCP-49	230 - WORKSTATIONS	11.75	298 298	2 2	119.75	3,042 3,042	12.00	305 305	131.75	3,346 3,346	82	180 180	71 71	160 160	1,930	0.57	0.014 0.014	0.22 0.22		0.02	Sterling	LP-12 LP-12	1, 2
RCP-49 RCP-50	230 - WORKSTATIONS 203 - CHIEF	11.75 47.75	1,213	8	119.75 71.75	1,822	12.00 12.00	305	131.75 83.75	2,127	82 82	180	71	160	1,930 4,377	0.57 1.28	0.014	0.22		0.02	Sterling Sterling	LP-12 LP-48	1, 2 1, 2
RCP-51 RCP-52	201 - LOBBY 204 - RECEPTION	11.75 11.75	298 298	2	47.75 47.75	1,213 1,213	12.00 12.00	305 305	59.75 59.75	1,518 1,518	82 82	180 180	71 71	160 160	769 769	0.23 0.23	0.006 0.006	0.09		0.00	Sterling Sterling	LP-12 LP-12	1, 2 1, 2
RCP-53	211 - ENGINEERING FILING	11.75	298	2	47.75	1,213	12.00	305	59.75	1,518	82	180	71	160	769	0.23	0.006	0.09		0.00	Sterling	LP-12	1, 2
RCP-54 RCP-55	212 - SPARE OFFICE 214 - PLANNING OFFICE	11.75 11.75	298 298	2	47.75 71.75	1,213 1,822	12.00 48.00	305 1,219	59.75 119.75	1,518 3,042	82 82	180 180	71 71	160 160	769 1,156	0.23	0.006	0.09		0.00	Sterling Sterling	LP-12 LP-12	1, 2
RCP-56	229 - M.E. STORAGE	11.75	298	2	47.75	1,213	24.00	610	71.75	1,822	82	180	71	160	769	0.23	0.006	0.09	0.00	0.00	Sterling	LP-12	1, 2
RCP-57 RCP-58	226 - M.E. OFFICE 227 - SARGENT OFFICE	11.75 11.75	298 298	2	47.75 47.75	1,213 1,213	96.00 72.00	2,438 1,829	143.75 119.75	3,651 3,042	82 82	180 180	71 71	160 160	769 769	0.23	0.006	0.09		0.00	Sterling Sterling	LP-12 LP-12	1, 2
RCP-59	228 - M.E. OFFICERS	11.75	298	2	47.75	1,213	72.00	1,829	119.75	3,042	82	180	71	160	769	0.23	0.006	0.09		0.00	Sterling	LP-12	1, 2
RCP-60 RCP-61	STORAGE & GARAGE STORAGE & GARAGE	28.00 28.00	711 711	6	192.00 192.00	4,877 4,877	-	-	192.00 192.00	4,877 4,877	82 82	180 180	71 71	160 160	8,383 8,383	2.46	0.060	0.96 0.96		1.76 1.76	Sterling Sterling	ELP-24 ELP-24	1, 2 1, 2
RCP-62	STORAGE & GARAGE	28.00	711	6	192.00	4,877	-	-	192.00	4,877	82	180	71 71	160	8,383	2.46	0.060	0.96		1.76	Sterling	ELP-24	1, 2
RCP-63 RCP-64	STORAGE & GARAGE STORAGE & GARAGE	28.00 28.00	711 711	6	192.00 192.00	4,877 4,877	-	-	192.00 192.00	4,877 4,877	82 82	180 180	71	160 160	8,383 8,383	2.46	0.060	0.96 0.96		1.76 1.76	Sterling Sterling	ELP-24 ELP-24	1, 2
RCP-65 RCP-66	STORAGE & GARAGE STORAGE & GARAGE	28.00 28.00	711 711	6	192.00 192.00	4,877 4,877	-	-	192.00 192.00	4,877 4,877	82 82	180 180	71 71	160 160	8,383 8,383	2.46 2.46	0.060 0.060	0.96 0.96		1.76 1.76	Sterling Sterling	ELP-24 ELP-24	1, 2 1, 2
RCP-67	STORAGE & GARAGE	28.00	711	6	192.00	4,877	-	-	192.00	4,877	82	180	71	160	8,383	2.46	0.060	0.96		1.76	Sterling	ELP-24	1, 2
RCP-68	STORAGE & GARAGE STORAGE & GARAGE	28.00 28.00	711 711	6	192.00 192.00	4,877 4,877	-	-	192.00 192.00	4,877 4,877	82 82	180 180	71 71	160 160	8,383 8,383	2.46	0.060	0.96 0.96		1.76 1.76	Sterling Sterling	ELP-24 ELP-24	1, 2 1, 2
RCP-70	STORAGE & GARAGE	28.00	711	6	192.00	4,877	-	-	192.00	4,877	82	180	71	160	8,383	2.46	0.060	0.96	5.26	1.76	Sterling	ELP-24	1, 2
RCP-71 RCP-72	STORAGE & GARAGE STORAGE & GARAGE	28.00 28.00	711 711	6	192.00 192.00	4,877 4,877	-	-	192.00 192.00	4,877 4,877	82 82	180 180	71 71	160 160	8,383 8,383	2.46	0.060	0.96 0.96		1.76 1.76	Sterling Sterling	ELP-24 ELP-24	1, 2
RCP-73	STORAGE & GARAGE	28.00	711	6	192.00	4,877	-	-	192.00	4,877	82	180	71	160	8,383	2.46	0.060	0.96	5.26	1.76	Sterling	ELP-24	1, 2
RCP-74 RCP-75	STORAGE & GARAGE STORAGE & GARAGE	28.00 28.00	711 711	6	192.00 192.00	4,877 4,877	-	-	192.00 192.00	4,877 4,877	82 82	180 180	71 71	160 160	8,383 8,383	2.46	0.060	0.96 0.96		1.76 1.76	Sterling Sterling	ELP-24 ELP-24	1, 2 1, 2
RCP-76	STORAGE & GARAGE	18.00	457	4	180.00	4,572	-	-	180.00	4,572	82	180	71	160	3,929	1.15	0.028	0.45		0.24	Sterling	ELP-12	1, 2
RCP-77 RCP-78	STORAGE & GARAGE STORAGE & GARAGE	18.00 18.00	457 457	4	180.00 180.00	4,572 4,572	-	-	180.00 180.00	4,572 4,572	82 82	180 180	71 71	160 160	3,929 3,929	1.15 1.15	0.028 0.028	0.45 0.45		0.24	Sterling Sterling	ELP-12 ELP-12	1, 2 1, 2
RCP-79	STORAGE & GARAGE	18.00	457	4	180.00	4,572	-	-	180.00	4,572	82	180	71	160	3,929	1.15	0.028	0.45		0.24	Sterling	ELP-12	1, 2
RCP-80 RCP-81	STORAGE & GARAGE STORAGE & GARAGE	18.00 18.00	457 457	4	180.00 180.00	4,572 4,572	-	-	180.00 180.00	4,572 4,572	82 82	180 180	71 71	160 160	3,929 3,929	1.15 1.15	0.028 0.028	0.45 0.45		0.24	Sterling Sterling	ELP-12 ELP-12	1, 2 1, 2
RCP-82	STORAGE & GARAGE	18.00	457	4	180.00	4,572	-	-	180.00	4,572	82	180	71	160	3,929	1.15	0.028	0.45		0.24	Sterling	ELP-12	1, 2
RCP-83 RCP-84	STORAGE & GARAGE STORAGE & GARAGE	18.00 18.00	457 457	4	180.00 180.00	4,572 4,572	-	-	180.00 180.00	4,572 4,572	82 82	180 180	71 71	160 160	3,929 3,929	1.15 1.15	0.028 0.028	0.45 0.45		0.24	Sterling Sterling	ELP-12 ELP-12	1, 2 1, 2
RCP-85 RCP-86	STORAGE & GARAGE STORAGE & GARAGE	18.00 18.00	457 457	4	180.00 180.00	4,572 4,572	-	-	180.00 180.00	4,572 4,572	82 82	180 180	71 71	160 160	3,929 3,929	1.15 1.15	0.028 0.028	0.45 0.45	0.72 0.72	0.24	Sterling Sterling	ELP-12 ELP-12	1, 2 1, 2
RCP-86 RCP-87	STORAGE & GARAGE STORAGE & GARAGE	18.00	457 457	4	180.00	4,572 4,572		-	180.00	4,572 4,572	82	180	71	160	3,929	1.15	0.028	0.45		0.24	Sterling	ELP-12 ELP-12	1, 2
RCP-88	STORAGE & GARAGE	18.00	457 457	4	180.00	4,572	-	-	180.00	4,572 4,572	82	180 180	71 71	160 160	3,929	1.15	0.028	0.45		0.24	Sterling	ELP-12	1, 2
RCP-89 RCP-90	STORAGE & GARAGE STORAGE & GARAGE	18.00 18.00	457 457	4	180.00 180.00	4,572 4,572	-	-	180.00 180.00	4,572 4,572	82 82	180 180	71 71	160 160	3,929 3,929	1.15 1.15	0.028 0.028	0.45 0.45		0.24	Sterling Sterling	ELP-12 ELP-12	1, 2 1, 2
RCP-91 RCP-92	STORAGE & GARAGE STORAGE & GARAGE	18.00 18.00	457 457	4	180.00 180.00	4,572 4,572	-	-	180.00 180.00	4,572 4,572	82 82	180 180	71 71	160 160	3,929 3,929	1.15 1.15	0.028 0.028	0.45 0.45		0.24	Sterling Sterling	ELP-12 ELP-12	1, 2 1, 2
RCP-92 RCP-93	STORAGE & GARAGE STORAGE & GARAGE	18.00	457 457	4	180.00	4,572 4,572	-	-	180.00	4,572 4,572	82	180	71	160	3,929	1.15	0.028	0.45	0.72	0.24	Sterling	ELP-12 ELP-12	1, 2
RCP-94 RCP-95	STORAGE & GARAGE STORAGE & GARAGE	18.00 18.00	457 457	4	180.00 180.00	4,572 4,572	-	-	180.00 180.00	4,572 4,572	82 82	180 180	71 71	160 160	3,929 3,929	1.15 1.15	0.028 0.028	0.45 0.45		0.24	Sterling Sterling	ELP-12 ELP-12	1, 2 1, 2
RCP-95	STORAGE & GARAGE STORAGE & GARAGE	18.00	457	4	180.00	4,572		-	180.00	4,572	82	180	71	160	3,929	1.15	0.028	0.45	0.72	0.24	Sterling	ELP-12	1, 2
RCP-97 RCP-98	STORAGE & GARAGE STORAGE & GARAGE	18.00 18.00	457 457	4	180.00 180.00	4,572 4,572	-	-	180.00 180.00	4,572 4,572	82 82	180 180	71 71	160 160	3,929 3,929	1.15 1.15	0.028 0.028	0.45 0.45		0.24	Sterling Sterling	ELP-12 ELP-12	1, 2 1, 2
NOTES:	2.5.0.0E a SAIVIOE	10.00	701	7	100.00	т, ОТ Z			100.00	7,012	J2	1 100	, ,,	100	0,020	1.10	0.020	J.7J	0.12	J. 27	Otoning	-12	1, 4

3. CORNER ROOM (SEE FLOOR PLAN FOR RADIANT PANEL LAYOUT)

	HEATER / CABIN						1	\A/A TED	TLOW/		/ T	1 14	/ T	14/1	DD	
TAG	ROOM	MODEL		DUTPUT		BLOWER		WATER		E.V		L.V		_	PD	NOTES
			MBH	kW	HP	CFM	L/s	usgpm	L/m	(°F)	(°C)	(°F)	(°C)	ft. WC	kPa	
FF-1	MAIN ENTRANCE	F-200-A	14.5	4.24	1/15	200	94	1.48	5.60	180	82	160	71	0.15	0.45	1,2
FF-2	VESTIBULE	F-200-A	14.5	4.24	1/15	200	94	1.48	5.60	180	82	160	71	0.15	0.45	1,3
FF-3	STAIRWELL	F-200-A	10.7	3.12	1/15	130	61	1.09	4.13	180	82	160	71	0.09	0.27	1,2
FF-4	VESTIBULE	F-200-A	10.7	3.12	1/15	130	61	1.09	4.13	180	82	160	71	0.09	0.27	1,2
UH-01	MF ELECT/MECH RM	H-18	18.1	5.30	1/20	460	217	1.90	7.19	180	82	160	71	1.00	2.99	1
UH-02	2ND ELECT/MECH RM	H-18	18.1	5.30	1/20	460	217	1.90	7.19	180	82	160	71	1.00	2.99	1
UH-03	GARAGE	H-18	18.1	5.30	1/20	460	217	1.90	7.19	180	82	160	71	1.00	2.99	1
UH-04	GARAGE	H-18	18.1	5.30	1/20	460	217	1.90	7.19	180	82	160	71	1.00	2.99	1
JH-05	GARAGE	H-18	18.1	5.30	1/20	460	217	1.90	7.19	180	82	160	71	1.00	2.99	1
UH-06	GARAGE	H-18	18.1	5.30	1/20	460	217	1.90	7.19	180	82	160	71	1.00	2.99	1
UH-07	GARAGE	H-18	18.1	5.30	1/20	460	217	1.90	7.19	180	82	160	71	1.00	2.99	1
UH-08	GARAGE	H-18	18.1	5.30	1/20	460	217	1.90	7.19	180	82	160	71	1.00	2.99	1
UH-09	GARAGE	H-18	18.1	5.30	1/20	460	217	1.90	7.19	180	82	160	71	1.00	2.99	1
UH-10	GARAGE	H-18	18.1	5.30	1/20	460	217	1.90	7.19	180	82	160	71	1.00	2.99	1
UH-11	GARAGE	H-18	18.1	5.30	1/20	460	217	1.90	7.19	180	82	160	71	1.00	2.99	1
UH-12	GARAGE	H-18	18.1	5.30	1/20	460	217	1.90	7.19	180	82	160	71	1.00	2.99	1
UH-13	GARAGE	H-18	18.1	5.30	1/20	460	217	1.90	7.19	180	82	160	71	1.00	2.99	1

1. CAPACITY BASED ON 60°F (15.6°C) EAT.

2. CABINET UNIT HEATER CONFIGURATION TO BE TYPE RW-2 EXPOSED

1. DIAPHRAGM STYLE EXPANSION TANK ASME STAMPED FOR 862 kPa SERVICE.

2. CONSTRUCTION SUITABLE FOR 50% PROPYLENE GLYCOL / 50% WATER WORKING FLUID.

3. CABINET UNIT HEATER CONFIGURATION TO BE TYPE RW-4 SEMI-RECESSED

HRV S	CHEDULE																		
TAG	TAG MANUFACTURER MODEL AIR FLOW RATE E.S.P.								PRE-HE	AT COIL			EL	.ECTRIC	AL	ENERGY RECOVERY			
IAG	WANOFACTORER	IVIODEL	(L/s)	(CFM)	(Pa) (in.WC)		EAT	LAT	FLOW	WPD	EWT	LWT	POWER	MCA	MOP	EFFECTIVNESS			
							-50.00	16.3F	7.1 GPM	16.4 FT	180F	160F							
HRV-01	CVCTEM AID	TOPVEX TR1800HW	TODVEY TD1900HM/	TODI/EV TD1000UM/	576	1 220	240	1.00			RE-HE/	AT COIL			208/3/60	7.10	15	78.5% SENSIBLE	
HKV-U1	SYSTEM AIR T		576	576 1,220	1,220 249	1.00	EAT	LAT	FLOW	WPD	EWT	LWT	200/3/60	7.10	15	79.1% LATENT			
							59F	77F	2.4 GPM	2.1 FT	180F	160F							

VERTICAL HEAT WHEEL ENERGY RECOVERY UNIT WITH ECM SUPPLY AND EXHAUST FANS, SUPPLY AND RETURN FILTERS, PRE-HEAT AND RE-HEAT HYDRONIC COILS, SINGLE POINT ELECTRICAL CONNECTION WITH ONBOARD CONTROLS AND BMS BACNET.

EXPAN	ISION TANK SCHEDULE										
TAG	LOCATION	SERVICE	MAXIMUM	MINIMUM OPERATING TEMP. (°F)	MAXIMUM	RE DATA MINIMUM OPERATING PRESS. (PSIG)	SYSTEM VOLUME (U.S.GAL.)	MINIMUM ACCEPT. VOLUME (U.S.GAL.)	MINIMUM TANK VOLUME (U.S.GAL.)	BASIS OF DESIGN	NOTES
ET-1	MECHANICAL ROOM	HOT GLYCOL HEATING	180	40	30	12	250	14	36	BELL&GOSSETT B165	1, 2,3

3. SEISMIC RESTRAINTS

HYDRONIC WALL FIN SCHEDULE (Based on Jaga) WIDTH HEIGHT LENGTH TUBE DIA. NO. HEAT CAPACITY WATER FLOW WATER P.D. E.W.T. L.W.T. NOTES BB-01 230 9 180 7 1,800 71 19 3/4 1 2.1 7.0 0.08 1.31 0.3 0.1041 82.2 180 76.7 170 MINF00818019 1, 2, 3 BB-02 230 9 180 7 1,800 71 19 3/4 1 2.1 7.0 0.08 1.31 0.3 0.1041 76.7 170 71.1 160 MINF00818019 1, 2, 3 BB-03 | 130 | 5 | 180 | 7 | 1,600 | 63 | 19 | 3/4 | 1 | 0.8 | 2.8 | 0.03 | 0.52 | 0.1 | 0.022 | 82.2 | 180 | 76.7 | 170 | MINF00816009 | 1, 2, 3 BB-04 130 5 180 7 1,600 63 19 3/4 1 0.7 2.4 0.03 0.52 0.1 0.022 76.7 170 71.1 160 MINF00816009 1, 2, 3 BB-05 | 130 | 5 | 180 | 7 | 1,600 | 63 | 19 | 3/4 | 1 | 0.8 | 2.8 | 0.03 | 0.52 | 0.1 | 0.022 | 82.2 | 180 | 76.7 | 170 | MINF00816009 | 1, 2, 3 BB-06 | 130 | 5 | 180 | 7 | 1,600 | 63 | 19 | 3/4 | 1 | 0.7 | 2.4 | 0.03 | 0.52 | 0.1 | 0.022 | 71.1 | 160 | 65.6 | 150 | MINF00816009 | 1, 2, 3

1. UNITS ARE ARRANGED IN SERIES BY PAIR 3. CAPACITY IS BASED ON 18°C (65°F) ENTERING AIR TEMPERATURE.

2. REFER TO SPECIFICATION.

	III. AND DIFFLIOED COLIFDIII F												
RILL AI	ND DIFFUSER SCHED	ULE											
				DIMENSION	S								
TAG	MODEL	SERVICE	WIDTH	LENGTH	NECK	NOTES							
			mm	mm	mm								
S-01	E.H.PRICE SPD	SUPPLY AIR	610	610	150	SQUARE PLAQUE DIFFUSER FOR T-BAR INSTALLATION, COLOUR B12							
S-02	E.H.PRICE SPD	SUPPLY AIR	610	610	200	SQUARE PLAQUE DIFFUSER FOR T-BAR INSTALLATION, COLOUR B12							
R-01	E.H.PRICE 80 SERIES	RETURN AIR	610	610	-	EGG CRATE DIFFUSER FOR T-BAR INSTALLATION							
R-02	E.H.PRICE 80 SERIES	RETURN AIR	610	305	-	EGG CRATE DIFFUSER FOR T-BAR INSTALLATION							
E-01	E.H.PRICE 80 SERIES	EXHAUST AIR	610	610	-	DUCTED EGG CRATE DIFFUSER FOR T-BAR INSTALLATION							
E-02	E.H.PRICE 80 SERIES	EXHAUST AIR	610	305	-	DUCTED EGG CRATE DIFFUSER FOR T-BAR INSTALLATION							
TG-01	E.H.PRICE RAS	TRANSFER AIR	305	305	-	RETURN AIR SILENCER							

		NE REIMER HITECTURE
		INCORPORATE
109-374 River Avenu	ue, Winnipeg MB Canada, R3L 0E4	1

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CONSULTANTS:

NOTES:

PERMIT / STAMP:

1 22/06/02 ISSUED FOR ADDENDUM 0 22/05/12 ISSUED FOR CONSTRUCTION

REV DATE DESCRIPTION CLIENT: CITY OF IQALUIT OPERATIONS CENTRE

1549 FEDERAL ROAD

IQALUIT, NUNAVUT X0A 0H0

CLIENT PROJECT NO. 820837

TITLE: TITLE:

MECHANICAL SCHEDULES

PROJECT NUMBER: DRAWN BY:

2019.00800

DOMESTIC WATER HEATER SCHEDULE

1. REFER TO SPECIFICATION

2. 50% PROPYLENE GLYCOL

NOTES:

			HEATING								
TAG	ENERGY	MANUFACTURER	LOCATION	OTV	TY MODEL NUMBER		TANK \	/OLUME	TANK	TYPE	NOTES
	TYPE		LOCATION	QII	WODLL	NOMBLIX	L	imp GAL			
DWH-01	ELECTRIC	A.O.SMITH	MAIN FLOOR	1	EP	U-6	22	6	POINT	OF USE	
DWH-02	ELECTRIC	A.O.SMITH	MAIN FLOOR	1	EP	U-6	22	6	POINT	OF USE	COMMERCIAL GRADE ELECTRIC POIN
DWH-03	ELECTRIC	A.O.SMITH	MAIN FLOOR	1	EP	U-6	22	6	POINT	OF USE	OF USE WATER HEATER 120v @ 1440V
DWH-04	ELECTRIC	A.O.SMITH	MAIN FLOOR	1 1	l EP	U-6	22	6	POINT	OF USE	

					CC	ONNECTION	S	
TAG	DESCRIPTION	MANUFACTURER	MODEL	TRAP	CW		WASTE	REMARKS
WC-1	WATER CLOSET (WALL MOUNT) SECOND FLOOR	AMERICAN STANDARD	AFWALL MILLENNIUM FLOWISE ELONGATED TOILET, VITREOUS CHINA WITH ANTIMICROBIAL SURFACE, ELONGATED BOWL, WHITE FINISH, WALL HUNG	INTERNAL	25mm (1")	N/A	76mm	AMERICAN STANDARD AFWALL MILLENNIUM FLOWISE ELONGATED #3351101.020 HET TOILET, VITREOUS CHINA WITH EVERCLEAN ANTIMICROBIAL SURFACE WHICH INHIBITS THE GROWTH OF STAIN AND ODOR CAUSIN BACTERIA MOLD AND MILDEW, ELONGATED BOWL, WHITE FINISH, WALL HUNG, SIPHON JET FLUSH ACTION, OPERATES IN THE RANGE OF 4.2 L TO 6 L (1.1 US GAL TO 1.6 US GAL) PER FLUSH, CONDENSATE CHANNEL, SMM X 254 MM (12" X 10") WATER SURFACE, SIPHON JET FLUSH ACTION, CONDENSATE CHANNEL, ELONGATED BOWL, 54 MM (2-1/8") FULLY GLAZED INTERNAL TRAPWAY, TOILET SEAT NOT INCLUDED, 38 MM (1-1/2") DIA TOP SPUD. CENTOCO #820STS.001 TOILET SEAT, EXTRA HEAVY DUTY, FOR ELONGATED BOWL, OPEN FRONT, SOLID PLASTIC, WITH COVER, STAINLESS STEEL CHECK HINGES, METAL FLAT WASHERS STAINLESS STEEPOSTS AND NUTS. SLOAN CROWN #CROWN 111-1.6, EXPOSED MANUAL FLUSHOMETER FOR TOP SPUD TOILET, 6 L (1.6 US GAL) FACTORY SET FLOW, FIXED VOLUME PISTON WITH FILTERED O-RING BYPASS, NON-HOLI OPEN FEATURE, A.D.A OSCILLATING HANDLE, V.P. SMOOTH DESIGN STOP CAP ON BAK-CHEK ANGLE STOP (SCREWDRIVER OPERATED), FLUSH TUBE FOR 292 MM (11-1/2") ROUGH-IN, HIGH PRESSURE VACUUM BREAKE SLOAN TP TRAP PRIMER FOR TOP SPUD TOILET FLUSH VALVE ACTIVATED DURING FLUSH VALVE OPERATION, PROVIDES A SMALL AMOUNT OF WATER TO FLOOR DRAIN, ONLY ONE NEEDED PER BATHROOM SLOAN YOU SEAT BUMPER ON WATTS #ISCA-101-D-M11 DOUBLE HORIZONTAL ADJUSTABLE TOILET CARRIER, MOUNTED ON CONCRETE FLOOR, ALL EPOXY COATED CAST IRON FITTING, ADJUSTABLE ABS SLIDE NIPPLE WITH INTEGRAL TEST CAP AND NEOPRENE BOWL GASKET, WASTED PLATED HARDWARE, CHROME CAP NUTS, TILING FRAME, 102 MM (4") NO HUB WASTE, 51 MM (2") NO HUB VENT, 158.8 KG (350 LBS) STATIC LOAD. 406 MM (16") FINISHED METAL STUD WALL TO FINISHED METAL STUD WALL.
WC-2	WATER CLOSET (FLOOR MOUNT MACERATING)	LIBERTY PUMPS	ASCENT II - ESW	INTERNAL	25mm (1/2")	N/A	1	ASCENT II MACERATING TOILET SYSTEM, 1.28 GPF HIGH EFFICIENCY TOILET FOR A MACERATING SYSTEM. PUMP UP TO 25' VERTICALLY AND 150 HORIZONTALLY THROUGH A 1" DISCHARGE PIPE. BUILT-IN ALARM AND LED LIGHTS WITH EXTERNAL TOUCHPAD FOR ALARM SILENCE AND MANUAL OVERRIDE. ELONGATED BOWL WITH INSULATED TANK AND SEAT.
LAV-1	LAVATORY	AMERICAN STANDARD	MURRO WITH ANTIMICROBIAL BASIN, 3 HOLES, VITREOUS CHINA, WHITE FINISH, CARRIER WITH CONCEALED ARMS, REAR OVERFLOW, RECESSED SELF-DRAINING FAUCET LEDGE.	32mm (1 1/4") WITH CLEANOUT PLUG	13mm (1/2")	13mm (1/2")	1	AMERICAN STANDARD MURRO WITH EVERCLEAN #0954.004EC.020 BASIN, 3 HOLES, 4" (102 MM) CENTER, 540 MM X 520 MM X 165 MM (21-1/4" X 20-1/2" X 6-1/2") HIGH, VITREOUS CHINA, WHITE FINISH, FOR CARRIER WITH CONCEALED ARMS, REAR OVERFLOW, RECESSED SELF-DRAINING FAUCET LEDGE. AMERICAN STANDARD COLONY PRO #7075.200.002 TWO HANDLES FAUCET, POLISHED CHROME FINISH, 1/4 TURN WASHERLESS CERAMIC DISC VALVE CARTRIDGE, 4.5 L/MIN (1.2 GAL/MIN) AERATOR OUTLET, METAL SPOUT, 114 MM (4-1/2") PROJECTION REACH, METAL LEVER HANDLES, METAL POP-UP DRAIN. LAWLER #570-86820, POINT OF USE THERMOSTATIC WATER MIXING VALVE, NICKEL PLATED BRONZE BODY, TEMPERATURE ADJUSTING SPINDLE, 10 MM (3/8") INLETS AND OUTLET FNPT CONNECTIONS, INTEGRAL CHECKS, OFFER TEMPERATURE RANGE BETWEEN 35 °C (95 °F) AND 46 °C (114.8 °F). SET VALVE TEMPERATURE AT 46 °C (114.8 °F). PROVIDE FAUCET SUPPLIES, CHROME PLATED FINISH ALL METAL CONSTRUCTION, LIGHT DUTY RESIDENTIAL ANGLE STOPS, ESCUTCHEONS AND FLEXIBLE METAL RISERS, LOW LEAD. MCGUIRE #8872C P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 32 MM (1-1/4") SIZE, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND. MCGUIRE PROWRAP #PW2000 SANITARY COVERING VANDAL-RESISTANT, FLEXIBLE SEAMLESS MOULDED CLOSED-CELL PVC RESIN, FORMULATED WITH ANTI-MICROBIAL ADDITIVE TO LIMIT THE GROWTH OF FUNGUS AND BACTERIA, TO EXPOSED PIPING (TO PROTECT AGAINST HEAT/CONTUSIONS) AS PER LOCAL CODES. WATTS #CA-421 FIXTURE CARRIER, UNIVERSAL STEEL HANGAR SUPPORT PLATES WITH INTEGRAL MOUNTING BRACKETS, HEAVY GAUGE EPOXY COATED STEEL UPRIGHTS WITH WELDED FEET. FOR ONE UNIT: 102 MM (4") FOR TWO TO SIX UNITS IN A ROW: 152 MM (6") FINISHED METAL STUD WALL TO BACK OF PIPE SPACE.
MS-1	JANITOR SINK (MOP SINK)	FIAT	MSB2424100 SQUARE SERVICE / MOP SINK	YES	13mm (1/2")	13mm (1/2")	1	MSB2424100 SQUARE SERVICE / MOP SINK, 610 MM (24") WIDE X 610 MM (24") LONG X 254 MM (10") HIGH DEEP, FLOOR MOUNTED, MOLDED STONE, WHITE, PLAIN CURBS, STAINLESS STEEL DRAIN WITH STRAINER, 3" (7 MM) OUTLET.
SK-1	SINK	FRANKE	LBD6408-1/1 DOUBLE BOWL COUNTERTOP MOUNT SINK, 1 HOLE, 794 MM (31-1/4") WIDE X 521 MM (20-1/2") LONG X 203 MM (8") HIGH DEEP, SPILLWAY, COUNTER MOUNTED, BACKLEDGE	38mm (1 1/2") P-TRAP, CAST BRASS WITH CLEANOUT		13mm	38mm	FRANKE COMMERCIAL #LBD6408-1/1 DOUBLE BOWL COUNTERTOP MOUNT SINK, 1 HOLE, 794 MM (31-1/4") WIDE X 521 MM (20-1/2") LONG X 203 MM (8") HIGH DEEP, SPILLWAY, COUNTER MOUNTED, BACKLEDGE, GRADE 18-10 20 GA. (0.9 MM) TYPE 302 STAINLESS STEEL, SELF-RIMMING, SATIN FINISH RIM AND BOWLS, MOUNTING KIT PROVIDED, FULLY UNDERCOATED TO REDUCE CONDENSATION AND RESONANCE, FACTORY APPLIED F SEAL, 3-1/2" (89 MM) CRUMB CUP WASTE ASSEMBLY WITH 1-1/2" (38 MM) TAILPIECE. CHICAGO FAUCETS #430-ABCP SINGLE HANDLE FAUCET, CHROME PLATED FINISH, CENTER HOLE ONLY, ECAST CONSTRUCTION LEAD FREE (EQUAL OR LESS THAN 0.25%) ECAST BRASS CONSTRUCTION, VOLUME CONTROL AND HOT WATER LIMIT STOP CARTRIDGE, 5.7 LPM (1.5 GPM) PRESSURE COMPENSATING LAMINAR FLOW (NON-AERATING) OUTLET, 241 MM (9-1/2") PROJECTION RIGID CAST BRASS SPOUT, SINGLE METAL LEVER HANDLE. MCGUIRE #LFHST06LKSB FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, HEAVY PATTERN SUPPLY STOVALVE WITH TURN BRASS STEM, 13 MM (1/2") I.D. INLET AND I.D. OUTLET, V.P. LOOSE KEYS, ECAST CONSTRUCTION LEAD FREE (EQUAL OR LESS THAN 0.25%). MCGUIRE #8912CB P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 38 MM (1-1/2") SIZE, BOX FLANGE AND SEAMLESS TUBULAR WALL BEND.
EP-01	SEWAGE PUMP	LIBERTY PUMPS	P382LE51SD-2/A2W	N/A	N/A	N/A		SIMPLEX SEWAGE PUMP PACKAGE COMPLETE WITH 155 L (41 GAL) POLYETHYLENE TANK MAXIMUM 610 mm (24") HIGH, 1/2 HP SEWAGE PUMP, HIGH LEVEL ALARM.
FD-1	FLOOR DRAIN	WATTS	FD-320-Y-1-7	51mm (2") P-TRAP	N/A	N/A	•	WATTS #FD-320-Y-1-7 FLOOR DRAIN - EPOXY COATED CAST IRON BODY, TRAP PRIMER CONNECTION WITH PLUG, ANCHOR FLANGE AND WEEPHOLES, NO HUB OUTLET WATTS -1 7-7/8" (200 MM) DIAMETER NICKEL BRONZE VENEERED, HEEL-PROOF ROUND GRATE.
EW-1	EMERGENCY EYE/FACE WASH	HAWS	MODEL #7360B EMERGENCY EYE/FACE WASH, WALL HUNG, STAINLESS STEEL RECEPTOR, DUAL AERATION SPRAY HEADS WITH FLIP-TOP DUST COVERS, MIN. 19 LPM (5.0 GPM) FLOW, VOLUME REGULATOR, 100 MICRON IN- LINE FILTER, IN-LINE BRASS STRAINER,	38mm	13mm (1/2")	13mm (1/2")	1	C/W: S.S. PUSH HANDLE BALL VALVE WITH S.S. TRIM, ALL FACTORY ASSEMBLED, WALL HANGER AND EMERGENCY SIGN.HAWS #9201EW SUPPLY FIXTURE, THERMOSTATIC TEMPERATURE CONTROL VALVE, ALL BRAS AND STAINLESS STEEL DESIGN, WITH LIQUID FILLED MOTOR, CHECK STOPS, SAFETY SHUT-OFF SHOULD COLD WATER SUPPLY FAIL, HOT WATER FAILURE WILL ALLOW COLD WATER FLOW THROUGH BOTH THE FIXED AND VARIABLE BY-PASS, OUTLET TEMPERATURE GAUGE, 1/2" (13mm) SUPPLIES. TEMPERED WATER FACTORY SET AT 80° F (26° C) [MODEL #9201EW PROVIDES UP TO 26.6 LPM (7 GPM) AT 30PSI (246KPA) DROP THROUGH VALVE].
MV-1	MIXING VALVE	SYMMONS	MODEL #5-120-CK	N/A	13mm (1/2")	13mm (1/2")	N/A	SYMMONS 'THERMIXER' #5-120-CK THERMOSTATIC MIXING VALVE C/W POSITIVE CONTROL, HEAVY DUTY ALL CAST BRASS BODY AND STRAINLESS STEEL INTERNAL PARTS, LOCKABLE TEMP. SETTING, WITH IN-LINE STRAINERS CHECKS INSTALLED IN H & CW SUPPLIES TO PROVIDE TEMPERED WATER TO HOT SIDE OF FAUCET. CAPACITY 6 GPM (23 LPM) SIZED AT 20 PSI (69 KPA) DROP THRU VALVE. TEMPERATURE RANGE 85°F (29.5°C) TO 160°F (71°C) SET VALVE AT 120°F (48.9°C). PROVIDE TEE ADAPTORS, AND FLEX. COPPER TUBING TO SUIT.
HR-1	HOSE REEL (GARAGE)	REELCRAFT	MODEL # EP3705-39-16AL20FIUR, HEAVY DUTY CARBON STEEL POWERED BY 115VACXP MOTOR	N/A	51mm (2")	N/A	N/A	C/W: 1/2" (13mm) PICH CHAIN & SPROCKETS INCLUDING AN IDLER. THE REEL WILL HAVE A CHAIN GUARD, CAST ALUMINIUM FLUID PATH WITH A STRAIGHT 2" (51mm) MALE VICTAULIC FITTING FOR THE INLET AND 2" (51mm) FEMALE NPT GOOSNECK (OUTLET). MINIMUM 225 FEET OF GOODYEAR MODEL# HORIZON-200 1 1/2" (38mm) ID WATER HOSE.MAX. WP-200 PSI.WEIGHT 0.86 LB/FT (1.28 KG/M). TUBE: VESIGARD R SYNTHETIC RUBBER, RMA CLASS C, REINFORCEMENT: SPIRAL SYNTHETIC YARN, COVER BLACK, TEMPERATURE: -40°F TO 190°F (-40°C TO 88°C)

PUMP S	PUMP SCHEDULE THE SERVICE HEAD MOTOR NOTES													
TAC	SEDVICE	LOCATION	MANUEACTURER	MODEL	FLOW RA	\TE	HE	AD		MOTOR		NOTES		
TAG	SERVICE	LOCATION	MANUFACTURER	MODEL	L/s	gpm	kPa	ft.WC	Kw	HP	RPM	NOTES		
P-1	DOMESTIC WATER PUMP	MAINFLOOR MECH. ROOM	GRUNDFOS	CR 3-6 H-GA-A-E-HQQE	0.80	12.6	458.2	153.3	0.75	1.00	3,450	1, 3, 4		
P-2	DOMESTIC WATER PUMP	MAINFLOOR MECH. ROOM	GRUNDFOS	CR 3-6 H-GA-A-E-HQQE	0.80	12.6	458.2	153.3	0.75	1.00	3,450	1, 3, 4		
P-3	MAIN FLOOR HEATING	2ND FLOOR MECH. ROOM	GRUNDFOS	MAGNA3 32-120	1.09	17.2	22.1	7.4	0.19	0.25	2,277	1,2,4		
P-4	MAIN FLOOR HEATING	2ND FLOOR MECH. ROOM	GRUNDFOS	MAGNA3 32-120	1.09	17.2	22.1	7.4	0.19	0.25	2,277	1,2,4		
P-5	2nd FLOOR HEATING	2ND FLOOR MECH. ROOM	GRUNDFOS	MAGNA3 32-120	1.03	16.3	46.0	15.4	0.19	0.25	3,069	1,2,4		
P-6	2nd FLOOR HEATING	2ND FLOOR MECH. ROOM	GRUNDFOS	MAGNA3 32-120	1.03	16.3	46.0	15.4	0.19	0.25	3,069	1,2,4		
P-7	GARAGE/STORAGE HEATING	2ND FLOOR MECH. ROOM	GRUNDFOS	MAGNA3 40-80	2.56	40.6	29.9	10.0	0.29	0.38	2,977	1,2,4		
P-8	GARAGE/STORAGE HEATING	2ND FLOOR MECH. ROOM	GRUNDFOS	MAGNA3 40-80	2.56	40.6	29.9	10.0	0.29	0.38	2,977	1,2,4		
P-9	BOILER PUMP	2ND FLOOR MECH. ROOM	GRUNDFOS	MAGNA3 40-120	5.68	90.0	9.0	3.0	0.45	0.60	2,596	1,2,4		
P-10	BOILER PUMP	2ND FLOOR MECH. ROOM	GRUNDFOS	MAGNA3 40-120	5.68	90.0	9.0	3.0	0.45	0.60	2,596	1,2,4		
P-11	GLYCOL FILL STATION PUMP	2ND FLOOR MECH. ROOM	AXIOM	SF-100	0.06	1.0	345.0	115.4	-	-	-	6		
P-12	FUEL OIL TRANSFER PUMP	2ND FLOOR MECH. ROOM	VIKING PUMPS	SG-04	0.23 - 1.89 LPM	0.06-0.50	34 Bar	500 psi	-	0.50	-	-		
P-13	FUEL OIL TRANSFER PUMP	FUEL TANK	VIKING PUMPS	SG-05	2.6 - 42.4 LPM	0.7 - 11.2	34 Bar	500 psi	-	0.50	-	-		
P-14	FUEL OIL TRANSFER PUMP	FUEL TANK	VIKING PUMPS	SG-05	2.6 - 42.4 LPM	0.7 - 11.2	34 Bar	500 psi	_	0.50	-	-		
P-15	SUMP PUMP	GARAGE	GRUNDFOS	UNILIFT CC 5 - A1	1.26	20.0	17.9	6.0	11	5V/1/60 2.	1A	5		
P-16	SUMP PUMP	GARAGE	GRUNDFOS	UNILIFT CC 5 - A1	1.26	20.0	17.9	6.0	11	5V/1/60 2.	1A	5		
P-17	SUMP PUMP	GARAGE	GRUNDFOS	UNILIFT CC 5 - A1	1.26	20.0	17.9	6.0	11	5V/1/60 2.	1A	5		
P-18	SUMP PUMP	GARAGE	GRUNDFOS	UNILIFT CC 5 - A1	1.26	20.0	17.9	6.0	11	5V/1/60 2.	1A	5		
P-19	SUMP PUMP	GARAGE	GRUNDFOS	UNILIFT CC 5 - A1	1.26	20.0	17.9	6.0	11	5V/1/60 2.	1A	5		
P-20	SUMP PUMP	GARAGE	GRUNDFOS	UNILIFT CC 5 - A1	1.26	20.0	17.9	6.0	11	5V/1/60 2.	1A	5		
P-21	HRV PRE-HEAT COILS	2ND FLOOR MECH. ROOM	GRUNDFOS	MAGNA3 32-100	0.60	9.5	59.8	20.0	0.17	0.25	1,605	1,2,4		
P-22	HRV PRE-HEAT COILS	2ND FLOOR MECH. ROOM	GRUNDFOS	MAGNA3 32-100	0.60	9.5	59.8	20.0	0.17	0.25	1,605	1,2,4		

FAN S	CHEDULE														
TAG	MANUFACTURER	TYPE	MODEL	RPM	CLASS	AIR FLO	W RATE	E.S	S.P.		MOTOR		SONES	ACCESSORIES	NOTES
IAG	WANUFACTURER	ITPE	MODEL	RPIVI	CLASS	(L/s)	(CFM)	(Pa)	(in.WC)	(kW)	(HP)	(RPM)	SONES	ACCESSORIES	NOTES
EF-01	GREENHECK	ı	SQ-20-07-0700-VG	1,139	-	3,153	6,680	125	0.50	1.492	2.00	1,139	15.8	IG, SH	1
SF-01	GREENHECK	I	AX-47-190-0619	3,500	-	2,832	6,000	498	2.00	3.730	5.00	3,500	44.0	SH	-

MT MANUAL RESET TIMER

NSW NON-SPARKING WHEEL

SPRING MOUNT

DS DISCONNECT SWITCH

MDW MOTION DETECTOR, WALL MTD. GN GOOSENECK

VP VIBRATION PADS

WC WALL CAP

SPRING HANGERS

SD SCROLL DRAIN

FC FACTORY CURB

BS BIRDSCREEN

MC MOUNTING COLLAR

ROOF CAP AD ACCESS DOOR

WH WEATHERPROOF HOUSING

6. PACKAGED GLYCOL FILL SYSTEM WITH PLUG IN CONNECTION. REFER TO ELECTRICAL DRAWINGS FOR LOCATION.

1. C/W ELECTRONICALLY COMMUTATED (EC) VARI-GREEN (VG) MOTOR.

BG BELT GUARD

INLET GRILLE

INLET HOOD

ADJUSTABLE SHEAVES

BACKDRAFT DAMPER

EPOXY COATING

SOLID STATE SPEED CONTROL

NOTES: 1. C/W VARIABLE SPEED DRIVE, REFER TO SPECIFICATION 2. PUMPS ARE SIZED FOR 50% PROPYLENE GLYCOL

ABBREVIATIONS:

3. ALL BRONZE AND STAINLESS STEEL CONSTRUCTION FOR POTABLE WATER APPLICATION C/W TIMER AND AQUASTAT.

4. COORDINATE VOLTAGES WITH ELECTRICAL MOTOR/EQUIPMENT SCHEDULE ON DRAWING E603.

5. COORDINATE ELECTRICAL CONNECTION WITH ELECTRICAL CONTRACTOR

NOTES:			

FILTER

AN POWERED	TERMINAL	. UNIT S	SCHEDU	JLE

					MAX. NC					ATER REHEA			ı		
			LEVEL AT	AIR SIDE			'	WATER SIDE		1	1				
TAG	ACCEPTABLE	INLET		MAX. S.P.	MAX.	ENTERING	LEAVING	FLOW	MAX. P.D.	ENTERING	LEAVING	BRANCH	HEATING	NUMBER	NOTES
	PRODUCT	SIZE	AIRFLOW	LOSS	AIRFLOW	TEMP.	TEMP.	RATE	100 00. 1 .5.	TEMP.	TEMP.	PIPE SIZE	CAPACITY	OF ROWS	
		(mm)	(L/s)	(Pa)		(°C)	(°C)	(L/s)	(kPa)	(°C)	(°C)	(mm)	(kW)		
FPTU-1	PRICE FDCLP2-10	150	250	45.0	55	15.0	23.0	0.030	0.30	50.0	40.0	13	2.25	1	1, 2, 4
FPTU-2	PRICE FDCLP2-30	205	504	52.0	55	15.0	23.0	0.060	0.75	50.0	40.0	13	3.50	1	1, 3, 5
FPTU-3	PRICE FDCLP2-30	205	492	52.0	55	15.0	23.0	0.060	0.75	50.0	40.0	13	3.50	1	1, 3, 4
FPTU-4	PRICE FDCLP2-30	205	490	52.0	55	15.0	23.0	0.060	0.75	50.0	40.0	13	3.50	1	1, 3, 5
FPTU-5	PRICE FDCLP2-10	180	293	62.0	55	15.0	23.0	0.030	0.30	50.0	40.0	13	2.40	1	1, 2, 4
FPTU-6	PRICE FDCLP2-10	150	232	15.0	55	15.0	23.0	0.030	0.30	50.0	40.0	13	1.88	1	1, 2, 4
FPTU-7	PRICE FDCLP2-10	180	330	75.0	55	15.0	23.0	0.030	0.30	50.0	40.0	13	2.43	1	1, 2, 4
FPTU-8	PRICE FDCLP2-10	150	240	15.0	55	15.0	23.0	0.030	0.30	50.0	40.0	13	1.88	1	1, 2, 4
FPTU-9	PRICE FDCLP2-10	180	227	75.0	55	15.0	23.0	0.030	0.30	50.0	40.0	13	2.43	1	1, 2, 4

1. UNITS COMPLETE WITH ECM MOTORS.

2. UNIT COMPLETE WITH 1-ROW MULTI-CIRCUIT STANDARD CAPACITY HEATING COIL

3. UNIT COMPLETE WITH 1-ROW MULTI-CIRCUIT HIGH CAPACITY HEATING COIL 4. LEFT-HAND UNIT

5. RIGHT-HAND UNIT

			HEATING PERFO													
TAG	ENERGY	MANUFACTURER	LOCATION	ОТУ	MODEL NUMBER	TANK V	OLUME	DRY V	/EIGHT	WIE	OTH	LEN	GTH	HEI	GHT	NOTES
	TYPE		LOCATION	QII	WODEL NOWBER	L	imp GAL	(kg)	(lbs.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	
OUTDOOR TANK	FUEL OIL	WESTSTEEL	OUTDOORS, NORTH EAST SIDE OF BUILDING	1	HFV50000	49,376	10,861	6,818	15,000	2,995	117.0	6,998	245.0	2,995		PACKAGE FEATURES 01. Fuel-Vault Model HFV-65000 02. Head Mount Ladder 03. Containment Inspection Port - 2" 04. Gauge Stick 120 in (10ft) 05. Spillbox 24" 60L Cap comes with 2" Dip Port, 4" Spare 06. Normal Vent 3" 07. Fitting Spare - 2" 08. Skid Heavy Duty with Bollards with Extension 09. Fitting Spare - 4" 10. Nameplate ULC S601 Contained 11. RTF Fill 3" Camlock with Overfill Protection 12. Lockable cap and spill box
DAY TANK	FUEL OIL	WESTSTEEL	SECOND FLOOR MECHANICAL ROOM	1	FOSC690	693	152	167	368	585	23.0	1,219	48.0	1,185		Durable all steel construction in a vertical oval design, Heavy gauge tank shell and die formed ends, All exterior surfaces prepared with a chemical wash and finished with a rugged and durable weather-resistant white powder coat, Heavy duty lifting lug(s) and end handles for easy installation and tank placement, Leg support bracket size is 11/4" NPT (quantity of 4) c/w Vacuum Monitoring STANDARD FEATURES 01. 2" emergency vent inspection with lockable vent cap 02. 2" NPT spare fitting for pump, etc. 03. 2" NPT gauge fitting 04. 2" NPT spare or vent fitting 05. 2" NPT fill fitting 06. 1" NPT outlet or drain fitting

HEA	TING BOIL	ER SCHEDUI	LE (Based or	ı We	il-McL	ain)																		
TAG				FLUI	D SIDE		PHYSICAL CHARACTERISTICS																	
	ENERGY	BOILER	LOCATION	QTY	NO.2 OIL INPUT		CSA C	UTPUT	FLOW RATE		PRESS. DROP		DRY WEIGHT		WIDTH		LENGTH		HEIGHT		VENT DIA.		NOTES	
	TYPE	SYSTEM	LOCATION	QIY	QIY	LPH	GPH	(kW)	(MBH)	(L/s)	(GPM)	(Pa)	(ft.WC)	(kg)	(lbs.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	
		COBALT BOILER	2nd FLOOR																					
B-1	FUEL OIL	SYSTEM	MECHANICAL	1	19.7	5.20	187	639	5.7	90.0	1,495	0.50	966	2,130	759	29.9	1,083	42.6	1,202	47.3	254	10.0	1, 2	
		CS-600WL-2P	ROOM																					
		COBALT BOILER	2nd FLOOR																					
B-2	FUEL OIL	SYSTEM	MECHANICAL	1	19.7	5.20	187	639	5.7	90.0	1,495	0.50	966	2,130	759	29.9	1,083	42.6	1,202	47.3	254	10.0	1, 2	
		CS-600WL-2P	ROOM																					
																				·				

NOTES: 1. PERFORMANCE BASED ON 50% PROPYLENE GLYCOL / 50% WATER SOLUTION.

2. BOILERS COMPLETE WITH 690 kPa (100 PSIG) RELIEF VALVES.

INCORPORATED

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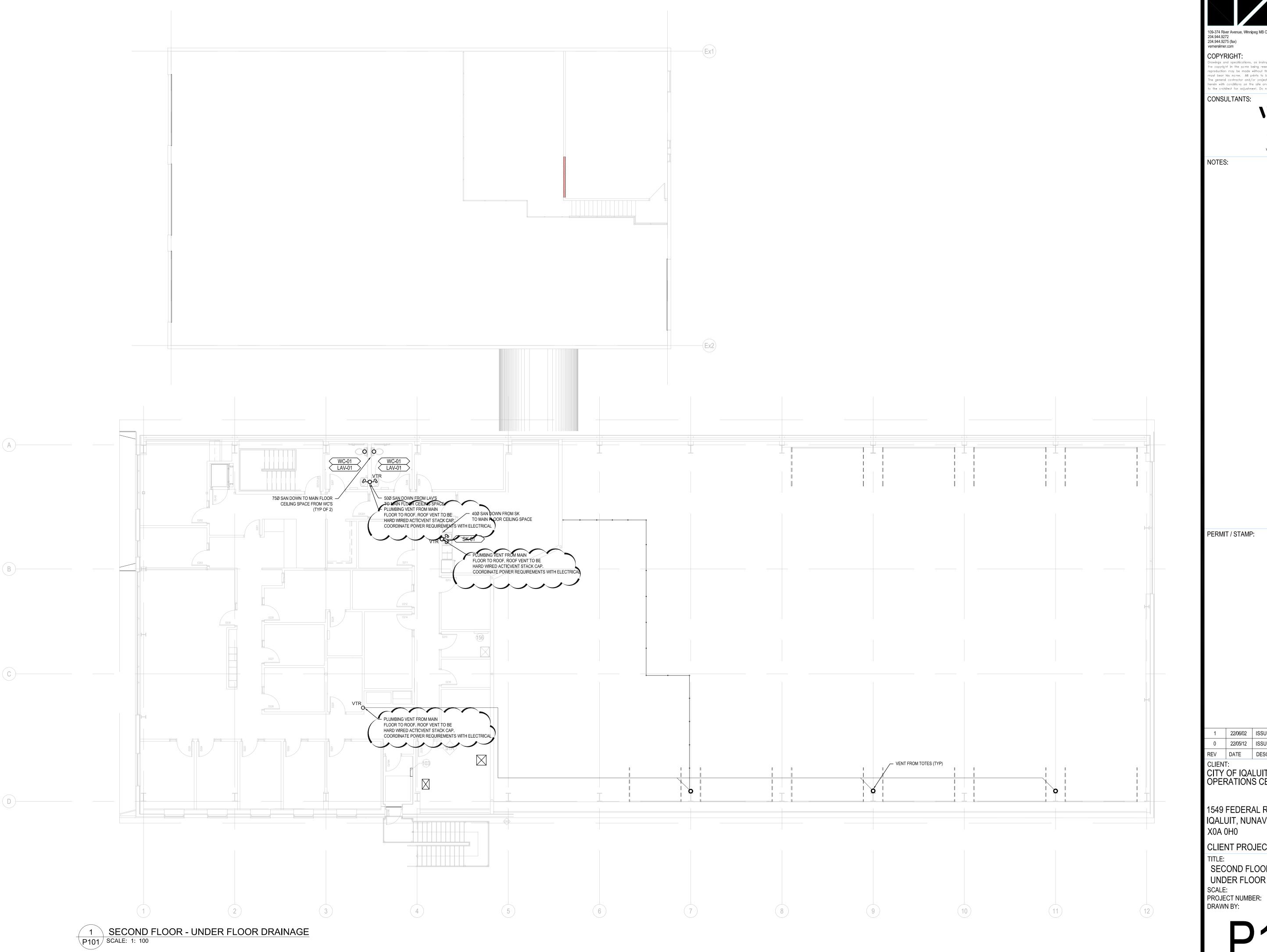
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SECOND FLOOR UNDER FLOOR DRAINAGE