

Drawings for

**Daniel J. MacDonald Modernization**

are amended as follows:

**DRAWINGS**

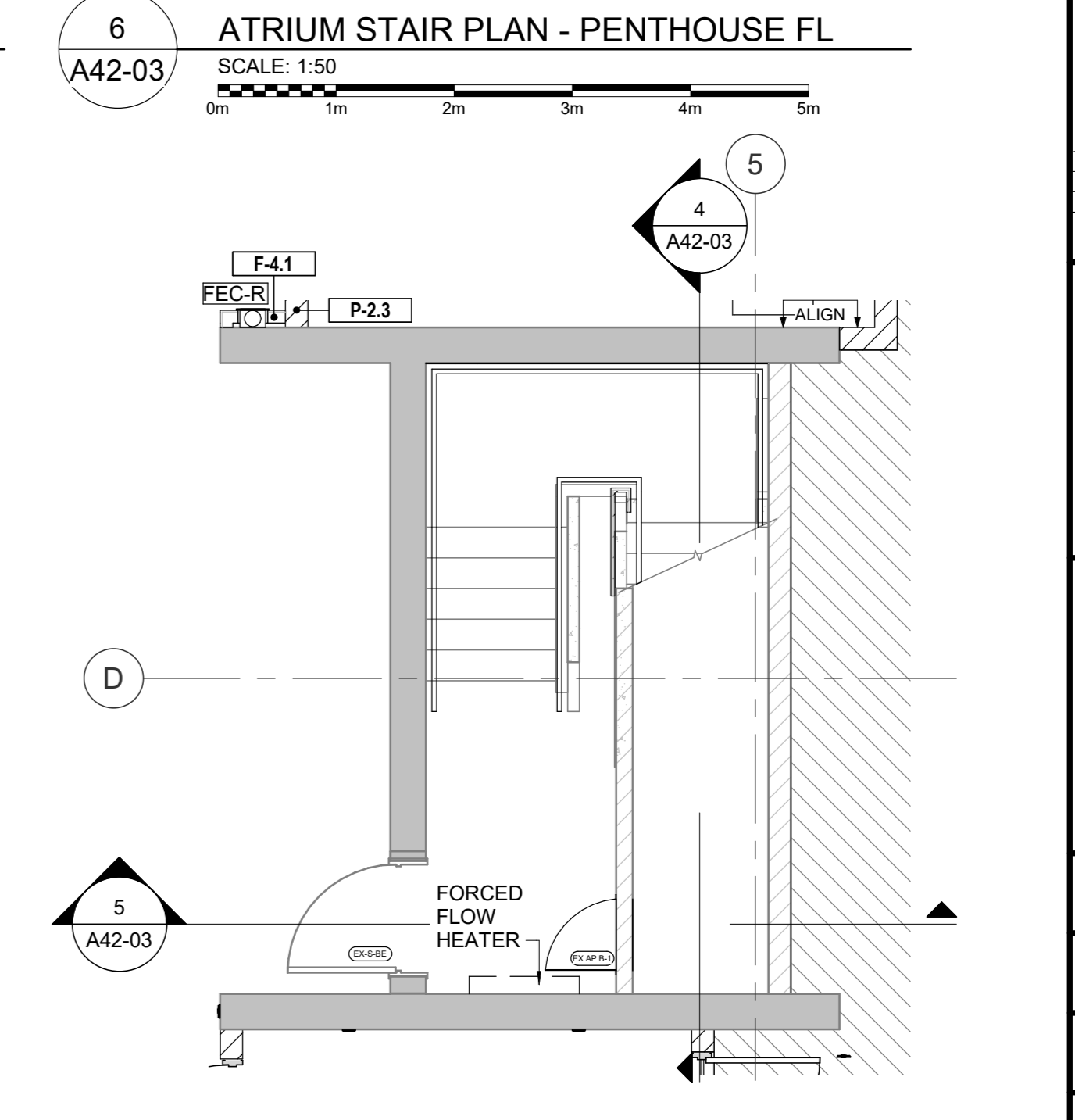
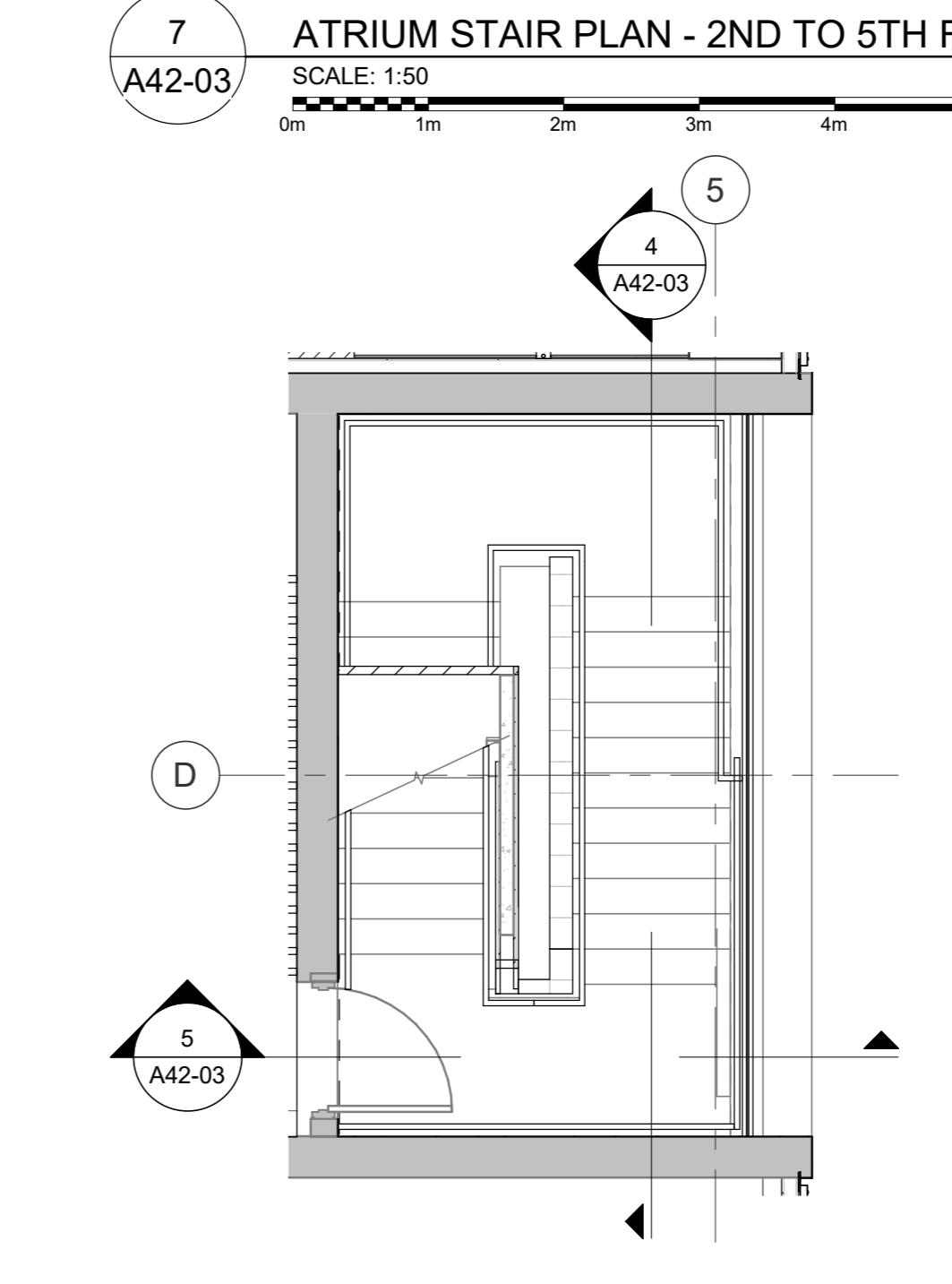
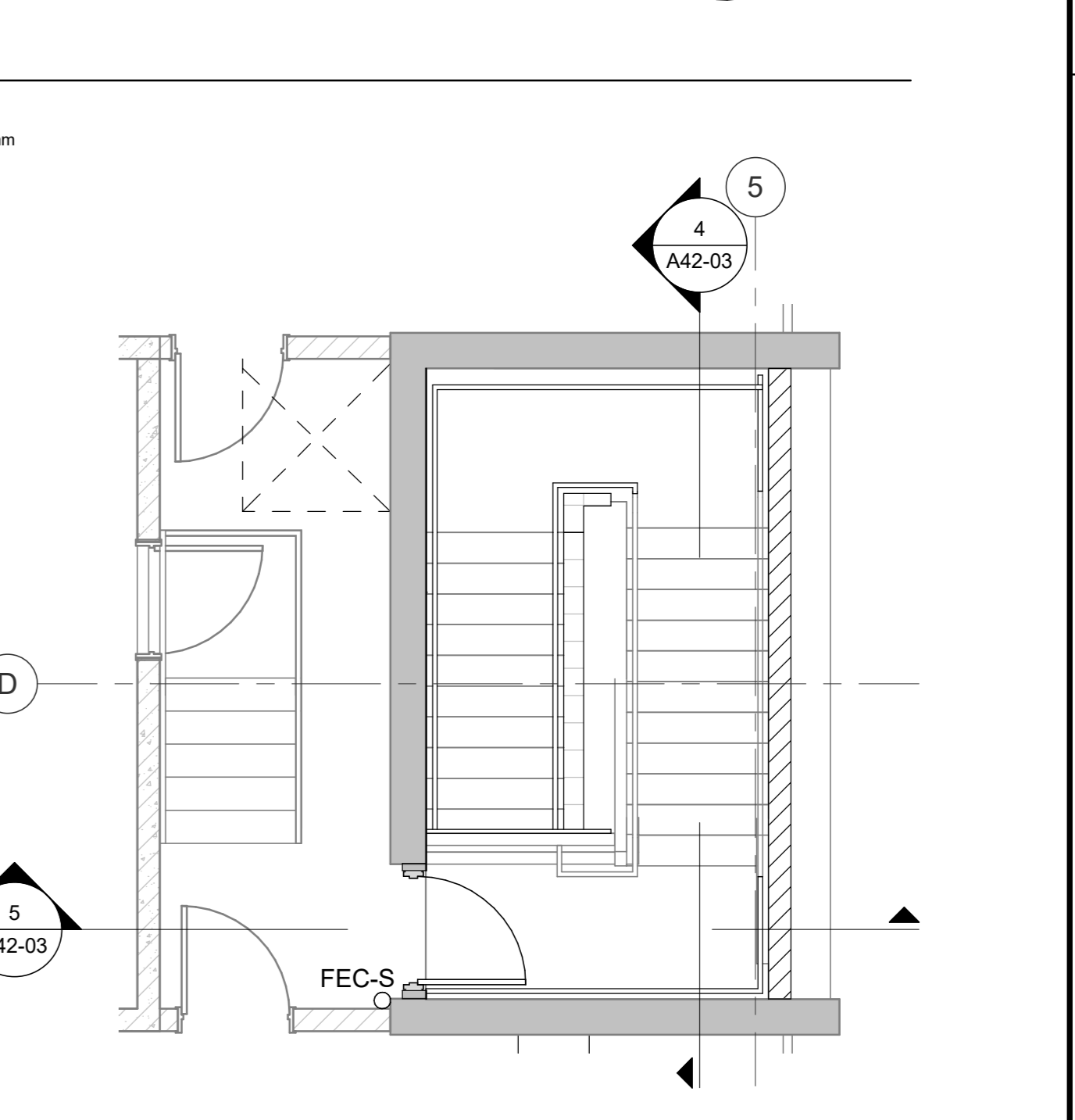
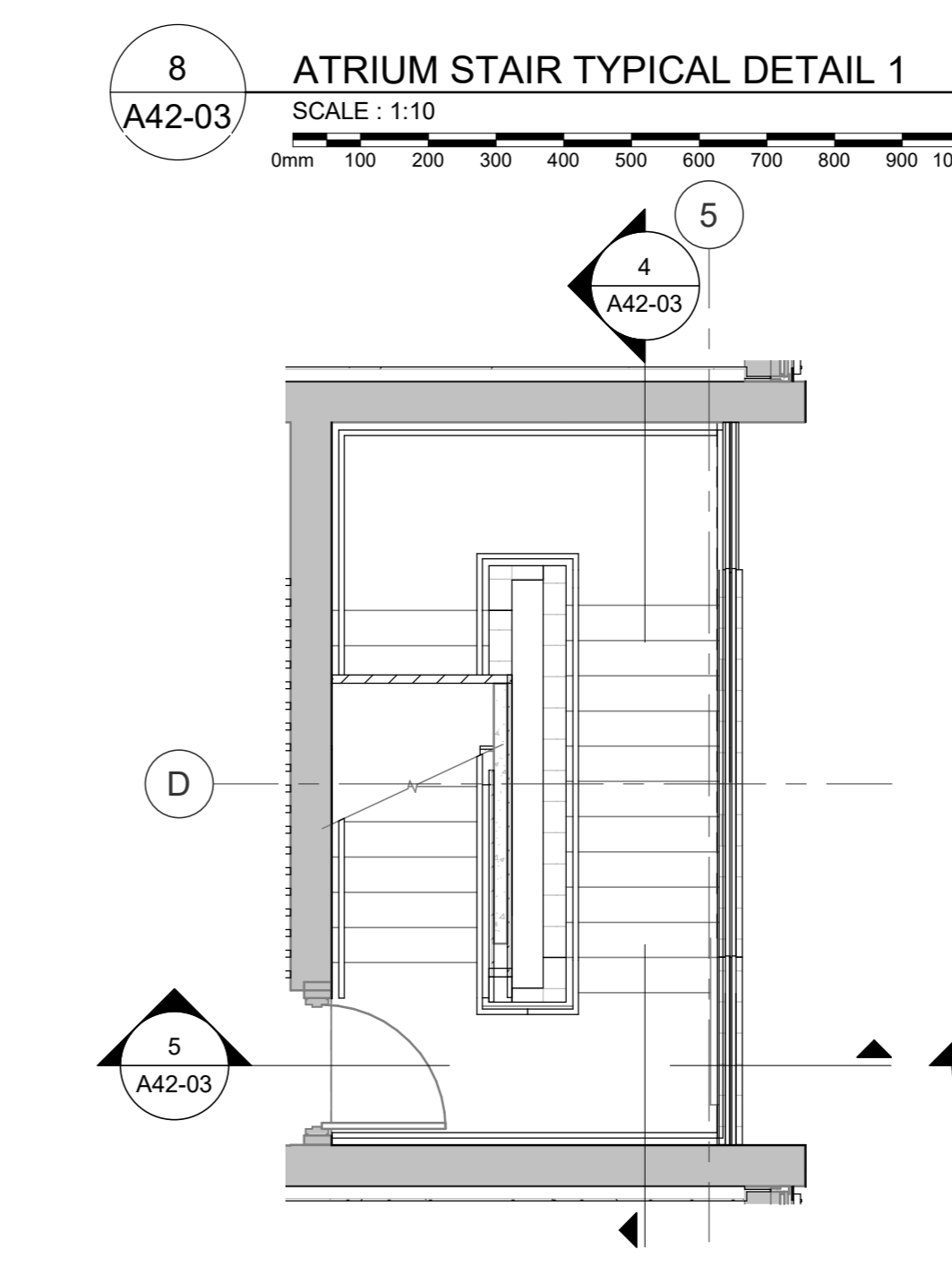
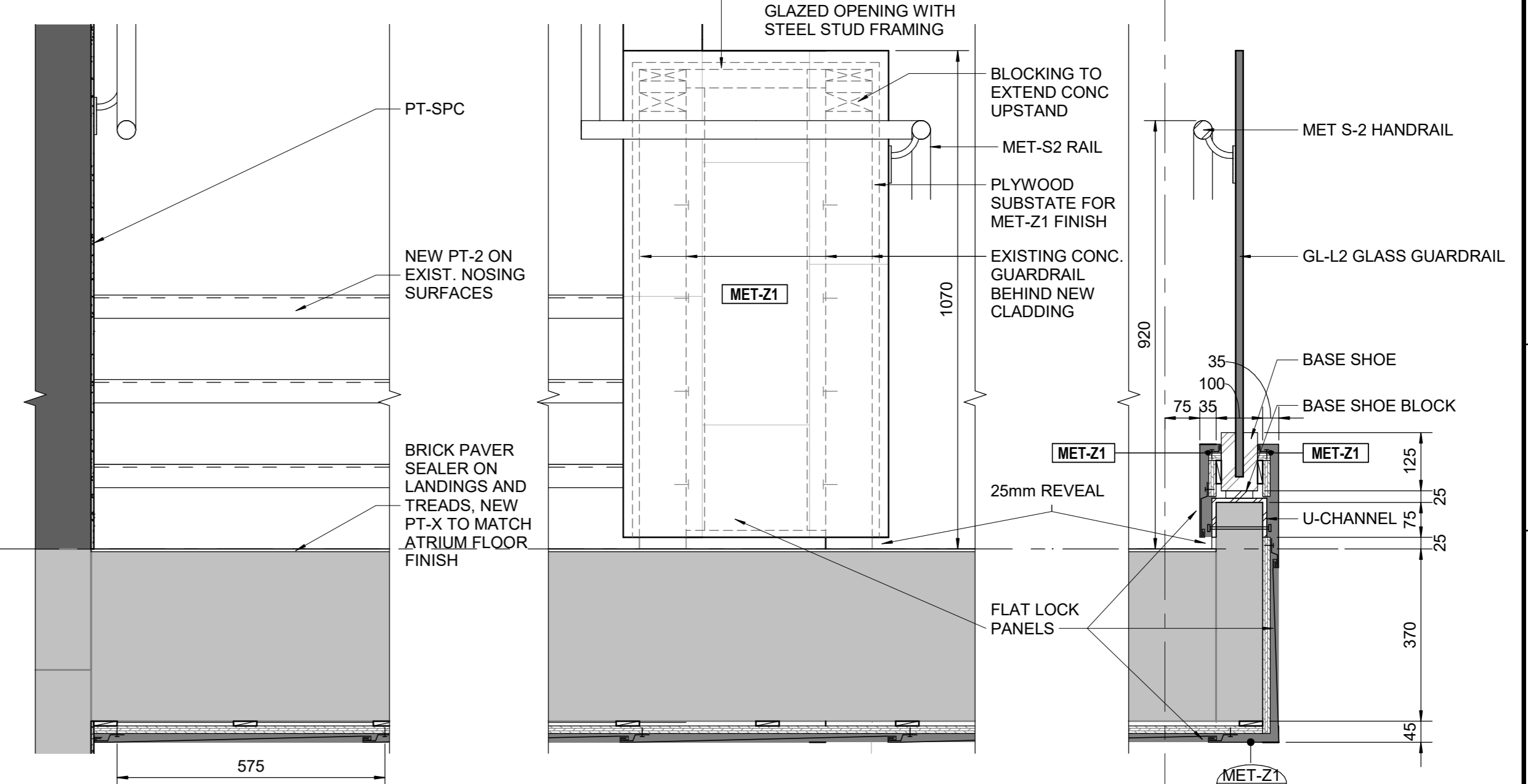
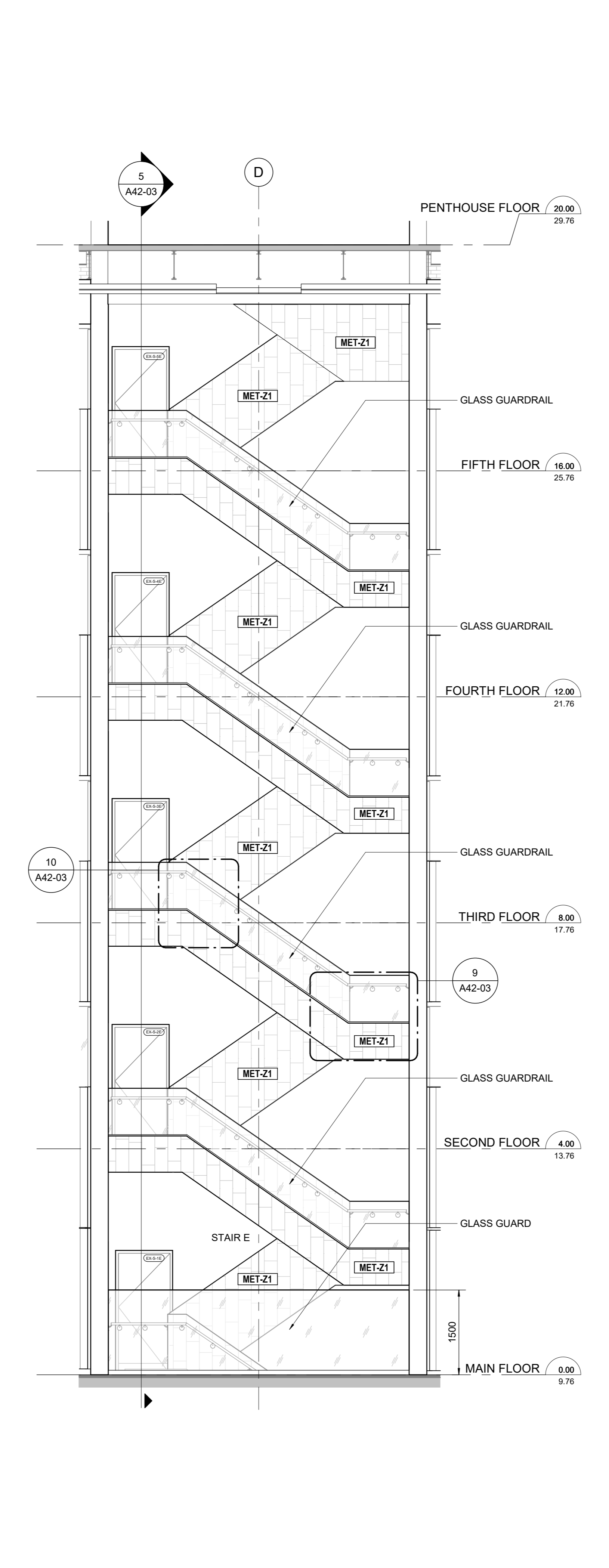
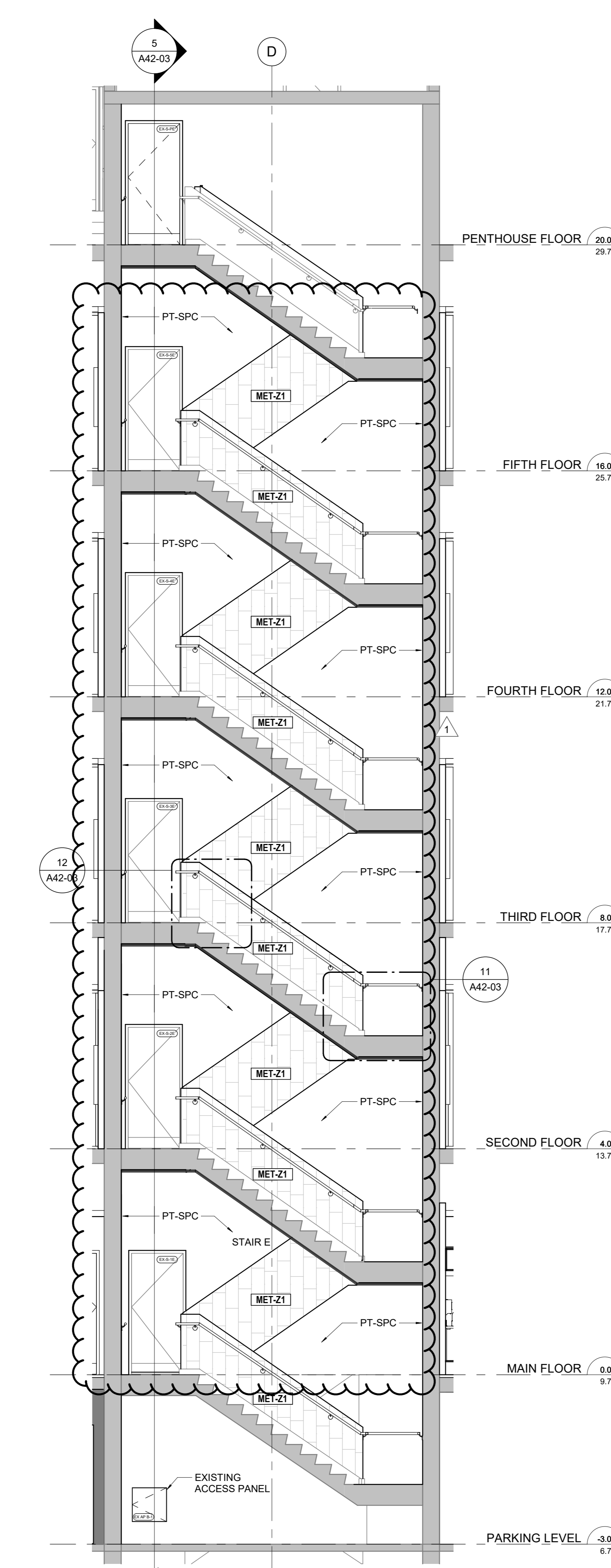
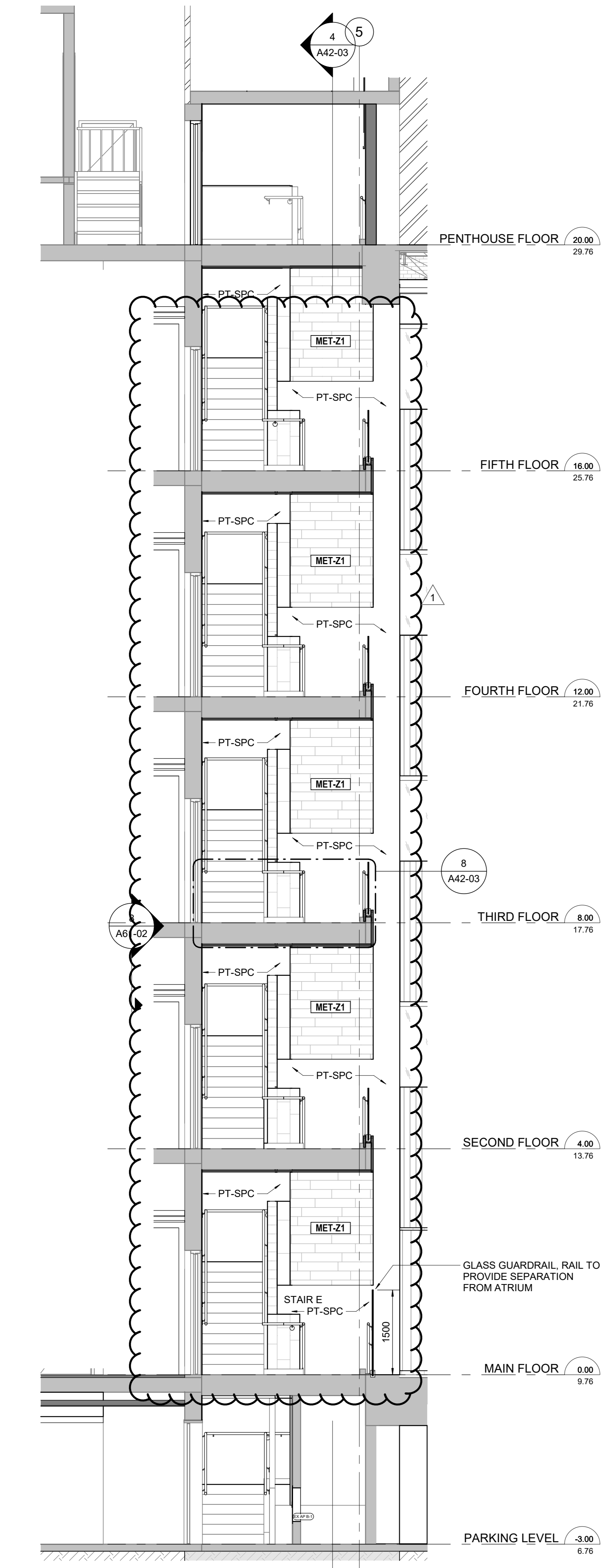
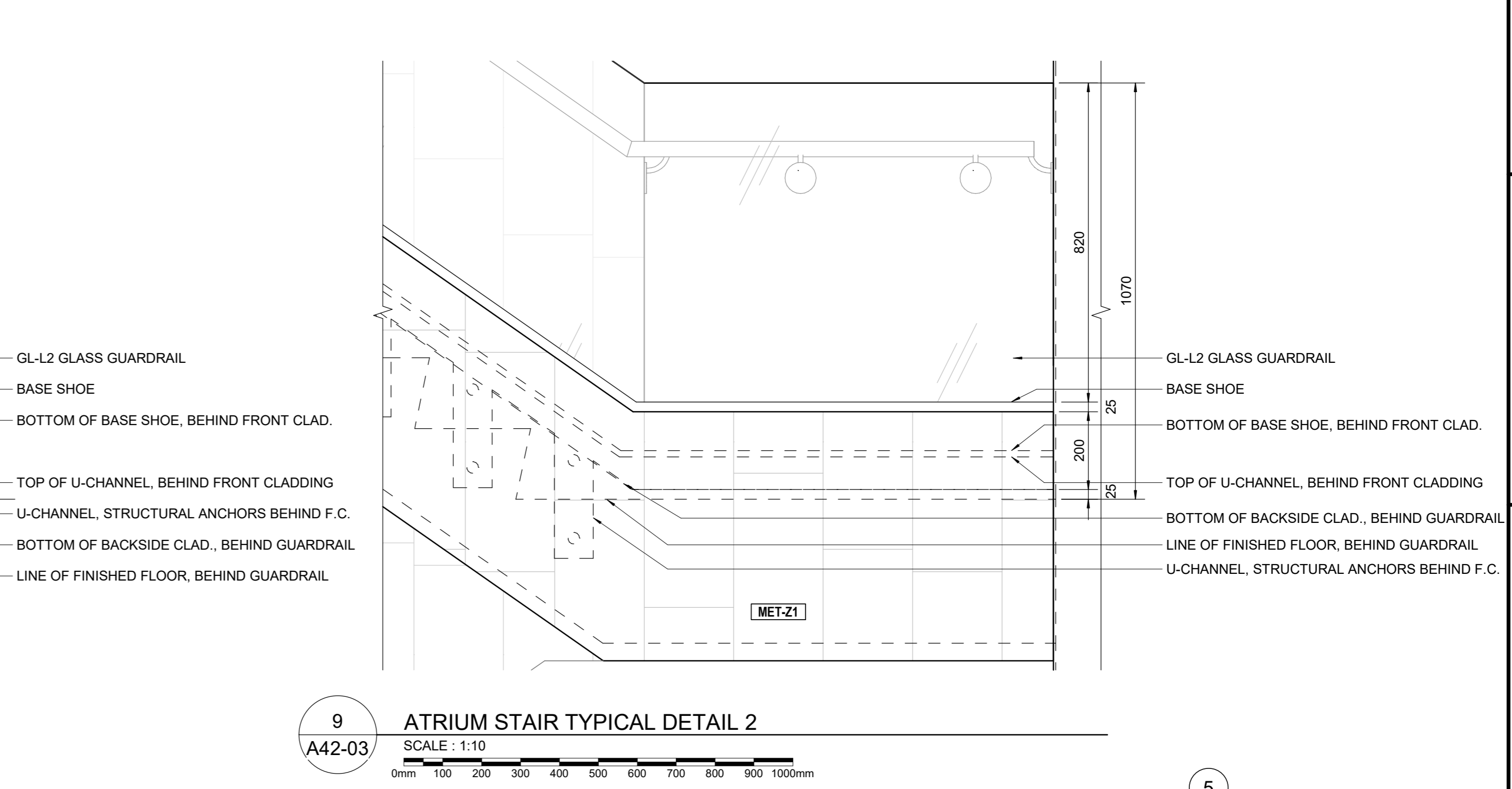
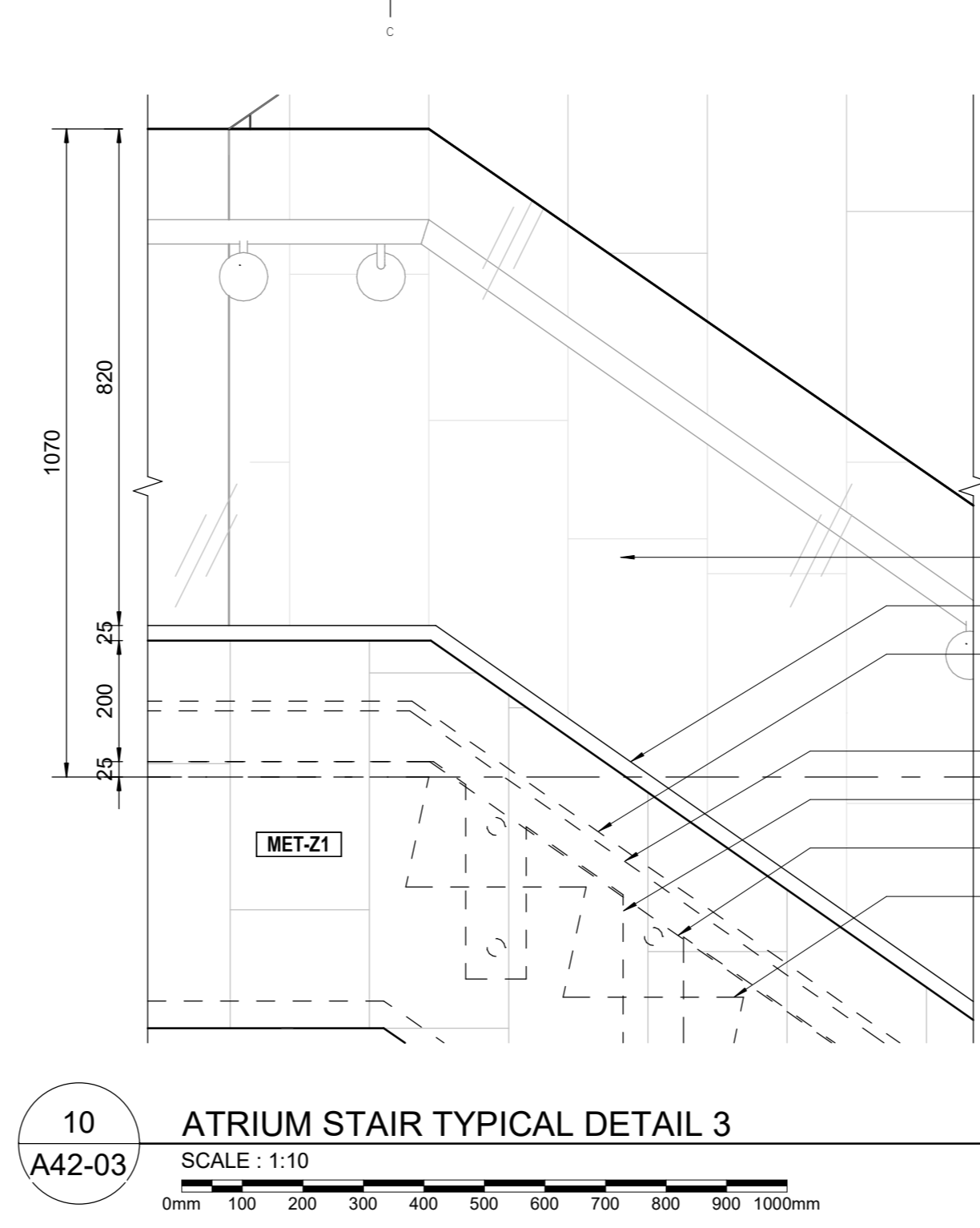
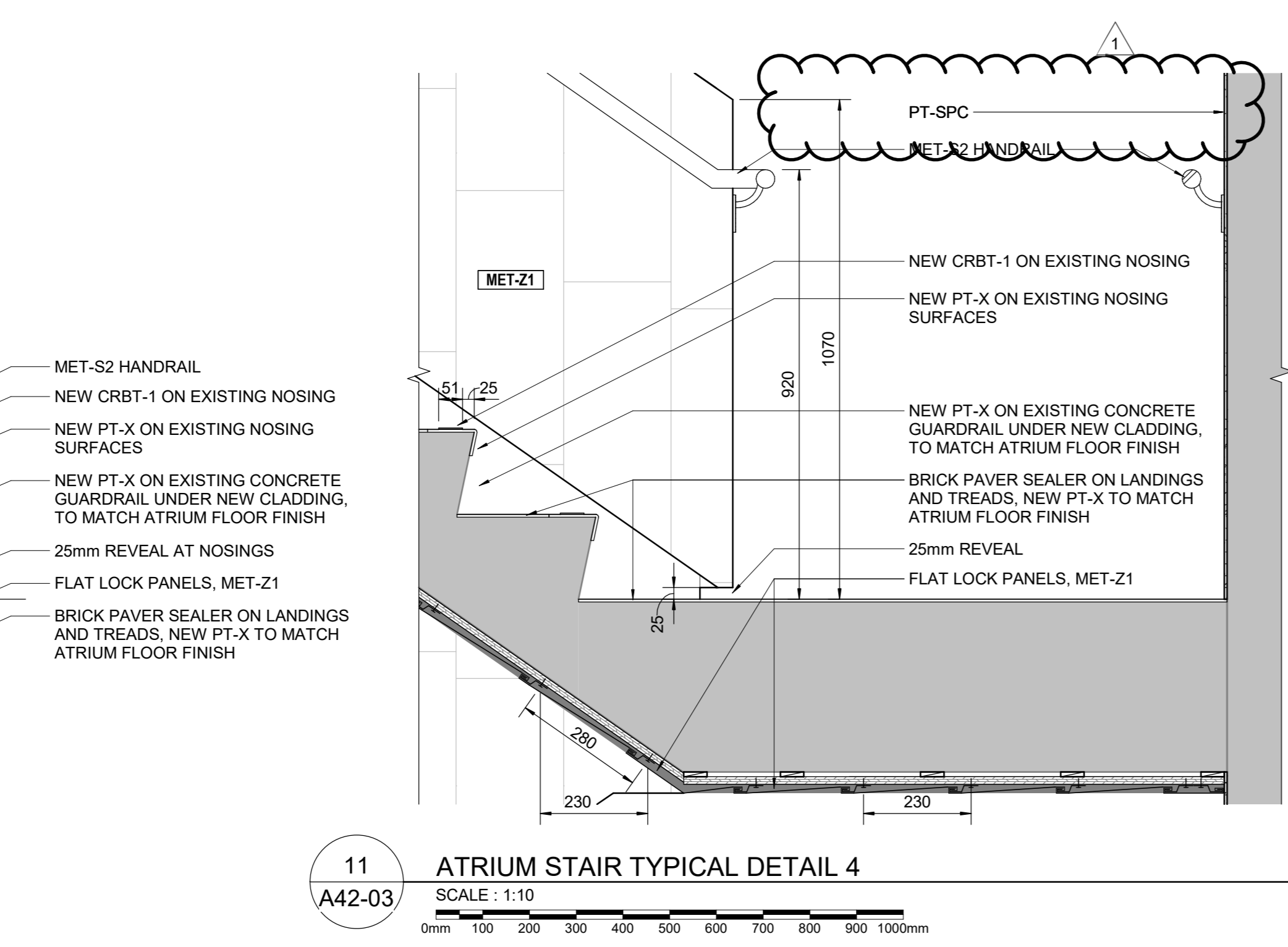
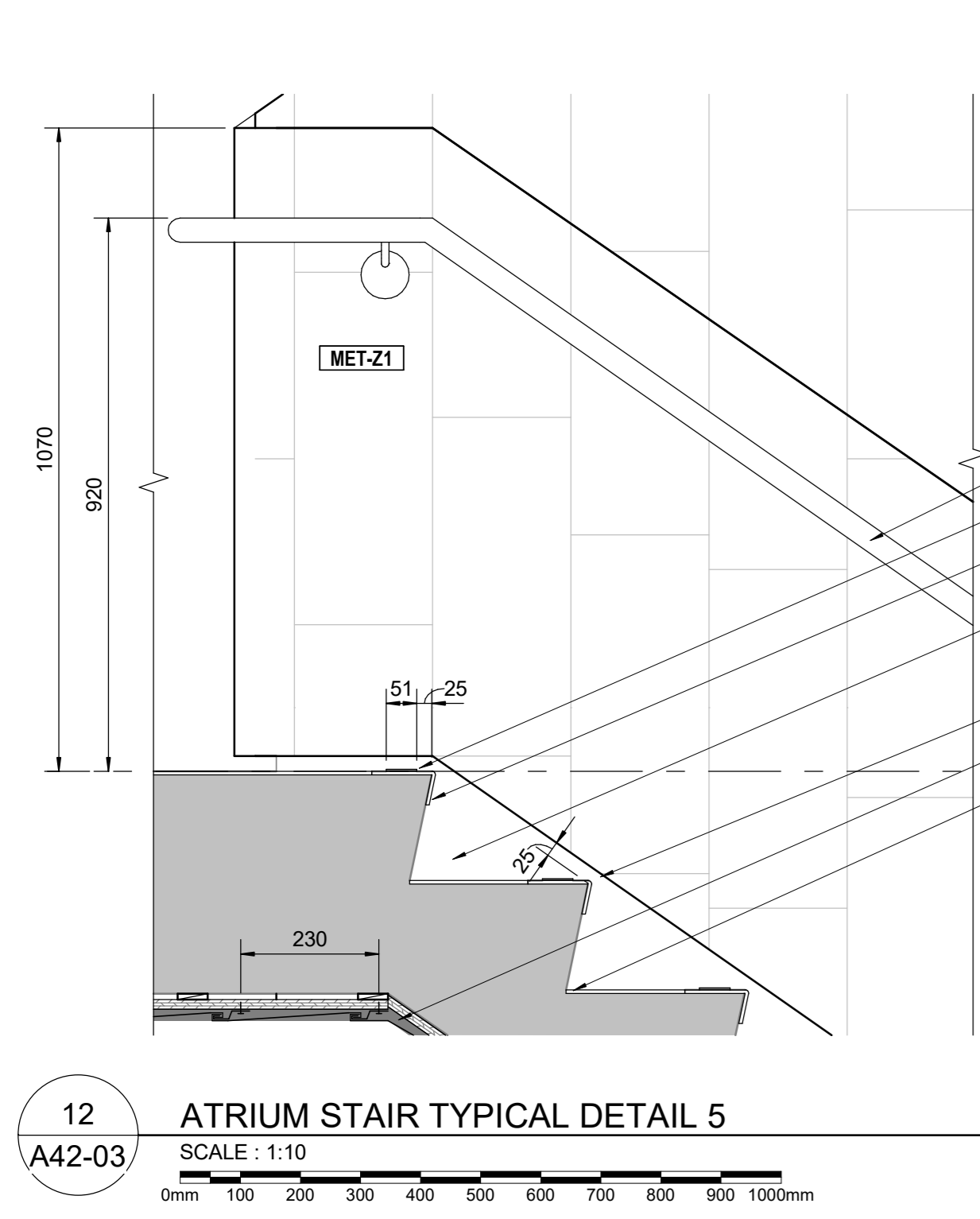
**1.1 REVISED DRAWINGS**

.1 The following Drawings are revised and re-issued with this addendum. Revisions are shown in bubbled areas on drawings. The following descriptions of revisions are for convenience only and do not define or limit the extent of actual revisions indicated on drawings:

- .1 Drawing A42-03 - ATRIUM STAIR DETAILS
  - .1 Revised to show location of material PT-SPC.
- .2 Drawing M02-02 - MECHANICAL SCHEDULES 2
  - .1 Revised info in the Pumps Schedule.
- .3 Drawing M02-03 - MECHANICAL SCHEDULES 3
  - .1 Revised info in the Supply and Exhaust Fan Schedule.
  - .2 Added info to the Fire Pump Schedule.
  - .3 Revised info in the Silencer Schedule.
- .4 Drawing M53-00 - HYDRONIC - PARKING LEVEL NEW WORK
  - .1 Revised pipe sizes.
- .5 Drawing M53-01\_HYDRONIC - MAIN FLOOR NEW WORK
  - .1 Revised notes reflecting pipe sizes.
- .6 Drawing M53-02\_HYDRONIC - SECOND FLOOR NEW WORK
  - .1 Revised notes reflecting pipe sizes.
- .7 Drawing M53-03 - HYDRONIC - THIRD FLOOR NEW WORK
  - .1 Revised notes reflecting pipe sizes.
- .8 Drawing M53-06 - HYDRONIC - PENTHOUSE FLOOR NEW WORK
  - .1 Revised pipe sizes.
- .9 Drawing M60-01 - MECHANICAL RISER DETAILS PART PLANS
  - .1 Revised notes reflecting pipe sizes.
- .10 Drawing M73-02 - HYDRONIC DISTRIBUTION – HEATING
  - .1 Revised pipe sizes.

- .11 Drawing E03-03 Electrical Details – Mechanical
  - .1 Mechanical Equipment Connections Schedule revised as shown on the drawing. Revised equipment - Pumps P-23A, P-23B, P-12A, P-12B, P-14A, P-14B, P-14C, P-16A, P-16B, EF-3.
- .12 Drawing E04-01 Single Line Diagram – Normal Power
  - .1 Connections to mechanical equipment revised as shown on the drawing.

End of NORR Addendum No. 7



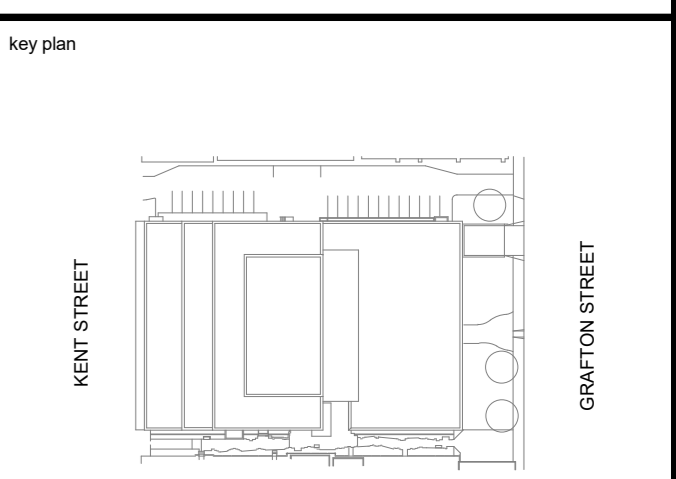
5 ATRIUM STAIR SECTION  
SCALE: 1:50  
A42-03

4 ATRIUM STAIR CROSS SECTION  
SCALE: 1:50  
A42-03

3 ATRIUM STAIR ELEVATION  
SCALE: 1:50  
A42-03

2 ATRIUM STAIR PLAN - MAIN FLOOR  
SCALE: 1:50  
A42-03

1 ATRIUM STAIR PLAN - PARKING LEVEL  
SCALE: 1:50  
A42-03



Project and true North

Project legend

no.	description	date
1	ISSUED FOR TENDER	2022-08-03
2		2022-08-07

Project: DANIEL J MACDONALD MODERNIZATION

161 GRAFTON STREET  
CHARLOTTETOWN, PEI C1A 1L1

design: ATRIUM STAIR DETAILS

designed: NORR  
date: 2021-02-05  
drawn: NORR  
date: 2021-02-05  
approved: AS  
date: 2022-05-27

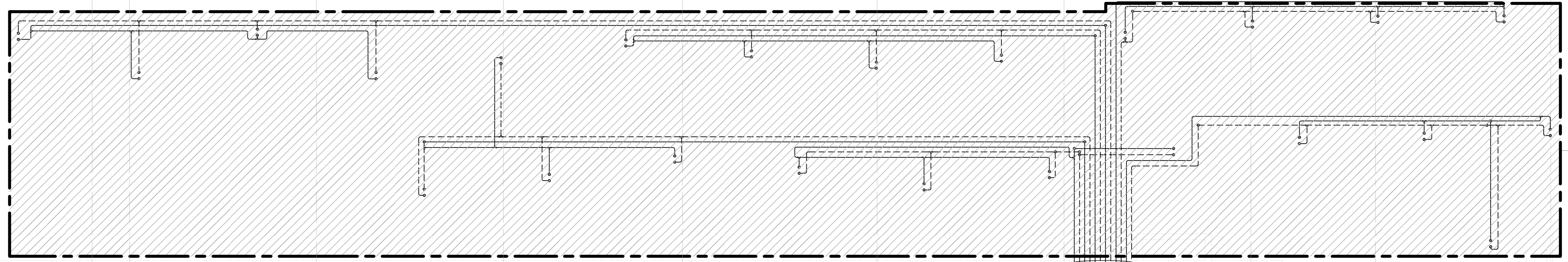
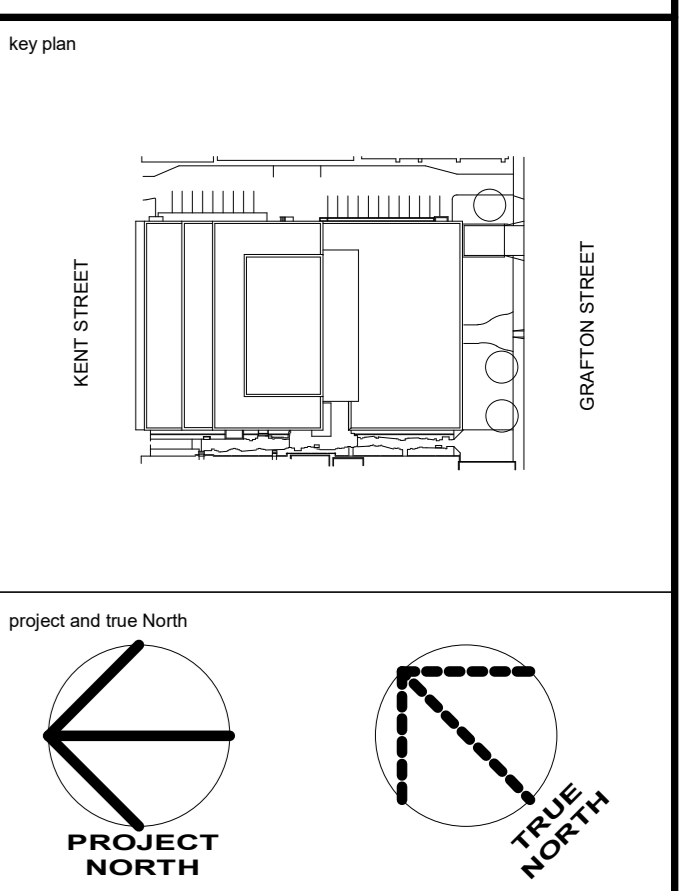
Project number: R.056687.005  
drawing no.: A42-03

## CHILLED BEAM SCHEDULE

ROOM OR ZONE DATA				ZONE PERFORMANCE										BEAM PERFORMANCE														
ROOM OR ZONE	ROOM OR ZONE AREA	OCCUPANCY	SENSIBLE LOAD	LATENT LOAD	OA REQUIRED FOR VENTILATION	MIN. OA REQUIRED FOR VENTILATION	MIN. PRIMARY AIR FLOW PER ZONE		MAX. PRIMARY AIR FLOW PER ZONE		PRIMARY AIR FLOW PER ZONE		SENSIBLE COOLING PER ZONE	LATENT COOLING PER ZONE	BEAM QTY	COIL LENGTH	BLANK LENGTH	PRIMARY AIR FLOW PER BEAM	PRIMARY AIR PRESSURE DROP	MIN. PRIMARY AIR FLOW PER BEAM	AIR INLET SIZE	SOUND LEVEL	CHILLED WATER	COOLING WATER PRESSURE DROP	TOTAL SENSIBLE COOLING CAPACITY	PRIMARY AIR LATENT COOLING PER BEAM	PRIMARY AIR SENSIBLE COOLING PER BEAM	WATER COOL. CAPACITY
							L/s	L/s	L/s	L/s	L/s	L/s																
1-04A FIRST AID	15	2	205	91	9	5	18	22	19	320	93	1	0.6	N/A	19	144	11	125	21	0.03	0.90	320	93	129	191			
1-01 WORK ROOM	19	4	1376	182	15	6	22	43	38	1380	186	1	0.6	N/A	38	152	22	125	21	0.13	9.57	1380	186	257	1122			
1-100 TEAMING AREA	19	9	937	408	27	6	50	101	85	1152	418	1	1.5	N/A	85	142	50	200E	32	0.03	1.79	1152	418	579	572			
1-18 VIDEO PRODUCTION	30	5	1845	227	21	9	29	58	47	1851	232	2	2.1	N/A	24	129	15	125	16	0.15	9.87	925	116	161	765			
1-18A VIDEO PRODUCTION	17	5	1757	227	17	5	31	62	58	1764	286	1	3.0	N/A	58	174	31	125	29	0.16	13.46	1764	286	396	1369			
1-19 FOCUS ROOM	8	4	293	182	12	3	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308			
1-21 FOCUS ROOM	8	4	293	182	12	2	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308			
1-23(A) FOCUS ROOM	7	1	205	45	5	2	8	15	12	248	58	1	0.6	N/A	12	117	8	125	<15	0.03	0.90	248	58	81	167			
1-23(B) FOCUS ROOM	7	1	205	45	5	2	8	15	12	248	58	1	0.6	N/A	12	117	8	125	<15	0.03	0.90	248	58	81	167			
1-23(C) FOCUS ROOM	7	1	176	45	5	2	6	11	9	221	47	1	0.6	N/A	9	139	6	125	<15	0.03	0.90	221	47	64	157			
1-23(D) REFLECTION ROOM	7	1	615	45	5	2	6	13	12	618	60	1	1.5	N/A	12	184	6	125	<15	0.14	26.01	618	60	84	534			
1-23(E)-1 WORKSPACE	41	5	2401	227	25	12	28	56	50	2403	242	2	3.0	N/A	25	162	14	125	16	0.15	11.70	1201	121	167	1034			
1-23(E)-2 WORKSPACE	40	5	1991	227	25	12	25	50	48	2028	232	2	2.7	0.3	24	184	12	125	17	0.07	11.70	1014	116	161	853			
1-23(E)-3 WORKSPACE	45	5	1962	227	27	14	25	50	48	1990	232	2	2.7	0.3	24	184	12	125	17	0.06	10.30	995	116	161	834			
1-23(F) OPEN COLLAB	90	20	3894	908	75	27	101	203	189	3926	929	4	1.5	N/A	47	172	25	125	30	0.06	6.28	982	232	322	660			
1-29 LARGE MEETING RM	46	22	2,665	998	66	14	111	221	208	3214	1022	4	1.2	N/A	52	174	28	150E	30	0.03	1.50	803	256	354	449			
1-35 OPEN WORKSPACE	24	3	381	136	14	7	16	31	28	566	139	2	0.6	N/A	14	164	8	125	19	0.03	0.90	283	70	97	187			
1-36 FOCUS ROOM	8	4	293	182	12	2	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308			
1-38 FOCUS ROOM	8	4	293	182	12	2	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308			
1-39 PHONE BOOTH	6	1	88	45	4	2	6	11	9	221	47	1	0.6	N/A	9	139	6	125	<15	0.03	0.90	221	47	64	157			
1-40 WORK ROOM	13	6	820	272	18	4	39	78	57	848	279	1	1.2	N/A	57	105	39	125	31	0.04	2.09	848	279	386	462			
1-48 MEDIUM MEETING ROOM	29	10	966	454	32	9	54	108	94	1345	464	2	0.9	N/A	47	152	27	125	30	0.03	1.20	672	232	322	350			
1-47 LEGAL ADVISORY FIL	18	0	146	0	6	6	4	9	7	198	35	1	0.6	N/A	7	129	4	125	<15	0.03	0.90	198	35	48	150			
1-48 FOCUS ROOM	8	5	351	227	14	2	27	54	47	672	232	1	0.9	N/A	47	152	27	125	30	0.03	1.20	672	232	322	350			
1-49 GCSI ROOM	9	1	556	45	5	3	6	13	12	560	58	1	1.5	N/A	12	172	6	125	<15	0.08	10.17	560	58	81	479			
1-50 FOCUS ROOM	8	5	351	227	14	2	27	54	47	672	232	1	0.9	N/A	47	152	27	125	30	0.03	1.20	672	232	322	350			
1-50A FOCUS ROOM	8	5	351	227	14	2	27	54	47	672	232	1	0.9	N/A	47	152	27	125	30	0.03	1.20	672	232	322	350			
1-50B FOCUS ROOM	8	5	351	227	14	2	27	54	47	672	232	1	0.9	N/A	47	152	27	125	30	0.03	1.20	672	232	322	350			
1-52 FOCUS ROOM	8	4	381	182	12	2	20	39	38	753	186	1	1.2	N/A	38	187	20	125	29	0.04	2.69	753	186	257	495			
1-52A FOCUS ROOM	8	4	381	182	12	2	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308			
1-52B FOCUS ROOM	8	4	381	182	12	2	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308			
1-52C FOCUS ROOM	8	4	381	182	12	2	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308			
1-52D FOCUS ROOM	8	4	381	182	12	2	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308			
1-54-1 LEGAL ADV. OPEN	95	16	3,572	726	69	29	78	156	150	3744	732	3	2.1	0.9	50	187	26	125	28	0.12	26.31	1248	244	338	910			
1-54-2 LEGAL ADV. OPEN	63	10	2,138	454	40	19	52	104	100	2496	488	2	1.1	0.9	50	187	26	125	28	0.12	26.31	1248	244	338	910			
1-57 BGIS OFFICE	36	3	1,200	136	18	11	20	31	30	1206	139	2	1.5	N/A	15	164	10	125	<15	0.16	8.70	603	72	100	503			
1-66 ITEM - ADMIN - IT O	51	8	2,577	363	34	16	43	87	76	2605	372	2	3.0	N/A	38	152	22	125	21	0.09	23.32	1303	186	257	1045			
1-67-1 OPEN WORKSPACE	35	10	3,865	454	36	11	112	224	196	3889	957	4	1.2	N/A	49	154	28	125	30	0.16	27.23	967	239	331	636			
1-67-2 OPEN WORKSPACE	54	10	2,372	454	41	16	57	114	99	2380	488	3	1.2	N/A	33	144	19	125	25	0.14	21.58	793	163	225	568			
1-67-3 OPEN WORKSPACE	65	10	1,523	454	45	20	57	114	99	1890	488	3	1.2	N/A	33	144	19	125	25	0.03	1.45	630	163	225	405			
1-71 UNION OFFICE	10	4	527	182	13	3	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308			
1-72 UNION OFFICE	9	4	527	182	12	3	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308			
1-80 SECURITY CONSOLE	25	4	1113	182	17	8	23	46	42	1161	209	3	0.9	N/A	14	167	8	125	17	0.04	1.50	387	70	97	290			
1-86 SOC ROOM	8	2	410	91	7	2	13	27	19	412	93	1	0.9	N/A	19	100	13	125	17	0.04	1.50	412	93	129	283			
1-89 WORK ROOM	15	4	381	182	14	4	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308			
1-90 WORK ROOM	15	4	381	182	14	4	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308			
1-91 (A) FOCUS ROOM	8	4	293	182	12	2	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308			
1-91 FOCUS ROOM	8	4	293	182	12	3	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308			
1-92 FOCUS ROOM	8	4	293	182	12	3	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308			
1-93-1 LEARNING CENTRE	63	14	4304	635	54	19	109	217	400	4317	929	2	3.0	N/A	94	150	54	200E	32	0.16	13.00	2158	465	643	1515			
1-93-2 LEARNING CENTRE	94	18	4392	617	73	28	93	187	354	5140	823	3	3.0	N/A	56	162	31	125	28	0.16	13.00	1713	274	379	1334			
1-94 TRAINING ROOM	84	16	3397	726	63	26	78	156	151	3414	744	4	1.2	N/A	38	187	20	125	29	0.11	14.95	854	186	257	596			
1-97 PHONE BOOTH	5	1	88	45	4	2	6	11	9	221	47	1	0.6	N/A	9	139	6	125	<15	0.03	0.90	221	47	64	157			
1-98 FINGER PRINT PHOTO	9	2	410	91	7	3	13	27	19	412	93	1	0.9	N/A	19	100	13	125	17	0.04	1.50	412	93	129	283			
1-99 OPEN COLLAB	47	13	2723	590	45	14	75	151	120	2728	592	3	1.5	N/A	40	127	25	125	26	0.08	10.17	909	197	273	636			
2-08 MEDIUM MEETING ROOM	26	10	878	454	32	8	54	108	94	1345	464	2	0.9	N/A	47	152	27	125	30	0.03	1.20	672	232	322	350			
2-09 MEDIUM MEETING ROOM	25	10	1054	454	31	8	54	108	94	1345	464	2	0.9	N/A	47	152	27	125	30	0.03	1.20	672	232	322	35			

## CHILLED BEAM SCHEDULE

ROOM OR ZONE DATA				ZONE PERFORMANCE										BEAM PERFORMANCE																							
ROOM OR ZONE	ROOM OR ZONE AREA	OCCUPANCY	SENSIBLE LOAD	LATENT LOAD	OA REQUIRED FOR VENTILATION	MIN. OA REQUIRED FOR VENTILATION	MIN. PRIMARY AIR FLOW PER ZONE		MAX. PRIMARY AIR FLOW PER ZONE		SENSIBLE COOLING PER ZONE		LATENT COOLING PER ZONE		BEAM QTY	COIL LENGTH	BLANK LENGTH	PRIMARY AIR FLOW PER BEAM		AIR PRESSURE DROP		MIN. PRIMARY AIR FLOW PER BEAM	AIR INLET SIZE	SOUND LEVEL	CHILLED WATER	COOLING WATER PRESSURE DROP	TOTAL COOLING CAPACITY	PRIMARY AIR LATE COOLING PER BEAM	PRIMARY AIR SENSIBLE COOLING PER BEAM	WATER COIL COOLING CAPACITY							
							L/s	L/s	L/s	L/s	L/s	L/s	L/s	L/s				Pa	Pa	mm	NC										L/s	kPa	W	W	W	W	
2-49-6 OPEN WORKSPACE	46	8	2928	363	34	14	44	88	78	2936	383	3	2.1	0.9	26	154	15	125	18	0.14	8.36	979	128	177	802												
2-49-7 OPEN WORKSPACE	46	5	2284	227	27	14	25	50	47	2298	232	2	2.7	0.3	24	159	12	125	17	0.16	10.75	1149	116	161	988												
2-49-8 OPEN WORKSPACE	54	8	4480	363	31	16	109	218	200	4494	985	2	3.0	N/A	100	184	55	200E	33	0.16	13.46	2247	403	682	1565												
2-49-9 OPEN WORKSPACE	54	10	4275	454	41	16	109	218	187	4286	820	2	3.0	N/A	93	162	54	200E	32	0.16	13.46	2143	460	637	1506												
2-49-10 OPEN WORKSPACE	85	9	3133	408	48	26	44	88	85	3141	418	3	2.1	0.9	28	167	15	125	21	0.15	9.21	1047	139	193	854												
2-49-11 OPEN WORKSPACE	130	17	6003	772	82	39	87	174	164	6012	809	4	3.0	N/A	41	157	22	125	23	0.16	13.46	1503	202	280	1223												
2-50 REFLECTION ROOM	5	1	88	45	4	2	6	11	9	221	47	1	0.6	N/A	9	139	6	125	<15	0.03	0.90	221	47	64	157												
2-51 PHONE BOOTH	5	1	59	45	4	2	6	11	9	221	47	1	0.6	N/A	9	139	6	125	<15	0.03	0.90	221	47	64	157												
2-52 FOCUS ROOM	7	1	468	45	4	2	5	10	9	469	47	1	1.2	N/A	9	184	5	125	<15	0.11	14.95	469	47	64	405												
2-52B FOCUS ROOM	7	1	176	45	4	2	6	11	9	221	47	1	0.6	N/A	9	139	6	125	<15	0.03	0.90	221	47	64	157												
2-54 LARGE MEETING ROOM	53	22	2577	998	68	16	111	221	208	3214	1022	4	1.2	N/A	52	174	28	150E	30	0.03	1.50	803	256	354	449												
2-55 LARGE MEETING ROOM	47	22	2225	998	66	14	111	221	208	3214	1022	4	1.2	N/A	52	174	28	150E	30	0.03	1.50	803	256	354	449												
2-56 WORK ROOM	15	4	410	182	14	4	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308												
2-57 FOCUS ROOM	8	1	176	45	5	2	6	11	9	221	47	1	0.6	N/A	9	139	6	125	<15	0.03	0.90	221	47	64	157												
2-58 PHONE BOOTH	4	1	59	45	4	1	6	11	9	221	47	1	0.6	N/A	9	139	6	125	<15	0.03	0.90	221	47	64	157												
2-63A FOCUS ROOM	6	4	322	182	11	2	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308												
2-63B FOCUS ROOM	6	4	322	182	11	2	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308												
2-63C REFLECTION ROOM	5	1	59	45	4	1	6	11	9	221	47	1	0.6	N/A	9	139	6	125	<15	0.03	0.90	221	47	64	157												
2-65 PHONE BOOTH	5	1	88	45	4	1	6	11	9	221	47	1	0.6	N/A	9	139	6	125	<15	0.03	0.90	221	47	64	157												
2-71 WORK ROOM	13	6	410	272	18	4	39	78	57	816	279	1	1.2	N/A	57	105	39	125	31	0.03	1.50	816	279	386	430												
2-72 OPEN COLLAB	54	10	2284	454	40	16	62	123	94	2294	464	2	1.8	N/A	47	117	31	125	27	0.14	7.77	1147	232	322	825												
2-73 PROJECT ROOM	17	7	908	318	22	5	39	77	66	918	325	1	1.2	N/A	66	144	39	150E	32	0.03	1.50	918	325	450	467												
2-74 PHONE BOOTH	7	1	88	45	4	2	6	11	9	221	47	1	0.6	N/A	9	139	6	125	<15	0.03	0.90	221	47	64	157												
2-76 FOCUS ROOM	8	5	322	227	14	2	27	54	47	672	232	1	0.9	N/A	47	152	27	125	30	0.03	1.20	672	232	322	350												
2-76(A) FOCUS ROOM	9	5	322	227	14	3	27	54	47	672	232	1	0.9	N/A	47	152	27	125	30	0.03	1.20	672	232	322	350												
2-77-1 OPEN WORKSPACE	57	8	4392	363	37	17	109	218	200	4406	957	2	3.0	N/A	100	159	54	200E	33	0.16	13.43	2303	479	663	1540												
2-77-2 OPEN WORKSPACE	50	7	3367	318	33	15	37	74	72	3376	348	3	2.7	0.3	24	184	12	125	17	0.13	8.36	1125	116	161	965												
2-77-3 OPEN WORKSPACE	64	10	4334	454	44	19	49	94	94	4343	465	4	2.7	0.3	26	184	12	125	17	0.10	23.82	1086	116	161	925												
2-77-4 OPEN WORKSPACE	56	8	2987	363	37	17	44	88	79	2981	390	3	2.1	0.9	26	162	15	125	19	0.15	9.21	997	130	180	817												
2-77-5 OPEN WORKSPACE	52	4	1640	182	26	16	23	46	42	1648	209	3	1.2	0.3	14	167	8	125	15	0.15	25.22	519	70	97	453												
2-78 FOCUS ROOM	8	4	322	182	12	2	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308												
2-79 PHONE BOOTH	5	1	59	45	4	2	6	11	9	221	47	1	0.6	N/A	9	139	6	125	<15	0.03	0.90	221	47	64	157												
2-81-1 FG #5 BPA WORK	67	9	3397	408	43	20	85	170	145	3406	716	2	2.4	0.6	73	174	42	125	35	0.16	12.00	1703	358	495	1208												
2-81-2 FG #5 BPA WORK	87	6	2430	272	41	26	43	87	74	2436	362	4	1.2	1.8	18	187	11	125	17	0.15	25.00	609	90	125	483												
2-81-3 FG #5 BPA WORK	72	23	2723	1044	79	22	154	308	212	3143	1046	2	3.0	N/A	106	114	77	200E	31	0.03	3.00	1572	523	724	848												
2-82 MEDIUM MEETING ROOM	29	10	1054	454	33	9	54	108	94	1345	464	2	0.9	N/A	47	152	27	125	30	0.03	1.20	672	232	322	350												
2-83 PHONE BOOTH	7	1	88	45	4	2	6	11	9	221	47	1	0.6	N/A	9	139	6	125	<15	0.03	0.90	221	47	64	157												
2-84 PHONE BOOTH	7	1	88	45	4	2	6	11	9	221	47	1	0.6	N/A	9	139	6	125	<15	0.03	0.90	221	47	64	157												
2-85 FOCUS ROOM	7	4	322	182	12	2	27	55	38	566	186	1	0.9	N/A	38	95	27	125	24	0.03	1.20	566	186	257	308												
2-86 MEDIUM MEETING ROOM	31	10	1610	454	33	10	54	108	95	1614	469	2	0.9	N/A	48	154	27	125	30	0.15	19.73	807	235	325	482												
2-87A FOCUS ROOM	8	5	322	227	14	2	27	54	47	672	232	1	0.9	N/A	47	152	27	125	30	0.03	1.20	672	232	322	350												



GLS/R PIPING ARE SPACED AT 300 ON CENTER AND PENETRATE THE WALL VERTICALLY ALIGNED (SHOWN SIDE-BY-SIDE ON PLAN FOR CLARITY). REFER TO DETAILS FOR EXACT PIPING ARRANGEMENT AT WALL PENETRATION AND INSIDE OF THE COMMON TRENCH. REFER TO STRUCTURAL DRAWINGS FOR INSTRUCTIONS ON CUTTING OPENINGS IN THE EXISTING WALL PRIOR TO CORING.

- GENERAL NOTES:**
- DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL FLOOR PLANS AND SPECIFICATIONS.
  - ALL EXISTING SERVICES SHOWN ARE APPROXIMATE AND BASED ON EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY ALL LOCATIONS ON SITE.
  - CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES INVOLVED ON SITE.
  - ENSURE NOT TO DISTURB SERVICES COVERING AREAS NOT INCLUDED IN THE SCOPE. ALL WORK MUST BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
  - CONTRACTOR SHALL VISIT SITE TO EXAMINE EXISTING CONDITIONS.
  - CONTRACTOR TO PROPOSE SOLUTIONS FOR REVIEW TO THE CONSULTANT IF ANY INTERFERENCES OCCUR DUE TO SITE CONDITIONS.
  - ALL MATERIAL USED IN THE CEILING SPACE (RETURN AIR PLENUM) SHALL MEET AND EXCEED THE N.B.C. REQUIREMENTS FLAME AND SMOKE SPREAD/DEVELOPMENT RATINGS.
  - CONTRACTOR TO PROVIDE CONNECTION TO RELOCATED EXISTING EQUIPMENT AND ADDED EQUIPMENT DIRECTLY TO BUILDING HVAC SYSTEM AND UPDATE THE BMS ARCHITECTURE AS REQUIRED.
  - CONTRACTOR TO REMOVE ALL MECHANICAL EQUIPMENT AND INSTALL NEW ONES, SALVAGE AND REINSTALL ONLY WHEN SPECIFICALLY INDICATED.
  - HEADROOM CLEARANCE VARIES THROUGHOUT THE PARKING GARAGE. INSTALL UNIT HEATERS AT MINIMUM 2000 A.F.F. INSTALL PIPING AS HIGH AS POSSIBLE AND MAINTAIN ABOVE 2000 A.F.F. AT ALL TIMES.
  - SUPPLY AND INSTALL ALL NECESSARY EXPANSION COMPENSATORS, ANCHORS AND ALIGN GUIDES ON ALL HYDRONIC PIPING TO SUIT INSTALLATION. EXPANSION CONTROL SHOWN ON THE DRAWING ONLY SUGGESTS THE DESIGN INTENT.
  - ALL THERMOSTATS IN PUBLIC AREAS TO BE EITHER BLANK PLATE-TYPE SENSORS OR PROVIDED WITH PROTECTIVE GUARDS.

- DRAWING NOTES:**
- 1000 HWS/HWR UP TO FLOORS AND PENTHOUSE.
  - PROVIDE NEW FLOOR OPENINGS, SCAN FLOOR PRIOR TO CORING AND COORDINATE WITH STRUCTURAL.
  - 1500 CHWS/CHWR UP TO FLOORS TO SERVE COOLING REQUIREMENTS.
  - 1000 CHWS LT/CHWR LT UP TO PENTHOUSE.
  - 1500 GTS/GTR UP TO PENTHOUSE.
  - 650 HWS/HWR UP TO FLOORS TO SERVE HEATING REQUIREMENTS.
  - 1000 CHWS/CHWR UP TO FLOORS TO SERVE COOLING REQUIREMENTS.
  - 650 CHWS LT/CHWR LT UP TO SERVE FCU-20, 21, AND 22 ON MAIN FLOOR.
  - RESERVED

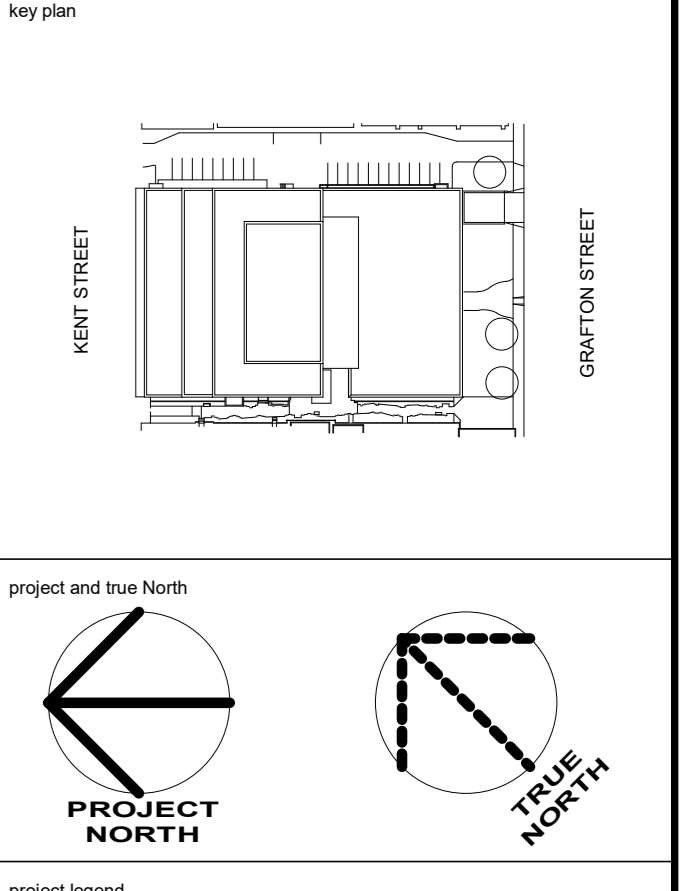
**1 HVAC PIPING PARKING LEVEL**  
SCALE: 1:100

revisions	date
2	2022-08-03
1	2022-07-28
0	2022-06-07

PROJECT: DANIEL J MACDONALD MODERNIZATION  
161 GRAFTON STREET  
CHARLOTTETOWN, PEI C1A 1L1  
HYDRONIC - PARKING LEVEL NEW WORK

designed	project
NORR	Daniel J Macdonald
date	comp
2020-8-31	
drawn	designé
NORR	
date	approved
2020-8-31	
approved	approved
NORR	
date	no. du projet
2022-08-03	

Project number: R.056687.005  
Drawing no.: M53-00



Project and true North  
PROJECT NORTH  
TRUE NORTH

Project Legend

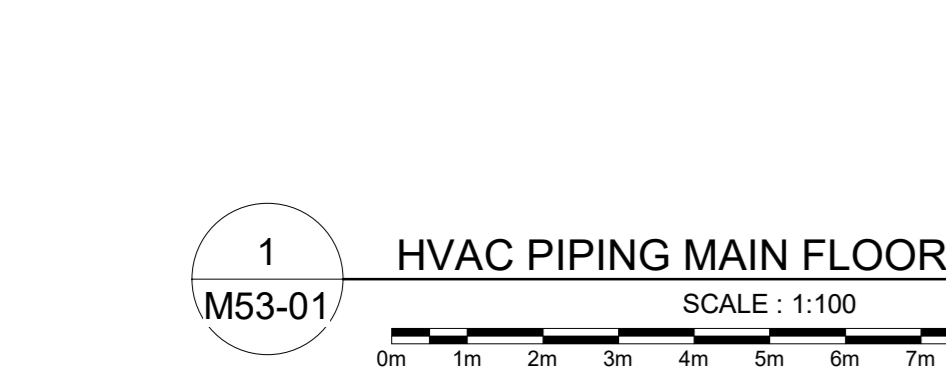
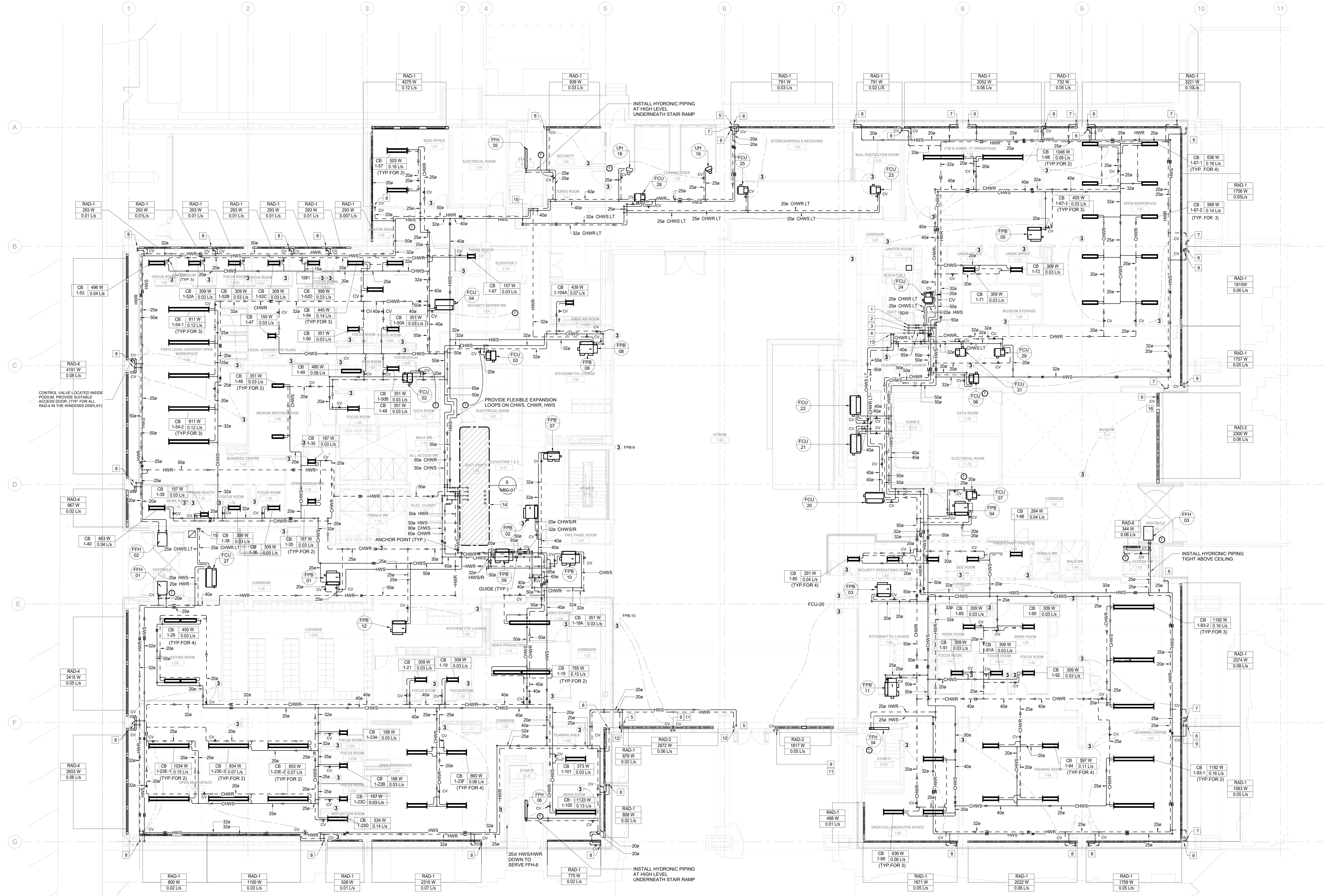
Revisions	no.	description	date
	1	ISSUED FOR TENDER	2020-07-25
	2	ADDENDUM #7	2022-08-03
	3	ADDENDUM #5	2022-07-25
	4	ISSUED FOR TENDER	2020-07-25

PROJECT  
**DANIEL J MACDONALD  
MODERNIZATION**

161 GRAFTON STREET  
CHARLOTTETOWN, PEI C1A 1L1

drawing  
**HYDRONIC - MAIN  
FLOOR NEW WORK**

designed	checked	date
NORR	conpu	2020-8-31
NORR	dessiné	2020-8-31
NORR	approved	2020-8-31
NORR	approved	2022-08-03
Tender	Submission	
Project Manager	Administrateur de projets	TPSGC
Project Number	no. du projet	<b>R.056687.005</b>
drawing no.	no. du dessin	<b>M53-01</b>

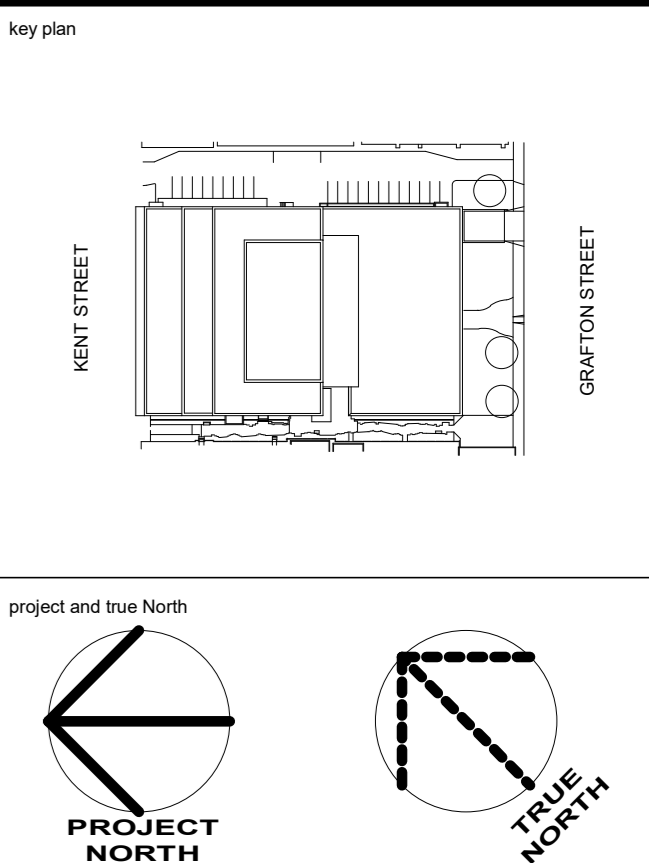


- DRAWING NOTES:**
- 650 HWS FROM BELOW AND UP.
  - 650 HWS/HWR FROM ABOVE AND DOWN.
  - 1000 CHWS FROM BELOW AND UP.
  - 1000 CHWR FROM ABOVE AND DOWN.
  - PROVIDE NEW FLOOR OPENINGS, SCAN FLOOR PRIOR TO CORING AND COORDINATE WITH STRUCTURAL.
  - 200 HWS UP THROUGH FLOOR TO SERVICE RADIATORS AT LEVEL ABOVE. RE-USE EXISTING FLOOR OPENINGS.
  - 200 HWR DOWN THROUGH FLOOR FROM RADIATORS AT LEVEL ABOVE. RE-USE EXISTING FLOOR OPENINGS.
  - 200 HWS/HWR DOWN TO SERVE RADS.
  - 150 HWS/HWR FROM PARKING GARAGE. PROVIDE NEW FLOOR OPENING, SCAN FLOOR PRIOR TO CORING AND COORDINATE WITH STRUCTURAL.

- RESERVED**
- RESERVED
  - 150 HWS/HWR FROM BELOW TO SERVE RAD-2.
  - 200 HWS/HWR UP THROUGH FLOOR TO SERVE RADIATOR AT LEVEL ABOVE. PROVIDE NEW FLOOR OPENING, SCAN FLOOR PRIOR TO CORING AND COORDINATE OPENING WITH RADIATOR LOCATION. PIPING PENETRATES THROUGH FLOOR INTO THE RADIATOR TROUGH.
  - 650 CHWS/CHWR FROM BELOW, 250 CHWS/TO LEVEL ABOVE.
  - 200 HWS UP THROUGH FLOOR TO SERVICE RADIATORS AT LEVEL ABOVE. RE-USE EXISTING FLOOR OPENINGS.
  - 320 CHWS/CHWR FROM BELOW.
  - RUN PIPE THROUGH INSIDE OF THE WALL TO RADIATORS SECTION BEYOND THE COLUMN.

- NOTES:**
- PROVIDE RADIATORS TO MEET THE CAPACITY REQUIREMENTS NOTED ON THE DRAWING AND TO COMPLY WITH DIMENSIONS AND TYPE ACCORDING TO THE SCHEDULE.
  - RADIATORS TO BE CW ALL ACCESSORIES AND TRIMS NECESSARY TO MAINTAIN CONTINUOUS APPEARANCE ALONG EXTERIOR WALLS.
  - INSTALL HWS/HWR PIPING THROUGH EXISTING FLOOR OPENINGS TO SERVICE RADIATORS ON LEVEL ABOVE AS NOTED. PATCH UNUSED FLOOR OPENINGS. PROVIDE SAME END OR OPPOSITE END CONNECTIONS AS NECESSARY TO SUIT INSTALLATION AS SHOWN ON THE DRAWING.
  - PROVIDE CONTROL VALVES FOR RADIATORS IN EACH ZONE. REFER TO RADIATOR PIPING DETAILS FOR CONTROL VALVES LOCATION AND PIPING ARRANGEMENTS.
  - SUPPLY AND INSTALL ALL NECESSARY EXPANSION COMPENSATORS, ANCHORS AND ALIGN GUIDES ON ALL HYDRONIC PIPING TO SUIT INSTALLATION. EXPANSION CONTROL SHOWN ON THE DRAWING ONLY SUGGESTS THE DESIGN INTENT.

- GENERAL NOTES:**
- DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL FLOOR PLANS AND SPECIFICATIONS.
  - ALL EXISTING SERVICES SHOWN ARE APPROXIMATE AND BASED ON EXISTING DRAWINGS.
  - CONTRACTOR SHALL VERIFY ALL LOCATIONS ON SITE.
  - CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES INVOLVED ON SITE.
  - CONTRACTOR SHALL VISIT SITE TO EXAMINE EXISTING CONDITIONS.
  - CONTRACTOR TO PROPOSE SOLUTIONS FOR REVIEW TO THE CONSULTANT IF ANY INTERFERENCES OCCUR DUE TO SITE CONDITIONS.
  - ALL MATERIAL USED IN THE CEILING SPACE (RETURN AIR PLenum) SHALL MEET AND EXCEED THE N.B.C. REQUIREMENTS FLAME AND SMOKE SPREAD DEVELOPMENT RATINGS.
  - CONTRACTOR TO PROVIDE CONNECTION TO RELOCATED EXISTING EQUIPMENT AND ADDED EQUIPMENT DIRECTLY TO BUILDING HVAC SYSTEM AND UPDATE THE SMS ARCHITECTURE AS REQUIRED.
  - CONTRACTOR TO REMOVE ALL MECHANICAL EQUIPMENT AND INSTALL NEW ONES, SALVAGE AND REINSTALL ONLY WHEN SPECIFICALLY INDICATED.
  - MECHANICAL CONTRACTOR TO X-RAY SCAN SLAB PRIOR TO CORING.
  - ALL THERMOSTATS IN PUBLIC AREAS TO BE EITHER BLANK PLATE-TYPE SENSORS OR PROVIDED WITH PROTECTIVE GUARDS.



PROJECT NORTH

TRUE NORTH

project legend

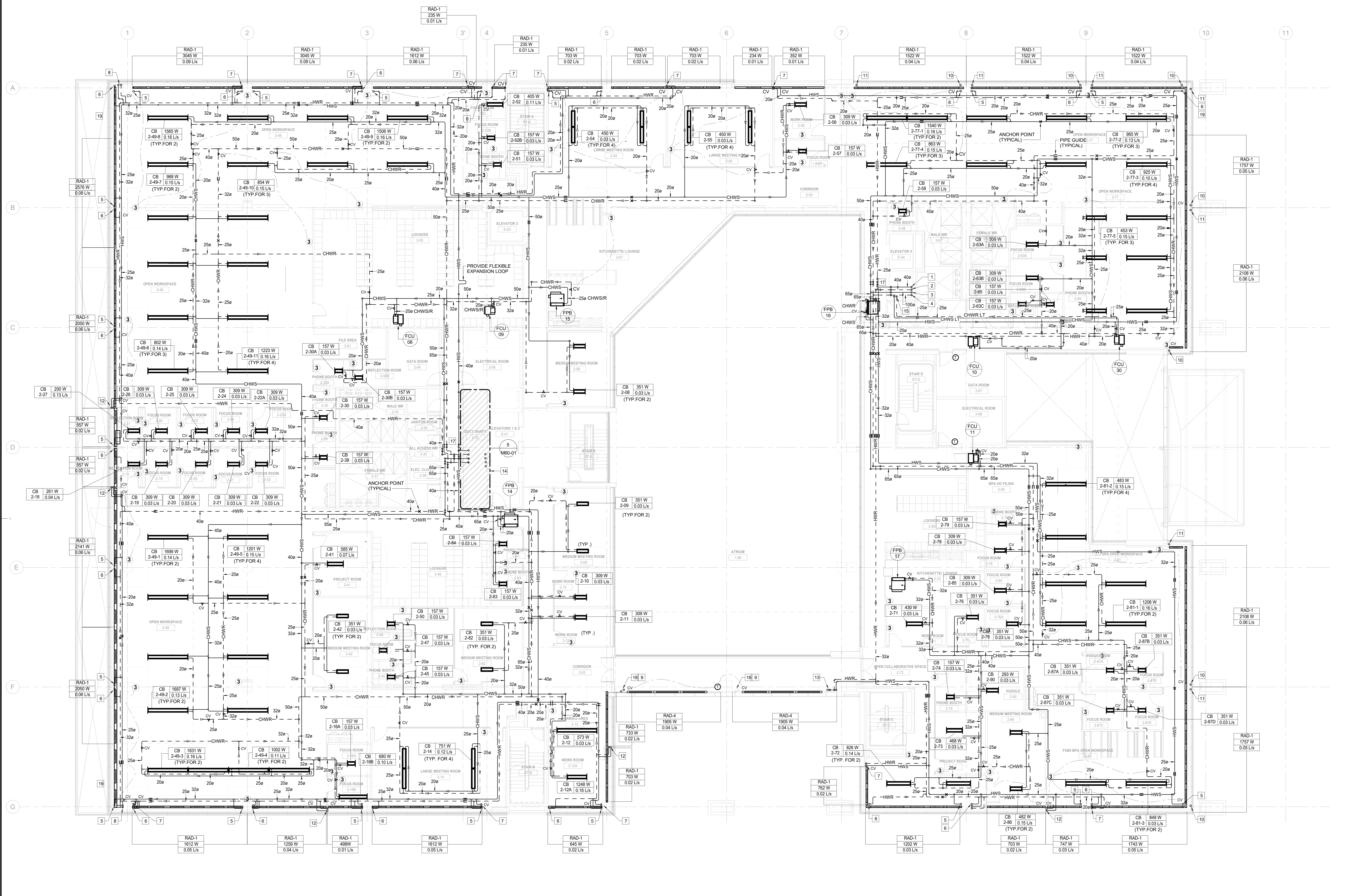
2	ADDENDUM #7	2022-08-03
1	ADDENDUM #5	2022-07-25
0	ISSUED FOR TENDER	2022-06-07

**DANIEL J MACDONALD  
MODERNIZATION**

161 GRAFTON STREET  
CHARLOTTETOWN, PEI, C1A 1L1

**HYDRONIC - SECOND  
FLOOR NEW WORK**

designed NORR	conpu
date 2020-8-31	
drawn NORR	desine
date 2020-8-31	
approved NORR	approve
date 2022-08-03	
sender	Submission
FW503 Project Manager	Administrateur de projets TP503
project number	no. du projet
<b>R.056687.005</b>	
drawing no.	no. du dessin
<b>M53-02</b>	



**1  
M53-02** HVAC PIPING SECOND FLOOR  
SCALE: 1:100

**DRAWING NOTES:**

- 650 HWS FROM BELOW, 400 UP.
- 400 HWR FROM ABOVE, 650 DOWN.
- 1000 CHWS FROM BELOW, 800 UP.
- 800 CHWR FROM ABOVE, 1000 DOWN.
- 200 HWS UP THROUGH FLOOR TO SERVICE RADIATORS AT LEVEL ABOVE. RE-USE EXISTING FLOOR OPENINGS.
- 200 HWR DOWN THROUGH FLOOR FROM RADIATORS AT LEVEL ABOVE. RE-USE EXISTING FLOOR OPENINGS.
- 200 HWS/HWR DOWN TO SERVE RADS.
- 200 HWS/HWR TIGHT TO COLUMN, RUN DOWN TO SERVICE RADS ON THE NORTH SIDE. PROVIDE TRIM TO SUIT, RUN PIPING INSIDE TRIM.
- 200 HWS/HWR FROM BELOW. REFER TO IN-FLOOR RADIATOR DETAIL.

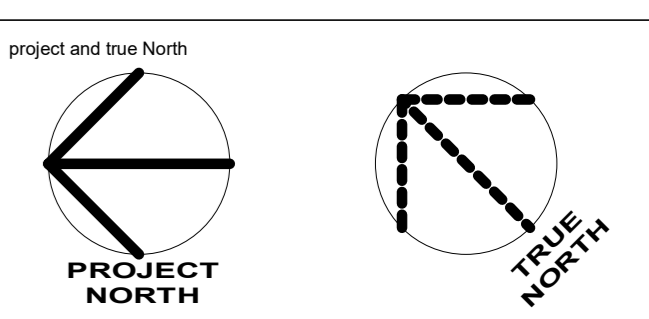
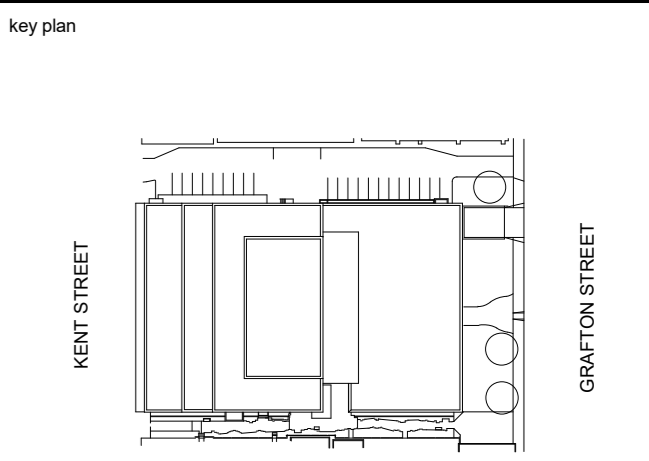
**GENERAL NOTES:**

- DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL FLOOR PLANS AND SPECIFICATIONS.
- ALL EXISTING SERVICES SHOWN ARE APPROXIMATE AND BASED ON EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY ALL LOCATIONS ON SITE.
- CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES INVOLVED ON SITE.
- ENSURE NOT TO DISTURB SERVICES COVERING AREAS NOT INCLUDED IN THE SCOPE. ALL WORK MUST BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR SHALL VISIT SITE TO EXAMINE EXISTING CONDITIONS.
- CONTRACTOR TO PROPOSE SOLUTIONS FOR REVIEW TO THE CONSULTANT IF ANY INTERFERENCES OCCUR DUE TO SITE CONDITIONS.
- ALL MATERIAL USED IN THE CEILING SPACE (RETURN AIR PLenums) SHALL MEET AND EXCEED THE N.B.C REQUIREMENTS FLAME AND SMOKE SPREAD/DEVELOPMENT RATINGS.
- CONTRACTOR TO PROVIDE CONNECTION TO RELOCATED EXISTING EQUIPMENT AND ADDED EQUIPMENT DIRECTLY TO BUILDING HVAC SYSTEM AND UPDATE THE BMS ARCHITECTURE AS REQUIRED.
- CONTRACTOR TO REMOVE ALL MECHANICAL EQUIPMENT AND INSTALL NEW ONES; SALVAGE AND REINSTALL ONLY WHEN SPECIFICALLY INDICATED.
- MECHANICAL CONTRACTOR TO X-RAY SCAN SLAB PRIOR TO CORING.
- SUPPLY AND INSTALL ALL NECESSARY EXPANSION COMPENSATORS, ANCHORS AND ALIGN GUIDES ON ALL HYDRONIC PIPING.
- ALL THERMOSTATS IN PUBLIC AREAS TO BE EITHER BLANK PLATE-TYPE SENSORS OR PROVIDED WITH PROTECTIVE GUARDS.

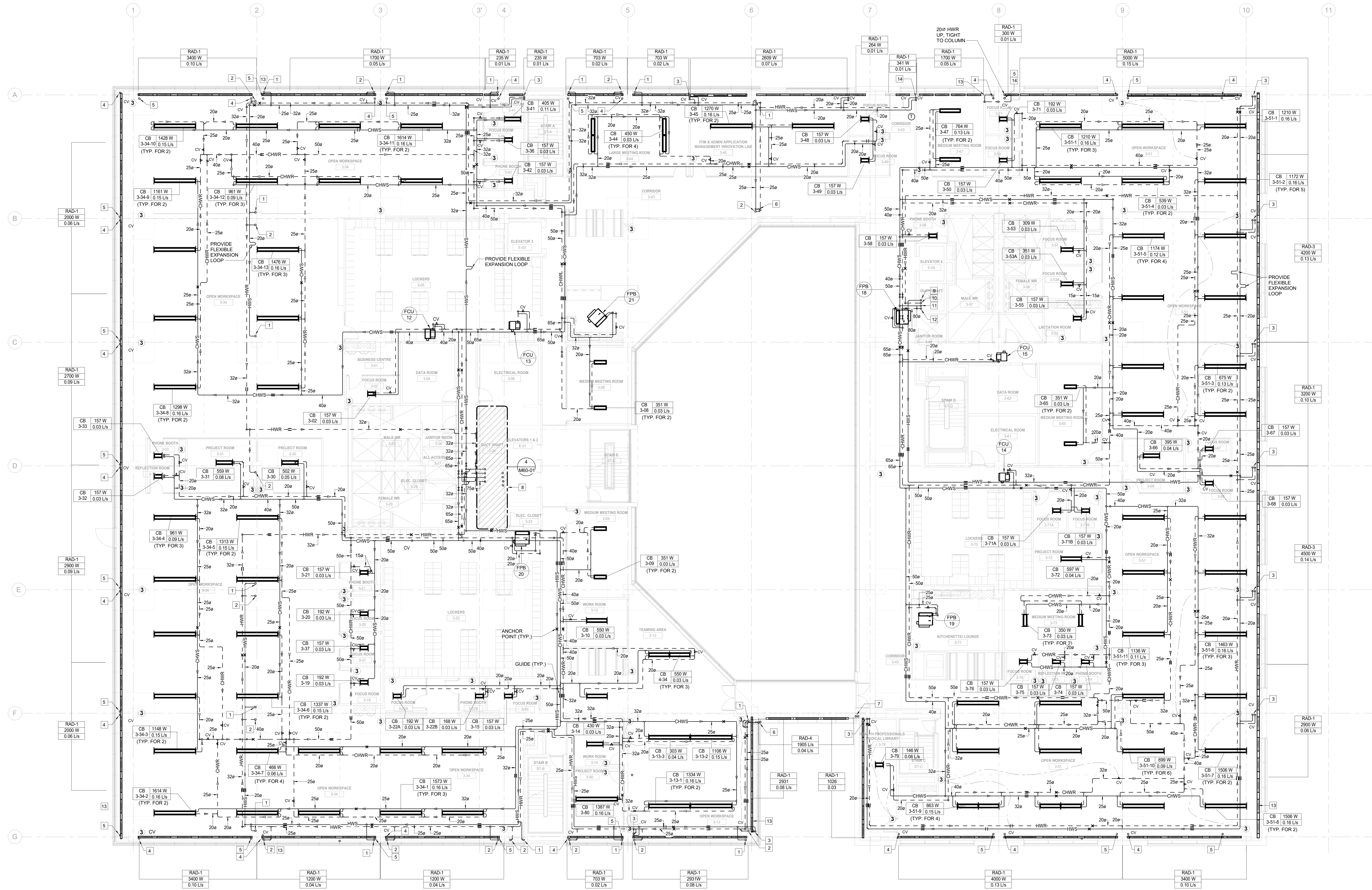
**NOTES:**

- PROVIDE RADIATORS TO MEET THE CAPACITY REQUIREMENTS NOTED ON THE DRAWING AND TO COMPLY WITH DIMENSIONS AND TYPE ACCORDING TO THE SCHEDULE.
- RADIATORS TO BE CV ON ALL ACCESSORIES AND TRIMS NECESSARY TO MAINTAIN CONTINUOUS APPEARANCE ALONG EXTERIOR WALLS.
- INSTALL HWS/HWR PIPING THROUGH EXISTING FLOOR OPENINGS TO SERVICE RADIATORS ON LEVEL ABOVE AS NOTED. PATCH UNUSED FLOOR OPENINGS. PROVIDE SAME.
- MECHANICAL CONTRACTOR TO PROVIDE SOLUTIONS FOR REVIEW TO THE CONSULTANT IF ANY INTERFERENCES OCCUR DUE TO SITE CONDITIONS.
- MECHANICAL CONTRACTOR TO X-RAY SCAN SLAB PRIOR TO CORING.
- SUPPLY AND INSTALL ALL NECESSARY EXPANSION COMPENSATORS, ANCHORS AND ALIGN GUIDES ON ALL HYDRONIC PIPING.
- ALL THERMOSTATS IN PUBLIC AREAS TO BE EITHER BLANK PLATE-TYPE SENSORS OR PROVIDED WITH PROTECTIVE GUARDS.





project legend



1 HVAC PIPING THIRD FLOOR  
M53-03  
SCALE: 1:100

- DRAWING NOTES:**
- 200 HWS UP THROUGH FLOOR TO SERVICE RADIATORS AT LEVEL ABOVE. RE-USE EXISTING FLOOR OPENINGS.
  - 200 HWR DOWN THROUGH FLOOR FROM RADIATORS AT LEVEL ABOVE. RE-USE EXISTING FLOOR OPENINGS.
  - 200 HWS/HWR DOWN TO SERVE RADS.
  - 200 HWR DOWN. RE-USE EXISTING FLOOR OPENING.
  - 200 HWS FROM BELOW. RE-USE EXISTING FLOOR OPENING.
  - 200 HWS/HWR UP TO SERVE THE SERVICE SPACE RADS. CW ISOLATION VALVES LOCATED INSIDE THE T-BAR CEILING SPACE PROVIDE NEW FLOOR OPENINGS. SCAN FLOOR PRIOR TO CORING AND COORDINATE WITH STRUCTURAL.
  - 200 HWS/HWR FROM BELOW. PROVIDE NEW FLOOR OPENINGS. SCAN FLOOR PRIOR TO CORING AND COORDINATE WITH STRUCTURAL. REFER TO IN-FLOOR RADIATOR PIPING DETAIL.
  - FOR HVAC PIPING, PLUMBING PIPING AND HVAC DUCTING WITH RISER SHAFT. REFER TO PART PLAN 4 ON DRAWING M60-01.

- DRAWING NOTES:**
- 320 HWS FROM BELOW.
  - 320 HWR DOWN.
  - 800 CHWS FROM BELOW.
  - 800 CHWS DOWN.
  - LEAVE THIS SECTION BLANK. PROVIDE TRIM ONLY TO COVER THE PIPING.
  - RUN PIPE THROUGH WALL TO SERVICE RADIATOR IN ADJACENT ROOM.

- NOTES:**
- PROVIDE RADIATORS TO MEET THE CAPACITY REQUIREMENTS NOTED ON THE DRAWING AND TO COMPLY WITH DIMENSIONS AND TYPE ACCORDING TO THE SCHEDULE.
  - RADIATORS TO BE CW ALL ACCESSORIES AND TRIMS NECESSARY TO MAINTAIN CONTINUOUS APPEARANCE ALONG EXTERIOR WALLS.
  - INSTALL HWS/HWR PIPING THROUGH EXISTING FLOOR OPENINGS TO SERVICE RADIATORS ON LEVEL ABOVE AS NOTED. PATCH UNUSED FLOOR OPENINGS. PROVIDE SAME END OR OPPOSITE END CONNECTIONS AS NECESSARY TO SUIT INSTALLATION AS SHOWN ON THE DRAWING.
  - PROVIDE CONTROL VALVES FOR RADIATORS IN EACH ZONE. REFER TO RADIATOR PIPING DETAILS FOR CONTROL VALVES LOCATION AND PIPING ARRANGEMENTS.

- GENERAL NOTES:**
- DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL FLOOR PLANS AND SPECIFICATIONS.
  - ALL EXISTING SERVICES SHOWN ARE APPROXIMATE AND BASED ON EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY ALL LOCATIONS ON SITE.
  - CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES INVOLVED ON SITE.
  - ENSURE NOT TO DISTURB SERVICES COVERING AREAS NOT INCLUDED IN THE SCOPE. ALL WORK MUST BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
  - CONTRACTOR SHALL VISIT SITE TO EXAMINE EXISTING CONDITIONS.
  - CONTRACTOR TO PROPOSE SOLUTIONS FOR REVIEW TO THE CONSULTANT IF ANY INTERFERENCES OCCUR DUE TO SITE CONDITIONS.
  - ALL MATERIAL USED IN THE CEILING SPACE (RETURN AIR PLenums) SHALL MEET AND EXCEED THE N.B.C REQUIREMENTS FLAME AND SMOKE SPREAD/DEVELOPMENT RATINGS.
  - CONTRACTOR TO PROVIDE CONNECTION TO RELOCATED EXISTING EQUIPMENT AND ADD NEW EQUIPMENT DIRECTLY TO BUILDING HVAC SYSTEM AND UPDATE THE BMS ARCHITECTURE AS REQUIRED.
  - CONTRACTOR TO REMOVE ALL MECHANICAL EQUIPMENT AND INSTALL NEW EQUIPMENT; SALVAGE AND REINSTALL ONLY WHEN SPECIFICALLY INDICATED.
  - MECHANICAL CONTRACTOR TO X-RAY SCAN SLAB PRIOR TO CORING.
  - SUPPLY AND INSTALL ALL NECESSARY EXPANSION COMPENSATORS, ANCHORS AND ALIGN GUIDES ON ALL HYDRONIC PIPING TO SUIT INSTALLATION. EXPANSION CONTROL SHOWN ON THE DRAWING ONLY SUGGESTS THE DESIGN INTENT.
  - ALL THERMOSTATS IN PUBLIC AREAS TO BE EITHER BLANK PLATE-TYPE SENSORS OR PROVIDED WITH PROTECTIVE GUARDS.

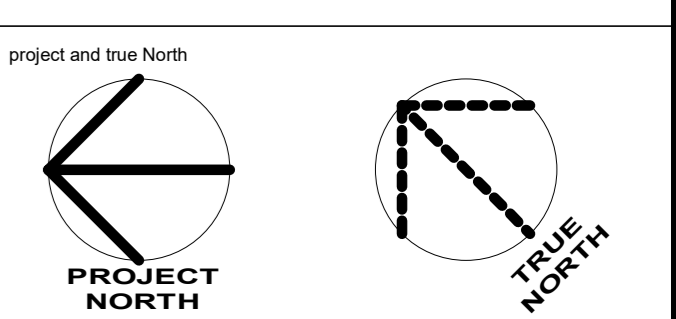
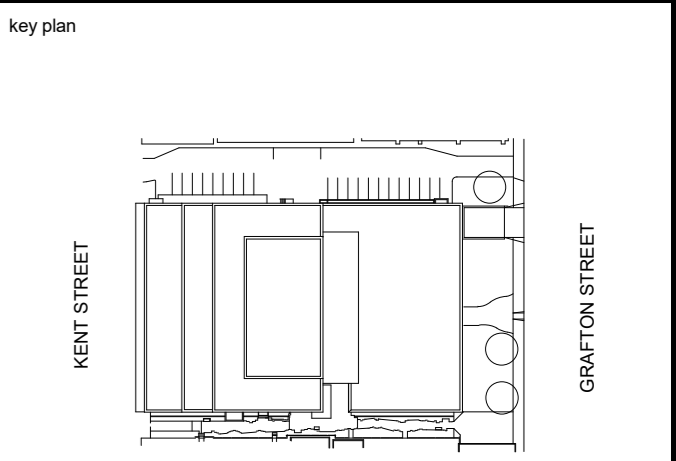
revisions	description	date
2	ADDENDUM #7	2022-07-29
1	ADDENDUM #5	2022-07-29
0	ISSUED FOR TENDER	2022-06-07

project  
**DANIEL J MACDONALD  
MODERNIZATION**

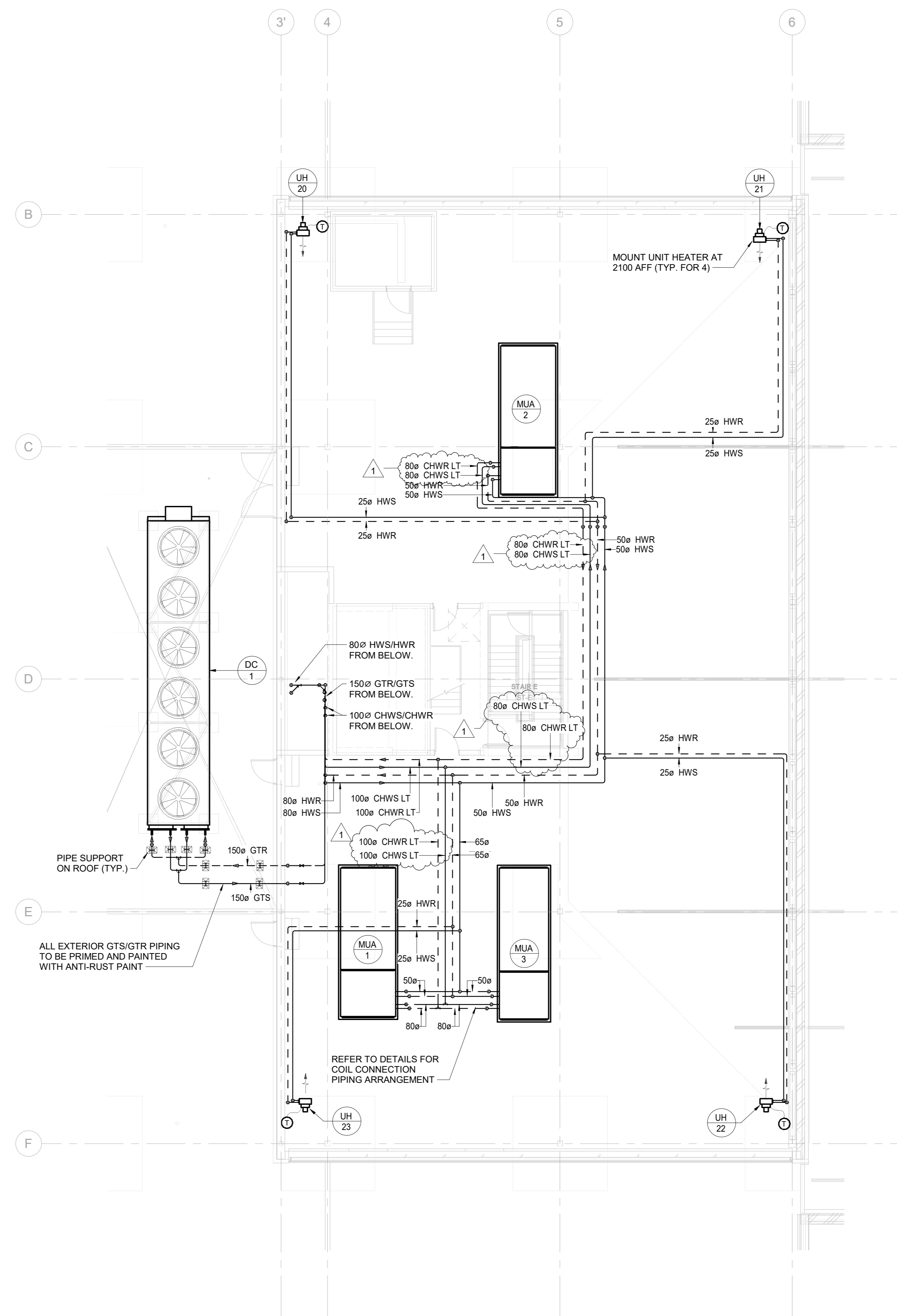
161 GRAFTON STREET  
CHARLOTTETOWN, PEI C1A 1L1

design  
**HYDRONIC - THIRD  
FLOOR NEW WORK**

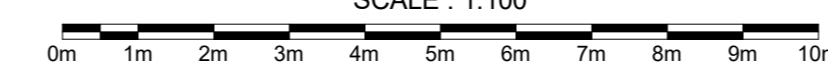
designed	checked	date
NORR	NORR	2020-8-31
NORR	NORR	2020-8-31
NORR	NORR	2022-07-29
Tender	Submission	2022-07-29
PWQSC Project Manager	Administrateur de projets TPQSC	
project number	no. du projet	<b>R.056687.005</b>
drawing no.	no. du dessin	<b>M53-03</b>



project legend



1 HVAC PIPING PENTHOUSE FLOOR  
 M53-06 SCALE: 1:100



- GENERAL NOTES:
- DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL FLOOR PLANS AND SPECIFICATIONS.
  - ALL EXISTING SERVICES SHOWN ARE APPROXIMATE AND BASED ON EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY ALL LOCATIONS ON SITE.
  - CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES INVOLVED ON SITE.
  - ENSURE NOT TO DISTURB SERVICES COVERING AREAS NOT INCLUDED IN THE SCOPE. ALL WORK MUST BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
  - CONTRACTOR SHALL VISIT SITE TO EXAMINE EXISTING CONDITIONS.
  - CONTRACTOR TO PROPOSE SOLUTIONS FOR REVIEW TO THE CONSULTANT IF ANY INTERFERENCES OCCUR DUE TO SITE CONDITIONS.
  - ALL MATERIAL USED IN THE CEILING SPACE (RETURN AIR PLENUM) SHALL MEET AND EXCEED THE N.B.C REQUIREMENTS FLAME AND SMOKE SPREAD/DEVELOPMENT RATINGS.
  - CONTRACTOR TO PROVIDE CONNECTION TO RELOCATED EXISTING EQUIPMENT AND ADDED EQUIPMENT DIRECTLY TO BUILDING HVAC SYSTEM AND UPDATE THE BMS ARCHITECTURE AS REQUIRED.
  - CONTRACTOR TO REMOVE ALL MECHANICAL EQUIPMENT AND INSTALL NEW ONES; SALVAGE AND REINSTALL ONLY WHEN SPECIFICALLY INDICATED.
  - MECHANICAL CONTRACTOR TO X-RAY SCAN SLAB PRIOR TO CORING.
  - SUPPLY AND INSTALL ALL NECESSARY EXPANSION COMPENSATORS, ANCHORS AND ALIGN GUIDES ON ALL HYDRONIC PIPING.

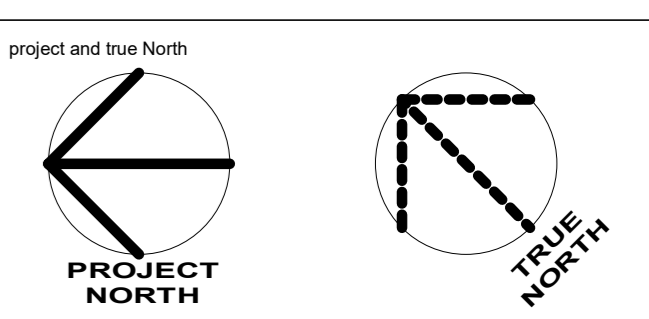
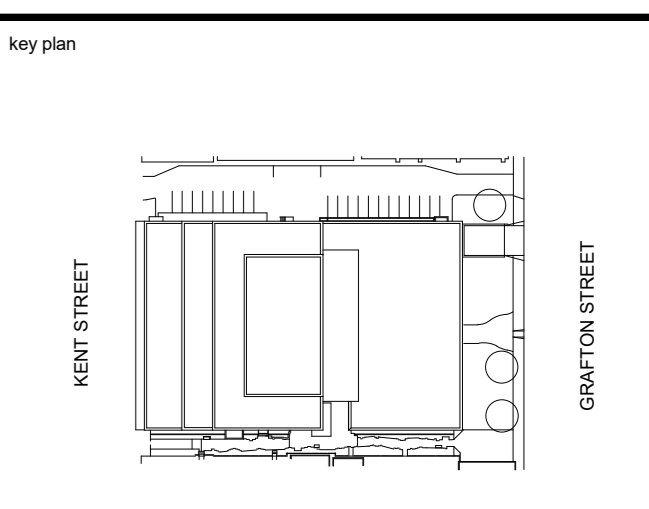
revisions	date
1	2022-08-03
2	2022-08-07

project  
**DANIEL J MACDONALD  
 MODERNIZATION**

161 GRAFTON STREET  
 CHARLOTTETOWN, PEI C1A 1L1

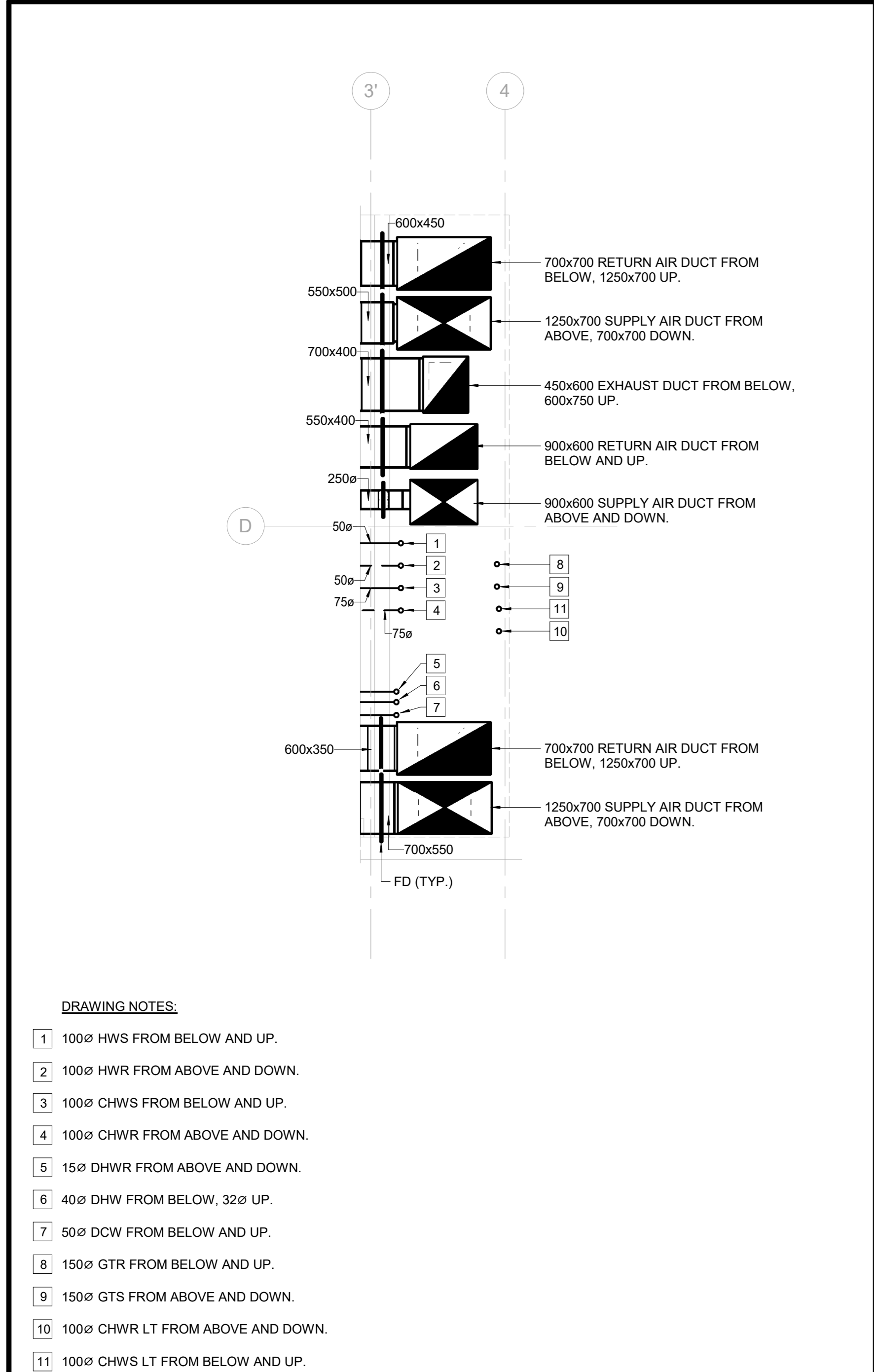
drawing  
**HYDRONIC -  
 PENTHOUSE FLOOR  
 NEW WORK**

designed NORR	conpu
date 2020-8-31	
drawn NORR	dessiné
date 2020-8-31	
approved NORR	approuvé
date 2022-08-03	
Tender	Submission
PWGSC Project Manager	Administrateur de projets TP/SC
project number	no. du projet
<b>R.056687.005</b>	
drawing no.	no. du dessin
<b>M53-06</b>	

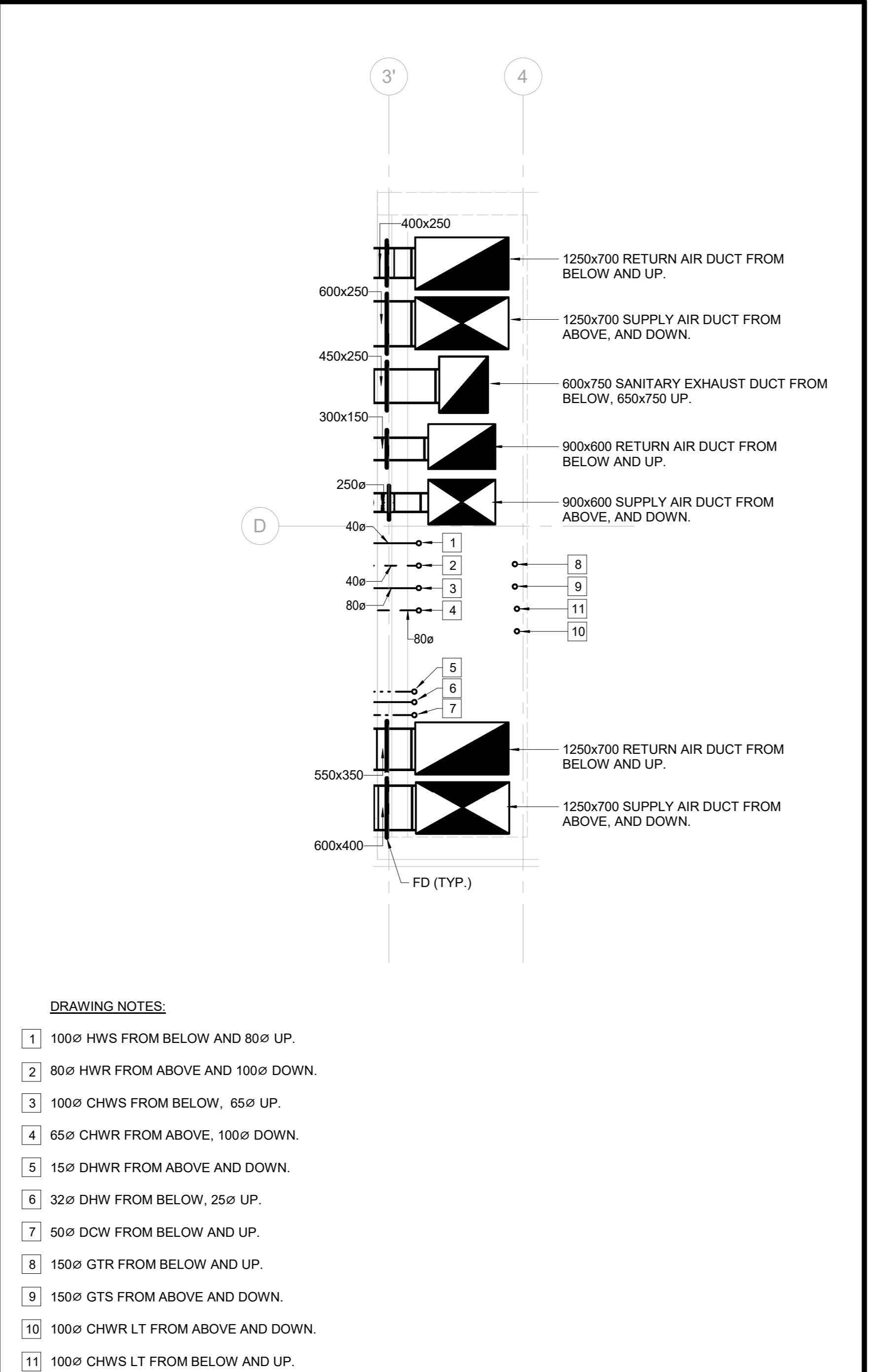


project legend

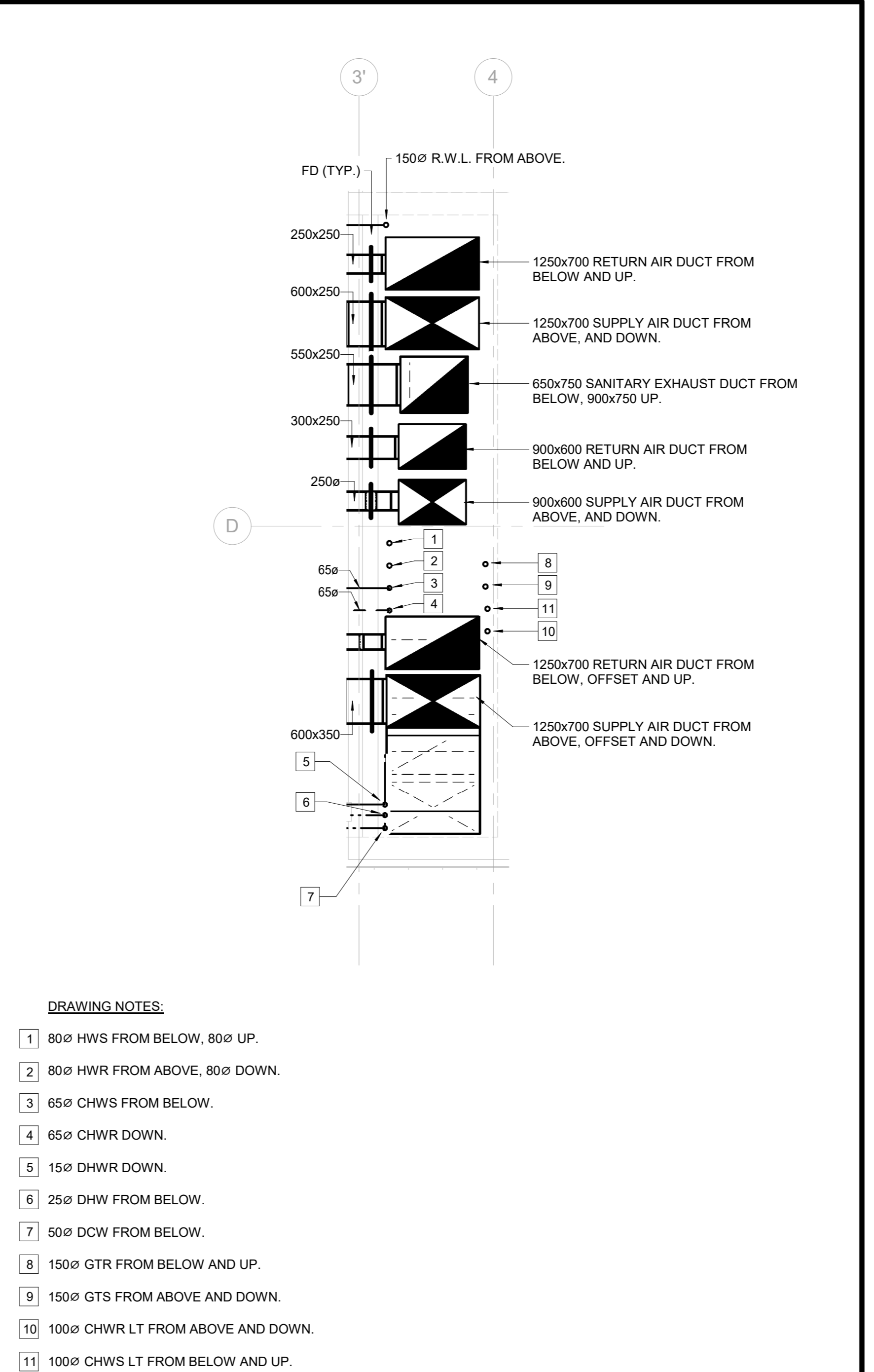
1	80ø HWS FROM BELOW.
2	80ø HWR DOWN.
3	150ø GTR FROM BELOW.
4	150ø GTS DOWN.
5	15ø DHWR DOWN.
6	100ø CHWS LT FROM BELOW.
7	100ø CHWR LT DOWN.



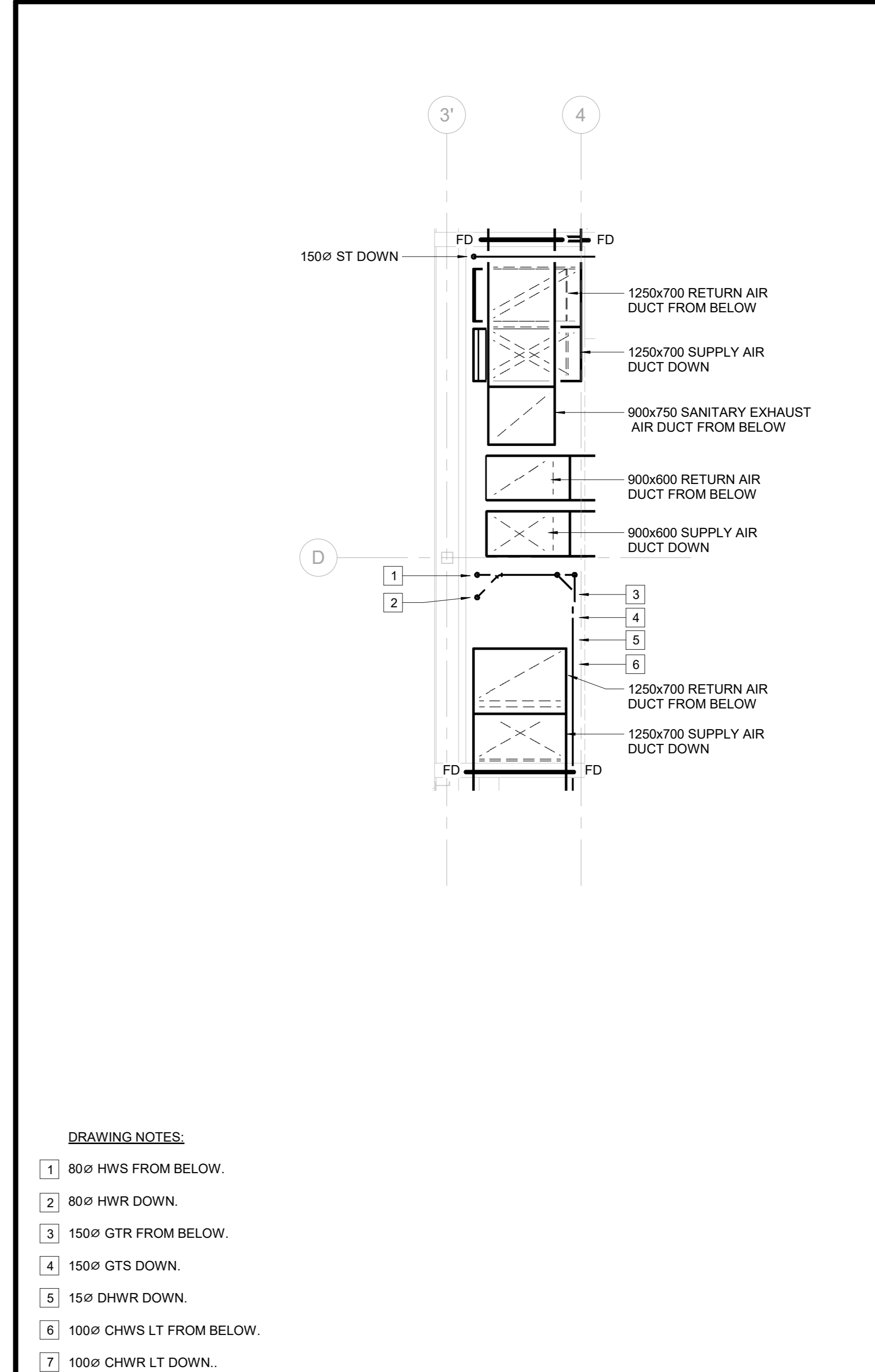
4 THIRD FLOOR MECHANICAL RISER DETAILS  
M60-01 SCALE: 1:50



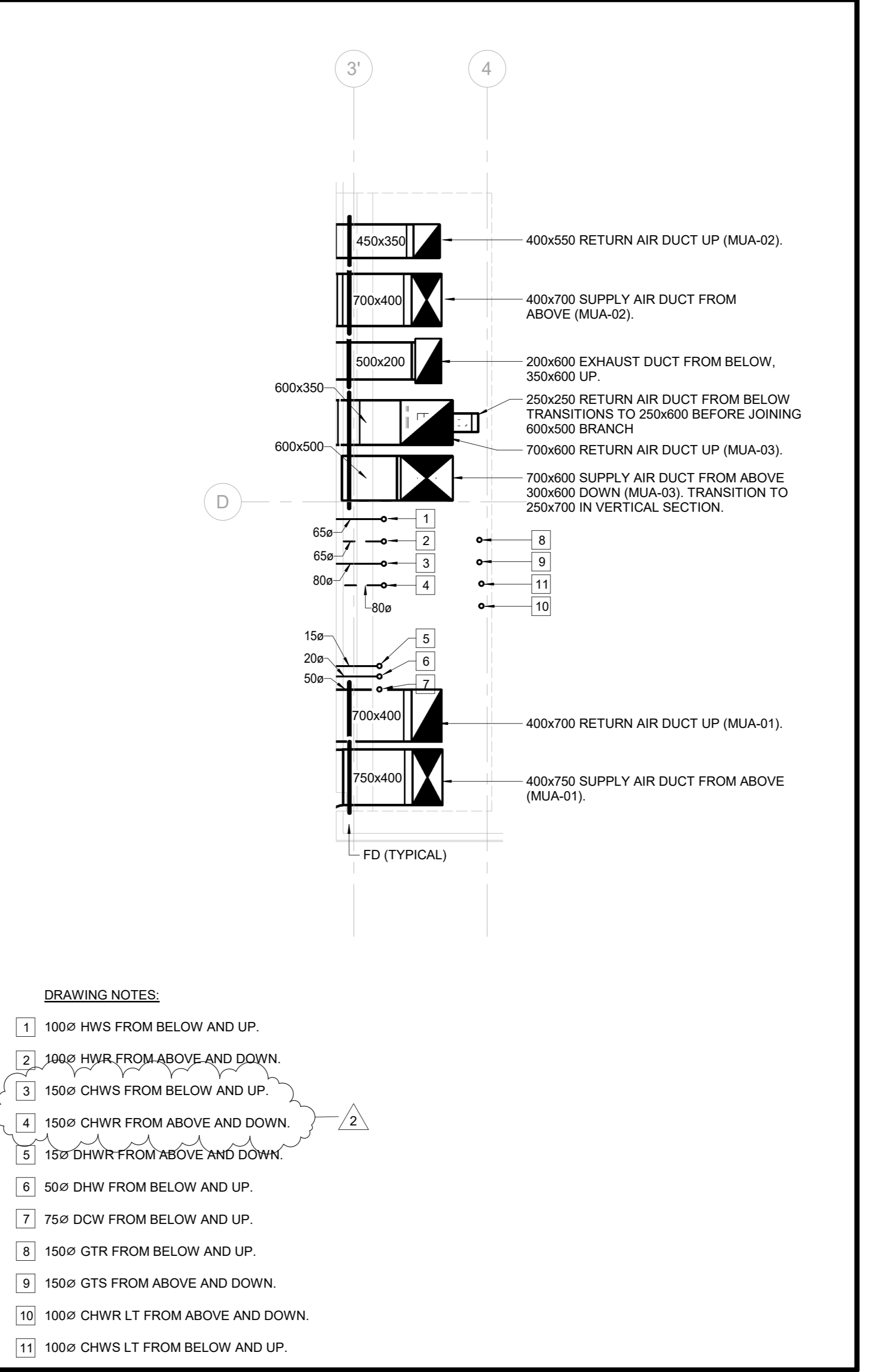
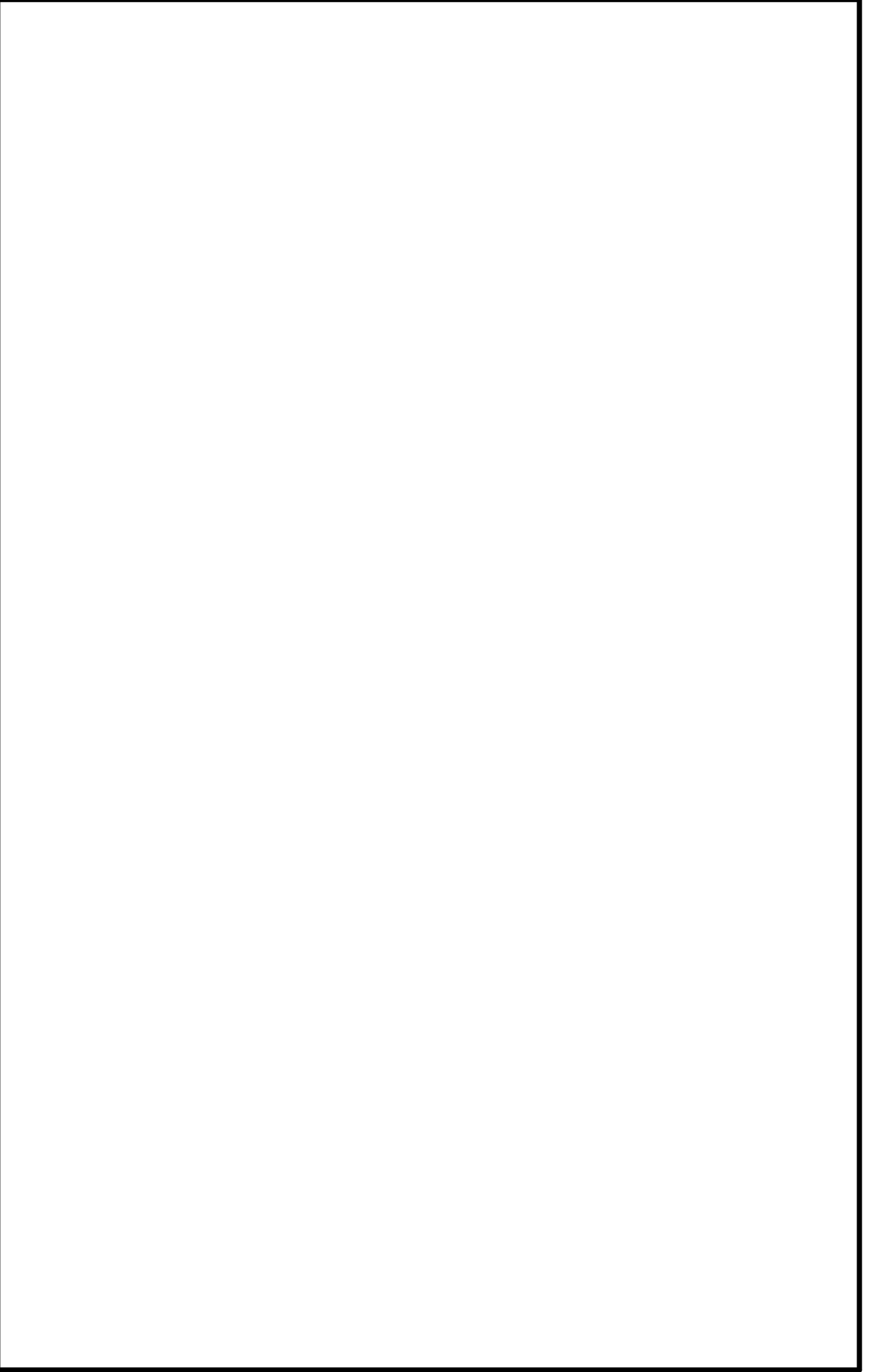
3 FOURTH FLOOR MECHANICAL RISER DETAILS  
M60-01 SCALE: 1:50



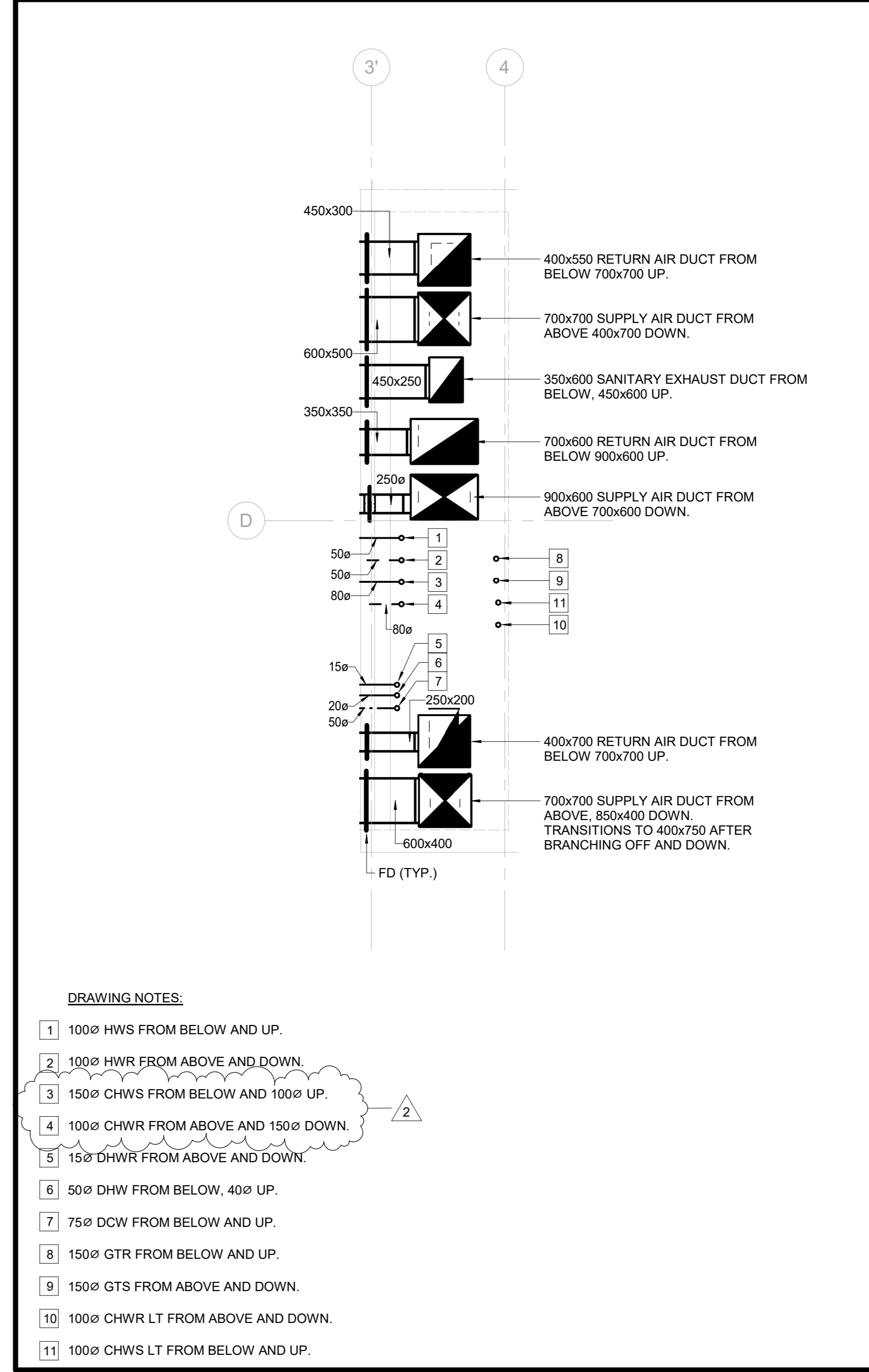
2 FIFTH FLOOR MECHANICAL RISER DETAILS  
M60-01 SCALE: 1:50



1 PENTHOUSE FLOOR MECHANICAL RISER DETAILS  
M60-01 SCALE: 1:50



6 MAIN FLOOR MECHANICAL RISER DETAILS  
M60-01 SCALE: 1:50



5 SECOND FLOOR MECHANICAL RISER DETAILS  
M60-01 SCALE: 1:50

2	ADDENDUM # 7	2022-08-03
1	ADDENDUM # 5	2022-07-25
0	ISSUED FOR TENDER	2022-06-07

revisions	date
-----------	------

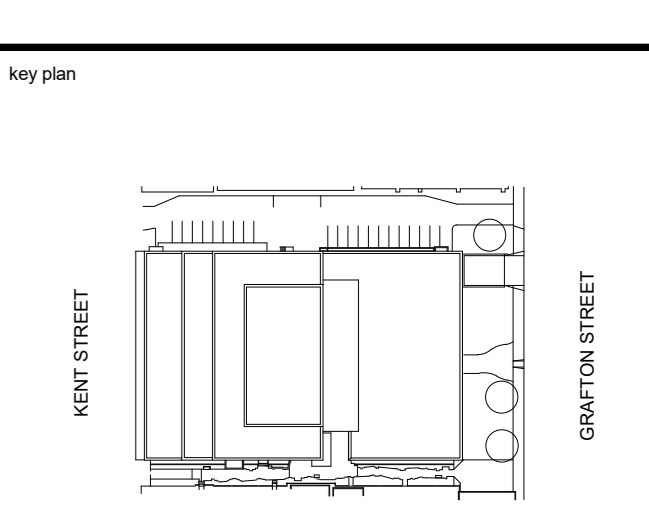
project  
**DANIEL J MACDONALD  
MODERNIZATION**

161 GRAFTON STREET  
CHARLOTTETOWN, PEI C1A 1L1

drawing  
**MECHANICAL RISER  
DETAILS PART PLANS**

designed	NORR	compu
date	2020-8-31	
drawn	NORR	dessiné
date	2020-8-31	
approved	NORR	approuvé
date	2022-08-03	
Tender		Soumission
FWGSC Project Manager	Administrateur de projets TP/SC	
project number		no. du projet
	<b>R.056687.005</b>	

drawing no. M60-01 no. du dessin



project and true North

project legend

revisions	date
1	2022-08-03
0	2020-08-31

project  
**DANIEL J MACDONALD MODERNIZATION**

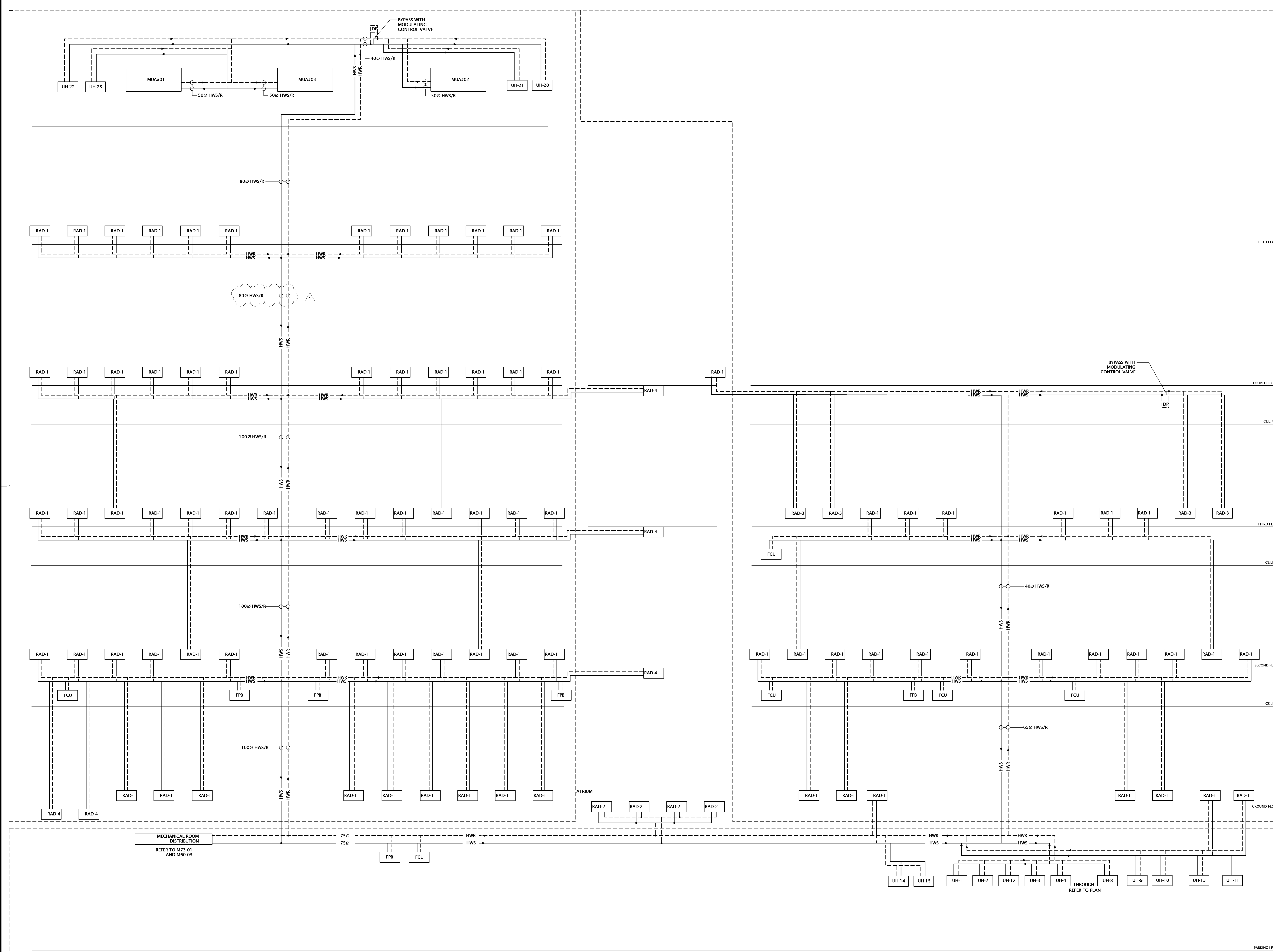
161 GRAFTON STREET  
 CHARLOTTETOWN, PEI C1A 1L1

drawing  
**HYDRONIC DISTRIBUTION - HEATING**

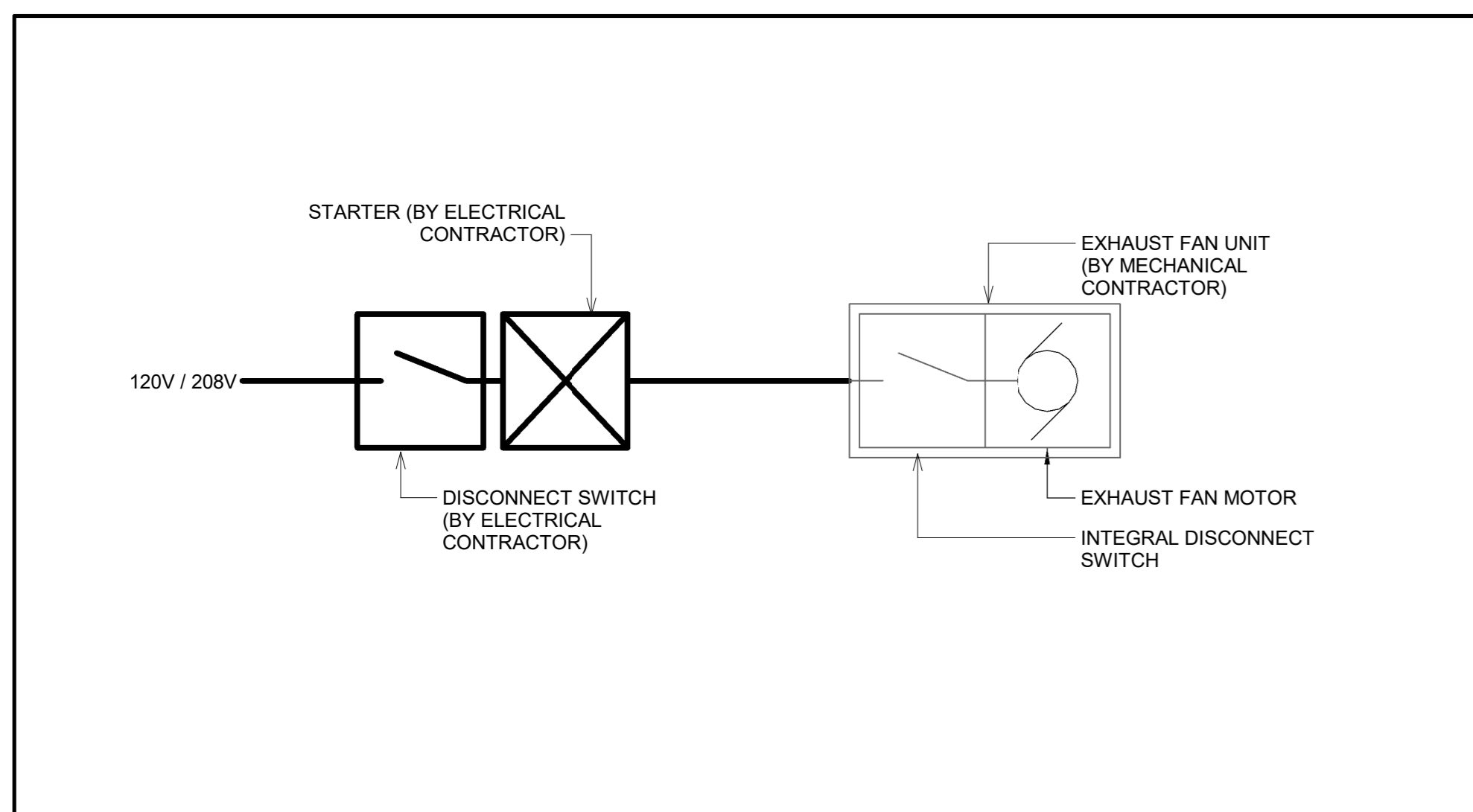
designed NORR	conçu
date 2020-8-31	
drawn NORR	dessiné
date 2020-8-31	
approved NORR	approuvé
date 2022-08-03	
Tender	Submission
PWGS&C Project Manager	Administrateur de projets TP&SC
project number	no. du projet

**R.056687.005**

drawing no. M73-02 no. du dessin



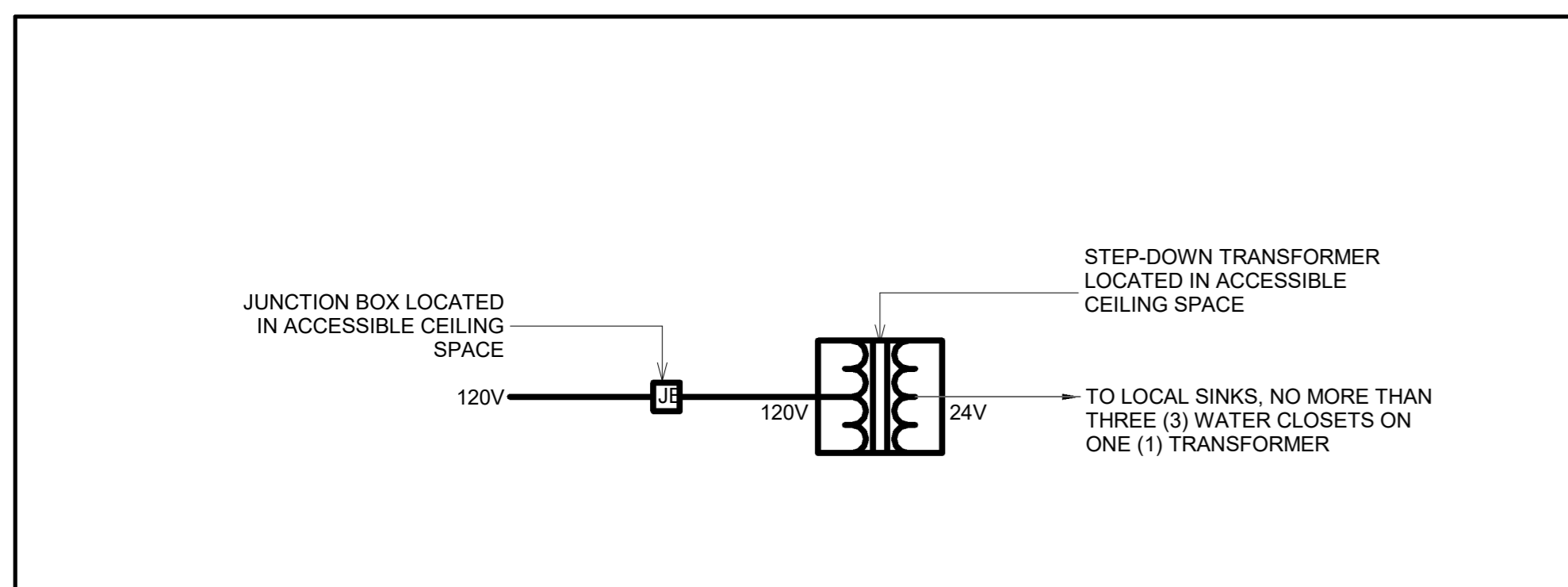
1 HYDRONIC DISTRIBUTION HEATING SCHEMATIC  
 M73-02 N.T.S.



DETAIL NOTES:  
1. ALL EXHAUST FAN UNIT LOCATIONS SHOWN ON POWER AND SYSTEMS LAYOUTS ARE TO BE COVERED BY ARCHITECTURAL AND MECHANICAL PLANS. CONFIRM LOCATIONS OF UNITS PRIOR TO INSTALLATION.

SCOPE OF WORK:  
BY ELECTRICAL CONTRACTOR  
BY MECHANICAL CONTRACTOR

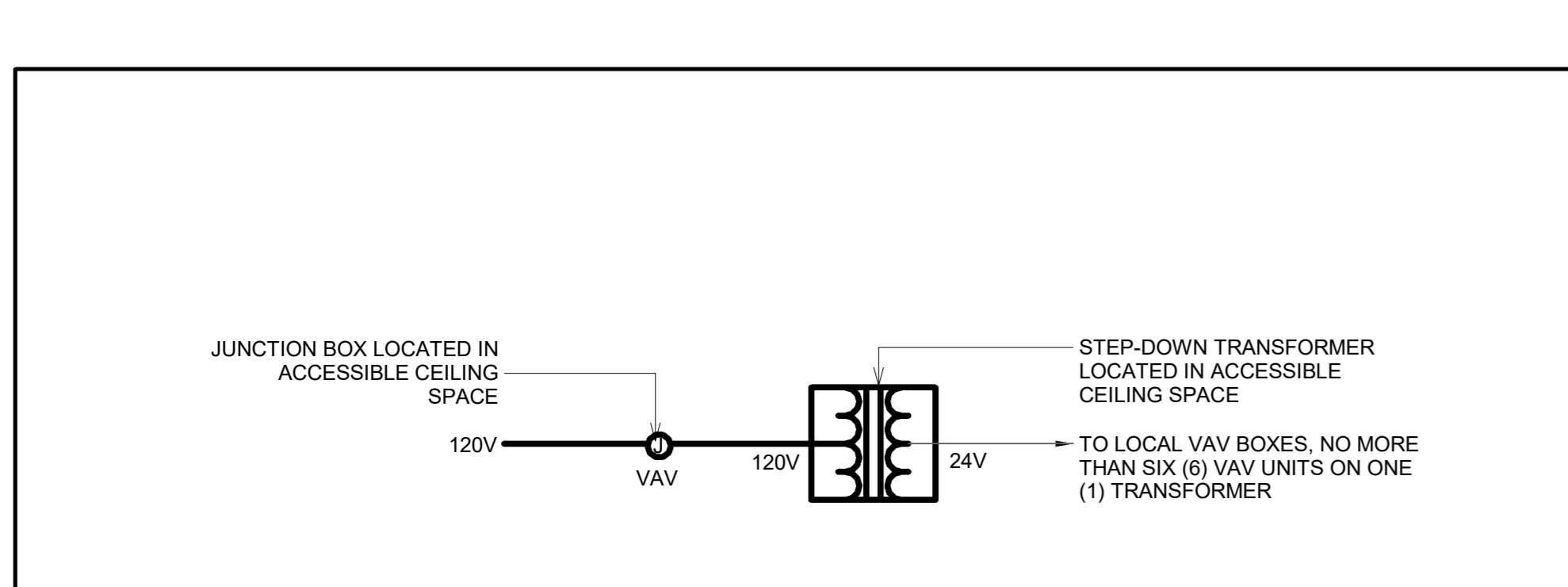
**1 ELECTRICAL CONNECTION TO EXHAUST FANS**  
SCALE: NTS



DETAIL NOTES:  
1. 120V JUNCTION BOX SHALL BE LOCATED IN CLOSE PROXIMITY TO STEP-DOWN TRANSFORMER. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.  
2. ELECTRICAL CONTRACTOR SHALL PROVIDE THE CORRECT NUMBER OF STEP-DOWN TRANSFORMERS TO SUIT THE NUMBER OF SINKS.

SCOPE OF WORK:  
BY ELECTRICAL CONTRACTOR  
BY MECHANICAL CONTRACTOR

**2 ELECTRICAL CONNECTION TO SINKS**  
SCALE: NTS



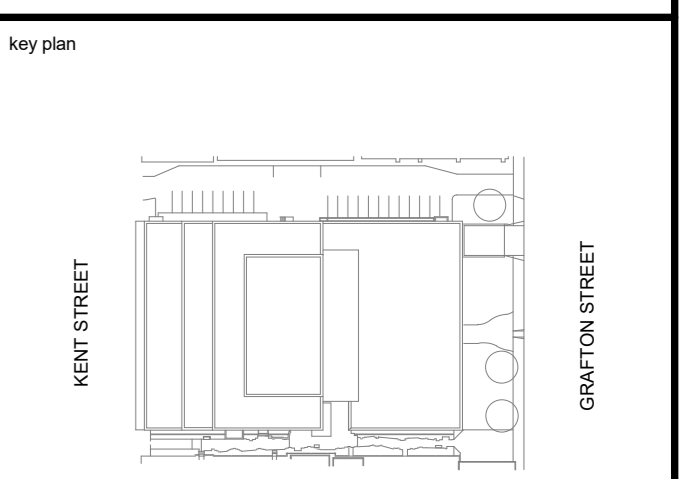
DETAIL NOTES:  
1. 120V JUNCTION BOX SHALL BE LOCATED IN CLOSE PROXIMITY TO STEP-DOWN TRANSFORMER. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.  
2. ELECTRICAL CONTRACTOR SHALL PROVIDE THE CORRECT NUMBER OF STEP-DOWN TRANSFORMERS TO SUIT THE NUMBER OF VAV UNITS.

SCOPE OF WORK:  
BY ELECTRICAL CONTRACTOR  
BY MECHANICAL CONTRACTOR

**3 ELECTRICAL CONNECTIONS TO VAV UNITS**  
SCALE: NTS

**MECHANICAL EQUIPMENT CONNECTIONS SCHEDULE**

MECH ID	GENERAL LOCATION	VOLTAGE	NUMBER OF POLES	HORSEPOWER	FLA	WATTAGE	MOC	FEEDER	PANEL
DC1-1	PENTHOUSE FLOOR (ROOF MECH ROOM 2 B-20)	600 V	3	TBC	70.1	280 KW	30A 3P	3#12AWG-G in 21mmC	DP-PAN1
EB-1	PARKING LEVEL (MEP ROOM 2 B-20)	600 V	3	N/A	251	280 KW	400A 3P	2 RUNS OF (4#10-GND-53mmC)	SWB3-AAA
EB-2	PARKING LEVEL (MEP ROOM 2 B-20)	600 V	3	N/A	251	280 KW	400A 3P	2 RUNS OF (4#10-GND-53mmC)	SWB3-AAA
HUM-01	MAIN FLOOR (JANITOR ROOM 1-73)	600 V	3	N/A	3.6		15A 3P	4#12AWG-G in 21mmC	DP-1CN
MJA-01	PENTHOUSE FLOOR (MECH ROOM-1 6-01)	600 V	3	N/A	3.3		60A 3P	4#12AWG-G in 21mmC	DP-PAN
MJA-02	PENTHOUSE FLOOR (MECH ROOM-1 6-01)	600 V	3	N/A	3.3		60A 3P	4#12AWG-G in 21mmC	DP-PAN
MJA-03	PENTHOUSE FLOOR (MECH ROOM-1 6-01)	600 V	3	N/A	17.8		30A 3P	4#12AWG-G in 21mmC	DP-PAN
DF-1	FIFTH FLOOR (ATRIUM 2 1-95-2)	208 V	3	2.0	7		15A 3P	3#12AWG-G in 21mmC	RP-SAN3
DF-2	FIFTH FLOOR (ATRIUM 2 1-95-2)	208 V	3	2.0	7		15A 3P	3#12AWG-G in 21mmC	RP-SAN3
EF-1	PARKING LEVEL (MEP ROOM 4 B-17)	600 V	3	2.0	2.7		15A 3P	3#12AWG-G in 21mmC	DP-BAX
EF-2	PARKING LEVEL (BIKE STORAGE B-16)	600 V	3	3.9	3.9		15A 3P	3#12AWG-G in 21mmC	DP-BAX
EF-3	PENTHOUSE FLOOR (MECH ROOM-1 6-01)	600 V	3	7.3	9		20A 3P	3#12AWG-G in 21mmC	DP-PAN
EF-4	PENTHOUSE FLOOR (ELEVATORS 1 & 2 E-01)	120 V	1	1/2	9.8		25A 3P	2#12AWG-G in 21mmC	RP-PAN
EF-5	FIFTH FLOOR (CORRIDOR 3-45)	120 V	1	1/2	1.5		15A 1P	2#12AWG-G in 21mmC	RP-2AN3
EF-6	PARKING LEVEL (EXISTING EQUIPMENT ROOM B-13)	120 V	1	1/4	5.8		15A 1P	2#12AWG-G in 21mmC	RP-BAN
EF-7	MAIN FLOOR (ELEC. CLOSET 1-13)	120 V	1	1/2	3.5		15A 1P	2#12AWG-G in 21mmC	RP-1AN3
EF-8	MAIN FLOOR (ELEC. CLOSET 1-98)	120 V	1	1/2	3.5		15A 1P	2#12AWG-G in 21mmC	RP-1AN3
EF-9	SECOND FLOOR (ELEC. CLOSET 2-36)	120 V	1	1/2	3.5		15A 1P	2#12AWG-G in 21mmC	RP-2AN3
EF-10	SECOND FLOOR (ELEC. CLOSET 2-31)	120 V	1	1/2	3.5		15A 1P	2#12AWG-G in 21mmC	RP-2AN3
EF-11	THIRD FLOOR (ELEC. CLOSET 3-28)	120 V	1	1/2	3.5		15A 1P	2#12AWG-G in 21mmC	RP-3AN3
EF-12	THIRD FLOOR (ELEC. CLOSET 3-23)	120 V	1	1/2	3.5		15A 1P	2#12AWG-G in 21mmC	RP-3AN3
EF-13	FOURTH FLOOR (ELEC. CLOSET 4-28)	120 V	1	1/2	3.5		15A 1P	2#12AWG-G in 21mmC	RP-4AN3
EF-14	FOURTH FLOOR (ELEC. CLOSET 4-23)	120 V	1	1/2	3.5		15A 1P	2#12AWG-G in 21mmC	RP-4AN3
EF-15	FIFTH FLOOR (ELEC. CLOSET 5-32)	120 V	1	1/2	3.5		15A 1P	2#12AWG-G in 21mmC	RP-5AN3
EF-16	FIFTH FLOOR (ELEC. CLOSET 5-11)	120 V	1	1/2	3.5		15A 1P	2#12AWG-G in 21mmC	RP-5AN3
RCF-1	PARKING LEVEL (PARKING AREA B-30)	600 V	3	1/4	1.3		15A 3P	3#12AWG-G in 21mmC	DP-BAX
RCF-2	PARKING LEVEL (PARKING AREA B-30)	600 V	3	1/4	1.3		15A 3P	3#12AWG-G in 21mmC	DP-BAX
RCF-3	PARKING LEVEL (PARKING AREA B-30)	600 V	3	1/4	1.3		15A 3P	3#12AWG-G in 21mmC	DP-BAX
SF-1	PARKING LEVEL (MEP ROOM 2 B-20)	600 V	3	2.0	2.7		15A 3P	3#12AWG-G in 21mmC	DP-BAX
FCU-01	PARKING LEVEL (COMMEMORATION STORAGE B-22)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-BAN
FCU-02	MAIN FLOOR (FOCUS ROOM 1-50B)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-1AN3
FCU-03	MAIN FLOOR (CORRIDOR 1-26)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-1AN3
FCU-04	MAIN FLOOR (OFFICE LEGAL ADVISORY OPEN WORKSPACE 1-54)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-1AN3
FCU-05	PARKING LEVEL (MEP ROOM 1 B-24)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-1AN3
FCU-06	MAIN FLOOR (MUSEUM 1-77)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-1CN3
FCU-07	MAIN FLOOR (CORRIDOR 1-81)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-1CN3
FCU-08	SECOND FLOOR (LOCKERS 2-05)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-2AN3
FCU-09	SECOND FLOOR (LOCKERS 2-05)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-2AN3
FCU-10	SECOND FLOOR (CORRIDOR 2-53)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-2CN3
FCU-11	SECOND FLOOR (BPA HD FILING 2-80)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-2CN3
FCU-12	THIRD FLOOR (LOCKERS 3-05)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-3AN3
FCU-13	THIRD FLOOR (LOCKERS 3-05)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-3AN3
FCU-14	THIRD FLOOR (CORRIDOR 3-69)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-3CN3
FCU-15	THIRD FLOOR (CORRIDOR 3-65)	120 V	1	N/A	3.5		15A 1P	2#12AWG-G in 21mmC	RP-3CN3
FCU-16	FOURTH FLOOR (LOCKERS 4-05)	120 V	1	N/A	3.5		15A 1P	2#12AWG-G in 21mmC	RP-4AN3
FCU-17	FOURTH FLOOR (LOCKERS 4-05)	120 V	1	N/A	3.5		15A 1P	2#12AWG-G in 21mmC	RP-4AN3
FCU-18	FIFTH FLOOR (MINISTER'S OFFICE 5-04)	120 V	1	N/A	3.5		15A 1P	2#12AWG-G in 21mmC	RP-5AN3
FCU-19	FIFTH FLOOR (CORRIDOR 5-22)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-5AN3
FCU-20	MAIN FLOOR (CORRIDOR 1-81)	120 V	1	N/A	13.6		35A 1P	2#10AWG-G in 21mmC	RP-1CN3
FCU-21	MAIN FLOOR (CORRIDOR 1-81)	120 V	1	N/A	13.6		35A 1P	2#10AWG-G in 21mmC	RP-1CN3
FCU-22	MAIN FLOOR (CORRIDOR 1-81)	120 V	1	N/A	13.6		35A 1P	2#10AWG-G in 21mmC	RP-1CN3
FCU-23	MAIN FLOOR (LOADING DOCK 1-62)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-1AN3
FCU-24	MAIN FLOOR (LOADING DOCK 1-74)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-1AN3
FCU-25	MAIN FLOOR (LOADING DOCK 1-62)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-1AN3
FCU-26	PARKING LEVEL (BGIS STORAGE B-21)	120 V	1	N/A	12		30A 1P	2#12AWG-G in 21mmC	RP-BAN
FCU-27	MAIN FLOOR (CORRIDOR 1-26)	120 V	1	N/A	6		15A 1P	2#12AWG-G in 21mmC	RP-1AN3
FCU-28	MAIN FLOOR (LOADING DOCK 1-62)	120 V	1	N/A	6		15A 1P	2#12AWG-G in 21mmC	RP-1AN3
FCU-29	MAIN FLOOR (MUSEUM 1-77)	120 V	1	N/A	12		30A 1P	2#12AWG-G in 21mmC	RP-1CN3
FCU-30	SECOND FLOOR (OPEN WORKSPACE 2-77)	120 V	1	N/A	6.2		15A 1P	2#12AWG-G in 21mmC	RP-2CN3
FCU-33	MAIN FLOOR (MUSEUM 1-77)	120 V	1	N/A	3.1		15A 1P	2#12AWG-G in 21mmC	RP-1CN3
FFH-01	MAIN FLOOR (VESTIBULE 1-33)	120 V	1	N/A	1.9		15A 1P	2#12AWG-G in 21mmC	RP-1AN3
FFH-02	MAIN FLOOR (VESTIBULE 1-33)	120 V	1	N/A	1.9		15A 1P	2#12AWG-G in 21mmC	RP-1AN3
FFH-03	MAIN FLOOR (VESTIBULE 1-82)	120 V	1	N/A	1.9		15A 1P	2#12AWG-G in 21mmC	RP-1CN3
FFH-04	MAIN FLOOR (STAIR C-1 ST-C-1)	120 V	1	N/A	1.9		15A 1P	2#12AWG-G in 21mmC	RP-1CN3
FFH-05	PARKING LEVEL (STAIR E-ST-E)	120 V	1	N/A	1.9		15A 1P	2#12AWG-G in 21mmC	RP-BAN
FFH-06	MAIN FLOOR (STAIR A-1 ST-A-1)	120 V	1	N/A	1.9		15A 1P	2#12AWG-G in 21mmC	RP-1AN3
FFH-07	MAIN FLOOR (STAIR B-1 ST-B-1)	120 V	1	N/A	1.9		15A 1P	2#12AWG-G in 21mmC	RP-1AN3
FPB-01	MAIN FLOOR (CORRIDOR 1-26)	120 V	1	N/A	7.5		20A 1P	2#12AWG-G in 21mmC	RP-1AN3
FPB-02	MAIN FLOOR (CORRIDOR 1-87)	120 V	1	N/A	7.5		20A 1P	2#12AWG-G in 21mmC	RP-1AN3
FPB-03	MAIN FLOOR (CORRIDOR 1-87)	120 V	1	N/A	7.5		20A 1P	2#12AWG-G in 21mmC	RP-1CN3
FPB-04	MAIN FLOOR (CORRIDOR 1-81)	120 V	1	N/A	7.5		20A 1P	2#12AWG-G in 21mmC	RP-1CN3
FPB-05	MAIN FLOOR (CORRIDOR 1-65)	120 V	1	N/A	7.5		20A 1P	2#12AWG-G in 21mmC	RP-1CN3
FPB-07	MAIN FLOOR (CORRIDOR 1-26)	120 V	1	N/A	6.5		15A 1P	2#12AWG-G in 21mmC	RP-1AN3
FPB-08	MAIN FLOOR (KITCHENETTE/ LOUNGE 1-86)	120 V	1	N/A	9.5		25A 1P	2#12AWG-G in 21mmC	RP-1AN3
FPB-09	MAIN FLOOR (CORRIDOR 1-26)	120 V	1	N/A	9.5		25A 1P	2#12AWG-G in 21mmC	RP-1AN3
FPB-10	MAIN FLOOR (CORRIDOR 1-26)	120 V	1	N/A	9.5		25A 1P	2#12AWG-G in 21mmC	RP-1AN3
FPB-11	MAIN FLOOR (KITCHENETTE/ LOUNGE 1-88)	120 V	1	N/A	6.5		15A 1P	2#12AWG-G in 21mmC	RP-1CN3
FPB-12	MAIN FLOOR (KITCHENETTE/ LOUNGE 1-20)	120 V	1	N/A	7.5		20A 1P	2#12AWG-G in 21mmC	RP-1AN3
FPB-13	PARKING LEVEL (COMMEMORATION STORAGE B-22)	120 V	1	N/A	7.5		20A 1P	2#12AWG-G in 21mmC	RP-BAN
FPB-14	SECOND FLOOR (CORRIDOR 2-53)	120 V	1	N/A	7.5		20A 1P	2#12AWG-G in 21mmC	RP-2AN3
FPB-15	SECOND FLOOR (KITCHENETTE/ LOUNGE 2-07)	120 V	1	N/A	6.5		15A 1P	2#12AWG-G in 21mmC	RP-2AN3
FPB-16	SECOND FLOOR (CORRIDOR 2-53)	120 V	1	N/A	7.5		20A 1P	2#12AWG-G in 21mmC	RP-2CN3
FPB-17	SECOND FLOOR (KITCHENETTE/ LOUNGE 2-70)	120 V	1	N/A	6.5		15A 1P	2#12AWG-G in 21mmC	RP-2CN3
FPB-19	THIRD FLOOR (KITCHENETTE/ LOUNGE 3-77)	120 V	1	N/A	6.5		15A 1P	2#12AWG-G in 21mmC	RP-3CN3
FPB-20	THIRD FLOOR (LOCKERS 3-22)	120 V	1	N/A	7.5		20A 1P	2#12AWG-G in 21mmC	RP-3AN3
FPB-21	THIRD FLOOR (KITCHENETTE/ LOUNGE 3-07)	120 V	1	N/A	6.5		15A 1P	2#12AWG-G in 21mmC	RP-3AN3
FPB-22	THIRD FLOOR (CORRIDOR 3-45)	120 V	1	N/A	7.5		20A 1P	2#12AWG-G in 21mmC	RP-3CN3
FPB-22	FOURTH FLOOR (LOCKERS 4-22)	120 V	1	N/A	7.5		20A 1P	2#12AWG-G in 21mmC	RP-4AN3
FPB-23	FOURTH FLOOR (KITCHENETTE/ LOUNGE 4-07)	120 V	1	N/A	6.5		15A 1P	2#12AWG-G in 21mmC	RP-4AN3
FPB-24	FIFTH FLOOR (LOCKERS 5-29)	120 V	1	N/A	7.5		20A 1P	2#12AWG-G in 21mmC	RP-5AN3
FPB-25	FIFTH FLOOR (KITCHENETTE/ LOUNGE 5-09)	120 V	1	N/A	6.5		15A 1P	2#12AWG-G in 21mmC	RP-5AN3
DHWP-1	PARKING LEVEL (MEP ROOM 2 B-20)	600 V	3	N/A	14.2		30A 3P	3#12AWG-G in 21mmC	DP-BAN2
DHWP-2	PARKING LEVEL (MEP ROOM 2 B-20)	600 V	3	N/A	14.2		30A 3P	3#12AWG-G in 21mmC	DP-BAN2
HRCH-01	PARKING LEVEL (MEP ROOM 2 B-20)	600 V	3	N/A	171	129 KW	250A 3P	3#25MCM-G in 63mmC	DP-BAN
HRCH-02	PARKING LEVEL (MEP ROOM 2 B-20)	600 V	3	N/A	171	129 KW	250A 3P	3#25MCM-G in 63mmC	DP-BAN
P-1	PARKING LEVEL (MEP ROOM 2 B-20)								



Project and Site North

Project Legend

1	ADDENDUM # 7	2022-08-03
2	ISSUED FOR TENDER	2022-08-07

revisions

DATE

PROJECT  
**DANIEL J MACDONALD  
MODERNIZATION**

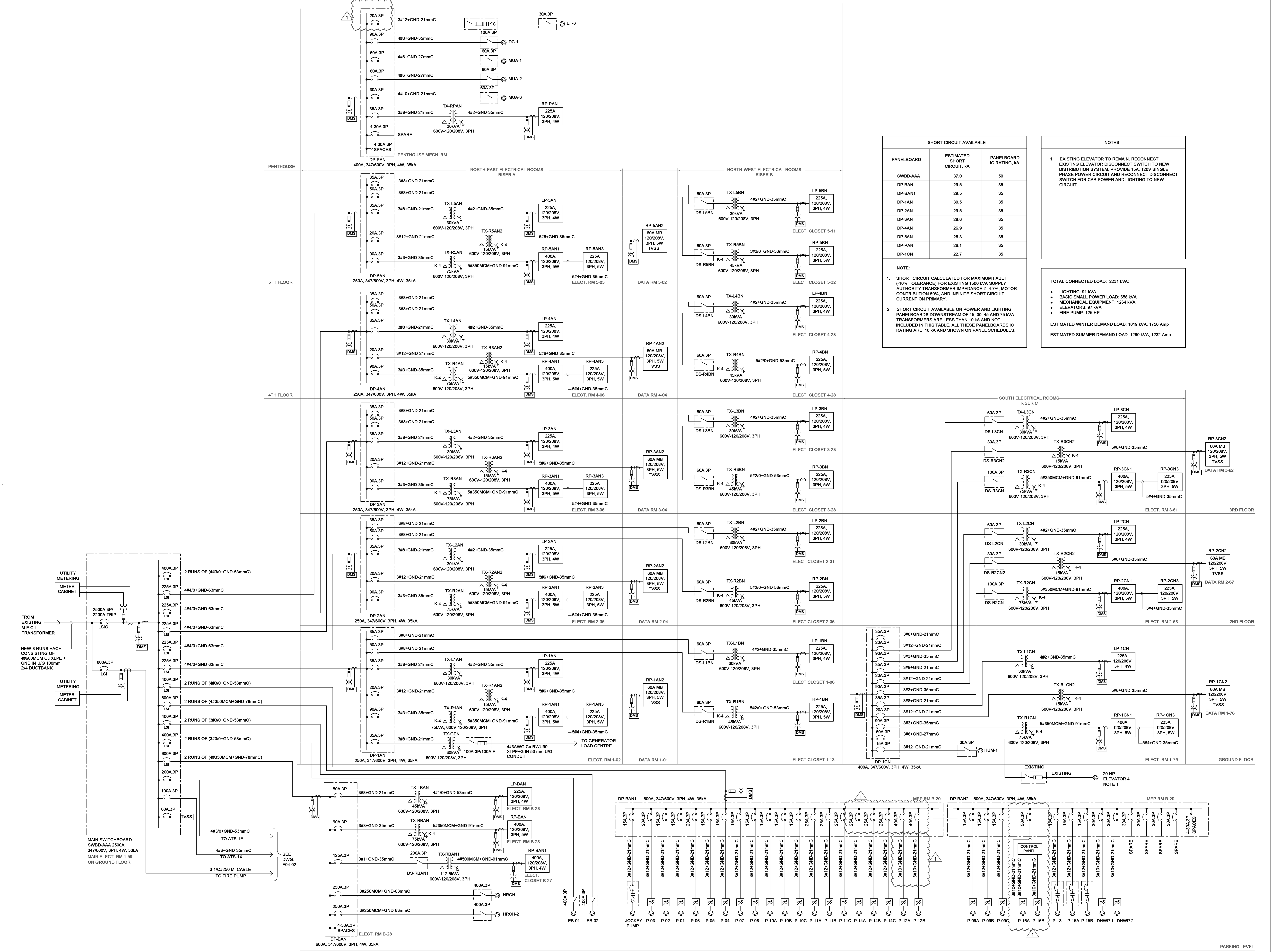
161 GRAFTON STREET  
CHARLOTTETOWN, PEI C1A 1L1

design  
**SINGLE LINE DIAGRAM  
- NORMAL POWER**

designed	NORR	compu
date	19/12/18	
drawn	NORR	dessiné
date	19/12/18	
approved SR		approuvé
date	2022-08-03	
Tender		Soumission
PWGC Project Manager	Administrateur de projets TPSC	no. du projet
project number		

R.056687.005

drawing no. E04-01 no. du dessin



PANELBOARD	ESTIMATED SHORT CIRCUIT, KA	PANELBOARD IC RATING, KA
SWBD-AAA	37.0	50
DP-BAN	29.5	35
DP-BAN1	29.5	35
DP-1AN	30.5	35
DP-2AN	29.5	35
DP-3AN	28.6	35
DP-4AN	26.9	35
DP-SAN	26.3	35
DP-PAN	26.1	35
DP-1CN	22.7	35

**NOTES**

1. EXISTING ELEVATOR TO REMAIN. RECONNECT EXISTING ELEVATOR DISCONNECT SWITCH TO NEW DISTRIBUTION SYSTEM. PROVIDE 15A, 120V SINGLE PHASE POWER CIRCUIT AND RECONNECT DISCONNECT SWITCH FOR CAB POWER AND LIGHTING TO NEW CIRCUIT.

**TOTAL CONNECTED LOAD: 2231 kVA:**

- LIGHTING: 91 kVA
- BASIC SMALL POWER LOAD: 658 kVA
- MECHANICAL EQUIPMENT: 1284 kVA
- ELEVATORS: 97 kVA
- FIRE PUMP: 125 HP

ESTIMATED WINTER DEMAND LOAD: 1819 kVA, 1750 Amp  
ESTIMATED SUMMER DEMAND LOAD: 1280 kVA, 1232 Amp

**NOTE:**

1. SHORT CIRCUIT CALCULATED FOR MAXIMUM FAULT (10% TOLERANCE) FOR EXISTING 1500 kVA SUPPLY AUTHORITY TRANSFORMER IMPEDANCE 2-4.7%, MOTOR CONTRIBUTION 50%, AND INFINITE SHORT CIRCUIT CURRENT ON PRIMARY.

2. SHORT CIRCUIT AVAILABLE ON POWER AND LIGHTING PANELBOARDS DOWNSTREAM OF 15, 30, 45 AND 75 kVA TRANSFORMERS ARE LESS THAN 10 kA AND NOT INCLUDED IN THIS TABLE. ALL THESE PANELBOARDS IC RATING ARE 10 kA AND SHOWN ON PANEL SCHEDULES.

1 SINGLE LINE DIAGRAM - NORMAL POWER  
E04-01 N.T.S.