

## HVAC SYMBOLS

	RECTANGULAR DUCT
	EXTERIOR DUCT INSULATION
	RECTANGULAR DUCT (WITH ACOUSTIC INSULATION)
	ROUND DUCT
	PARALLEL BLADE DAMPER
	OPPOSED BLADE DAMPER
	DOUBLE LINE DUCT INCLINE
	SQUARE ELBOW TURN (SUPPLY UP/DOWN)
	SQUARE ELBOW TURN (RETURN UP/DOWN)
	SQUARE ELBOW TURN (EXHAUST UP/DOWN)
	SQUARE ELBOW TURN (INTAKE UP/DOWN)
	ELBOW, ROUND, SMOOTH RADIUS (UP/DOWN)
	TEE, 45 DEG., RECTANGULAR MAN AND BRANCH
	TEE, 45 DEG., RECTANGULAR MAN AND BRANCH, SQUARE TO ROUND
	TEE, 45 DEG., ROUND MAN AND BRANCH
	CONICAL WYE, 45 DEG., ROUND MAN AND BRANCH
	ELBOW, RECTANGULAR, SMOOTH RADIUS WITH SPLITTER VANES (0.25 R/W DEFAULT)
	ELBOW, RECTANGULAR, SMOOTH RADIUS WITHOUT VANES (1.5 R/W DEFAULT)
	ELBOW, ROUND, SMOOTH RADIUS (1.5 R/W DEFAULT)
	ELBOW, RECTANGULAR MITERED WITH TURNING VANES
	ELBOW, 90 DEG., RECTANGULAR TEE
	TEE, 45 DEG., RECTANGULAR WYE
	TEE, 45 DEG., RECTANGULAR WYE, CONICAL
	TEE, 45 DEG., RECTANGULAR WYE, ROUND
	TRANSITION, RECTANGULAR, PYRAMIDAL (30° CONTRACTURAL ANGLE DEFAULT)
	TRANSITION, RECTANGULAR, SIDE (30° CONTRACTURAL ANGLE DEFAULT)

	FIRE SMOKE DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	DUCT MOUNTED SMOKE SENSOR
	SINGLE-LINE DUCT INCLINE
	SINGLE-LINE DUCT BRANCH
	SINGLE-LINE DUCT TAKEOFF
	DUCT CAP
	DUCT BREAK
	SINGLE-LINE SUPPLY OR RETURN DUCT
	SINGLE-LINE EXHAUST DUCT
	HUMIDISTAT
	FLEX DUCT (DOUBLE LINE)
	FLEX DUCT (SINGLE LINE)
	WALL MOUNTED GRILLE/REGISTER
	LINEAR DIFFUSER
	SINGLE SLOT TROFFER
	DOUBLE SLOT TROFFER
	CEILING DIFFUSER 600x600/300x300
	AIR FLOW ARROWS
	SINGLE LINE CRITICAL ENVIRONMENT TERMINAL AIR UNIT
	200mm CRITICAL ENVIRONMENT TERMINAL AIR UNIT
	250mm CRITICAL ENVIRONMENT TERMINAL AIR UNIT
	300mm CRITICAL ENVIRONMENT TERMINAL AIR UNIT
	2-250mm CRITICAL ENVIRONMENT TERMINAL AIR UNIT
	2-300mm CRITICAL ENVIRONMENT TERMINAL AIR UNIT
	3-300mm CRITICAL ENVIRONMENT TERMINAL AIR UNIT
	4-300mm CRITICAL ENVIRONMENT TERMINAL AIR UNIT

	DOMES EXHAUST FAN (ROOF OR WALL MOUNTED)
	CEILING FAN
	HEATING/COOLING COIL TAG (REFER TO SCHEDULE)
	HG - HEATING COIL
	CG - COOLING COIL
	PRG - REHEAT COIL
	PRC - PREHEAT COIL
	HRC - HEAT RECLAIM
	HORIZONTAL HOT WATER UNIT
	HEATER TAG (REFER TO SCHEDULE)
	PROJECTION HOT WATER UNIT
	HEATER TAG (REFER TO SCHEDULE)
	NEW FINNED TUBE RADIATION
	EXISTING FINNED TUBE RADIATION
	RADIANT PANEL
	LINEAR DIFFUSER
	AIR OUTLET TAG (REFER TO SCHEDULE)
	DOUBLE SLOT TROFFER
	DOOR GRILLE TAG (REFER TO SCHEDULE)
	RADIATION HEATING TAG (REFER TO SCHEDULE)

QUANTITY	TYPE
1	100
2	200
3	300
4	400
5	500
6	600
7	700
8	800
9	900
10	1000
11	1100
12	1200
13	1300
14	1400
15	1500
16	1600
17	1700
18	1800
19	1900
20	2000
21	2100
22	2200
23	2300
24	2400
25	2500
26	2600
27	2700
28	2800
29	2900
30	3000
31	3100
32	3200
33	3300
34	3400
35	3500
36	3600
37	3700
38	3800
39	3900
40	4000
41	4100
42	4200
43	4300
44	4400
45	4500
46	4600
47	4700
48	4800
49	4900
50	5000
51	5100
52	5200
53	5300
54	5400
55	5500
56	5600
57	5700
58	5800
59	5900
60	6000
61	6100
62	6200
63	6300
64	6400
65	6500
66	6600
67	6700
68	6800
69	6900
70	7000
71	7100
72	7200
73	7300
74	7400
75	7500
76	7600
77	7700
78	7800
79	7900
80	8000
81	8100
82	8200
83	8300
84	8400
85	8500
86	8600
87	8700
88	8800
89	8900
90	9000
91	9100
92	9200
93	9300
94	9400
95	9500
96	9600
97	9700
98	9800
99	9900
100	10000

QUANTITY	TYPE
1	100
2	200
3	300
4	400
5	500
6	600
7	700
8	800
9	900
10	1000
11	1100
12	1200
13	1300
14	1400
15	1500
16	1600
17	1700
18	1800
19	1900
20	2000
21	2100
22	2200
23	2300
24	2400
25	2500
26	2600
27	2700
28	2800
29	2900
30	3000
31	3100
32	3200
33	3300
34	3400
35	3500
36	3600
37	3700
38	3800
39	3900
40	4000
41	4100
42	4200
43	4300
44	4400
45	4500
46	4600
47	4700
48	4800
49	4900
50	5000
51	5100
52	5200
53	5300
54	5400
55	5500
56	5600
57	5700
58	5800
59	5900
60	6000
61	6100
62	6200
63	6300
64	6400
65	6500
66	6600
67	6700
68	6800
69	6900
70	7000
71	7100
72	7200
73	7300
74	7400
75	7500
76	7600
77	7700
78	7800
79	7900
80	8000
81	8100
82	8200
83	8300
84	8400
85	8500
86	8600
87	8700
88	8800
89	8900
90	9000
91	9100
92	9200
93	9300
94	9400
95	9500
96	9600
97	9700
98	9800
99	9900
100	10000

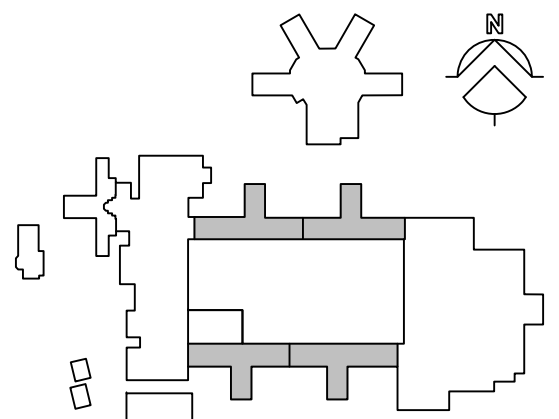
QUANTITY	TYPE
1	100
2	200
3	300
4	400
5	500
6	600
7	700
8	800
9	900
10	1000
11	1100
12	1200
13	1300
14	1400
15	1500
16	1600
17	1700
18	1800
19	1900
20	2000
21	2100
22	2200
23	2300
24	2400
25	2500
26	2600
27	2700
28	2800
29	2900
30	3000
31	3100
32	3200
33	3300
34	3400
35	3500
36	3600
37	3700
38	3800
39	3900
40	4000
41	4100
42	4200
43	4300
44	4400
45	4500
46	4600
47	4700
48	4800
49	4900
50	5000
51	5100
52	5200
53	5300
54	5400
55	5500
56	5600
57	5700
58	5800
59	5900
60	6000
61	6100
62	6200
63	6300
64	6400
65	6500
66	6600
67	6700
68	6800
69	6900
70	7000
71	7100
72	7200
73	7300
74	7400
75	7500
76	7600
77	7700
78	7800
79	7900
80	8000
81	8100
82	8200
83	8300
84	8400
85	8500
86	8600
87	8700
88	8800
89	8900
90	9000
91	9100
92	9200
93	9300
94	9400
95	9500
96	9600
97	9700
98	9800
99	9900
100	10000

QUANTITY	TYPE
1	100
2	200
3	300
4	400
5	500
6	600
7	700
8	800
9	900
10	1000
11	1100
12	1200
13	1300
14	1400
15	1500
16	1600
17	1700
18	1800
19	1900
20	2000
21	2100
22	2200
23	2300
24	2400
25	2500
26	2600
27	2700
28	2800
29	2900
30	3000
31	3100
32	3200
33	3300
34	3400
35	3500
36	3600
37	3700
38	3800
39	3900
40	4000
41	4100
42	4200
43	4300
44	4400
45	4500
46	4600
47	4700
48	4800
49	4900
50	5000
51	5100
52	5200
53	5300
54	5400
55	5500
56	5600
57	5700
58	5800
59	5900
60	6000
61	6100
62	6200
63	6300
64	6400
65	6500
66	6600
67	6700
68	6800
69	6900
70	7000
71	7100
72	7200
73	7300
74	7400
75	7500
76	7600
77	7700
78	7800
79	7900
80	8000
81	8100
82	8200
83	8300
84	8400
85	8500
86	8600
87	8700
88	8800
89	8900
90	9000
91	9100
92	9200
93	9300
94	9400
95	9500
96	9600
97	9700
98	9800
99	9900
100	10000

QUANTITY	TYPE
1	100
2	200
3	300
4	400
5	500
6	600
7	700
8	800
9	900
10	1000
11	1100
12	1200
13	1300
14	1400
15	1500
16	1600
17	1700
18	1800
19	1900
20	2000
21	2100
22	2200
23	2300
24	2400
25	2500
26	2600
27	2700
28	2800
29	2900
30	3000
31	3100
32	3200
33	3300
34	3400
35	3500
36	3600
37	3700
38	3800
39	3900
40	4000
41	4100
42	4200
43	4300
44	4400
45	4500
46	4600
47	4700
48	4800
49	4900
50	5000
51	5100
52	5200
53	5300
54	5400
55	5500
56	5600
57	5700
58	5800
59	5900
60	6000
61	6100
62	6200
63	6300
64	6400
65	6500
66	6600
67	6700
68	6800
69	6900
70	7000
71	7100
72	7200
73	7300
74	7400
75	7500
76	7600
77	7700
78	7800
79	7900
80	8000
81	8100
82	8200
83	8300
84	8400
85	8500
86	8600
87	8700
88	8800
89	8900
90	9000
91	9100
92	9200
93	9300
94	9400
95	9500
96	9600
97	9700
98	9800
99	9900
100	10000



STANTEC  
10140 - 112th Street  
Edmonton AB  
Tel. 780.917.7000  
www.stantec.com



KEY PLAN



Stantec project number  
114725628

revision		date
4	ISSUED FOR TENDER	03/03/2017
3	ISSUED FOR PRE-TENDER	06/13/2016
2	99% QA/QC REVIEW	03/18/2016
1	50% REVIEW	02/03/2016
0	PROGRESS REVIEW	01/15/2016

A	A detail no. no. du détail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

project  
**EDMONTON, ALBERTA**  
**MAXIMUM SECURITY**  
**INSTITUTION**  
**UNIT OFFICE**  
**AIR CONDITIONING**

drawing  
**HVAC PLAN, SECTION**  
**AND SCHEMATIC A &**  
**B PODS**

designed by  
**BN**

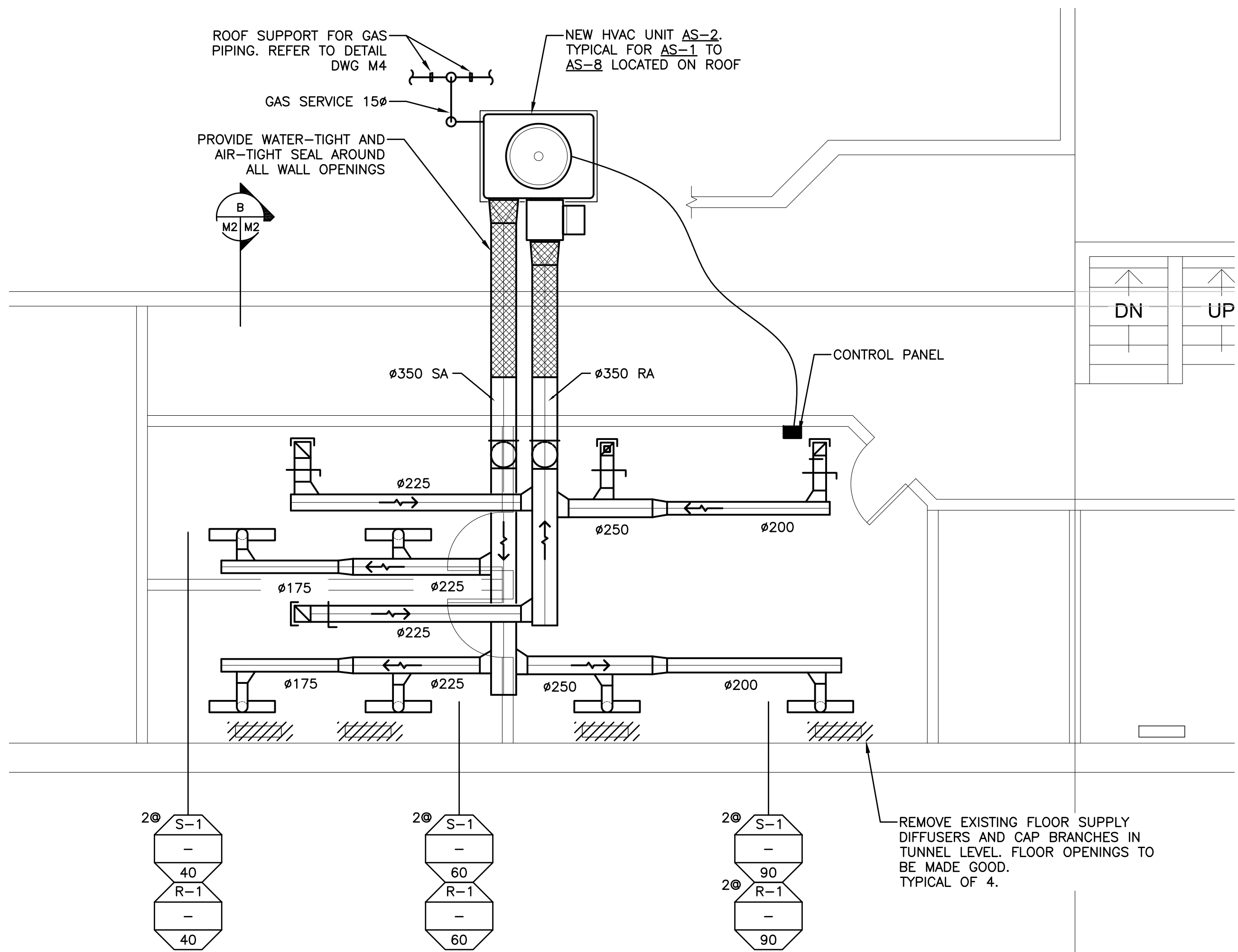
drawn by  
**BN**

approved by  
**TCL**

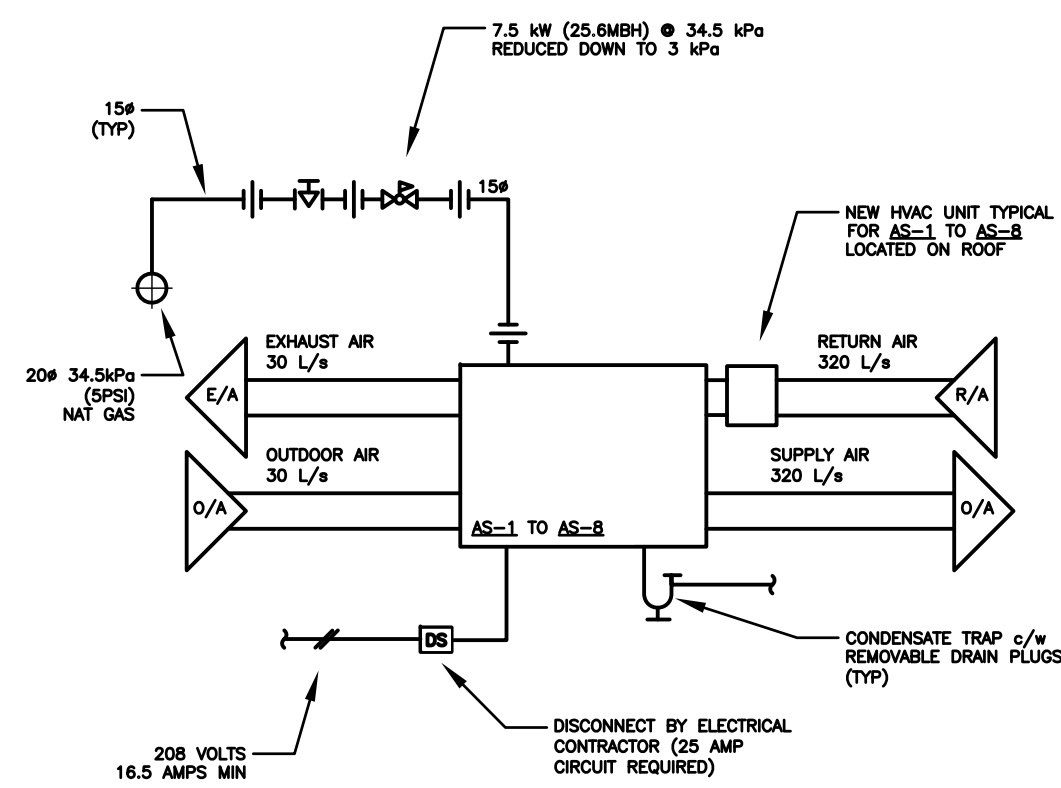
PWGSC project manager  
**JAMES PATTISON**

project number  
**R011211.001**

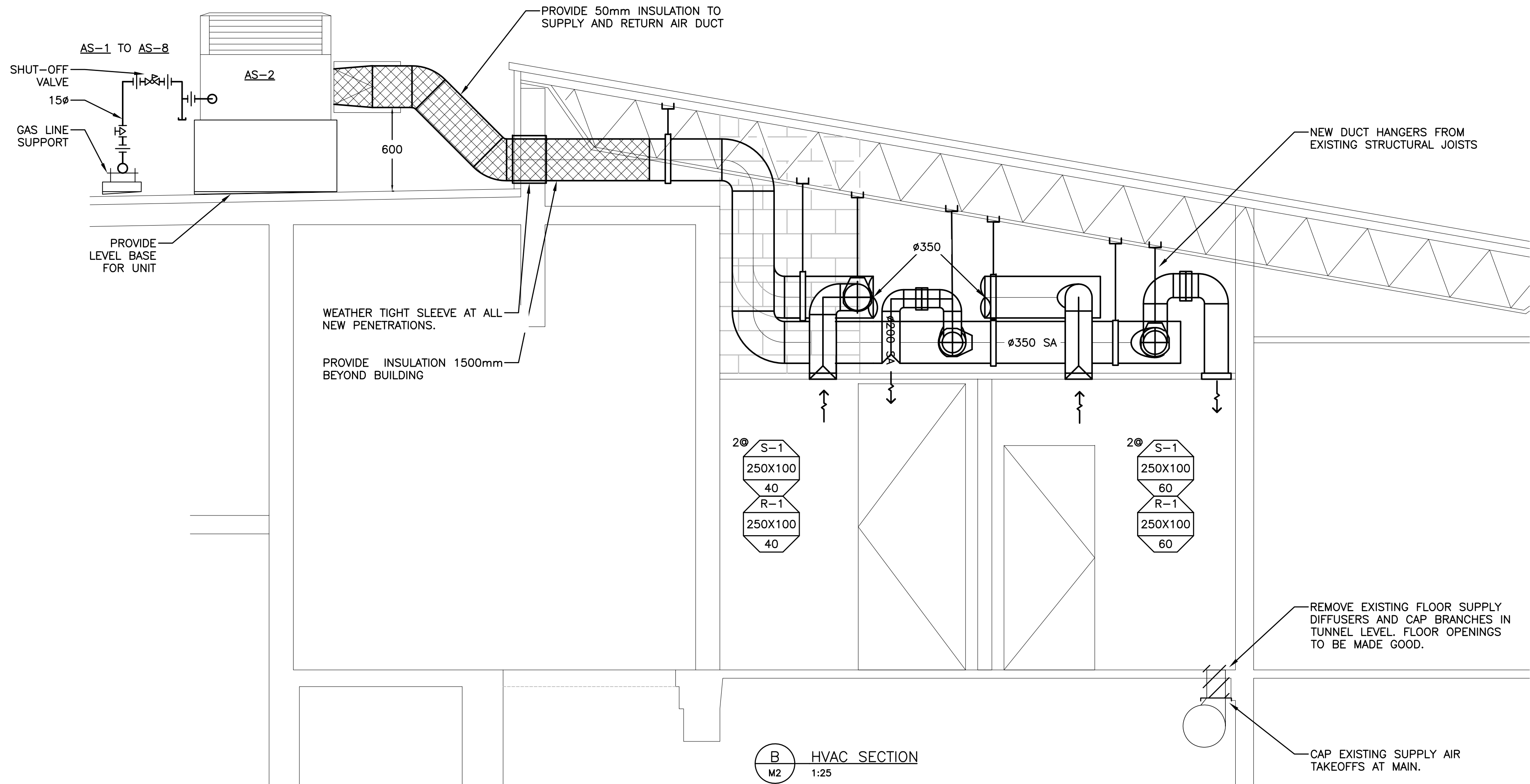
drawing number  
**M2 OF 4**



A  
M2  
1:50  
UPPER LEVEL HVAC PLAN (TYP FOR 8 UNITS)



C  
M2  
NTS  
HVAC SCHEMATIC (TYPICAL FOR 8 UNITS)

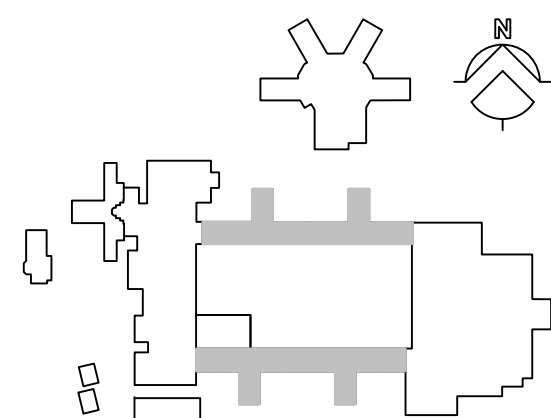


B  
M2  
1:25  
HVAC SECTION





STANTEC  
10160 - 112th Street  
Edmonton AB  
Tel. 780.917.7000  
www.stantec.com



KEY PLAN



Stantec project number  
114725628

revision	date
4	ISSUED FOR TENDER 03/03/2017
3	ISSUED FOR PRE-TENDER 06/13/2016
2	99% QA/QC REVIEW 03/18/2016
1	50% REVIEW 02/03/2016
0	PROGRESS REVIEW 01/15/2016

A	A detail no. no. du détail	A
C	B location drawing no. sur dessin no.	B
	C drawing no. dessin no.	C

project  
EDMONTON, ALBERTA

MAXIMUM SECURITY  
INSTITUTION  
UNIT OFFICE  
AIR CONDITIONING

drawing  
VENTILATION AND  
HEATING CONTROL  
SCHEMATICS

designed by  
BN

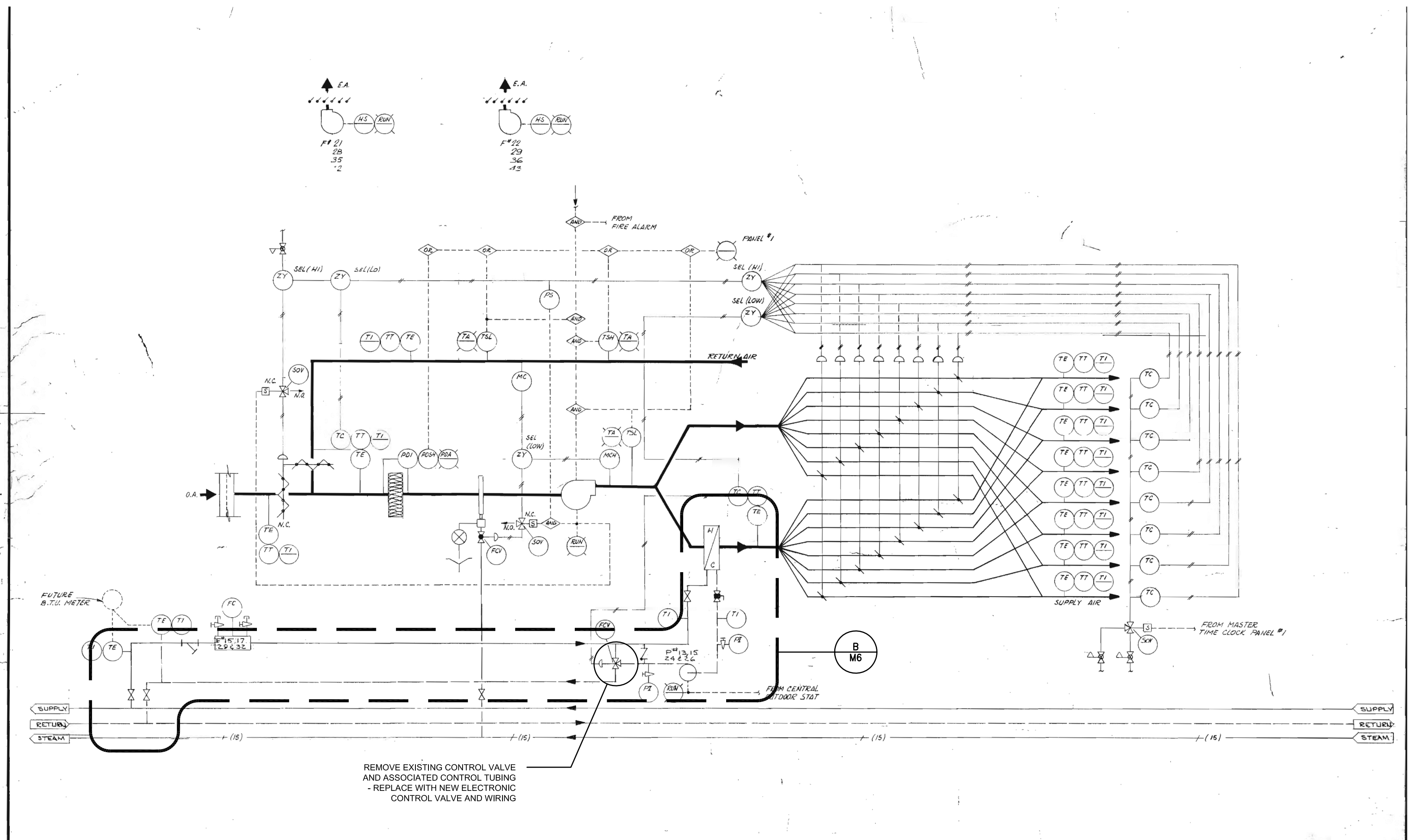
drawn by  
BN

approved by  
TCL

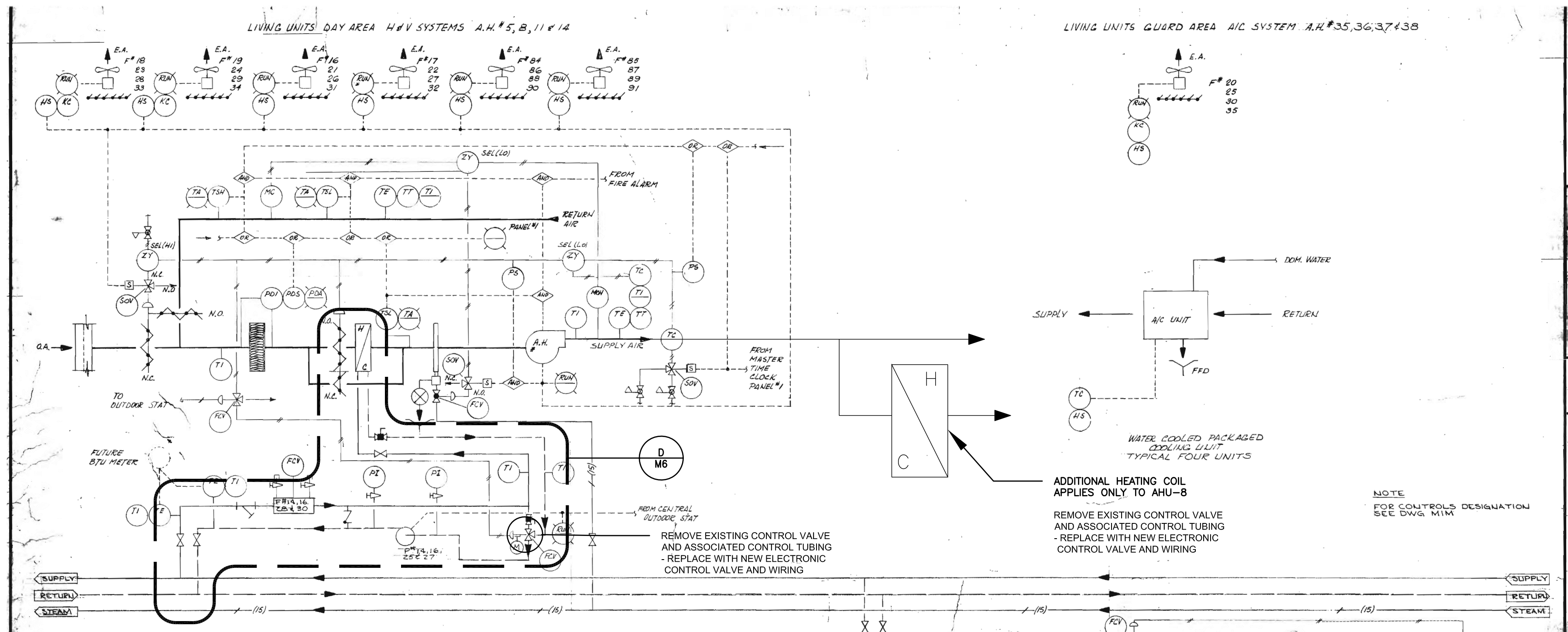
PWGSC project manager  
JAMES PATTISON

project number  
R011211.001

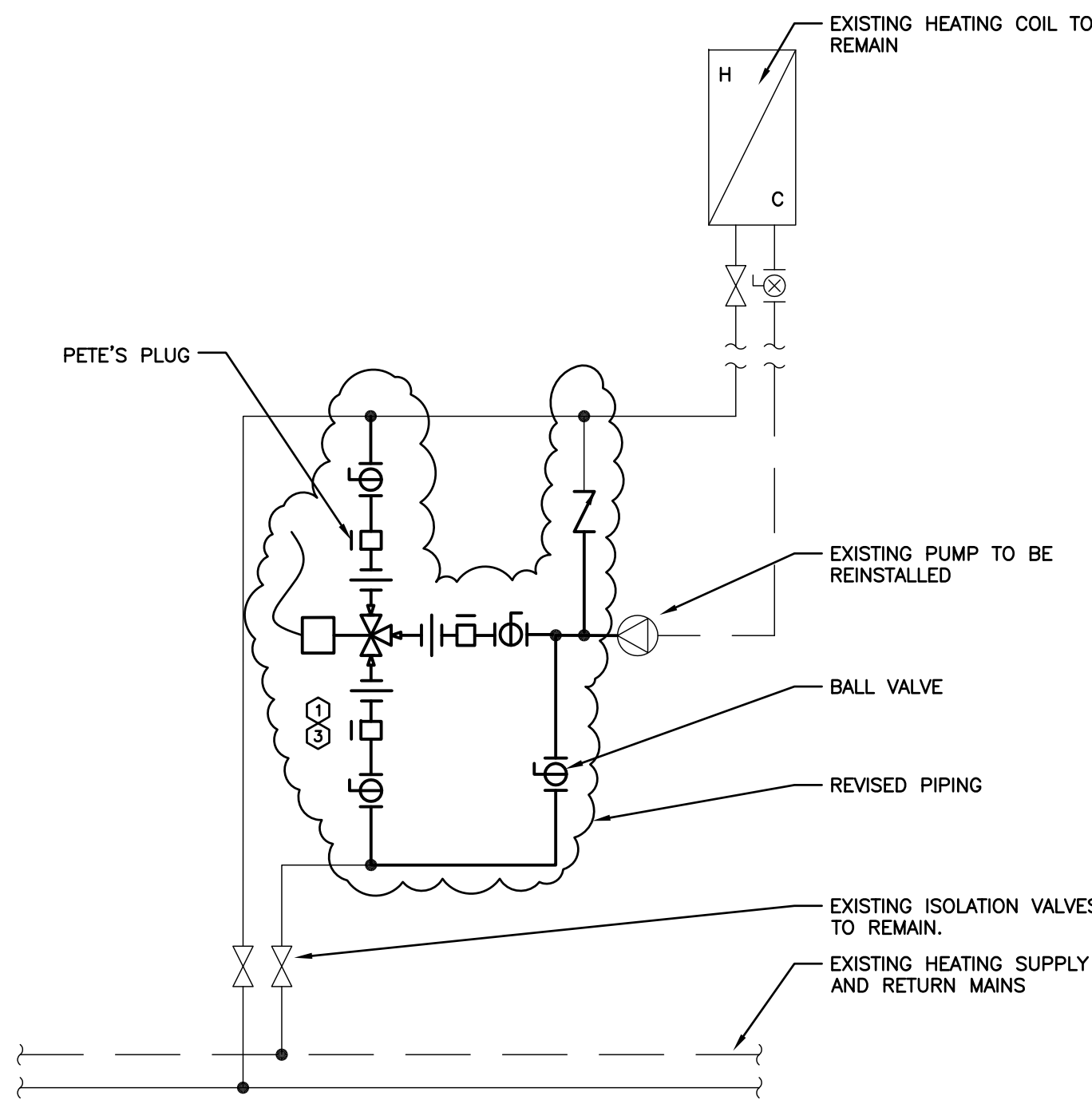
drawing number  
M3 OF 4



A EXISTING CONTROL SCHEMATIC - AH-4, 7, 10 & 13 (INMATE VENTILATION UNITS)  
M6 NTS



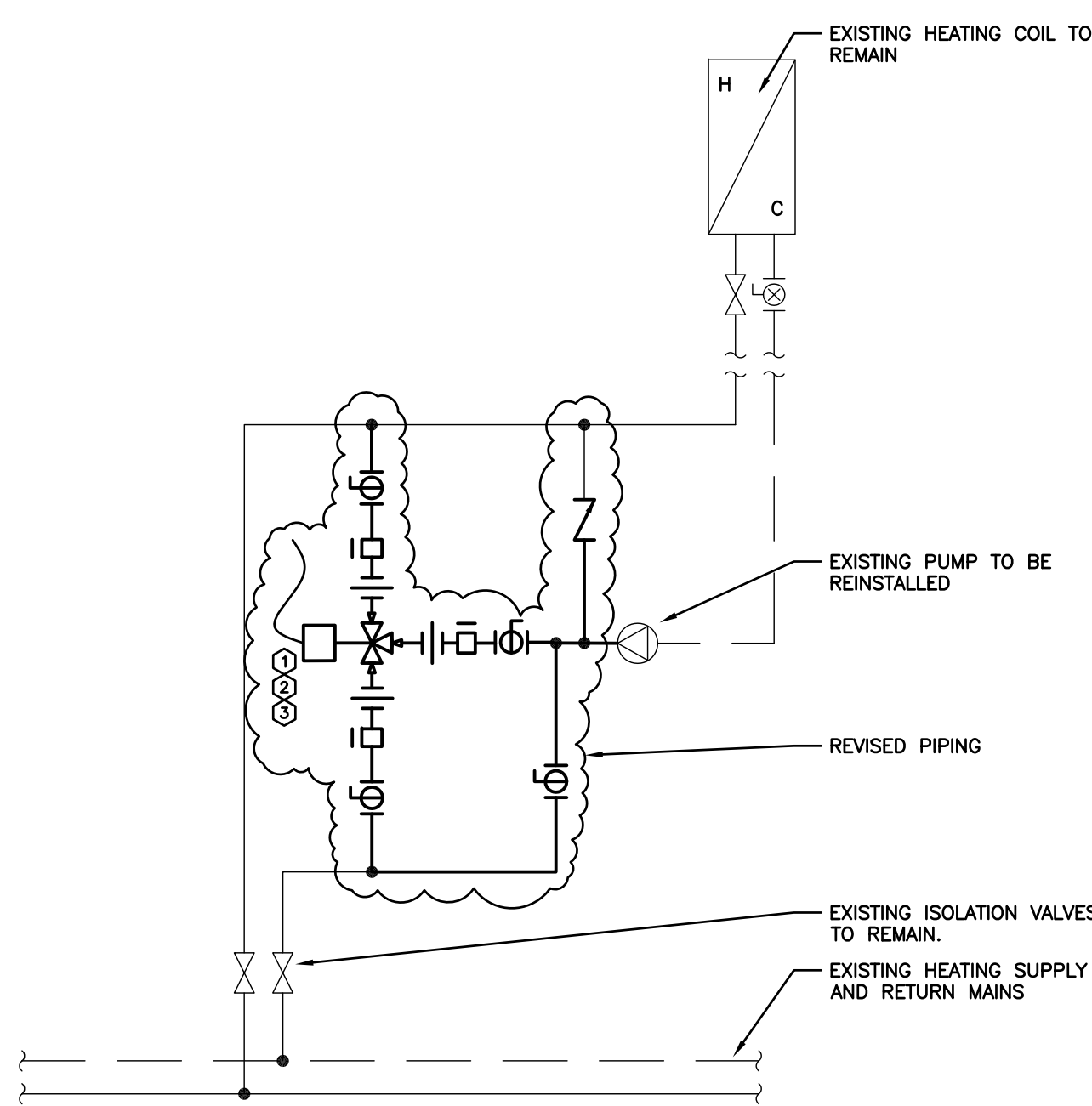
C EXISTING CONTROL SCHEMATIC - AH-5, 8, 11 & 14 (BLOCK VENTILATION UNITS)  
M6 NTS



B REVISED CONTROL SCHEMATIC - AH-4, 7, 10 & 13  
M6 NTS

KEYNOTES:

- CONTRACTOR TO ALLOW FOR COMPLETE DISASSEMBLY OF EXISTING PIPING FROM MAIN ISOLATION VALVES TO COILS TO INSTALL NEW CONTROL VALVES AND BY-PASS.
- ADDITIONAL COIL FOR AHU-8 WHICH WILL BE CHANGED OUT
- CONTRACTOR TO CONFIRM ALL PIPING AND VALVE SIZING BEFORE COMMENCING REMEDIAL WORK.



D REVISED CONTROL SCHEMATIC - AH-5, 8, 11 & 14  
M6 NTS



