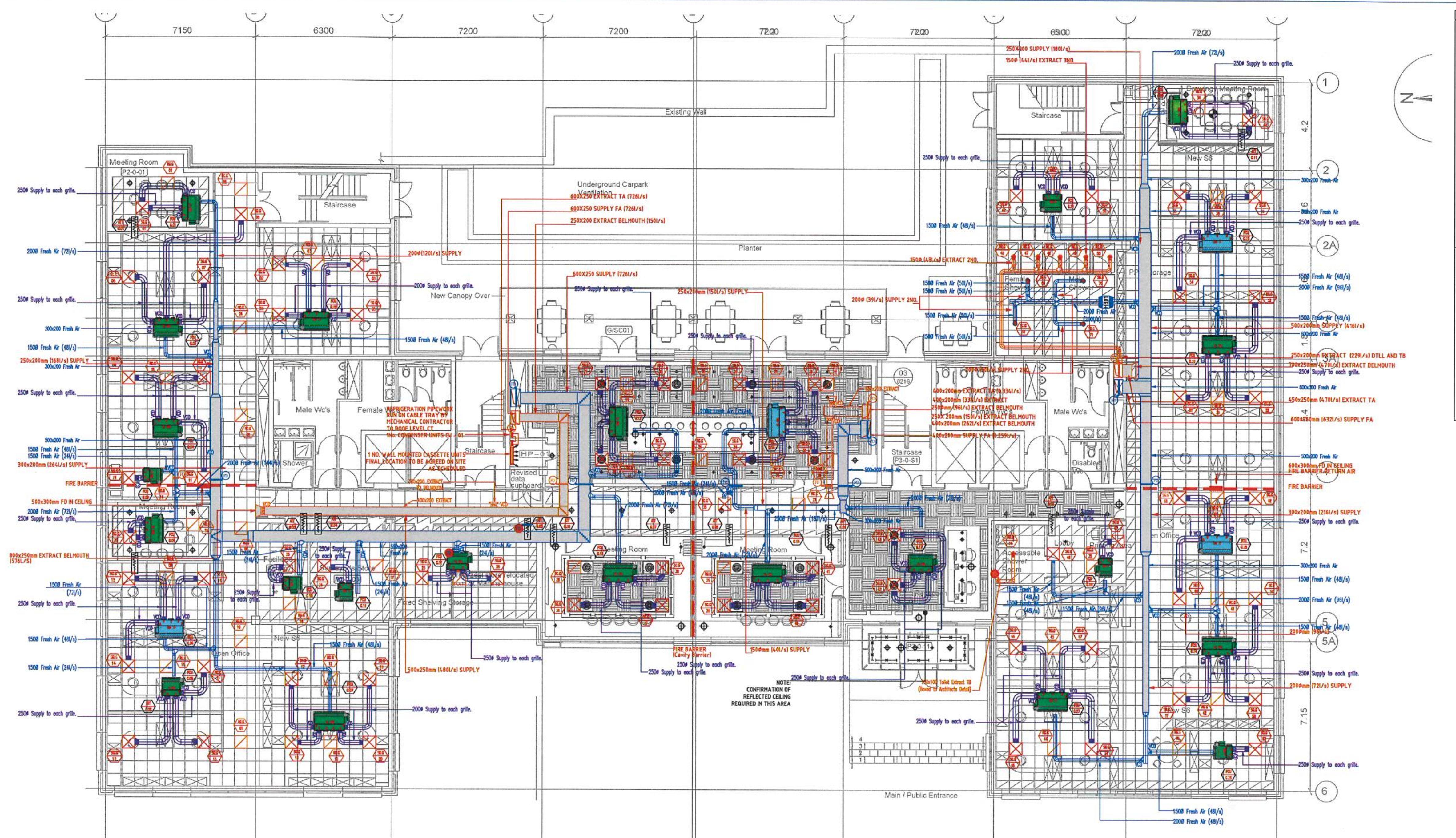
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10 cm - SCALE WITH CAUTION AS DISTORTION CAN OCCUR



SYMBOLS | LEGEND

VENTILATION LEGEND

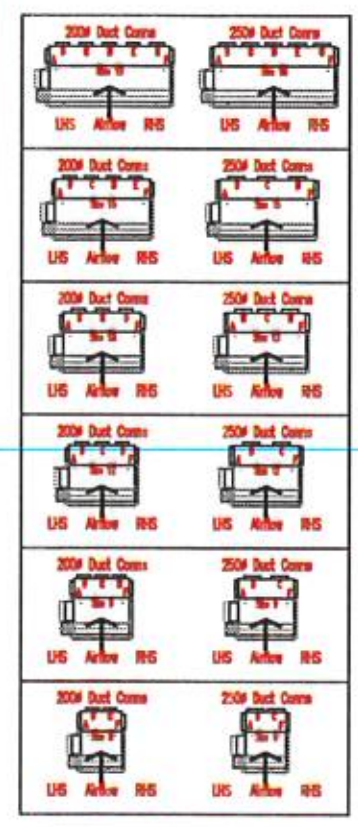
- FAN COIL UNIT (FCU).
- PRIMARY EXTRACT AIR.
- PRIMARY Fresh Air
- SECONDARY Fresh Air.
- TOILET EXTRACT.
- SUPPLY DIFFUSER.
- EXTRACT DIFFUSER.
- CROSSTALK ATTENUATORS (MOUNTED IN CEILING.
- FIRE DAMPER.
- NEW FIRE DAMPER.

DTLL	DROP TO LOW LEVEL
TA	TO ABOVE
FA	FROM ABOVE
TB	TO BELOW
FB	FROM BELOW
DTFV	DROP TO FLOOR VOID
DTFF	DROP TO FALSE FLOOR
RFFF	RISE FROM FALSE FLOOR
RFFV	RISE FROM FLOOR VOID
CTBU	CONNECT TO BUILDERS UPSTAND
CT	CONNECT TO
TA	TO ABOVE
FA	FROM ABOVE
TB	TO BELOW
FB	FROM BELOW
SVP	SOIL AND VENT PIPE
CE	CLEANING EYE
RT	RUNNING TRAP
FW	FIRE WRAP

SCHEDULE OF FAN COIL UNITS

Client:
Project: NRA Parkgate Street
Project Number: 722
Revision / Date: 5 | 23 June 2015

Ref. No.	Area Served	Heating Load (kW)	LPHW Flow (l/s)	Cooling Load (kW)	CHW Flow (l/s)	Air Flow l/s	Motor Power (w)	SFP W/l/s	Block	Make	Model	Duct Connections Size	Duct Connections Conns	Unit Handing	Weight Kg	Speed Setting	Type	Remarks
GROUND FLOOR UNITS																		
G-01	Meeting Room (P2-0-01)	2.478	0.059	3.142	0.197	238	34	0.14	B	Diffusion	H27BEC-WHCH-13/2	250	C - F	L H S	54	Low+1	Master	FA Conn. Size 200 Dia
G-02	Open Plan Office (P2-0-03)	3.612	0.086	3.458	0.217	262	40	0.15	B	Diffusion	H27BEC-WHCH-13/2	200	A - B - D - F	L H S	54	Low+2	Master	FA Conn. Size 150 Dia
G-03	Open Plan Office (P2-0-03)	3.780	0.090	4.227	0.267	328	61	0.19	B	Diffusion	H27BEC-WHCH-13/2	250	A - C - F	R H S	54	Medium	Master	FA Conn. Size 150 Dia
G-04	Open Plan Office (P2-0-03)	3.780	0.090	4.227	0.267	328	61	0.19	B	Diffusion	H27BEC-WHCH-13/2	250	A - B - D	R H S	54	Medium	Slave	FA Conn. Size 150 Dia
G-05	Open Plan Office (P2-0-03)	3.780	0.090	2.135	0.119	217	35	0.16	B	Diffusion	H27BEC-WHCH-09/2	250	B - D	L H S	44	Low+3	Master	FA Conn. Size 150 Dia
G-06	Open Plan Office (P2-0-03)	3.780	0.090	4.227	0.267	328	61	0.19	B	Diffusion	H27BEC-WHCH-13/2	250	A - B - D	L H S	54	Medium	Slave	FA Conn. Size 150 Dia (FD)
G-07	Open Plan Office (P2-0-03)	5.250	0.125	5.267	0.331	339	68	0.17	B	Diffusion	H27BEC-WHCH-15/3	200	A - B - E - F	R H S	67	Medium	Master	FA Conn. Size 150 Dia
G-08	Printing Area (P2-0-P2)	1.176	0.028	1.288	0.074	106	22	0.2	B	Diffusion	H27BEC-WHCH-06/1	250	B	R H S	32	Low+1	Master	FA Conn. Size 150 Dia
G-09	Meeting Room (P2-0-02)	2.478	0.059	3.142	0.197	238	34	0.14	B	Diffusion	H27BEC-WHCH-13/2	250	B - D	R H S	54	Low+1	Master	FA Conn. Size 200 Dia
G-10	Facilities (P2-0-07)	1.176	0.028	1.184	0.072	130	19	0.19	B	Diffusion	H27BEC-WHCH-06/1	250	C	L H S	32	Low	Master	FA Conn. Size 150 Dia
G-11	Surveyor's Store (P2-0-08)	1.176	0.028	1.184	0.072	130	19	0.19	B	Diffusion	H27BEC-WHCH-06/1	250	C	L H S	32	Low	Master	FA Conn. Size 150 Dia
G-12	Fixed Shelving Storage (P2-0-09)	3.360	0.080	2.869	0.174	244	36	0.15	B	Diffusion	H27BEC-WHCH-12/2	250	B - C	L H S	48	Low+2	Master	FA Conn. Size 150 Dia (FD)
G-13	Canteen (P2-0-11)	9.742	0.220	5.267	0.331	399	68	0.17	B	Diffusion	H27BEC-WHCH-15/3	250	B - C - D - F	L H S	67	Medium	Master	FA Conn. Size 200 Dia (FD)
G-14	Canteen (P2-0-11)	9.742	0.220	5.267	0.331	399	68	0.17	A	Diffusion	H27BEC-WHCH-15/3	250	B - C - D - F	R H S	67	Medium	Slave	FA Conn. Size 200 Dia (FD)
G-15	Meeting Room (P2-0-10)	3.780	0.090	5.267	0.331	399	68	0.17	B	Diffusion	H27BEC-WHCH-15/3	250	B - C - D	L H S	67	Medium	Master	FA Conn. Size 200 Dia
G-16	Meeting Room (P3-0-01)	3.780	0.090	5.267	0.331	399	68	0.17	A	Diffusion	H27BEC-WHCH-15/3	250	B - C - D	L H S	67	Medium	Master	FA Conn. Size 200 Dia
G-17	Reception (P3-0-02)	3.990	0.095	4.227	0.267	328	61	0.19	A	Diffusion	H27BEC-WHCH-13/2	250	A - B - D - F	L H S	54	Medium	Master	FA Conn. Size 200 Dia
G-18 (struck through)	Meeting Room (P3-0-08)	1.176	0.028	1.028	0.064	84	14	0.17	A	Diffusion	H27BEC-WHCH-06/1					Low	Master	OMITTED 02/06/2015
G-19	Printing Area (P3-0-P1)	1.176	0.028	1.288	0.074	106	22	0.2	A	Diffusion	H27BEC-WHCH-06/1	250	B	R H S	32	Low+1	Master	FA Conn. Size 150 Dia
G-20	Meeting Room (P3-0-10)	2.478	0.059	3.142	0.197	238	34	0.14	A	Diffusion	H27BEC-WHCH-13/2	250	B - F	R H S	54	Low+1	Master	FA Conn. Size 200 Dia
G-21	Open Plan Office (P3-0-09)	2.940	0.070	2.589	0.146	258	48	0.19	A	Diffusion	H27BEC-WHCH-09/2	250	B - C	R H S	44	Medium	Master	FA Conn. Size 150 Dia
G-22	Open Plan Office (P3-0-09)	5.250	0.125	5.267	0.331	399	68	0.17	A	Diffusion	H27BEC-WHCH-15/3	250	A - B - D	R H S	67	Medium	Master	FA Conn. Size 150 Dia
G-23	Open Plan Office (P3-0-09)	5.250	0.125	5.267	0.331	399	68	0.17	A	Diffusion	H27BEC-WHCH-15/3	250	A - B - D	L H S	67	Medium	Slave	FA Conn. Size 150 Dia
G-24	Open Plan Office (P3-0-09)	5.250	0.125	5.267	0.331	399	68	0.17	A	Diffusion	H27BEC-WHCH-15/3	250	A - B - D	R H S	67	Medium	Master	FA Conn. Size 150 Dia
G-25	Open Plan Office (P3-0-09)	5.25	0.125	5.267	0.331	399	68	0.17	A	Diffusion	H27BEC-WHCH-15/3	250	A - B - D	L H S	67	Medium	Slave	FA Conn. Size 150 Dia
G-26	Open Plan Office (P3-0-09)	1.47	0.035	1.323	0.079	119	27	0.23	A	Diffusion	H27BEC-WHCH-06/1	250	B	R H S	32	Low+3	Master	FA Conn. Size 150 Dia
G-27	Open Plan Office (P3-0-09)	6.00	0.135	5.267	0.331	399	68	0.17	A	Diffusion	H27BEC-WHCH-15/3	250	A - B - D - F	R H S	67	Medium	Master	FA Conn. Size 200 Dia



LEGEND

- MASTER UNIT
- SLA□E UNIT

Q15030903 Rev 2

Flowcon Valve Schedule
Project: NRA Parkgate Street

02/06/2015

LPHW

Line	REF	FLOW (l/s)	Line Size (mm)	Cart	Valve	Press Range (kPaD)	Valve Size (mm)	Valve Kv	Setting	Delivered Flow (l/s)	Pressure Drop (kPa)
1	G-01	0.059		Green 0	AB	16 200	15	2.6	1.7	0.0650	16.8
2	G-02	0.086		Green 0	AB	16 200	15	2.6	2.1	0.0889	17.5
3	G-03	0.090		Green 0	AB	16 200	15	2.6	2.2	0.0942	17.7
4	G-04	0.090		Green 0	AB	16 200	15	2.6	2.2	0.0942	17.7
5	G-05	0.090		Green 0	AB	16 200	15	2.6	2.2	0.0942	17.7
6	G-06	0.090		Green 0	AB	16 200	15	2.6	2.2	0.0942	17.7
7	G-07	0.125		Green 0	AB	16 200	15	2.6	3.1	0.0125	18.0
8	G-08	0.028		Green 0	AB	16 200	15	2.6	1.3	0.0322	16.2
9	G-09	0.059		Green 0	AB	16 200	15	2.6	1.7	0.0650	16.8
10	G-10	0.028		Green 0	AB	16 200	15	2.6	1.3	0.0322	16.2
11	G-11	0.028		Green 0	AB	16 200	15	2.6	1.3	0.0322	16.2
12	G-12	0.080		Green 0	AB	16 200	15	2.6	2.0	0.0839	17.3
13	G-13	0.220		Green 1	AB	30 400	15	2.6	2.9	0.225	39.7
14	G-14	0.220		Green 1	AB	30 400	15	2.6	2.9	0.225	39.7
15	G-15	0.090		Green 0	AB	16 200	15	2.6	2.2	0.0942	17.7
16	G-16	0.090		Green 0	AB	16 200	15	2.6	2.2	0.0942	17.7
17	G-17	0.095		Green 0	AB	16 200	15	2.6	2.3	0.0981	17.8
18 (struck through)	G-18	0.028		Green 0	AB	16 200	15	2.6	1.3	0.0322	16.2
19	G-19	0.028		Green 0	AB	16 200	15	2.6	1.3	0.0322	16.2
20	G-20	0.059		Green 0	AB	16 200	15	2.6	1.7	0.065	16.8
21	G-21	0.070		Green 0	AB	16 200	15	2.6	1.8	0.0719	17.0
22	G-22	0.125		Green 0	AB	16 200	15	2.6	3.1	0.125	19.0
23	G-23	0.125		Green 0	AB	16 200	15	2.6	3.1	0.125	19.0
24	G-24	0.125		Green 0	AB	16 200	15	2.6	3.1	0.125	19.0
25	G-25	0.125		Green 0	AB	16 200	15	2.6	3.1	0.125	19.0
26	G-26	0.035		Green 0	AB	16 200	15	2.6	1.4	0.0419	16.3
27	G-27	0.135		Green 0	AB	16 200	15	2.6	3.5	0.135	19.5

CHW

FLOW (l/s)	Line Size (mm)	Cart	Valve	Press Range (kPaD)	Valve Size (mm)	Valve Kv	Setting	Delivered Flow (l/s)	Pressure Drop (kPa)
0.197		Green 1	AB	30 400	20	2.6	2.6	0.202	37.8
0.217		Green 1	AB	30 400	20	2.6	2.8	0.218	39.1
0.267		Green 1	AB	30 400	20	2.6	3.6	0.268	43.8
0.267		Green 1	AB	30 400	20	2.6	3.6	0.268	43.8
0.119		Green 0	AB	16 200	20	2.6	2.9	0.119	18.7
0.267		Green 1	AB	30 400	20	2.6	3.6	0.268	43.8
0.331		Green 2	AB	16 400	25	12.5	1.3	0.361	17.1
0.074		Green 0	AB	16 200	20	2.6	1.9	0.0781	17.2
0.197		Green 1	AB	30 400	20	2.6	2.6	0.202	37.8
0.072		Green 0	AB	16 200	20	2.6	1.9	0.0781	17.2
0.072		Green 0	AB	16 200	20	2.6	1.9	0.0781	17.2
0.174		Green 1	AB	30 400	20	2.6	2.3	0.178	36.1
0.331		Green 2	AB	16 400	25	12.5	1.3	0.361	17.1
0.331		Green 2	AB	16 400	25	12.5	1.3	0.361	17.1
0.331		Green 2	AB	16 400	25	12.5	1.3	0.361	17.1
0.331		Green 2	AB	16 400	25	12.5	1.3	0.361	17.1
0.267		Green 1	AB	30 400	20	2.6	3.6	0.268	43.8
0.064 (struck through)		Green 0	AB	16 200	20	2.6	1.7	0.066	16.8
0.074		Green 0	AB	16 200	20	2.6	1.9	0.0781	17.2
0.197		Green 1	AB	30 400	20	2.6	2.6	0.202	37.8
0.146		Green 0	AB	16 200	20	2.6	4.0	0.148	20.1
0.331		Green 2	AB	16 400	25	12.5	1.3	0.361	17.1
0.331		Green 2	AB	16 400	25	12.5	1.3	0.361	17.1
0.331		Green 2	AB	16 400	25	12.5	1.3	0.361	17.1
0.331		Green 2	AB	16 400	25	12.5	1.3	0.361	17.1
0.079		Green 0	AB	16 200	20	2.6	2.0	0.0839	17.3
0.331		Green 2	AB	16 400	25	12.5	1.3	0.361	17.1

FCU G-18 Omitted 02/06/2015

Rev.	Date	By	Description	Chd By
R	21/08/15	BC	RECORD DRAWING ISSUE	PY

Drawing Status: Record Drawing

Client: NRA / RPA

Architect: NRA / RPA

Consultant: Murphy Belton Consulting Engineers

Haughton & Young Limited
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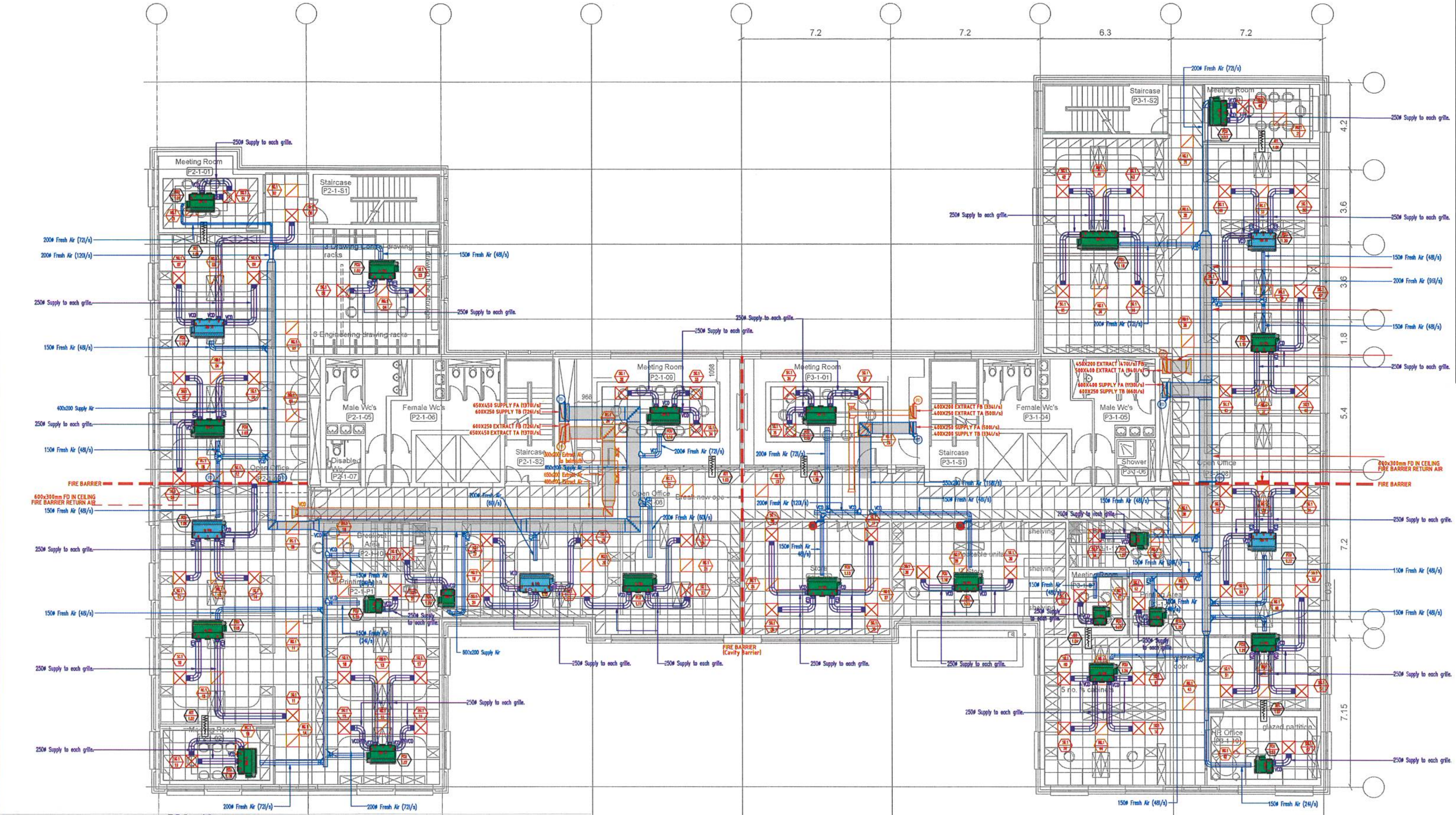
Job Title: RPA / NRA
Office Consolidation
Parkgate Street, Dublin

Drawing Title: Mechanical Services
Ground Floor Plan
A/C & □entilation Layout

Scales: 1:100 @ A1 | Started by: DAH
Checked: PY | Approved: PY | Created: May 15
Job No.: 722 | Drawing No.: M G □00 | Rev.: R

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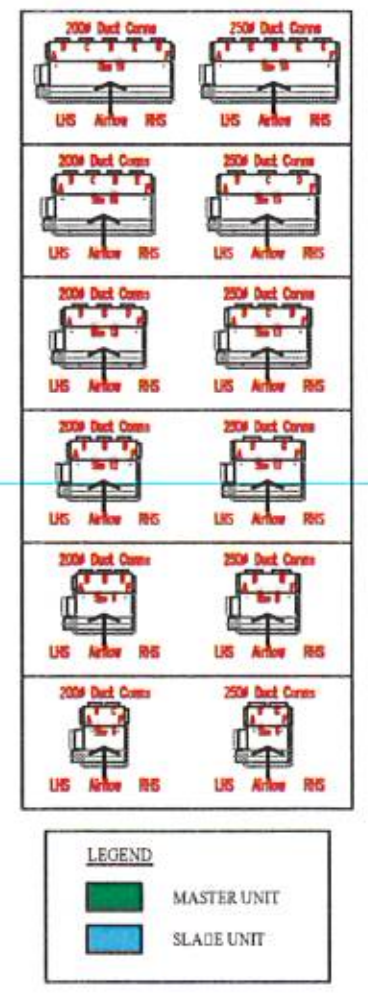
10 cm - SCALE WITH CAUTION AS DISTORTION CAN OCCUR



SCHEDULE OF FAN COIL UNITS

Client:
Project: NRA Parkgate Street
Project Number: 722
Revision / Date: 5 | 23 June 2015

Ref. No.	Area Served	Heating Load (kW)	LPHW Flow (l/s)	Cooling Load (kW)	CHW Flow (l/s)	Air Flow l/s	Motor Power (w)	SFP W/l/s	Block	Make	Model	Duct Connections Size	Duct Connections Conns	Unit Handing	Weight Kg	Speed Setting	Type	Remarks
FIRST FLOOR UNITS																		
01-01	Meeting Room (P2-1-01)	1.512	0.036	3.142	0.197	238	34	0.14	B	Diffusion	H27BEC-WHCH-13/2	250	C - F	L H S	54	Low+1	Master	FA Conn. Size 200 Dia
01-02	Open Plan Office (P2-1-03)	2.898	0.069	3.458	0.217	262	40	0.15	B	Diffusion	H27BEC-WHCH-13/2	250	B - D	R H S	54	Low+2	Master	FA Conn. Size 150 Dia
01-03	Open Plan Office (P2-1-03)	3.234	0.077	3.736	0.235	283	45	0.16	B	Diffusion	H27BEC-WHCH-15/2	250	A - B - D	R H S	63	Low+3	Master	FA Conn. Size 150 Dia
01-04	Open Plan Office (P2-1-03)	3.234	0.077	3.736	0.235	283	45	0.16	B	Diffusion	H27BEC-WHCH-15/2	250	A - D - F	R H S	63	Low+3	Slave	FA Conn. Size 150 Dia
01-05	Open Plan Office (P2-1-03)	3.234	0.077	3.736	0.235	283	45	0.16	B	Diffusion	H27BEC-WHCH-15/2	250	B - D	L H S	63	Low+3	Master	FA Conn. Size 150 Dia
01-06	Open Plan Office (P2-1-03)	3.234	0.077	3.736	0.235	283	45	0.16	B	Diffusion	H27BEC-WHCH-15/2	250	A - B - D	L H S	63	Low+3	Slave	FA Conn. Size 150 Dia (FD)
01-07	Open Plan Office (P2-1-03)	3.990	0.095	4.227	0.267	328	61	0.19	B	Diffusion	H27BEC-WHCH-13/2	250	A - B - D - F	R H S	54	Medium	Master	FA Conn. Size 200 Dia
01-08	Meeting Room (P2-1-02)	1.512	0.036	3.142	0.197	238	34	0.14	B	Diffusion	H27BEC-WHCH-13/2	250	C - F	R H S	54	Low+1	Master	FA Conn. Size 200 Dia
01-09	Breakout Area (P2-1-10)	1.050	0.025	1.028	0.064	81	14	0.17	B	Diffusion	H27BEC-WHCH-06/1	250	B	R H S	32	xLow	Master	FA Conn. Size 150 Dia
01-10	Printing Area (P2-1-P1)	1.050	0.025	1.288	0.074	106	22	0.2	B	Diffusion	H27BEC-WHCH-06/1	250	B	L H S	32	Low+1	Master	FA Conn. Size 150 Dia
01-11	Open Office (P2-1-08)	3.990	0.095	4.330	0.272	328	60	0.18	B	Diffusion	H27BEC-WHCH-15/2	250	A - B - D	L H S	63	Medium	Master	FA Conn. Size 200 Dia
01-12	Open Office (P2-1-08)	3.990	0.095	4.330	0.272	328	60	0.18	B	Diffusion	H27BEC-WHCH-15/2	250	A - C - F	L H S	63	Medium	Slave	FA Conn. Size 200 Dia
01-13	Store (P2-1-02)	2.688	0.064	3.736	0.235	283	45	0.16	A	Diffusion	H27BEC-WHCH-15/2	250	A - B - D - F	R H S	63	Low+3	Master	FA Conn. Size 150 Dia (FD)
01-14	Meeting Room (P2-1-09)	2.814	0.067	5.267	0.331	399	68	0.17	B	Diffusion	H27BEC-WHCH-15/3	250	B - D - F	R H S	67	Medium	Master	FA Conn. Size 200 Dia
01-15	Meeting Room (P3-1-01)	2.814	0.067	5.267	0.331	399	68	0.17	A	Diffusion	H27BEC-WHCH-15/3	250	A - B - D	L H S	67	Medium	Master	FA Conn. Size 200 Dia
01-16	IT Store (P3-1-03)	2.604	0.062	3.458	0.217	262	40	0.15	A	Diffusion	H27BEC-WHCH-13/2	250	A - F	R H S	54	Low+2	Master	FA Conn. Size 150 Dia (FD)
01-17	Meeting Room (P3-1-09)	1.512	0.036	3.142	0.197	238	34	0.14	A	Diffusion	H27BEC-WHCH-13/2	250	B - D	R H S	54	Low+1	Master	FA Conn. Size 200 Dia
01-18	Open Office (P3-1-08)	5	0.113	5.742	0.361	435	56	0.13	A	Diffusion	H27BEC-WHCH-18/4	250	A - C - E - F	R H S	86	Low+3	Master	FA Conn. Size 200 Dia
01-19	Open Office (P3-1-08)	3.990	0.095	4.227	0.267	328	61	0.19	A	Diffusion	H27BEC-WHCH-13/2	250	A - B - D	R H S	54	Medium	Master	FA Conn. Size 150 Dia
01-20	Open Office (P3-1-08)	3.990	0.095	4.227	0.267	328	61	0.19	A	Diffusion	H27BEC-WHCH-13/2	250	A - B - D	L H S	54	Medium	Slave	FA Conn. Size 150 Dia
01-21	Open Office (P3-1-08)	3.990	0.095	4.227	0.267	328	61	0.19	A	Diffusion	H27BEC-WHCH-13/2	250	A - B - D	R H S	54	Medium	Master	FA Conn. Size 150 Dia
01-22	Open Office (P3-1-08)	3.990	0.095	4.227	0.267	328	61	0.19	A	Diffusion	H27BEC-WHCH-13/2	250	A - B - D	L H S	54	Medium	Slave	FA Conn. Size 150 Dia
01-23	HR Office (P3-1-10)	1.428	0.034	1.184	0.072	100	19	0.19	A	Diffusion	H27BEC-WHCH-06/1	250	B	L H S	32	Low	Master	FA Conn. Size 150 Dia
01-24	HR Office (P3-1-10)	3.066	0.073	3.749	0.236	284	47	0.16	A	Diffusion	H27BEC-WHCH-13/2	250	A - B - D - F	L H S	54	Low+3	Master	FA Conn. Size 150 Dia
01-25	Printing Area (P3-1-P1)	1.050	0.025	1.288	0.074	106	22	0.2	A	Diffusion	H27BEC-WHCH-06/1	250	F	R H S	32	Low+1	Master	FA Conn. Size 150 Dia
01-26	Meeting Room (P3-1-07)	1.050	0.025	1.028	0.064	81	14	0.17	A	Diffusion	H27BEC-WHCH-06/1	250	F	R H S	32	xLow	Master	FA Conn. Size 150 Dia
01-27	Breakout Area (P3-1-11)	1.050	0.025	1.028	0.064	81	14	0.17	A	Diffusion	H27BEC-WHCH-06/1	250	B	R H S	32	xLow	Master	FA Conn. Size 150 Dia



Q15030903 Rev 2

Flowcon Valve Schedule
Project: NRA Parkgate Street

02/06/2015

LPHW

Line	REF	FLOW (l/s)	Line Size (mm)	Cart	Valve	Press Range (kPaD)	Valve Size (mm)	Valve Kv	Setting	Delivered Flow (l/s)	Pressure Drop (kPa)
28	01-01	0.036		Green 0	AB	16 200	15	2.6	1.4	0.0419	16.3
29	01-02	0.069		Green 0	AB	16 200	15	2.6	1.8	0.0719	17.0
30	01-03	0.077		Green 0	AB	16 200	15	2.6	1.9	0.0781	17.2
31	01-04	0.077		Green 0	AB	16 200	15	2.6	1.9	0.0781	17.2
32	01-05	0.077		Green 0	AB	16 200	15	2.6	1.9	0.0781	17.2
33	01-06	0.077		Green 0	AB	16 200	15	2.6	1.9	0.0781	17.2
34	01-07	0.095		Green 0	AB	16 200	15	2.6	2.3	0.0981	17.8
35	01-08	0.036		Green 0	AB	16 200	15	2.6	1.4	0.0419	16.3
36	01-09	0.025		Green 0	AB	16 200	15	2.6	1.3	0.0322	16.2
37	01-10	0.025		Green 0	AB	16 200	15	2.6	1.3	0.0322	16.2
38	01-11	0.095		Green 0	AB	16 200	15	2.6	2.3	0.0981	17.8
39	01-12	0.095		Green 0	AB	16 200	15	2.6	2.3	0.0981	17.8
40	01-13	0.064		Green 0	AB	16 200	15	2.6	1.7	0.065	16.8
41	01-14	0.067		Green 0	AB	16 200	15	2.6	1.8	0.0719	17.0
42	01-15	0.067		Green 0	AB	16 200	15	2.6	1.8	0.0719	17.0
43	01-16	0.062		Green 0	AB	16 200	15	2.6	1.7	0.0650	16.8
44	01-17	0.036		Green 0	AB	16 200	15	2.6	1.4	0.0419	16.3
45	01-18	0.1130		Green 0	AB	16 200	15	2.6	2.7	0.113	18.4
46	01-19	0.095		Green 0	AB	16 200	15	2.6	2.3	0.0981	17.8
47	01-20	0.095		Green 0	AB	16 200	15	2.6	2.3	0.0981	17.8
48	01-21	0.095		Green 0	AB	16 200	15	2.6	2.3	0.0981	17.8
49	01-22	0.095		Green 0	AB	16 200	15	2.6	2.3	0.0981	17.8
50	01-23	0.034		Green 0	AB	16 200	15	2.6	1.4	0.0419	16.3
51	01-24	0.073		Green 0	AB	16 200	15	2.6	1.9	0.0781	17.2
52	01-25	0.025		Green 0	AB	16 200	15	2.6	1.3	0.0322	16.2
53	01-26	0.025		Green 0	AB	16 200	15	2.6	1.3	0.0322	16.2
54	01-27	0.025		Green 0	AB	16 200	15	2.6	1.3	0.0322	16.2

CHW

FLOW (l/s)	Line Size (mm)	Cart	Valve	Press Range (kPaD)	Valve Size (mm)	Valve Kv	Setting	Delivered Flow (l/s)	Pressure Drop (kPa)
0.197		Green 1	AB	30 400	20	2.6	2.6	0.202	37.8
0.217		Green 1	AB	30 400	20	2.6	2.8	0.218	39.1
0.235		Green 1	AB	30 400	20	2.6	4.3	0.239	41.0
0.235		Green 1	AB	30 400	20	2.6	4.3	0.239	41.0
0.235		Green 1	AB	30 400	20	2.6	4.3	0.239	41.0
0.235		Green 1	AB	30 400	20	2.6	4.3	0.239	41.0
0.267		Green 1	AB	30 400	20	2.6	3.6	0.268	43.8
0.197		Green 1	AB	30 400	20	2.6	2.6	0.202	37.8
0.064		Green 0	AB	16 200	20	2.6	1.7	0.065	16.8
0.074		Green 0	AB	16 200	20	2.6	1.9	0.0781	17.2
0.272		Green 1	AB	30 400	20	2.6	3.7	0.273	44.3
0.272		Green 1	AB	30 400	20	2.6	3.7	0.273	44.3
0.235		Green 1	AB	30 400	20	2.6	4.3	0.239	41.0
0.331		Green 2	AB	16 400	25	12.5	1.3	0.361	17.1
0.331		Green 2	AB	16 400	25	12.5	1.3	0.361	17.1
0.217		Green 1	AB	30 400	20	2.6	2.8	0.218	39.1
0.197		Green 1	AB	30 400	20	2.6	2.6	0.202	37.8
0.361		Green 2	AB	16 400	25	12.5	1.3	0.361	17.1
0.267		Green 1	AB	30 400	20	2.6	3.6	0.268	43.8
0.267		Green 1	AB	30 400	20	2.6	3.6	0.268	43.8
0.267		Green 1	AB	30 400	20	2.6	3.6	0.268	43.8
0.267		Green 1	AB	30 400	20	2.6	3.6	0.268	43.8
0.072		Green 0	AB	16 200	20	2.6	1.9	0.0781	17.2
0.236		Green 1	AB	30 400	20	2.6	4.3	0.239	41.0
0.074		Green 0	AB	16 200	20	2.6	1.9	0.0781	17.2
0.064		Green 0	AB	16 200	20	2.6	1.7	0.065	16.8
0.064		Green 0	AB	16 200	20	2.6	1.7	0.065	16.8

SYMBOLS / LEGEND

VENTILATION LEGEND

- FAN COIL UNIT (FCU).
- PRIMARY EXTRACT AIR.
- PRIMARY Fresh Air.
- SECONDARY Fresh Air.
- TOILET EXTRACT.
- SUPPLY DIFFUSER.
- EXTRACT DIFFUSER.
- CROSSTALK ATTENUATORS (MOUNTED IN CEILING.
- FIRE DAMPER.
- NEW FIRE DAMPER.

DTLL	DROP TO LOW LEVEL
TA	TO ABOVE
FA	FROM ABOVE
TB	TO BELOW
FB	FROM BELOW
DTFV	DROP TO FLOOR VOID
DTFF	DROP TO FALSE FLOOR
RFFF	RISE FROM FALSE FLOOR
RFFV	RISE FROM FLOOR VOID
CTBU	CONNECT TO BUILDERS UPSTAND
CT	CONNECT TO
TA	TO ABOVE
FA	FROM ABOVE
TB	TO BELOW
FB	FROM BELOW
SVP	SOIL AND VENT PIPE
CE	CLEANING EYE
RT	RUNNING TRAP
FW	FIRE WRAP

Rev.	Date	By	Description	Chd By
R	21/08/15	BC	RECORD DRAWING ISSUE	PY

Drawing Status: Record Drawing

Client: NRA / RPA

Architect: NRA / RPA

Consultant: Murphy Belton Consulting Engineers

Haughton & Young Limited
Mechanical Engineering Contractors
Unit 16, The Business Centre, Stadium Business Park, Dublin 11.
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Job Title: RPA / NRA
Office Consolidation
Parkgate Street, Dublin

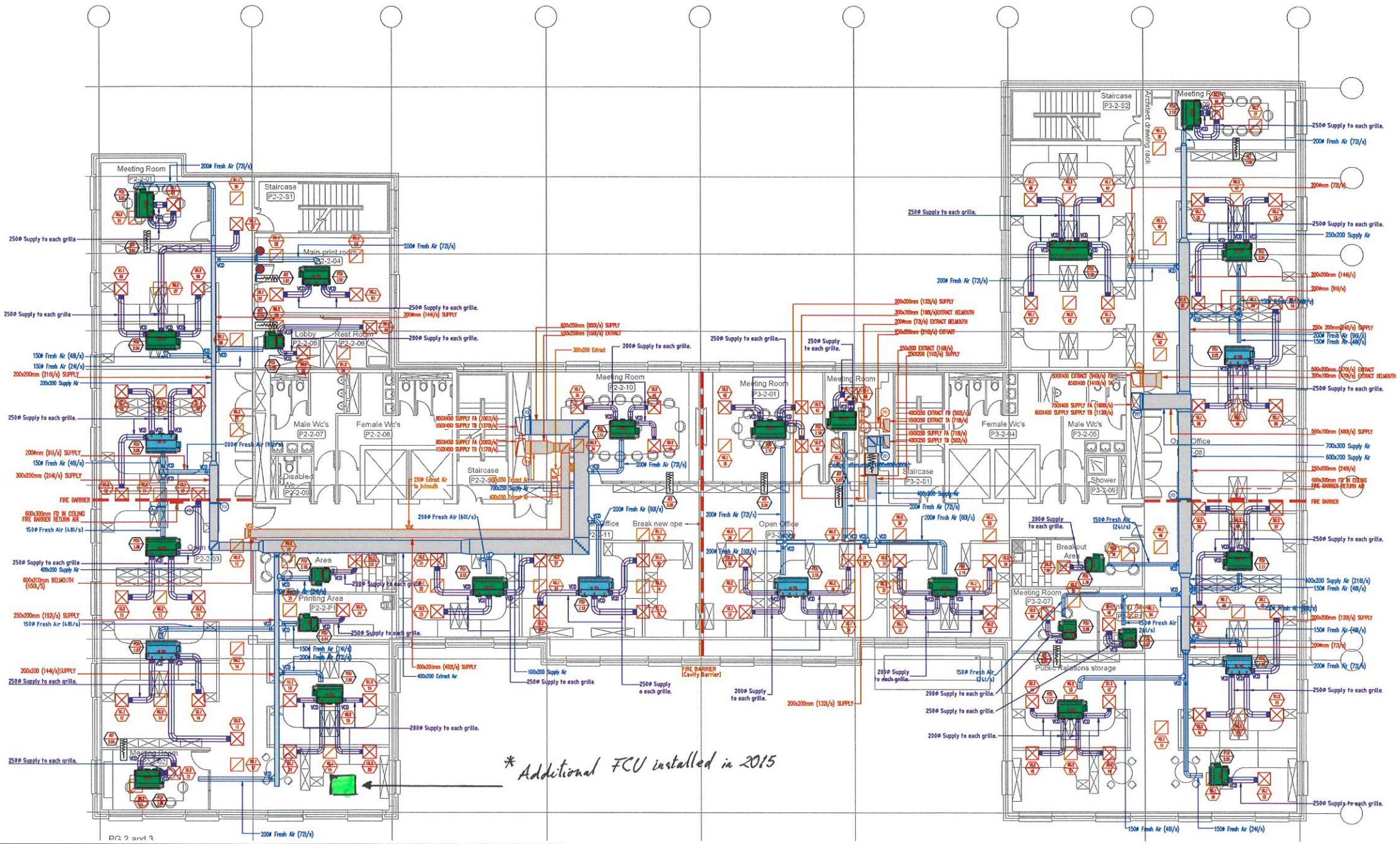
Drawing Title: Mechanical Services
FirstFloor Plan
A/C & Ventilation Layout

Scales: 1:100 @ A1 | Started by: DAH
Checked: PY | Approved: PY | Created: May 15

Job No.: 722 | Drawing No.: M 1 00 | Rev.: R

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10 cm - SCALE WITH CAUTION AS DISTORTION CAN OCCUR



SYMBOLS	LEGEND
	VENTILATION LEGEND
	FAN COIL UNIT (FCU).
	PRIMARY EXTRACT AIR.
	PRIMARY SUPPLY AIR.
	SECONDARY SUPPLY AIR.
	TOILET EXTRACT.
	SUPPLY DIFFUSER.
	EXTRACT DIFFUSER.
	CROSSTALK ATTENUATORS MOUNTED IN CEILING.
	FIRE DAMPER.
	NEW FIRE DAMPER.

DTLL	DROP TO LOW LEVEL
TA	TO ABOVE
FA	FROM ABOVE
TB	TO BELOW
FB	FROM BELOW
DTFV	DROP TO FLOOR VOID
DTFF	DROP TO FALSE FLOOR
RFFF	RISE FROM FALSE FLOOR
RFFV	RISE FROM FLOOR VOID
CTBU	CONNECT TO BUILDERS UPSTAND
CT	CONNECT TO
TA	TO ABOVE
FA	FROM ABOVE
TB	TO BELOW
FB	FROM BELOW
SVP	SOIL AND VENT PIPE
CE	CLEANING EYE
RT	RUNNING TRAP
FW	FIRE WRAP

SCHEDULE OF FAN COIL UNITS

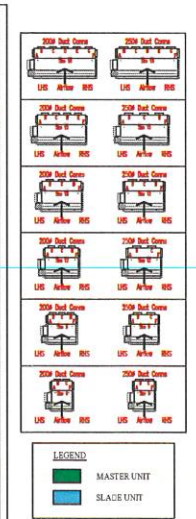
Client: NRA

Project: NRA Parkgate Street

Project Number: 722

Revision / Date: 5 — 23 June 2015

Ref. No.	Area Served	Heating Load (kW)	LPHW Flow (l/s)	Cooling Load (kW)	CHW Flow (l/s)	Air Flow l/s	Motor Power (w)	SFP W/l/s	Block	Make	Model	Duct Connections Size	Conns	Unit Handing	Weight Kg	Speed Setting	Type	Remarks
SECOND FLOOR UNITS																		
02-01	Meeting Room (P2-2-01)	1.512	0.036	3.142	0.197	238	34	0.14	B	Diffusion	H2TBEC-W1CH-13/2	250	C - F	L H S	54	Low+1	Master	FA Conn. Size 200 Dia
02-02	Main Print Room (P2-2-04)	1.890	0.045	4.227	0.267	238	34	0.14	B	Diffusion	H2TBEC-W1CH-13/2	250	B - D	R H S	54	Low+1	Master	FA Conn. Size 200 Dia (FD)
02-03	Lobby (P2-2-05)	1.008	0.024	1.323	0.079	119	27	0.23	B	Diffusion	H2TBEC-W1CH-06/1	200	A - C	L H S	32	Low+3	Master	FA Conn. Size 150 Dia
02-04	Open Office (P2-2-03)	3.234	0.077	3.736	0.235	283	45	0.16	B	Diffusion	H2TBEC-W1CH-15/2	250	A - C - F	R H S	63	Low+3	Master	FA Conn. Size 150 Dia
02-05	Open Office (P2-2-03)	3.234	0.077	3.736	0.235	283	45	0.16	B	Diffusion	H2TBEC-W1CH-15/2	250	A - B - D	R H S	63	Low+3	Slave	FA Conn. Size 150 Dia (FD)
02-06	Open Office (P2-2-03)	3.234	0.077	3.736	0.235	283	45	0.16	B	Diffusion	H2TBEC-W1CH-15/2	250	A - B - D	L H S	63	Low+3	Slave	FA Conn. Size 150 Dia (FD)
02-07	Open Office (P2-2-03)	3.234	0.077	3.736	0.235	283	45	0.16	B	Diffusion	H2TBEC-W1CH-15/2	250	A - B - D	L H S	63	Low+3	Slave	FA Conn. Size 150 Dia
02-08	Open Office (P2-2-03)	3.990	0.095	4.227	0.267	328	61	0.19	B	Diffusion	H2TBEC-W1CH-13/2	200	A - B - D - F	R H S	54	Medium	Master	FA Conn. Size 200 Dia
02-09	Meeting Room (P2-2-02)	1.512	0.036	3.142	0.197	238	34	0.14	B	Diffusion	H2TBEC-W1CH-13/2	250	B - F	R H S	54	Low+1	Master	FA Conn. Size 200 Dia
02-10	Breakout Area (P2-2-12)	1.050	0.025	1.028	0.064	81	14	0.17	B	Diffusion	H2TBEC-W1CH-06/1	200	B	R H S	32	xLow	Master	FA Conn. Size 150 Dia
02-11	Printing Area (P2-2-01)	1.050	0.025	1.288	0.074	106	22	0.2	B	Diffusion	H2TBEC-W1CH-06/1	250	B	L H S	32	Low+1	Master	FA Conn. Size 150 Dia
02-12	Open Office (P2-2-11)	2.982	0.071	4.330	0.272	328	60	0.18	B	Diffusion	H2TBEC-W1CH-15/2	250	A - C - F	L H S	63	Medium	Slave	FA Conn. Size 200 Dia
02-13	Open Office (P2-2-11)	2.982	0.071	4.330	0.272	328	60	0.18	B	Diffusion	H2TBEC-W1CH-15/2	250	A - C - F	L H S	63	Medium	Slave	FA Conn. Size 200 Dia
02-14	Open Office (P3-2-03)	2.982	0.071	4.330	0.272	328	60	0.18	A	Diffusion	H2TBEC-W1CH-15/2	200	A - B - E - F	R H S	63	Medium	Slave	FA Conn. Size 200 Dia
02-15	Open Office (P3-2-03)	2.982	0.071	4.330	0.272	328	60	0.18	A	Diffusion	H2TBEC-W1CH-15/2	200	A - B - E - F	R H S	63	Medium	Slave	FA Conn. Size 200 Dia
02-16	Meeting Room (P2-2-10)	1.008	0.024	3.142	0.197	238	34	0.14	B	Diffusion	H2TBEC-W1CH-13/2	200	B - D - F	R H S	54	Low+1	Master	FA Conn. Size 200 Dia
02-17	Meeting Room (P3-2-01)	2.688	0.064	5.267	0.331	399	68	0.17	A	Diffusion	H2TBEC-W1CH-15/2	250	B - D - F	L H S	67	Medium	Master	FA Conn. Size 200 Dia
02-18	Meeting Room (P3-2-02)	1.008	0.024	3.142	0.197	238	34	0.14	A	Diffusion	H2TBEC-W1CH-13/2	250	B - D	L H S	54	Low+1	Master	FA Conn. Size 200 Dia (FD)
02-19	Meeting Room (P3-2-09)	1.512	0.036	3.142	0.197	238	34	0.14	A	Diffusion	H2TBEC-W1CH-13/2	250	C - F	R H S	54	Low+1	Master	FA Conn. Size 200 Dia
02-20	Open Office (P3-2-08)	5.000	0.113	5.742	0.361	455	56	0.16	A	Diffusion	H2TBEC-W1CH-18/4	250	A - C - E - F	R H S	86	Low+3	Master	FA Conn. Size 200 Dia
02-21	Open Office (P3-2-08)	3.990	0.095	4.227	0.267	328	61	0.19	A	Diffusion	H2TBEC-W1CH-13/2	250	A - B - D	L H S	54	Medium	Slave	FA Conn. Size 150 Dia
02-22	Open Office (P3-2-08)	3.990	0.095	4.227	0.267	328	61	0.19	A	Diffusion	H2TBEC-W1CH-13/2	250	A - B - D	L H S	54	Medium	Slave	FA Conn. Size 150 Dia
02-23	Open Office (P3-2-08)	3.990	0.095	4.227	0.267	328	61	0.19	A	Diffusion	H2TBEC-W1CH-13/2	250	A - B - D	L H S	54	Medium	Slave	FA Conn. Size 150 Dia
02-24	Open Office (P3-2-08)	3.990	0.095	4.227	0.267	328	61	0.19	A	Diffusion	H2TBEC-W1CH-13/2	250	A - B - D	R H S	54	Medium	Slave	FA Conn. Size 150 Dia
02-25	Open Office (P3-2-08)	1.428	0.034	1.323	0.079	119			A	Diffusion	H2TBEC-W1CH-09/2	200	C - F	L H S	44			FA Conn. Size 150 Dia
02-26	Open Office (P3-2-08)	1.890	0.045	3.749	0.226	284	47	0.16	A	Diffusion	H2TBEC-W1CH-13/2	200	A - B - D - F	L H S	54	Low+3	Master	FA Conn. Size 150 Dia
02-27	Printing Area (P3-2-P1)	1.050	0.025	1.288	0.074	106	22	0.2	A	Diffusion	H2TBEC-W1CH-06/1	250	F	R H S	32	Low+1	Master	FA Conn. Size 150 Dia
02-28	Meeting Room (P3-2-07)	1.050	0.025	1.028	0.064	81	14	0.17	A	Diffusion	H2TBEC-W1CH-06/1	200	F	R H S	32	xLow	Master	FA Conn. Size 150 Dia
02-29	Breakout Area (P3-2-10)	1.050	0.025	1.028	0.064	81	14	0.17	A	Diffusion	H2TBEC-W1CH-06/1	200	B	R H S	32	xLow	Master	FA Conn. Size 150 Dia



Flowcon Valve Schedule
Project: NRA Parkgate Street

Q15030063 Rev 2 — 02/06/2015

Line	REF	FLOW (l/s)	Line Size (mm)	Cert	Valve	Press Range (kPa)	Valve Size	Valve Kv	Setting	Delivered Flow (l/s)	Pressure Drop (kPa)
55	02-01	0.036		Green 0	AB	15 200	15	2.6	1.4	0.0419	16.3
56	02-02	0.045		Green 0	AB	15 200	15	2.6	1.5	0.0550	15.3
57	02-03	0.024		Green 0	AB	15 200	15	2.6	1.3	0.0322	16.2
58	02-04	0.077		Green 0	AB	15 200	15	2.6	1.9	0.0781	17.2
59	02-05	0.077		Green 0	AB	15 200	15	2.6	1.9	0.0781	17.2
60	02-06	0.077		Green 0	AB	15 200	15	2.6	1.9	0.0781	17.2
61	02-07	0.077		Green 0	AB	15 200	15	2.6	1.9	0.0781	17.2
62	02-08	0.095		Green 0	AB	15 200	15	2.6	2.2	0.0961	17.8
63	02-09	0.036		Green 0	AB	15 200	15	2.6	1.4	0.0419	16.3
64	02-10	0.025		Green 0	AB	15 200	15	2.6	1.3	0.0322	16.2
65	02-11	0.025		Green 0	AB	15 200	15	2.6	1.3	0.0322	16.2
66	02-12	0.071		Green 0	AB	15 200	15	2.6	1.8	0.0719	17.0
67	02-13	0.071		Green 0	AB	15 200	15	2.6	1.8	0.0719	17.0
68	02-14	0.071		Green 0	AB	15 200	15	2.6	1.8	0.0719	17.0
69	02-15	0.071		Green 0	AB	15 200	15	2.6	1.8	0.0719	17.0
70	02-16	0.024		Green 0	AB	15 200	15	2.6	1.3	0.0322	16.2
71	02-17	0.064		Green 0	AB	15 200	15	2.6	1.7	0.065	16.5
72	02-18	0.024		Green 0	AB	15 200	15	2.6	1.3	0.0322	16.2
73	02-19	0.036		Green 0	AB	15 200	15	2.6	1.4	0.0419	16.3
74	03-20	0.113		Green 0	AB	15 200	15	2.6	2.7	0.113	16.4
75	02-21	0.095		Green 0	AB	15 200	15	2.6	2.2	0.0961	17.8
76	02-22	0.095		Green 0	AB	15 200	15	2.6	2.2	0.0961	17.8
77	02-23	0.095		Green 0	AB	15 200	15	2.6	2.2	0.0961	17.8
78	02-24	0.095		Green 0	AB	15 200	15	2.6	2.2	0.0961	17.8
79	02-25	0.034		Green 0	AB	15 200	15	2.6	1.4	0.0419	16.3
80	02-26	0.045		Green 0	AB	15 200	15	2.6	1.5	0.0520	15.3
81	02-27	0.025		Green 0	AB	15 200	15	2.6	1.3	0.0322	16.2
82	02-28	0.025		Green 0	AB	15 200	15	2.6	1.3	0.0322	16.2
83	02-29	0.025		Green 0	AB	15 200	15	2.6	1.3	0.0322	16.2

Line	FLOW (l/s)	Line Size (mm)	Cert	Valve	Press Range (kPa)	Valve Size (mm)	Valve Kv	Setting	Delivered Flow (l/s)	Pressure Drop (kPa)
1	0.197		Green 1	AB	30 400	20	2.6	2.6	0.202	37.8
2	0.197		Green 1	AB	30 400	20	2.6	3.6	0.208	43.8
3	0.079		Green 1	AB	15 200	15	2.6	2.0	0.0839	17.1
4	0.223		Green 1	AB	30 400	20	2.6	4.3	0.239	41.0
5	0.235		Green 1	AB	30 400	20	2.6	4.3	0.239	41.0
6	0.235		Green 1	AB	30 400	20	2.6	4.3	0.239	41.0
7	0.235		Green 1	AB	30 400	20	2.6	4.3	0.239	41.0
8	0.197		Green 1	AB	30 400	20	2.6	3.6	0.202	37.8
9	0.054		Green 1	AB	15 200	15	2.6	1.2	0.0781	17.2
10	0.272		Green 1	AB	30 400	20	2.6	5.7	0.273	44.3
11	0.272		Green 1	AB	30 400	20	2.6	5.7	0.273	44.3
12	0.272		Green 1	AB	30 400	20	2.6	5.7	0.273	44.3
13	0.197		Green 1	AB	30 400	20	2.6	3.6	0.202	37.8
14	0.331		Green 1	AB	15 400	25	13.5	1.3	0.361	17.1
15	0.197		Green 1	AB	30 400	20	2.6	3.6	0.202	37.8
16	0.197		Green 1	AB	30 400	20	2.6	3.6	0.202	37.8
17	0.361		Green 2	AB	15 400	25	12.5	1.3	0.361	17.1
18	0.297		Green 1	AB	30 400	20	2.6	3.6	0.208	43.8
19	0.297		Green 1	AB	30 400	20	2.6	3.6	0.208	43.8
20	0.297		Green 1	AB	30 400	20	2.6	3.6	0.208	43.8
21	0.297		Green 1	AB	30 400	20	2.6	3.6	0.208	43.8
22	0.079		Green 0	AB	15 200	15	2.6	2.0	0.0839	17.1
23	0.235		Green 1	AB	30 400	20	2.6	4.3	0.239	41.0
24	0.074		Green 0	AB	15 200	15	2.6	1.9	0.0781	17.2
25	0.064		Green 0	AB	15 200	15	2.6	1.7	0.065	16.8
26	0.064		Green 0	AB	15 200	15	2.6	1.7	0.065	16.8

R	RECORD DRAWING ISSUE — PY
Rev.	Date — By — Description — Chd By

Drawing Status: Record Drawing

Client: NRA / RPA

Architect: NRA / RPA

Consultant: Murphy Belton Consulting Engineers

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Job Title: RPA / NRA Office Consolidation Parkgate Street, Dublin

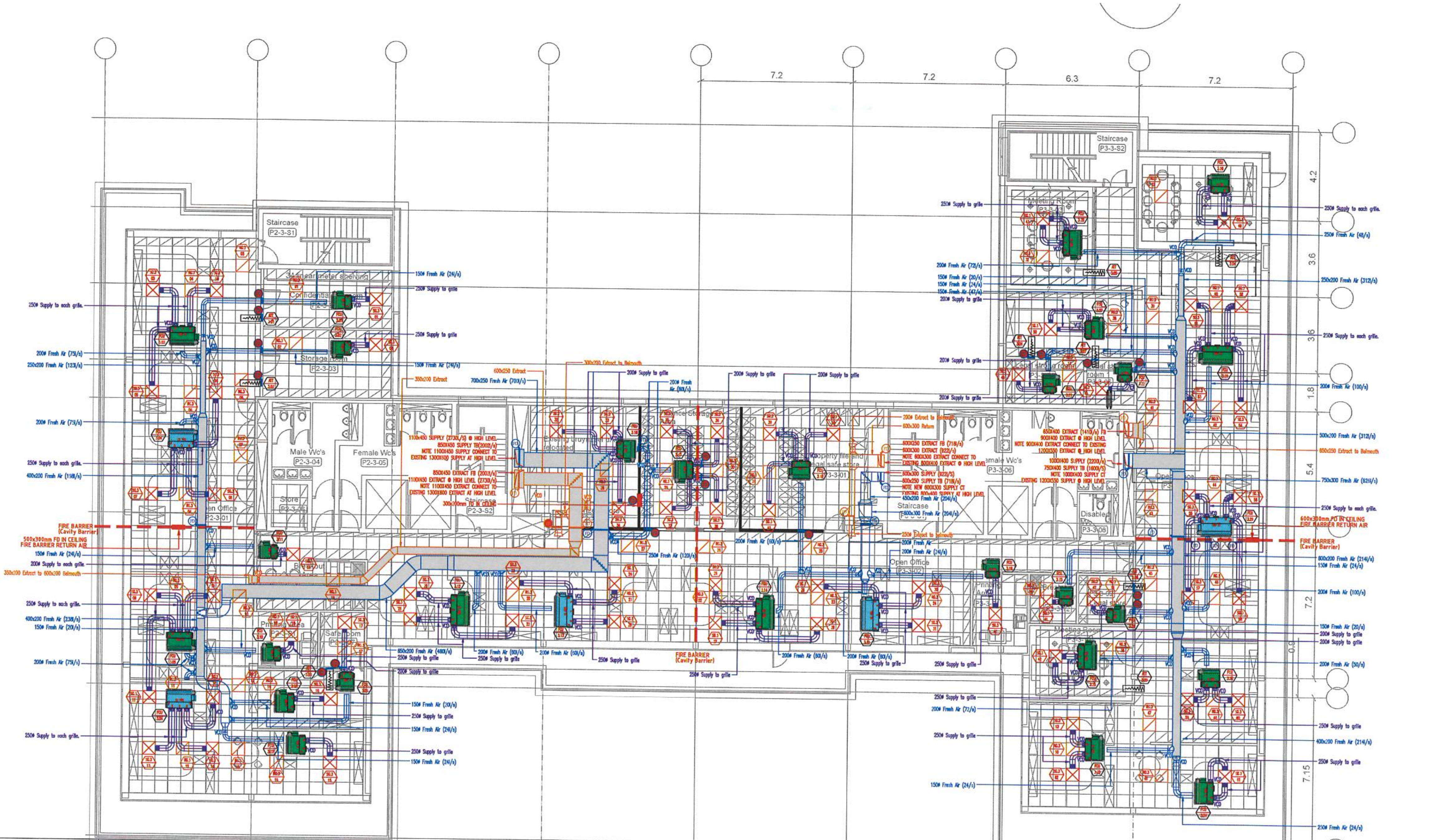
Drawing Title: Mechanical Services Second Floor Plan A/C & Ventilation Layout

Scales: 1:100 @ A1 — Started by: DAH — Checked: PY — Approved: PY — Created: May 15

Job No: 722 — Drawing No: M 2 00 — Rev: R

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10 cm - SCALE WITH CAUTION AS DISTORTION CAN OCCUR



SYMBOLS / LEGEND

VENTILATION LEGEND

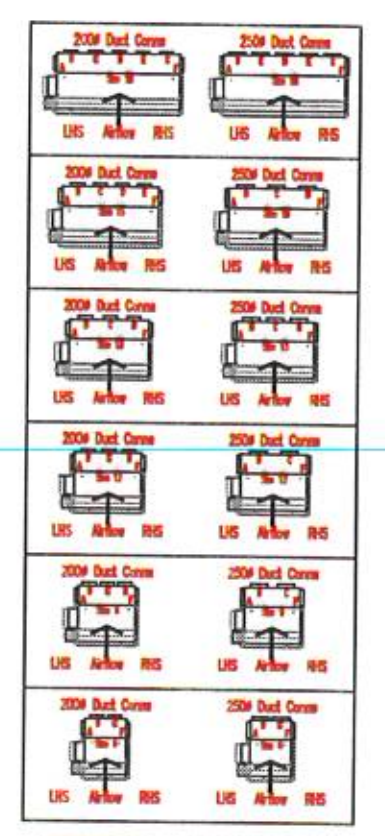
- FAN COIL UNIT (FCU).
- PRIMARY EXTRACT AIR.
- PRIMARY Fresh Air.
- SECONDARY Fresh Air.
- TOILET EXTRACT.
- SUPPLY DIFFUSER.
- EXTRACT DIFFUSER.
- CROSSTALK ATTENUATORS (MOUNTED IN CEILING.
- FIRE DAMPER.
- NEW FIRE DAMPER.

DTLL	DROP TO LOW LEVEL
TA	TO ABOVE
FA	FROM ABOVE
TB	TO BELOW
FB	FROM BELOW
DTFV	DROP TO FLOOR VOID
DTFF	DROP TO FALSE FLOOR
RFFF	RISE FROM FALSE FLOOR
RFFV	RISE FROM FLOOR VOID
CTBU	CONNECT TO BUILDERS UPSTAND
CT	CONNECT TO
TA	TO ABOVE
FA	FROM ABOVE
TB	TO BELOW
FB	FROM BELOW
SVP	SOIL AND VENT PIPE
CE	CLEANING EYE
RT	RUNNING TRAP
FW	FIRE WRAP

SCHEDULE OF FAN COIL UNITS

Client: NRA Parkgate Street
Project
Project Number: 722
Revision / Date: 5 | 23 June 2015

Ref. No.	Area Served	Heating Load (kW)	LPHW Flow (l/s)	Cooling Load (kW)	CHW Flow (l/s)	Air Flow l/s	Motor Power (w)	SFP W/l/s	Block	Make	Model	Duct Connections Size	Duct Connections Conns	Unit Handing	Weight Kg	Speed Setting	Type	Remarks
THIRD FLOOR UNITS																		
03-01	Confidential File Room (P2-3-02)	1.386	0.033	1.146	0.083	132	28	0.21	B	Diffusion	H27BEC-WHCH-06/2	250	B	R H S	32	Low+3	Master	FA Conn. Size 150 Dia (FD)
03-02	Storage Room (P2-3-03)	1.386	0.033	1.146	0.083	132	28	0.21	B	Diffusion	H27BEC-WHCH-06/2	250	B	L H S	32	Low+3	Master	FA Conn. Size 150 Dia (FD)
03-03	Open Office (P2-3-01)	7.845	0.177	4.277	0.267	328	61	0.19	B	Diffusion	H27BEC-WHCH-13/2	250	A - B - D	R H S	54	Medium	Master	FA Conn. Size 200 Dia
03-04	Open Office (P2-3-01)	7.845	0.177	4.277	0.267	328	61	0.19	B	Diffusion	H27BEC-WHCH-13/2	250	A - B - D	L H S	54	Medium	Slave	FA Conn. Size 200 Dia
03-05	Open Office (P2-3-01)	7.845	0.177	4.277	0.267	328	61	0.19	B	Diffusion	H27BEC-WHCH-13/2	250	A - B - D	R H S	54	Medium	Master	FA Conn. Size 200 Dia
03-06	Open Office (P2-3-01)	7.845	0.177	4.277	0.267	328	61	0.19	B	Diffusion	H27BEC-WHCH-13/2	250	B - C - D	L H S	54	Medium	Slave	FA Conn. Size 200 Dia
03-07	Open Office (P2-3-01)	1.764	0.042	1.533	0.092	139	28	0.2	B	Diffusion	H27BEC-WHCH-09/1	250	B	L H S	44	Low+2	Master	FA Conn. Size 150 Dia
03-08	Open Office (P2-3-01)	1.764	0.042	1.533	0.092	139	28	0.2	B	Diffusion	H27BEC-WHCH-09/1	250	B	L H S	44	Low+2	Master	FA Conn. Size 150 Dia
03-09	Safe Room (P2-3-07)	1.848	0.044	1.028	0.064	81	14	0.17	B	Diffusion	H27BEC-WHCH-06/1	200	B	L H S	32	xLow	Master	FA Conn. Size 150 Dia
03-10	Printing Area (P2-3-P1)	0.798	0.019	1.288	0.074	106	22	0.2	B	Diffusion	H27BEC-WHCH-06/1	250	B	L H S	32	Low+1	Master	FA Conn. Size 150 Dia
03-11	Breakout Area (P2-3-10)	0.966	0.023	1.028	0.064	81	14	0.17	B	Diffusion	H27BEC-WHCH-06/1	200	C	L H S	32	xLow	Master	FA Conn. Size 150 Dia
03-12	Open Office (P3-3-02)	9.742	0.220	5.267	0.331	399	68	0.17	B	Diffusion	H27BEC-WHCH-15/3	250	A - B - D	R H S	67	Medium	Master	FA Conn. Size 200 Dia
03-13	Open Office (P3-3-02)	9.742	0.220	5.267	0.331	399	68	0.17	B	Diffusion	H27BEC-WHCH-15/3	250	A - B - D	L H S	67	Medium	Slave	FA Conn. Size 200 Dia
03-14	Open Office (P3-3-02)	9.742	0.220	5.267	0.331	399	68	0.17	A	Diffusion	H27BEC-WHCH-15/3	250	A - B - D	R H S	67	Medium	Master	FA Conn. Size 200 Dia
03-15	Open Office (P3-3-02)	9.742	0.220	5.267	0.331	399	68	0.17	A	Diffusion	H27BEC-WHCH-15/3	250	A - B - D	L H S	67	Medium	Slave	FA Conn. Size 200 Dia
03-16	Bruynzeel Store (P2-3-08)	2.982	0.071	2.589	0.146	258	48	0.19	B	Diffusion	H27BEC-WHCH-09/2	200	A - C - F	L H S	44	Medium	Master	FA Conn. Size 200 Dia (each)
03-17	Financial Storage Area	2.982	0.071	2.589	0.146	258	48	0.19	B	Diffusion	H27BEC-WHCH-09/2	200	A - B - D - F	R H S	44	Medium	Master	FD on combined 250 Dia FA
03-18	Property File & Legal Safe Store	2.982	0.071	2.589	0.146	258	48	0.19	A	Diffusion	H27BEC-WHCH-09/2	200	A - B - D	L H S	44	Medium	Master	FA Conn. Size 200 Dia (FD)
03-19	Printing Area (P3-3-P1)	1.050	0.025	1.401	0.082	130	32	0.25	A	Diffusion	H27BEC-WHCH-06/1	250	B	R H S	32	Medium	Master	FA Conn. Size 150 Dia
03-20	Meeting Room (P3-3-03)	2.310	0.055	3.142	0.197	238	34	0.14	A	Diffusion	H27BEC-WHCH-13/2	250	C - F	L H S	54	Low+1	Master	FA Conn. Size 150 Dia
03-21	Legal Strong Room 1 (P3-3-04)	0.966	0.023	1.028	0.064	81	14	0.17	A	Diffusion	H27BEC-WHCH-06/1	200	F	L H S	32	xLow	Master	FA Conn. Size 150 Dia (FD)
03-22	Legal Store Room (P3-3-05)	1.848	0.044	1.028	0.064	81	14	0.17	A	Diffusion	H27BEC-WHCH-06/1	200	B	R H S	32	xLow	Master	FA Conn. Size 150 Dia (FD)
03-23	Breakout Area (P3-3-12)	0.966	0.023	1.028	0.064	81	14	0.17	A	Diffusion	H27BEC-WHCH-06/1	200	B	R H S	32	xLow	Master	FA Conn. Size 150 Dia
03-24	Legal Strong Room 2 (P3-3-09)	1.848	0.044	1.028	0.064	81	14	0.17	A	Diffusion	H27BEC-WHCH-06/1	200	C	R H S	32	xLow	Master	FA Conn. Size 150 Dia (FD)
03-25	Meeting Room (P3-3-10)	2.310	0.055	3.142	0.197	238	34	0.14	A	Diffusion	H27BEC-WHCH-13/2	250	A - C	R H S	54	Low+1	Master	FA Conn. Size 200 Dia
03-26	Open Office (P3-3-11)	5.652	0.128	2.589	0.146	258	48	0.19	A	Diffusion	H27BEC-WHCH-09/2	250	B - F	R H S	44	Medium	Master	FA Conn. Size 150 Dia
03-27	Open Office (P3-3-11)	1.974	0.047	1.632	0.096	150	32	0.21	A	Diffusion	H27BEC-WHCH-09/1	200	C - F	R H S	44	Low+3	Master	FA Conn. Size 150 Dia
03-28	Open Office (P3-3-11)	9.742	0.22	5.267	0.331	399	68	0.17	A	Diffusion	H27BEC-WHCH-15/3	250	A - B - D - F	L H S	67	Medium	Master	FA Conn. Size 200 Dia
03-29	Open Office (P3-3-11)	9.742	0.22	5.267	0.331	399	68	0.17	A	Diffusion	H27BEC-WHCH-15/3	250	A - B - D - F	L H S	67	Medium	Slave	FA Conn. Size 200 Dia
03-30	Open Office (P3-3-11)	3.192	0.076	2.589	0.146	258	48	0.19	A	Diffusion	H27BEC-WHCH-09/2	250	B - C	R H S	44	Medium	Master	FA Conn. Size 200 Dia
03-31	Open Office (P3-3-11)	6.028	0.136	2.869	0.174	244	36	0.15	A	Diffusion	H27BEC-WHCH-12/2	250	A - C	L H S	48	Low+2	Master	FA Conn. Size 150 Dia
03-32	Open Office (P3-3-11)	6.028	0.136	2.869	0.174	244	36	0.15	A	Diffusion	H27BEC-WHCH-12/2	250	B - C	R H S	48	Low+2	Master	FA Conn. Size 150 Dia



LEGEND
- MASTER UNIT
- SLAVE UNIT

Q15033963 Rev 2

Flowcon Valve Schedule
Project: NRA Parkgate Street

02/06/2015

Line	REF	FLOW (l/s)	Line Size (mm)	Cert	Valve	Press Range (kPaD)	Valve Size (mm)	Valve Kv	Setting	Delivered Flow (l/s)	Pressure Drop (kPa)
84	03-01	0.033		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
85	03-02	0.033		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
86	03-03	0.177		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
87	03-04	0.177		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
88	03-05	0.177		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
89	03-06	0.177		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
90	03-07	0.042		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
91	03-08	0.042		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
92	03-09	0.044		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
93	03-10	0.019		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
94	03-11	0.023		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
95	03-12	0.220		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
96	03-13	0.220		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
97	03-14	0.220		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
98	03-15	0.220		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
99	03-16	0.071		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
100	03-17	0.071		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
101	03-18	0.071		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
102	03-19	0.025		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
103	03-20	0.055		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
104	03-21	0.023		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
105	03-22	0.044		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
106	03-23	0.023		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
107	03-24	0.044		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
108	03-25	0.055		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
109	03-26	0.128		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
110	03-27	0.047		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
111	03-28	0.220		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
112	03-29	0.220		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
113	03-30	0.076		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
114	03-31	0.136		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
115	03-32	0.136		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

FLOW (l/s)	Line Size (mm)	Cert	Valve	Press Range (kPaD)	Valve Size (mm)	Valve Kv	Setting	Delivered Flow (l/s)	Pressure Drop (kPa)
0.083		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.083		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.267		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.267		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.267		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.267		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.092		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.092		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.064		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.074		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.064		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.331		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.331		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.331		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.331		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.146		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.146		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.146		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.082		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.197		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.064		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.064		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.064		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.064		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.197		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.146		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.096		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.331		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.331		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.146		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.174		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0.174		[illegible]	AB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Rev.	Date	By	Description	Chd By
R	11/8/15	BC	RECORD DRAWING ISSUE	PY

Drawing Status: Record Drawing

Client: NRA / RPA

Architect: NRA / RPA

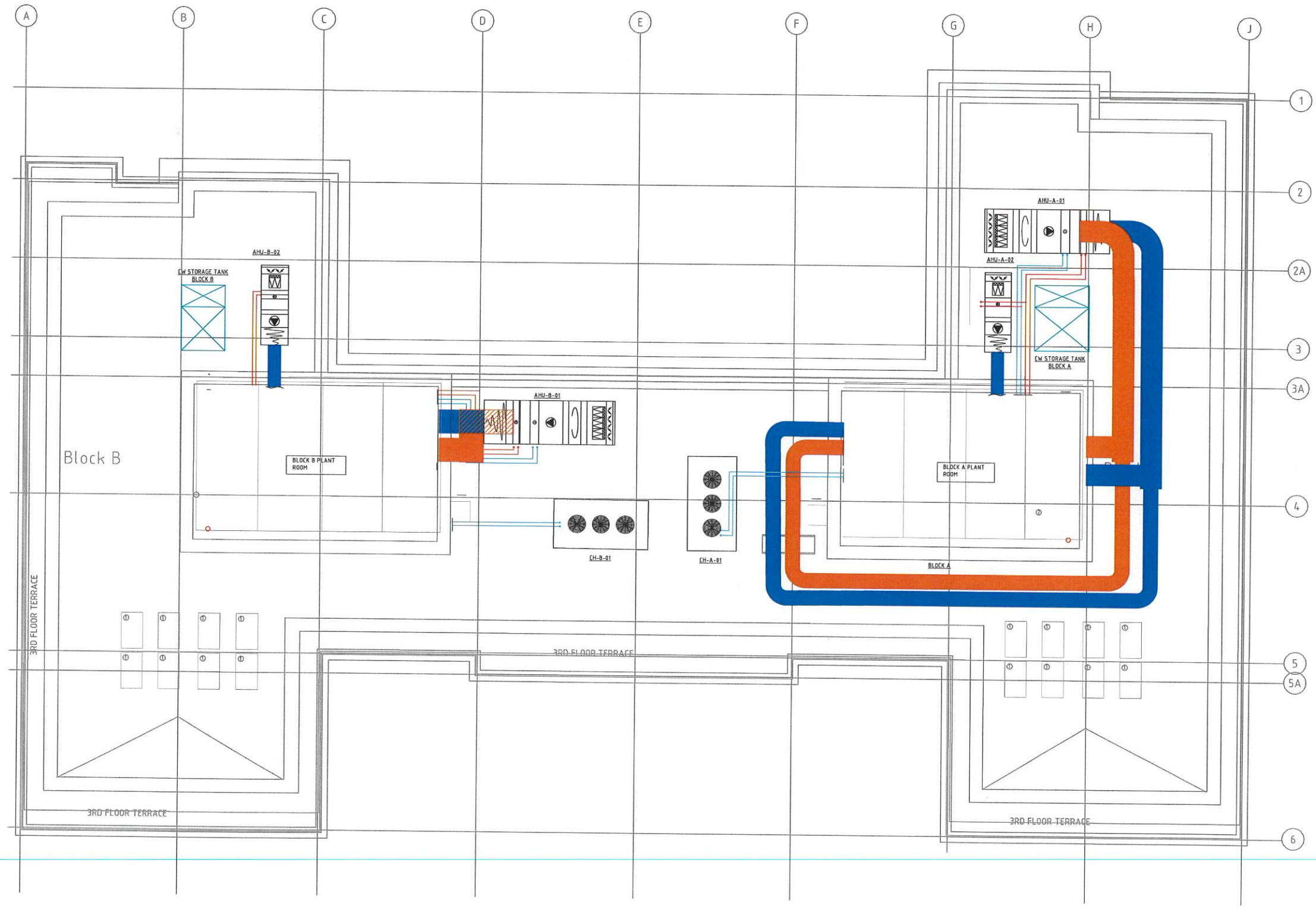
Consultant: Murphy Belton Consulting Engineers

Haughton & Young Limited
Mechanical Engineering Contractors
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Job Title: RPA / NRA Office Consolidation Parkgate Street, Dublin

Drawing Title: Mechanical Services Third Floor Plan A/C & □entilation Layout

Scales	Started by	Checked	Approved	Created	Job No.	Drawing No.	Rev.
1:100 @ A1	DAH	PY	PY	May 15	722	M □00	R



NOTES :

LEGEND

CHILLED WATER FLOW & RETURN

LPHW FLOW & RETURN

MAINS WATER SERIVICES

ACCESS

EXTRACT AIR (EA)

FRESH AIR SUPPLY (FA)

McKeon Group

PROJECT:

TII-PREVENTATIVE MAINTENANCE & OFFICE FIT OUT

DRAWING TITLE:

BLOCK A&B ROOF PLANT LAYOUT AS BUILT

CLIENT:

TRANSPORT INFRASTRUCTURE IRELAND

SCALE:	DRAWN BY:	JOB NO:	DWG. NO:	REV:
1:100@A1	L.NOLAN	M111310	3.013/.023	00
DATE: 08-05-19	CHECKED BY: J.WHEATLEY			

APPROVAL☐ INFORMATION■ TENDER☐ CONTRACT☐ CONSTRUCTION☐

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