



General Notes

This drawing must not be scaled. All dimensions to be checked.

This drawing is to be read in conjunction with all relevant structural engineer's drawing and details, the specification for the works, the relevant architects drawings and any other specialists drawings.

Note that 'As Installed Record Drawings' should be used for co-ordination of MEP Systems. This drawing is for Design intent only.

MECHANICAL LEGEND	
	Existing Units
	New Units
	Relocated Units
	Existing Services
	New CHW Services
	New LTHW Services
	New Refrigerant Services
	New Condensate Services
	AC Controller
	Temperature Sensor
	New Supply Air / Fresh Air
	New Return Air / Extract
	Relocated Supply Air / Fresh Air
	Relocated Return Air / Extract
	Extract Fan
	Volume Control Damper
	Motorized Control Damper
	Fire Damper
	Heater Battery
	Attenuator / Silencer
	CO2 Sensor
	Access Panel
	Cut Back Linear Diffuser

**Return Air Path Openings**  
The following opening sizes shall be made in the full height partitioning within the ceiling space in the following rooms:  
Quiet Room / Office - 200x100  
Meeting Room - 300x200

Rev	Description	By	Date
H	Mechanical updated as per client meeting	F.C.	08-03-18
G	HRU repositioned, fire dampers added, ductwork modified	F.C.	06-03-18
F	Plant Room rearranged	F.C.	05-03-18
E	AHU Fresh Air DWK amended	G.G.	02-03-18
D	Front View Added	R.W.	02-03-18
C	Refrigerant routes added	F.M.	01-03-18
B	Changed to Pre-Design	R.W.	21-02-18
A	Final Issue	F.M.	08-02-18

**Conditioned Environment**  
Specialists in Mechanical Services

Conditioned Environment  
(Mechanical Services) Ltd  
245 Acton Lane, Park Royal  
London NW10 7NR  
T 020 8453 1010  
F 020 8965 8469  
E enquiries@c-env.co.uk  
www.c-env.co.uk

Client  
**Maris**

Project  
**Fordham University  
150-152 Clerkenwell Road  
London - EC1R 5EQ**

Drawing Title  
**4th Floor Mechanical Services Layout**

Drawing Status  
**Construction**

Designed By: **J.G.** | Drawn By: **F.M.** | Checked By: **K.S.**

1st Issue Date: **06-02-18** | Scale: **1:100**

Project: **4424** | Serv.: **M** | Floor: **04** | Ref: **MEC** | Sheet: **01** | Rev: **H**

Grille Schedule						
Grille Reference	Grille Model	Location	Air Volume		Overall Dimensions	
			l/s	mm	mm	mm
SG-04-01	G05	Office 1	47.0	600	594x594	2500
SG-04-02	G05	Office 2	91.0	600	594x594	2500
SG-04-03	G05	Office 3	76.0	600	594x594	2500
SG-04-04	G05	Head's Office	92.0	600	594x594	2500
RG-04-01	G05	Office 1	N/A	600	594x594	N/A
RG-04-02	G05	Office 2	N/A	600	594x594	N/A
RG-04-03	G05	Office 3	N/A	600	594x594	N/A
RG-04-04	G05	Head's Office	N/A	600	594x594	N/A
EF-04-01	GX	Female WC	18.0	125	1610x95	1250
EF-04-02	GX	Male WC	18.0	125	1610x95	1250

Notes:

**VRV System**

Indoor Unit Reference	Indoor Unit Model (Daikin)	Condenser Unit Reference linked to Indoor Unit	Air Flow			Sound		Dimensions			Weight	Pipework Connections (Inches)		Electrical Details				
			Low	High	Low	High	Height	Width	Depth	Liquid		Gas	Power Supply	Running Current	Fuse Rating			
FCU 4N/01	FXSQ20A	CON 4/02	1.8	1.4	2.5	0.108	0.150	25.0	30.0	245	550	800	23.5	1/4	1/2	1, 50, 240	0.4	5.0
FCU 4N/02	FXSQ15A	CON 4/02	1.4	1.1	1.9	0.108	0.145	25.0	29.5	245	550	800	23.5	1/4	1/2	1, 50, 240	0.4	5.0
FCU 4N/03	FXSQ20A	CON 4/02	1.8	1.4	2.5	0.108	0.150	25.0	30.0	245	550	800	23.5	1/4	1/2	1, 50, 240	0.4	5.0
FCU 4N/04	FXSQ32A	CON 4/02	2.9	2.3	4.0	0.108	0.158	25.0	30.0	245	550	800	24.0	1/4	1/2	1, 50, 240	0.4	5.0

Condenser Unit Reference	Condenser Unit Model (Daikin)	System	Location	Electrical Details				Dimensions			Weight	Sound	Max Length	Max Rise	Pipework Connections (Inches)	
				Power Supply	Running Current	Starting Current	Fuse Rating	Height	Width	Depth					Liquid	Gas
CON 4/01	REYQ32T	System 1 serving South wings	Roof	3.50, 415	24.6	4.0	40						1000		3/4	1.5/8
CON 4/01A	REYQ18T	System 1 subcondenser A	Roof					1685	1240	765	337	65				
CON 4/01B	REYQ18T	System 1 subcondenser B	Roof					1685	1240	765	337	65				
CON 4/01C	REYQ16T	System 1 subcondenser C	Roof					1685	1240	765	305	64				
CON 4/02	REYQ32T	System 2 serving North wings	Roof	3.50, 415	21.1	4.0	40									
CON 4/02A	REYQ16T	System 2 subcondenser A	Roof					1685	1240	765	305	64	1000		3/4	1.3/8
CON 4/02B	REYQ16T	System 2 subcondenser B	Roof					1685	1240	765	305	64	1000		3/4	1.3/8

RADIATOR SCHEDULE (Dimplex)									
RADIATOR REFERENCE	LOCATION	MODEL	OUTPUT				Weight (kg)	OPTIONS	
			HEIGHT (mm)	WIDTH (mm)	DEPTH (mm)	WEIGHT (kg)			
RAD LG/1	Male Shower	PLX500	0.5	430	450	108	4.8		
RAD LG/2	Female Wc	PLX750	0.75	430	620	108	6.2		
RAD LG/3	Female Shower	PLX500	0.5	430	450	108	4.8		
RAD LG/4	Male WC	PLX750	0.75	430	620	108	6.2		
RAD LG/5	Staircase	PLX2000	2	430	860	108	8		

Crosstalk Attenuator Schedule							
XIA Reference	XIA Model (CAICE)	Location	Air Volume		Dimensions		Options
			l/s	mm	Width (mm)	Length (mm)	
XIA 4/1	LG	Office 1	40.0	200	400	900	
XIA 4/2	LG	Office 2	20.0	200	200	900	
XIA 4/3	LG	Office 3	20.0	200	200	900	
XIA 4/4	LG	Head's Office	20.0	200	200	900	

Louvre Schedule								
Louvre Reference	Louvre Model (Gibber)	Location	Air Volume		Overall Dimensions		Spigot Size	Options
			l/s	mm	mm	mm		
LV G-01	WGF38	Library	181	450x450	495x495	2500		
LV G-02	WGF38	Library	181	450x450	495x495	2500		
LV 1-01	WGF38	Performance Room	181	450x450	495x495	2500		
LV 1-02	WGF38	Performance Room	181	450x450	495x495	2500		
LV 2-01	WGF38	Classroom	181	450x450	495x495	2500		
LV 2-02	WGF38	Classroom	181	450x450	495x495	2500		
LV 3-01	WGF38	Faculty Workroom	97	300x300	345x345	2000		
LV 3-02	WGF38	Faculty Workroom	97	300x300	345x345	2000		
LV 4-01	WGF38	Staircase	97	300x300	345x345	2000		
LV 4-02	WGF38	Staircase	97	300x300	345x345	2000		

Fire Damper Schedule						
Reference	Location	Model	Height		Diameter	Options
			(mm)	(mm)		
FD-04-01	Female WC	-	-	2000	-	
FD-04-02	WC Lobby	-	-	2000	-	
FD-04-03	WC Lobby	-	-	2000	-	
FD-04-04	Corridor	-	-	2000	-	
FD-04-05	Corridor	-	-	2000	-	
FD-04-06	Corridor	300	300	-	-	

NOTES:

