DO NOT SCALE ASK IF IN DOUBT

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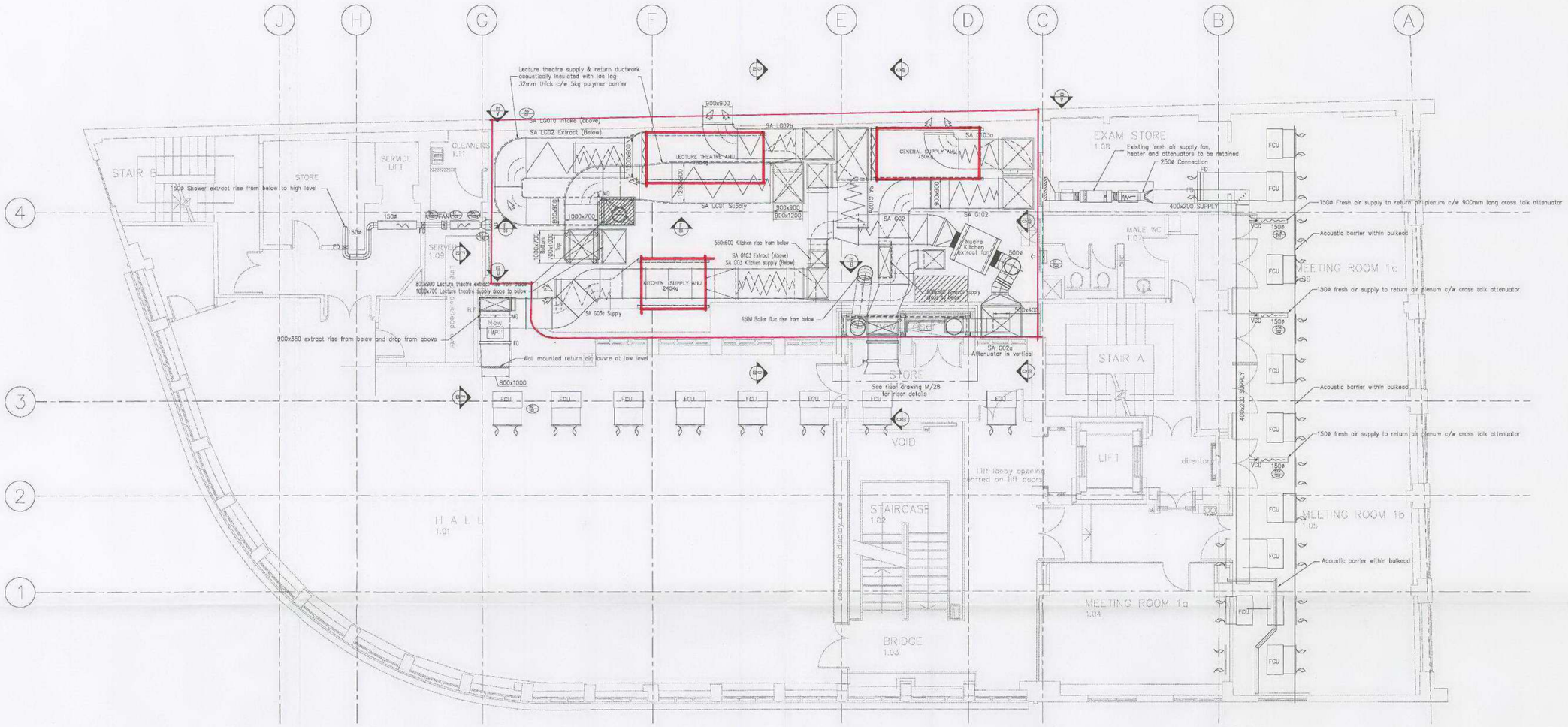
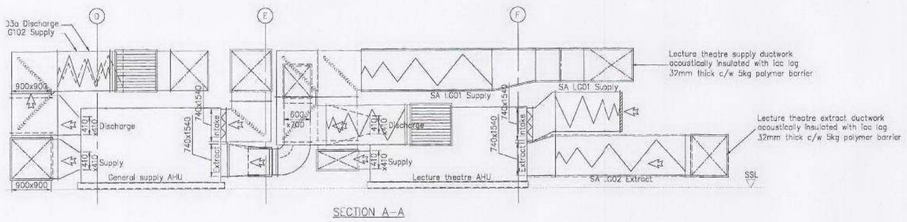
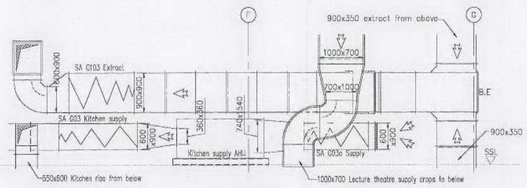
= 2 Hour fire rated duct





SECTION A–A



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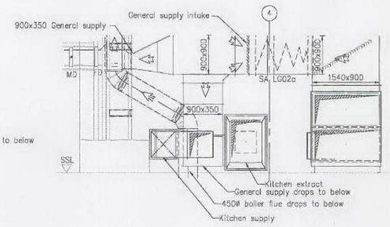

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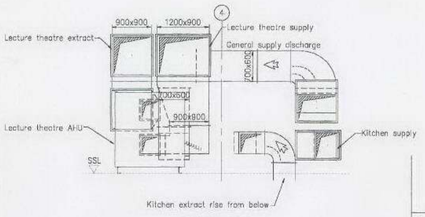

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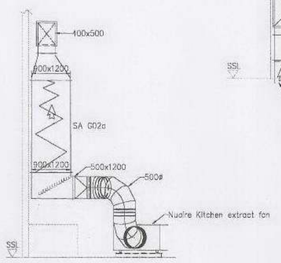

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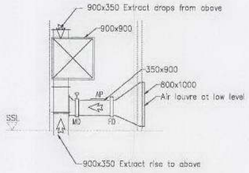

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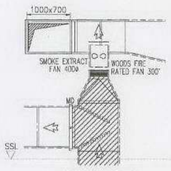


SECTION F–F

Equipment: Handling Units

Ref:		Lecture Theatre Supply	General Area Supply	Kitchen Supply	Toilet Supply
Inlet Section:		Flanged Spigot/Flex	Flanged Spigot/Flex	Flanged Spigot/Flex	Flanged Spigot/Flex
Filter Section:		Panel & Bag Grade EU5	Panel & Bag Grade EU5	Panel & Bag Grade EU5	Panel & Bag Grade EU5
Cooler Section:	Cooling Medium:	CHWS 8°CF 12°CR	CHWS 8°CF 12°CR	CHWS 8°CF 12°CR	Not Applicable
	Air On: °Cdb/°Cwb	28°C / 21°C	28°C / 21°C	28°C / 21°C	Not Applicable
	Air Off: °Cdb/°Cwb	10.5°C / 10°C	20°C	14°C	Not Applicable
	No. Of Steps:	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Refrigerant:	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Cooling Capacity: kW	75kW	20kW	20kW	Not Applicable
Frost Coil:	Heating Medium:	OMITTED	OMITTED	OMITTED	OMITTED
	Air On: °C	OMITTED	OMITTED	OMITTED	OMITTED
	Air Off: °C	OMITTED	OMITTED	OMITTED	OMITTED
	No. Of Steps:	OMITTED	OMITTED	OMITTED	OMITTED
	Heating Capacity: kW	OMITTED	OMITTED	OMITTED	OMITTED
Heating Coil:	Heating Medium:	LTHW 82°CF 71°CR	LTHW 82°CF 71°CR	LTHW 82°CF 71°CR	LTHW 82°CF 71°CR
	Air On: °C	-5	-5	-5	-5
	Air Off: °C	+20	+20	+18	+18
	No. Of Steps:	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Heating Capacity: kW	60 kW	60 kW	50 kW	10 kW
Supply Fan Section:	Air Vol: m³/s	2.0	2.0	1.8	0.6
	External Resistance: Pa.	200	200	150	150
	Fan Type:	Double Inlet Centrif	Double Inlet Centrif	Double Inlet Centrif	Double Inlet Centrif
	Speed: r.p.m.	tba	tba	tba	tba
	Motor Rating: Kw	tba	tba	tba	tba
	Full Load Current: A	tba	tba	tba	tba
	Electrical Supply: v/ph/Hz	415/3/50	415/3/50	415/3/50	415/3/50
Condensing Units:	No:	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Model:				
	External Mounting:				
	Full Load Current: A				
Extract Fan Section:	Unit Type:	tba	tba	na	na
	Air Vol: m³/s	2.0	2.0	na	na
	External Resistance: Pa.	150	150	na	na
	Fan Type:	Double Inlet Centrif	Double Inlet Centrif	na	na
	Speed: r.p.m.	tba	tba	na	na
	Motor Rating: Kw	tba	tba	na	na
	Full Load Current:	tba	tba	na	na
	Electrical Supply: v/ph/Hz	415/3/50	415/3/50	na	na
Supplier:					

Equipment: Diffusers & Grilles

Ref:	Location:	Air Vol m³/s	Throw m	Press Loss Pa	Size mmxmm	Type	No. Off:	Plenum Box:
Toilet Extract Grilles.								
Return Air Grilles.								
RG 101		0.800	N/A	5	850 x 1000	K-49-DO	1	REFER TO DETAIL

Equipment: Attenuators

Ref.	System:	Air Vol m³/s:	Model:	Width mm	Height mm	Length mm	PD Pa	Insertion Loss 63	125	250	500	1k	2k	4k	8k	Comments
CTA 101	SUPPLY	0.075	ECCT 150x600	150 DIA		600	15	6	8	18	18	28	32	22	15	
CTA 102	SUPPLY	0.075	ECCT 150x600	150 DIA		600	15	6	8	18	18	28	32	22	15	
CTA 103	SUPPLY	0.075	ECCT 150x600	150 DIA		600	15	6	8	18	18	28	32	22	15	
SA L001	SUPPLY	2.000	10S	1200	900	3000	15	13	23	42	52	55	53	51	45	SUPPLIED IN 2NO 1500 SECTIONS
SA L001a	INTAKE	2.000	5S	900	900	1500	22	11	21	25	43	47	44	39	22	
SA L002	EXTRACT	2.000	10S	1200	900	3000	15	13	28	42	52	55	53	51	42	SUPPLIED IN 2NO 1500 SECTIONS
SA L002a	EXHAUST	2.000	6S	900	900	1800	24	9	19	32	42	48	47	43	30	
SA G01	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
SA G01a	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
SA G02	EXTRACT	2.100	7S / ME	900	1200	2100	14	10	21	30	32	31	31	28	24	
SA G02a	EXHAUST	2.100	7S / ME	900	1200	2100	14	9	18	28	31	30	31	29	27	
SA G03	SUPPLY	1.800	8S / GC	900	600	1800	43	9	19	32	42	48	47	43	30	
SA G03a	INTAKE	1.800	5S / GC	900	600	1500	40	11	21	25	43	47	44	39	22	
SA G102	SUPPLY	2.000	6S	900	900	1500	15	8	18	24	40	45	46	41	26	
SA G102a	INTAKE	2.000	4S	900	900	1200	15	7	16	21	33	40	38	31	17	
SA G103	EXTRACT	2.000	5S	900	900	1500	22	11	21	25	43	47	44	39	22	
SA G103a	EXHAUST	2.000	5S	900	900	1500	22	8	18	24	40	45	46	41	26	
SA 102	EXTRACT	0.070	ECCT 150x1200	150 DIA		1200	15	6	8	18	18	26	32	22	15	
SA 102a	EXHAUST	0.070	ECCT 150x600	150 DIA		900	15	6	8	18	18	26	32	22	15	
AS 01	SCREEN	N/A	Series 15		1600	18 600	N/A	4	4	6	9	12	17	11	10	

Equipment: External Louvres

Ref:	Location:	Air Vol m³/s:	Pressure Loss Pa	Size mmxmm	Type:
LV 102	1st Floor	0.070	11.00	250x200	W338

Note:
1. All Louvres Shall Be As Manufactured By Messrs Gilberts (Blackpool) Ltd.
2. Louvres Shall Be Powder Coated To Approved Colour.

Equipment: Toilet Extract Fans

Ref:	Model:	Air Vol m³/s:	External Resistance Pa	Setting	Full Load Current A	Electrical Supply	Motor Power Kw	Manufacturer
EF 102	ACM 150	0.070	150.00	Medium	0.3		0.054	Vent Axia
EF 103	TXBWW	0.058	FF	Medium	0.3		0.054	Vent Axia

RECORD DRAWING

Issue	App'd	Date	Revisions

Client

THE ROYAL COLLEGE OF ANAESTHETISTS

Project

CHURCHILL HOUSE
35 RED LION SQUARE
LONDON, WC1R 4SG

Drawing Title

FIRST FLOOR CO ORDINATED PLAN
VENTILATION LAYOUT

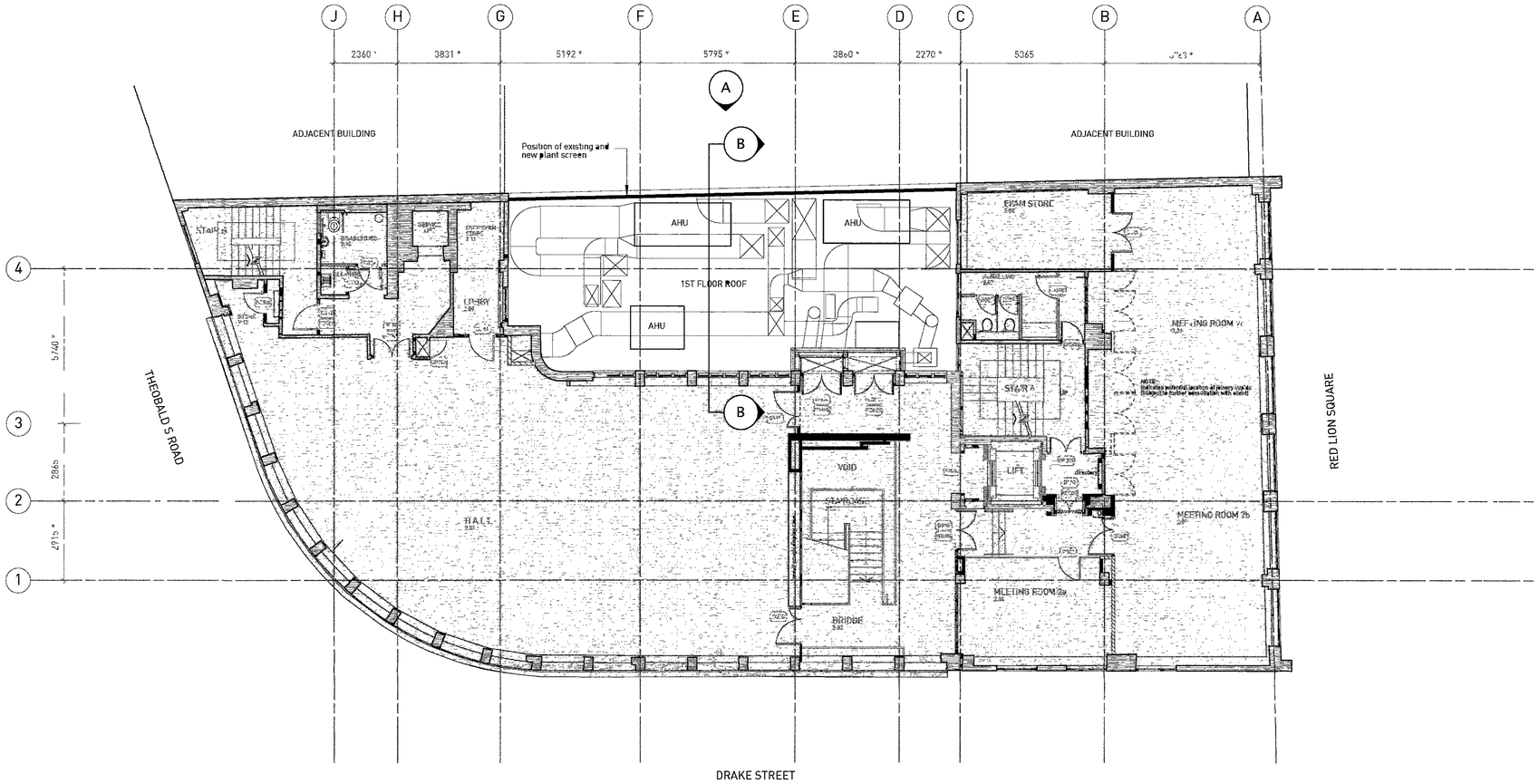
MITE ENGINEERING SERVIC
Mite Engineering Services (London) Ltd.
The Courting House, 1st Floor, 53 Tooley Street, London SE1
Telephone : 020 – 7032 – 8420
Fax : 020 – 7032 – 8421

Issuing Office

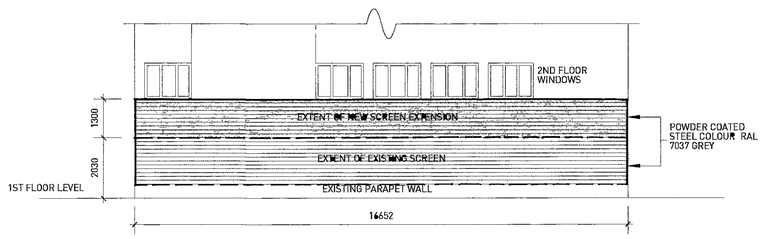
Date	03-09-2009	Drawn By	LW
Scale	1:50	Approved By	MF
Drawing Status	RECORD DRAWING		

Drawing No. 105087-M-03

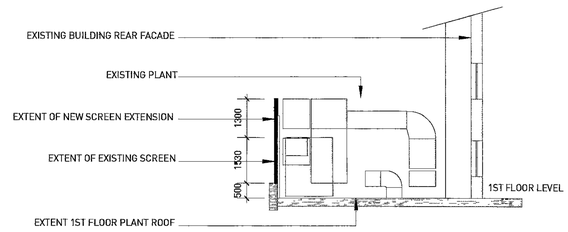
Re



SECOND FLOOR PLAN



ELEVATION A



SECTION B-B

Notes
DO NOT SCALE (Use figured dimensions only)
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All dimensions must be confirmed on site prior to any construction work being undertaken
Setting out to be approved before fabrication
indicates site dimension
indicates a critical dimension

Deleterious Materials
The contractor shall not specify or permit to be used in the Works any substances generally known to be deleterious including but not limited to substances not in accordance with statutory requirements British Standards and Codes of Practice good building practice or which are published in the Building Research Establishment Digests as being deleterious at the time of incorporation within the Works

This drawing is to be read in conjunction with tilney shane ltd construction drawings NBS specification and its schedules

Min. Size: A1

rev	date	notes	checked
A	25.04.06	FOR PLANNING	AB

rev	date	notes	checked

status For Tender

client	Royal College of Anaesthetists
scale	1:100 @ A1
date	25.04.06
drawn by	GK
project	Churchill House
title	1ST FLOOR ROOF PLANT SCREEN DETAILS
dwg no	RC04 PA 02

A

tilney shane

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