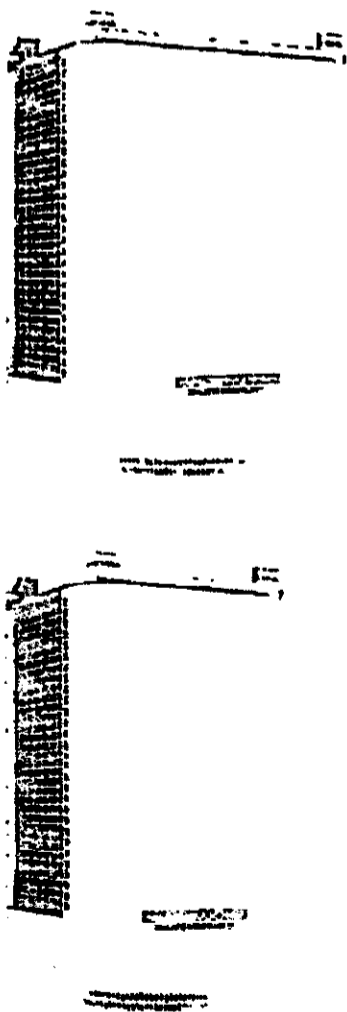




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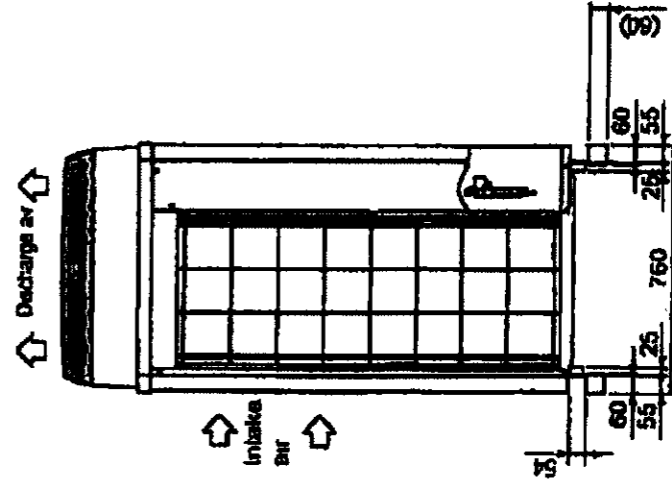
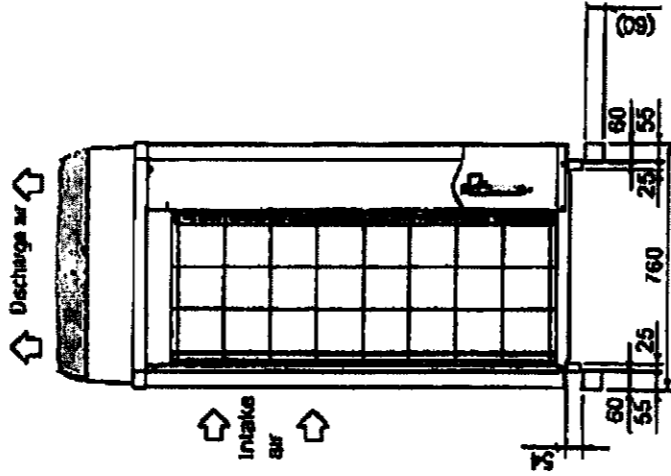
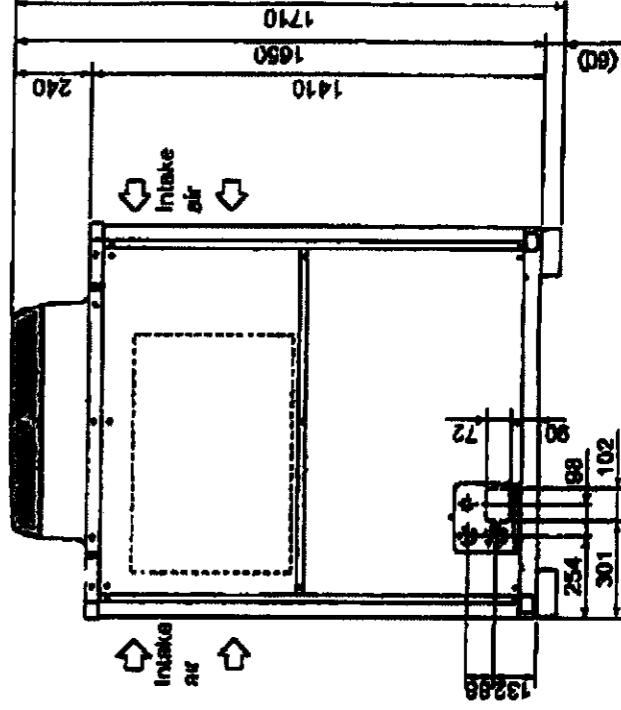
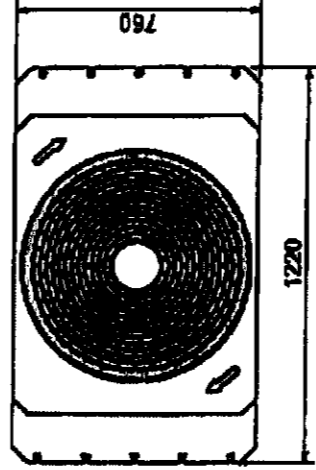
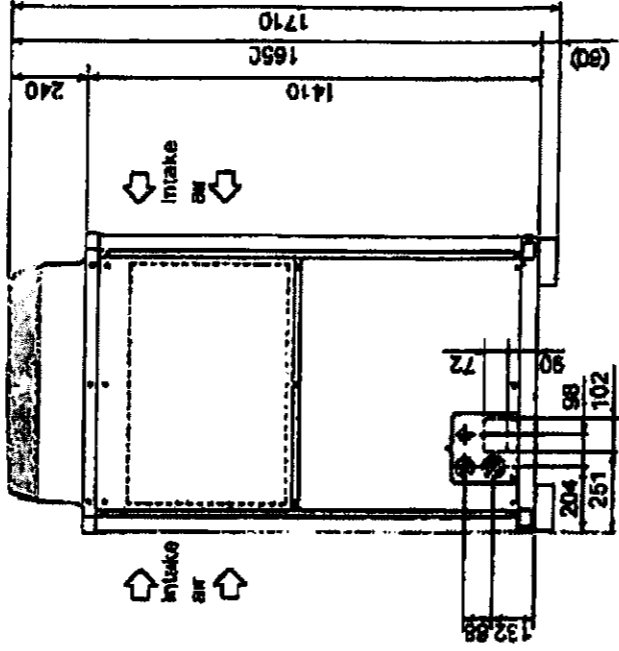
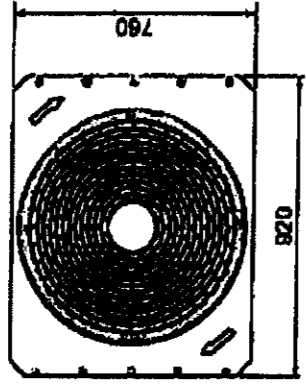
**APPENDIX C
HEAT PUMP INFORMATION FOR PROPERTY**

PUY-P250HMA		PUY-P300HMA		PUY-P350HMA		PUY-P400HMA		PUY-P450HMA	
CAPACITY (kW)		21.5	27.5	33.5	40.0	45.0	50.0	50.0	50.0
Heating (nominal)		20.0	23.5	28.0	33.0	39.6	44.0	45.0	48.7
Heating (UK)		20.7	23.0	28.7	33.0	39.6	44.0	45.0	48.7
Cooling (UK)		26.6	31.5	37.6	42.3	43.3	43.3	43.3	46.0
POWER INPUT (kW)		7.83	9.39	12.09	13.47	13.47	13.47	15.30	15.30
Heating (nominal)		7.73	9.07	11.20	12.23	12.23	12.23	13.20	13.20
Cooling (nominal)		7.73	9.07	11.20	12.23	12.23	12.23	13.20	13.20
Heating (UK)		7.75	9.11	11.23	12.27	12.27	12.27	13.00	13.00
Cooling (UK)		7.79	9.21	11.29	12.34	12.34	12.34	13.00	13.00
COMPER (nominal)		4.02 / 3.62	3.99 / 3.69	3.72 / 3.57	3.71 / 3.40	3.71 / 3.40	3.71 / 3.40	3.61 / 3.07	3.61 / 3.07
MAX NO. OF CONNECTABLE INDOOR UNITS		21	26	30	34	34	39	39	39
AIRFLOW (m³/min)		185	185	225	225	225	225	225	225
High		185	185	225	225	225	225	225	225
NOISE (dBA)		57	59	60	61	61	62	62	62
WEIGHT (kg)		200	215	245	245	245	245	245	245
DIMENSIONS (mm)		Width: 920	Width: 920	Width: 920	Width: 920	Width: 920	Width: 920	Width: 1220	Width: 1220
		Depth: 760	Depth: 760	Depth: 760	Depth: 760	Depth: 760	Depth: 760	Depth: 760	Depth: 760
		Height: 1710	Height: 1710	Height: 1710	Height: 1710	Height: 1710	Height: 1710	Height: 1710	Height: 1710
ELECTRICAL SUPPLY		380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz	380-415V, 50Hz
PHASE		3	3	3	3	3	3	3	3
STARTING CURRENT (A)		8	8	8	8	8	8	8	8
Running Current (A)		Heating: 12.1	Heating: 14.5	Heating: 18.6	Heating: 20.8	Heating: 20.8	Heating: 23.7	Heating: 23.7	Heating: 23.7
		Cooling: 11.9	Cooling: 14.0	Cooling: 17.3	Cooling: 20.4	Cooling: 20.4	Cooling: 23.1	Cooling: 23.1	Cooling: 23.1
FUSE RATING (MCCB with BS EN 60847-2) - (A)		20	25	32	32	32	40	40	40
MAINS CABLE No. Core		4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth
TOTAL PIPING LENGTH		1000m max	1000m max	1000m max	1000m max	1000m max	1000m max	1000m max	1000m max
FURTHEST PIPING LENGTH		165m max	165m max	165m max	165m max	165m max	165m max	165m max	165m max
FURTHEST PIPING LENGTH AFTER 1st BRANCH		40m max	40m max	40m max	40m max	40m max	40m max	40m max	40m max
BETWEEN INDOOR AND OUTDOOR UNITS - HEIGHT		50m max (40m max if outdoor installed below)	50m max (40m max if outdoor installed below)	50m max (40m max if outdoor installed below)	50m max (40m max if outdoor installed below)	50m max (40m max if outdoor installed below)	50m max (40m max if outdoor installed below)	50m max (40m max if outdoor installed below)	50m max (40m max if outdoor installed below)
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT		15m max	15m max	15m max	15m max	15m max	15m max	15m max	15m max



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APPENDIX D

HEAT PUMP INFORMATION FOR SWIMMING POOL

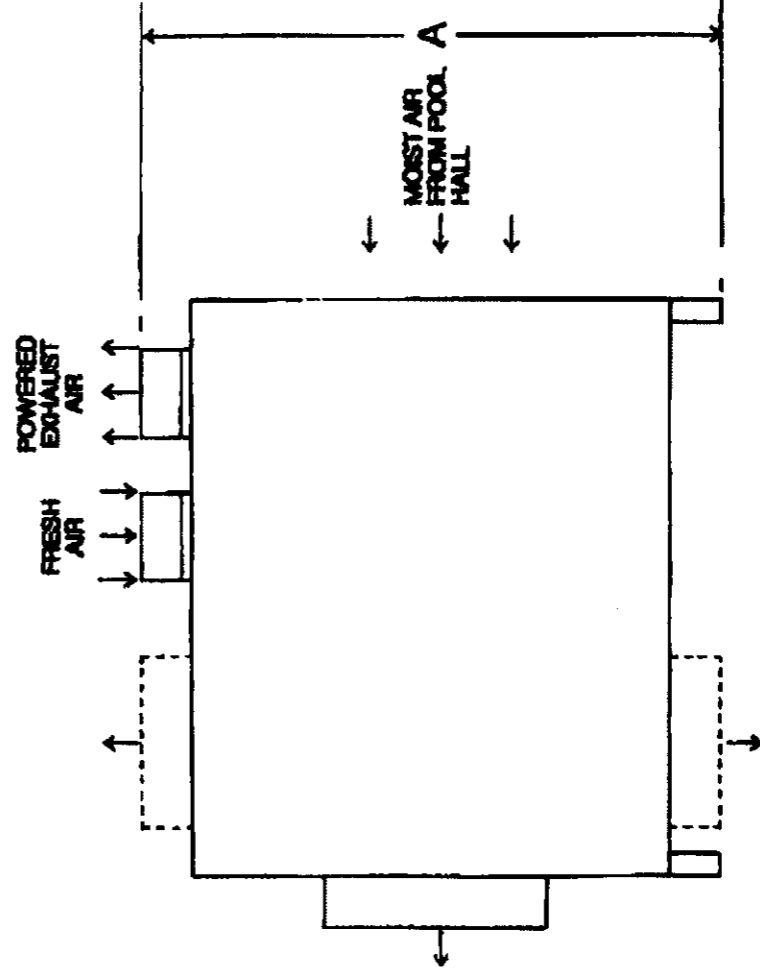
SWIMMING POOL HEAT PUMP

Calorex DELTA Specifications

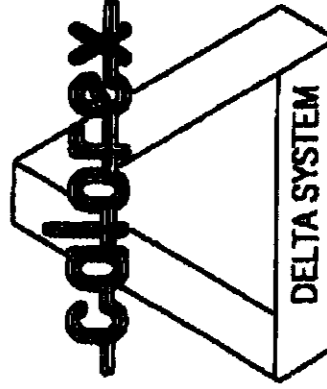
MODEL	1	2	4	6	8	10	12
POOL AIR RECIRCULATION FAN AIR FLOW M ³ /HR:-	2500	2600	3000	4000	5000	6000	7000
EXHAUST / FRESH AIR FAN AIR FLOW M ³ /HR (STEPPED CONTROL):-	120-1200	130-1300	150-1500	200-2000	250-2500	300-3000	350-3500
DEHUMIDIFICATION DUTY LITRES/HR @ 28deg C 60% RH TOTAL DUTY BY HEAT PUMP & FRESH AIR DILUTION:-	9.5	10.7	12.1	16.1	20.1	24.2	28.2
HEAT TO AIR KW							
VIA HEAT PUMP (MODE "A"):-	1.3	1.5	1.4	1.5	1.6	2	2.5
VIA HEAT PUMP (MODE "B"):-	3.85	4.9	5.1	6.6	8	10	12.1
VIA LPHW @ 80 deg C:-	20	22	25	30	35	38	42
MAX AVAILABLE (Mode B + LPHW):-	23.85	26.9	30.1	36.6	43	48	54.3
HEAT TO POOL WATER KW							
VIA HEAT PUMP (MODE "A"):-	4	5.5	5.8	8	10	12.5	15
VIA HEAT PUMP (MODE "B"):-	17	2.2	2.3	3	3.7	4.6	5.5
VIA LPHW @ 80 deg C:-	10	10	10	15	15	19	19
MAX AVAILABLE (Mode A + LPHW):-	14	15.5	15.8	23	25	31.5	34
COOLING DUTY (sensible) KW:-	-2*	-2.5*	-2.94	-3.85	-4.7	-5.9	-7.1
COOLING DUTY (TOTAL) KW:-	-3*	-4*	-4.2	-5.5	-6.7	-8.4	-10.1
* = Summer cooling in mode "A"							
RECOMMENDED BOILER CAPACITY KW:-	30	32	35	45	50	60	70
TOTAL POWER CONSUMED (nominal) KWH:-	3.18	3.84	3.94	5.12	6.25	7.8	9.35
RECOMMENDED POOL SIZE M ² :-							
DOMESTIC USE (light):-	50	65	70	90	110	130	160
HOTEL/CLUB USE (medium):-	45	55	60	80	100	120	140
MUNICIPAL USE (heavy):-	40	50	55	70	90	110	130

FOR ACCURATE APPLICATION SIZING CONSULT THE PG GROUP HEAT PUMPS DIVISION

Supply Air Options



MODEL	1 & 2	4, 6 & 8	10 & 12
A	1735	1910	1855
B	1530	1620	1620
C	655	705	855



Optional Equipment

- Return Air Duct Spigot
- Return Air/Fresh Air Filter Kit
- Models 1-6 Single or Three Phase
- Models 8-12 Three Phase Only
- Supply Fan Outlet Options On Request

A British product marketed by:

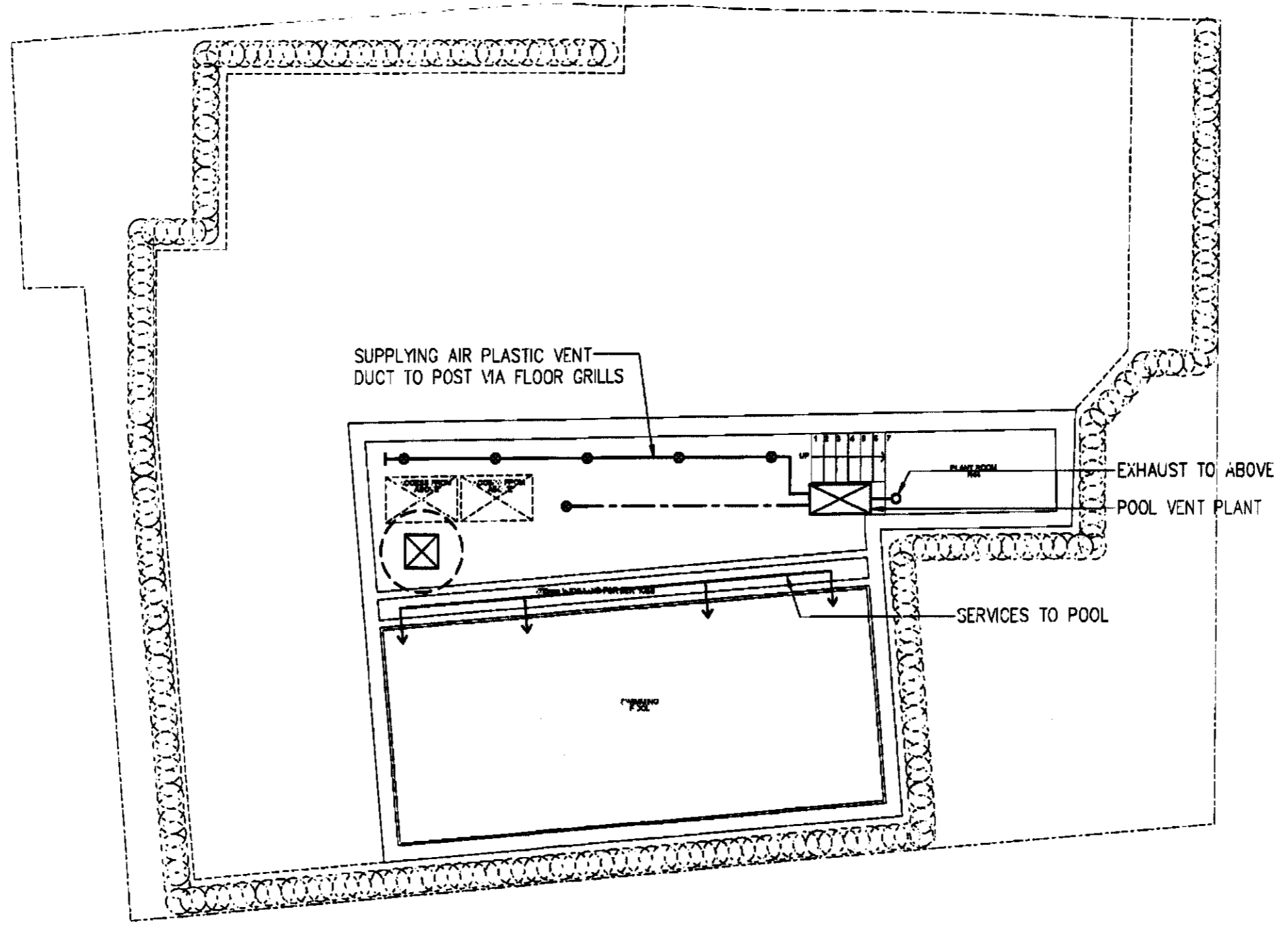
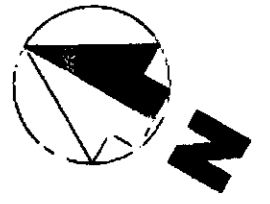
POOL GBAR

Unit 2 Wilton Park, Station Lane Ind. Est.,
Witney, Oxon OX8 6FH

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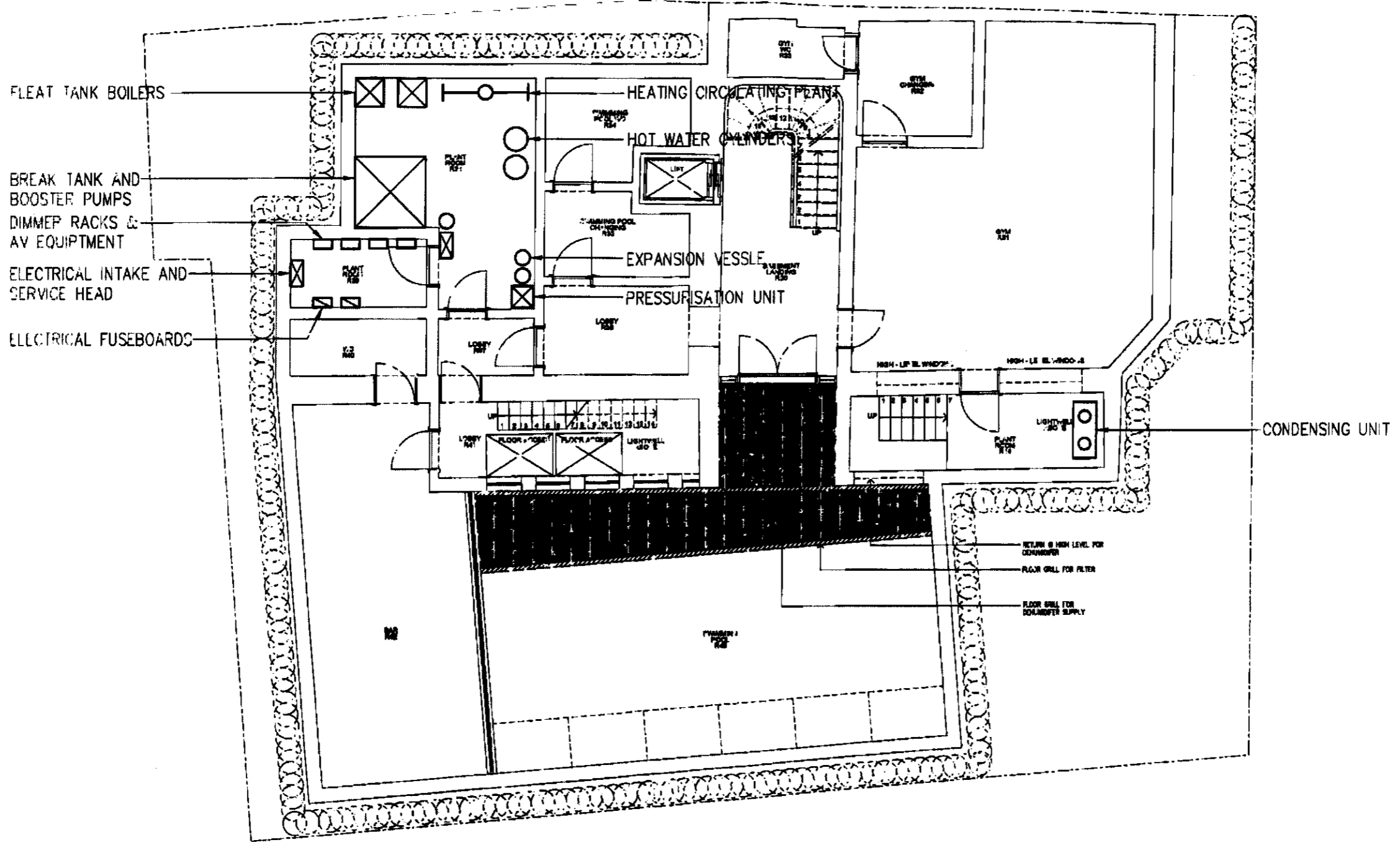
APPENDIX E

Drawing No's :
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5819/M/2P
5819/M/3P
5819/M/4P
5819/M/5P
5819/M/6P
5819/M/7P



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 web www.kut.co.uk

Description			PLANNING - SUB BASEMENT PLAN				ref. date	REVISIONS		
Scale	Drawn	Project					P	PLANNING ISSUE		
Date	checked		THE PHENE, 9 PHENE STREET, LONDON, SW3		Project No.	Services	Dwg No.	Rev.		
July 2011					5819	M	1	P		



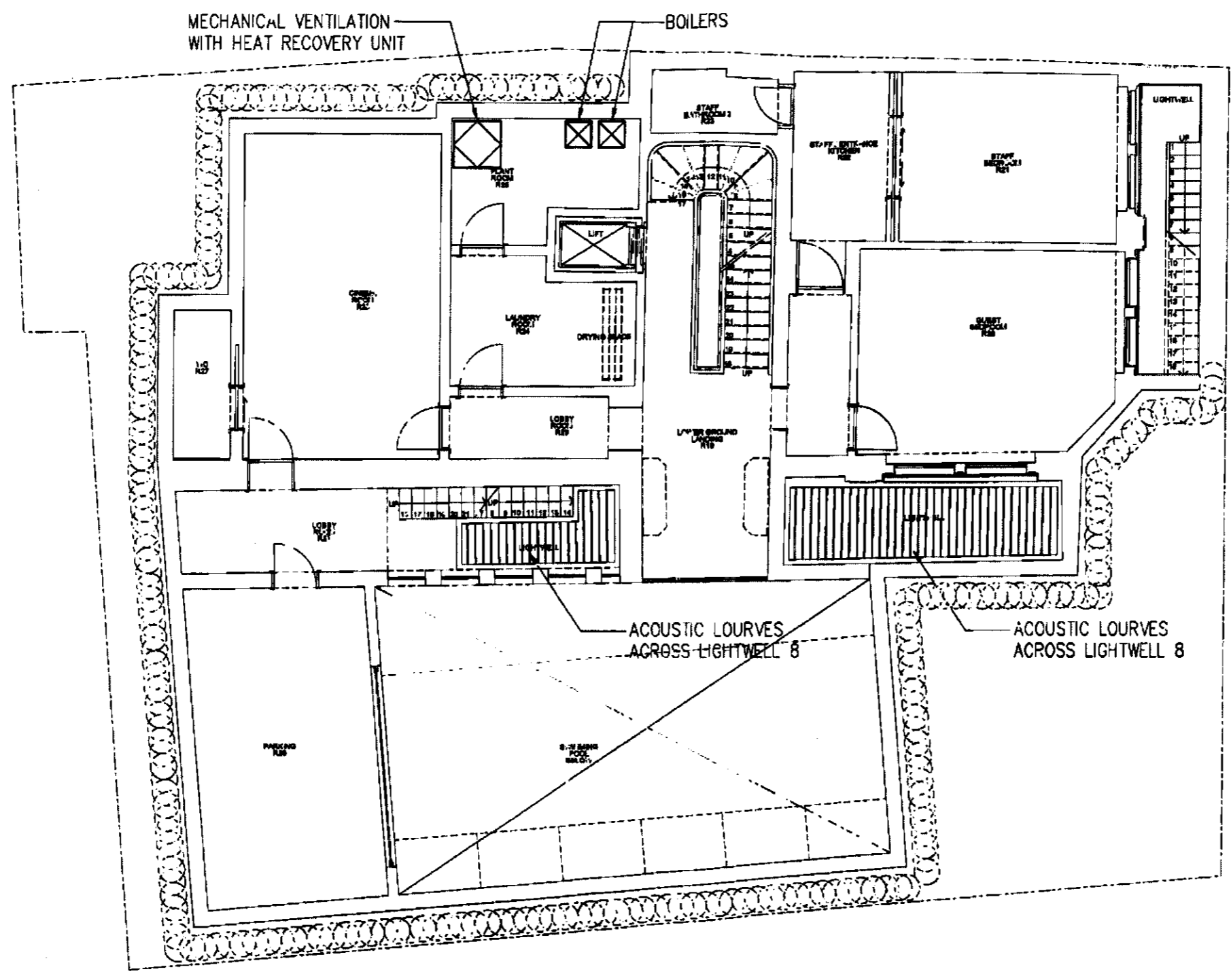
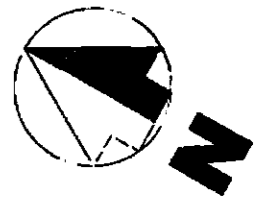
The Kut Partnership
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 web: www.kut.co.uk

Description	
Scale A3@1:100	Drawn PJ
Date July 2011	Checked

PLANNING - BASEMENT PLAN

THE PHENE, 9 PHENE STREET, LONDON, SW3

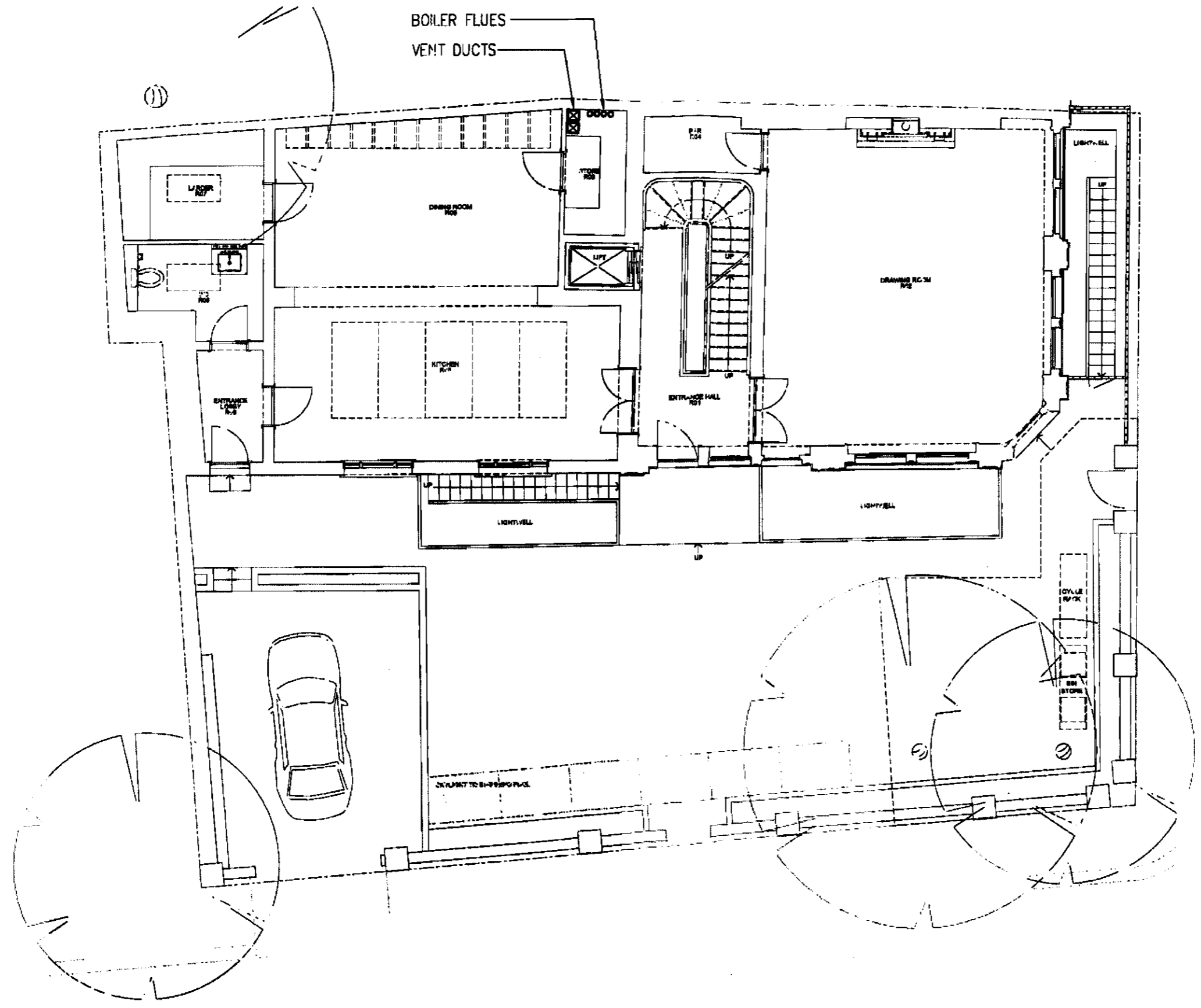
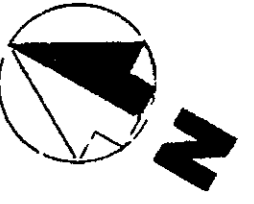
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P 06.07.11	PLANNING ISSUE		
Project No.	Service	Org. No.	Rev.
5819	M	2	P



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Description		PLANNING - LOWER GROUND PLAN		ref. date	REVISIONS	
Scale A3@1:100				P	PLANNING ISSUE	
Drawn	PJ	Project	Project No.	Services	Dwg No.	Rev.
Date	Checked		5819	M	3	P

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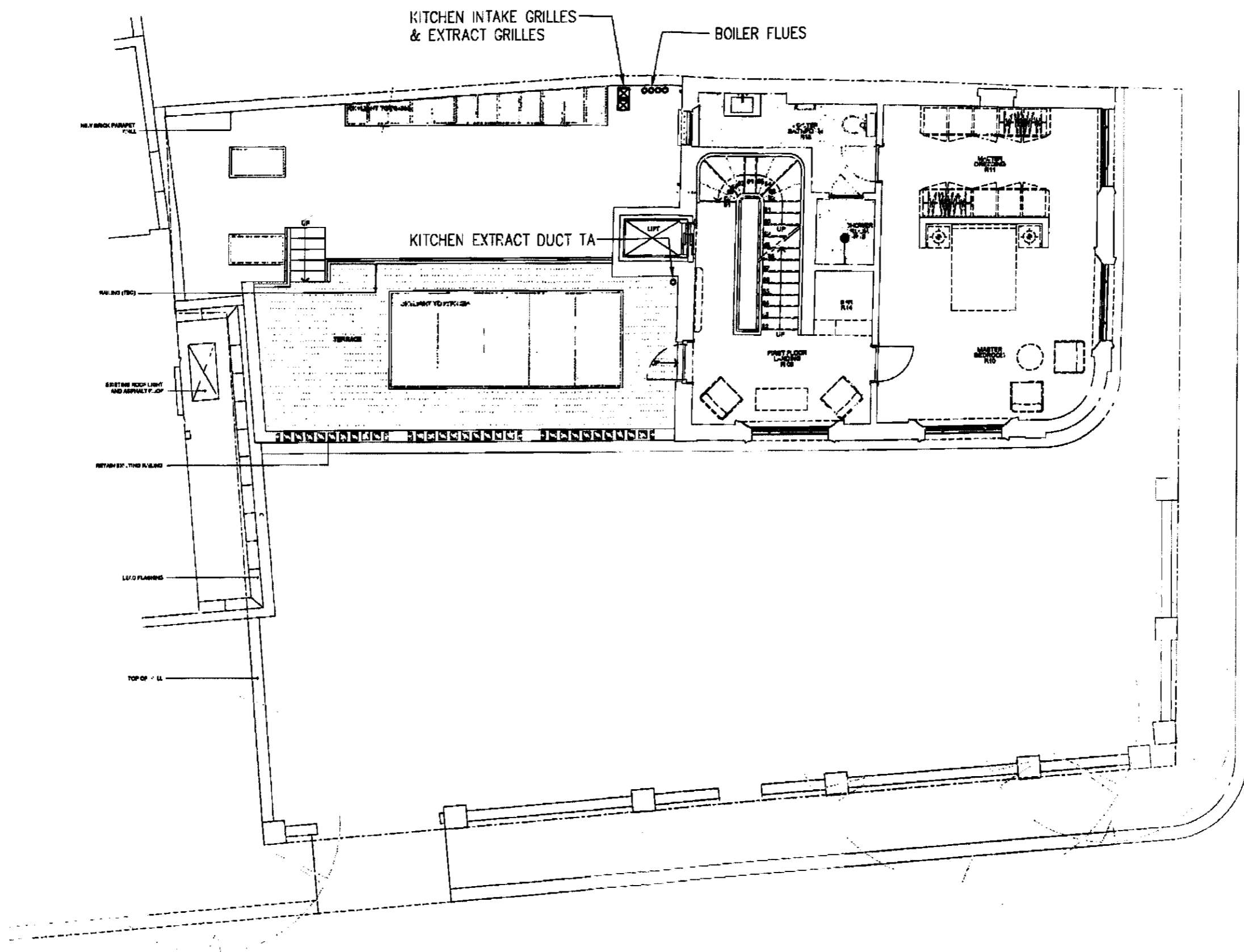
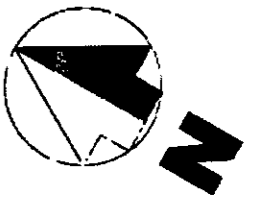
PLANNING - GROUND FLOOR PLAN

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Description		Project	
Scale	Drawn	Project	
A3@1:100	PJ		
Date	Checked		
July 2011			

ref. date	REVISIONS		
P 06.07.11	PLANNING ISSUE		
Project No.	Services	Dwg No.	Rev.
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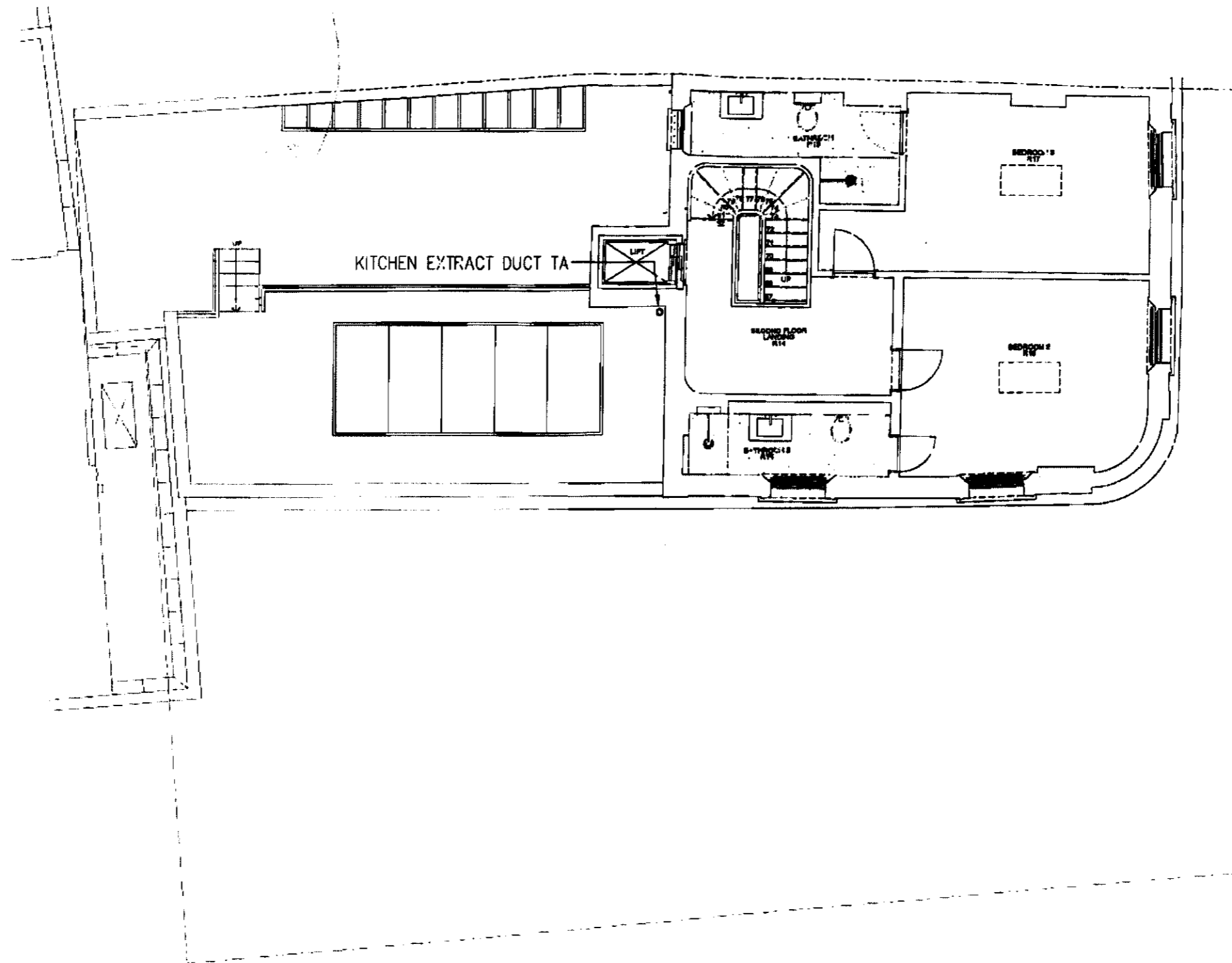
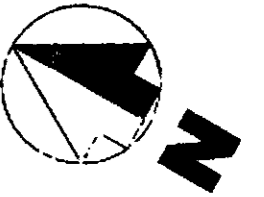
PLANNING - FIRST FLOOR PLAN

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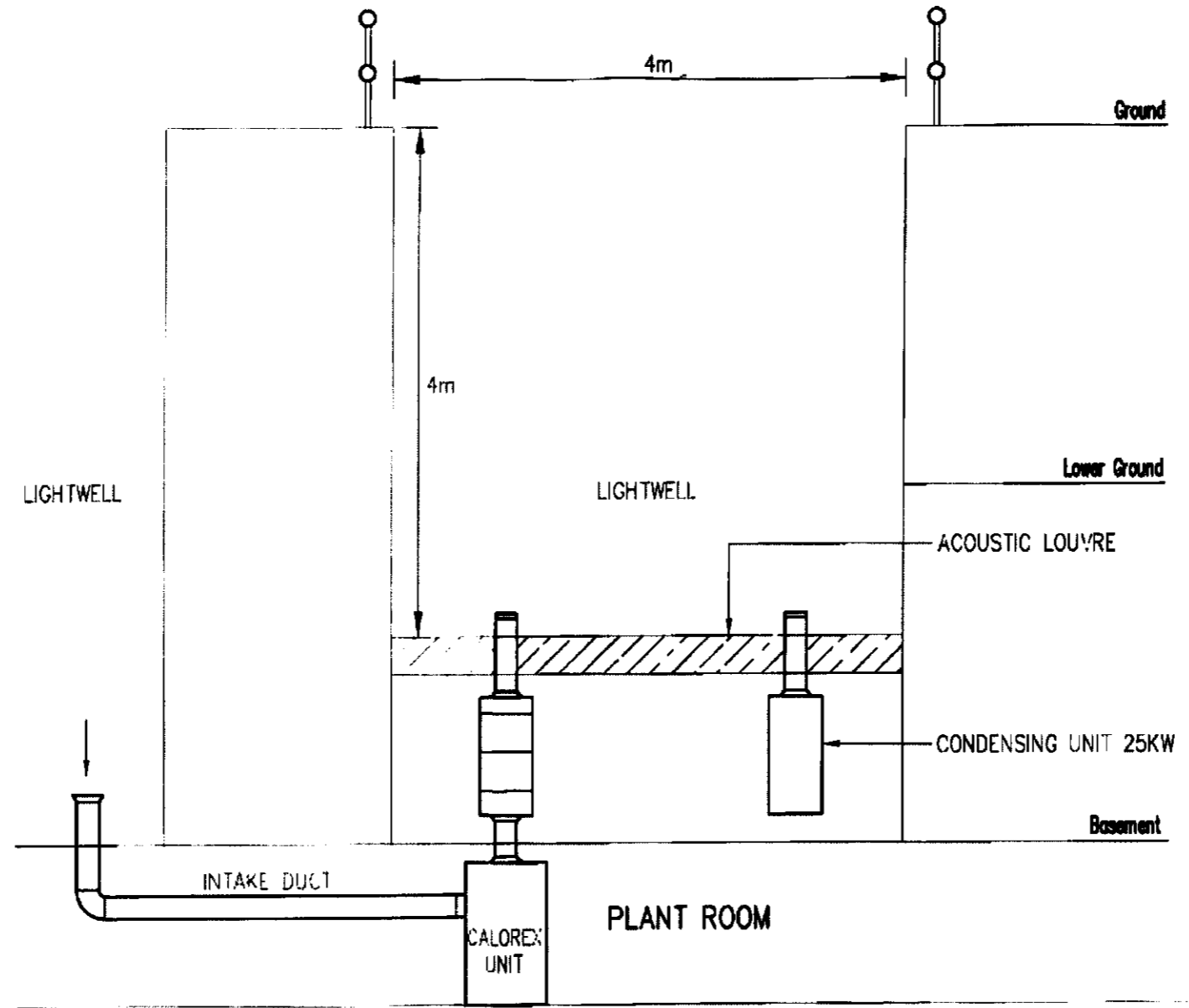
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Date	July 2011	Checked			5819	M	5	P



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Description				PLANNING - SECOND FLOOR PLAN			
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Date	July 2011	Checked		THE PHENE, 9 PHENE STREET, LONDON, SW3			

ref. date	REVISION		
P 06.07.11	PLANNING ISSUE		
Project No.	Services	Draw No.	Rev.
5819	M	6	P



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Description			PLANT ROOM SECTION			ref./date	REVISIONS		
Scale	Drawn	Project				P	PLANNING ISSUE		
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Date	Checked		5819	M	7	P			
July 2011									