

ELECTRICAL AND MECHANICAL FITTINGS AND/OR APPLIANCES, CONDUITS, PIPES, CABLES, ETC. ARE INDICATED FOR TENDERING PURPOSES. GUIDANCE & COMPLETION OF INSTALLATION DRAWINGS. EXACT POSITIONS AND ROUTES SHALL BE SETTLED ON SITE IN RELATION TO OTHER SERVICES AND FIXTURES AND TO THE ARCHITECT'S DETAILED ROOM LAYOUTS WHERE ISSUED OR APPROPRIATE. EXCEPT WHERE DIMENSIONS ARE GIVEN (ON THE DRAWING OR IN THE SPECIFICATION), FINAL POSITIONS OF LIGHTING POINTS, MECHANICAL AND ELECTRICAL FITTINGS, FIXTURES AND / OR APPLIANCES MUST BE CHECKED WITH THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING.

SCHEDULE OF FAN COIL UNITS								
REF. N°	LOCATION	AIR FLOW MAX. (m ³ /s)	TYPE AND MAKE	WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)	TOTAL COOLING (W)	MOUNTING
FCU/B/01	OFFICE 1	0.133	DANIK F18Q32M	1070	610	220	2900	FLOOR
FCU/B/02	OFFICE 1	0.133	DANIK F18Q32M	1070	610	220	2900	FLOOR
FCU/B/03	OFFICE 1	0.133	DANIK F18Q32M	1070	610	220	2900	FLOOR
FCU/B/04	OFFICE 1	0.133	DANIK F18Q32M	1070	610	220	2900	FLOOR
FCU/B/05	OFFICE 2	0.117	DANIK F18Q20M	930	610	220	1800	FLOOR
FCU/B/06	OFFICE 3	0.183	DANIK F18Q40M	1070	610	220	3600	FLOOR
FCU/B/07	OFFICE 4	0.183	DANIK F18Q40M	1070	610	220	3600	FLOOR
FCU/B/08	OFFICE 2	0.117	DANIK F18Q20M	930	610	220	1800	FLOOR

NOTES:
1. ALL AIR CONDITIONING EQUIPMENT SHALL BE SUPPLIED BY DANIK AIRCONDITIONING UK LTD TEL: 01932 879000

INDICATIVE ONLY
NOTIONAL ROUTES FOR DISCUSSION ONLY
NOT FOR TENDERING OR INSTALLATION

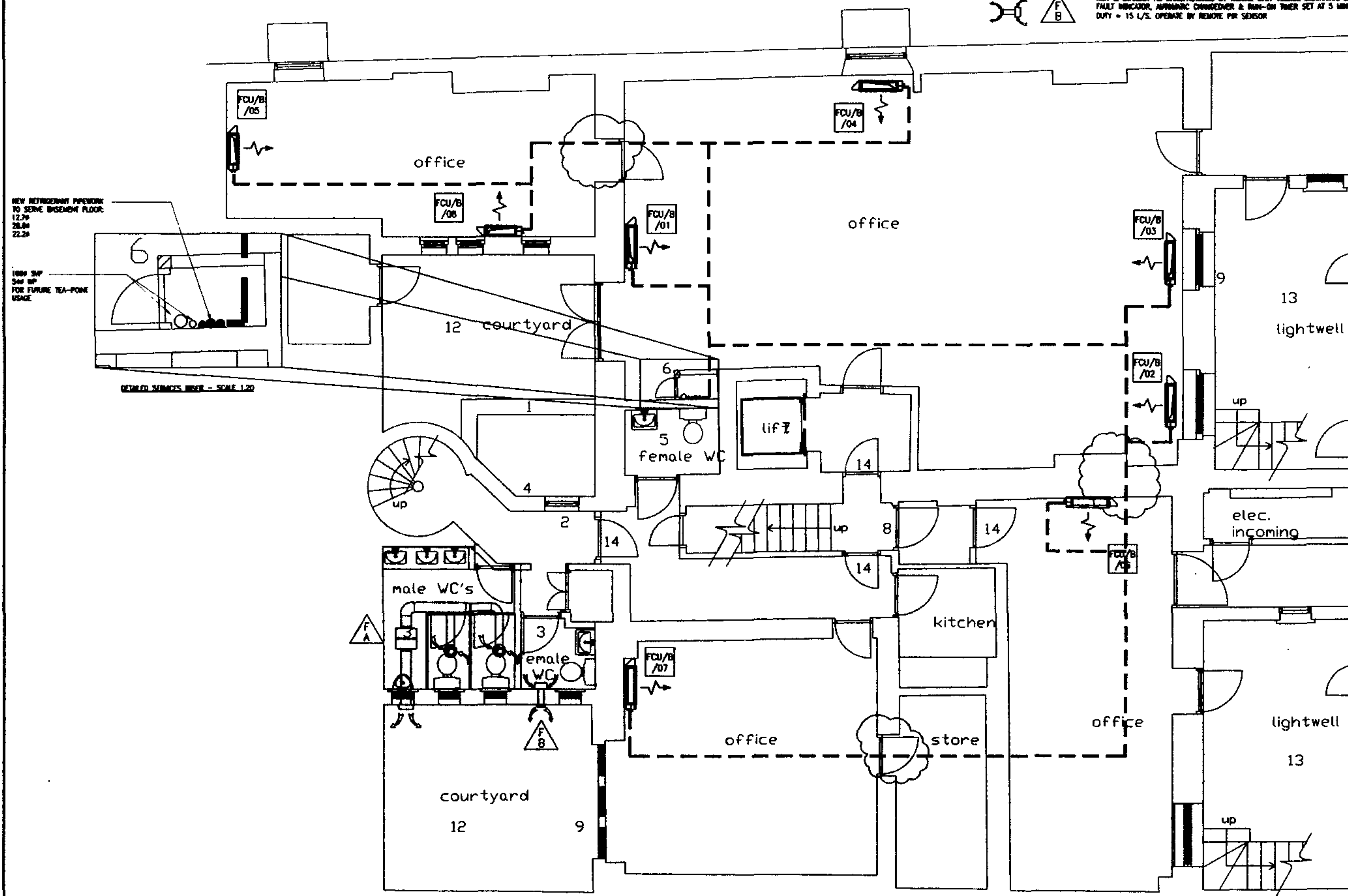
KEYS



EXTRACT FAN FOR TOILETS, FLUSH DUCT MOUNTED, MODEL OPUS 80 NEEDED IN CEILING VOID TYPICALLY 180mm x 180mm AS MANUFACTURED BY HANNE WITH 150mm DISCHARGE SPOT, FAULT INDICATOR, AUTOMATIC CHARGE/DECHARGE & RUN-ON TIMER SET AT 5 MINUTE. DUTY = 30 L/S. OPERATE BY REMOTE PIR SENSOR



EXTRACT FAN FOR TOILETS, FLUSH WALL MOUNTED, MODEL OPUS 80 TYPICALLY 180mm x 180mm AS MANUFACTURED BY HANNE WITH 150mm DISCHARGE SPOT, FAULT INDICATOR, AUTOMATIC CHARGE/DECHARGE & RUN-ON TIMER SET AT 5 MINUTE. DUTY = 15 L/S. OPERATE BY REMOTE PIR SENSOR



NOTES

A	AMENDMENTS TO FAN COIL UNITS, PIPES & OUTDOOR CONDENSERS	K.L. PER/07	M.P. PER/07	N.B. PER/07
REV.	DESCRIPTION	K.L. PER/07	M.P. PER/07	N.B. PER/07

SEE PLAN (UTS)

EDWARD PEARCE & PARTNERS
CONSULTING ENGINEERS

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web site: http://www.eap Pearce.com

BEDFORD ESTATES

52-53 RUSSELL SQUARE,
LONDON WC1B 4HP

BASEMENT
COOLING NOTIONAL PROPOSAL

Scale	1:50	Sheet	A1	Project	PRELIMINARY
Drawn by	06/176-SM01	Checked by		Author	A

ELECTRICAL AND MECHANICAL FITTINGS AND/OR APPLIANCES, CONDUITS, PIPES, CABLES, ETC. ARE INDICATED FOR TENDERING PURPOSES. GUIDANCE & COMPLETION OF INSTALLATION DRAWINGS, EXACT POSITIONS AND ROUTES SHALL BE SETTLED ON SITE IN RELATION TO OTHER SERVICES AND FIXTURES AND TO THE ARCHITECT'S DETAILED ROOM LAYOUTS WHERE ISSUED OR APPROPRIATE. EXCEPT WHERE DIMENSIONS ARE GIVEN (ON THE DRAWING OR IN THE SPECIFICATION), FINAL POSITIONS OF LIGHTING POINTS, MECHANICAL AND ELECTRICAL FITTINGS, FIXTURES AND / OR APPLIANCES MUST BE CHECKED WITH THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING.

REF. N°	LOCATION	AIR FLOW MAX. (m ³ /s)	TYPE AND MAKE	WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)	TOTAL COOLING (W)	MOUNTING
FCU/G/01	OFFICE 1	0.217	DAIKIN FXFQ20M	950	270	950	1800	CEILING
FCU/G/02	OFFICE 1	0.217	DAIKIN FXFQ20M	950	270	950	1800	CEILING
FCU/G/03	OFFICE 2	0.133	DAIKIN FXHQ25M	930	610	220	2300	FLOOR
FCU/G/04	OFFICE 2	0.133	DAIKIN FXHQ25M	930	610	220	2300	FLOOR
FCU/G/05	RECEPTION	0.133	DAIKIN FXHQ32M	1070	610	220	2900	FLOOR
FCU/G/06	RECEPTION	0.133	DAIKIN FXHQ32M	1070	610	220	2900	FLOOR
FCU/G/07	BOARDROOM	0.133	DAIKIN FXHQ25M	930	610	220	2300	FLOOR
FCU/G/08	BOARDROOM	0.133	DAIKIN FXHQ20M	930	610	220	1800	FLOOR
FCU/G/09	OFFICE 3	0.183	DAIKIN FXHQ40M	1070	610	220	3600	FLOOR
FCU/G/10	OFFICE 4	0.217	DAIKIN FXFQ20M	950	270	950	1800	CEILING
FCU/G/11	OFFICE 4	0.217	DAIKIN FXFQ25M	950	270	950	2300	CEILING
FCU/G/12	OFFICE 4	0.217	DAIKIN FXFQ25M	950	270	950	2300	CEILING
FCU/G/13	OFFICE 4	0.217	DAIKIN FXFQ25M	950	270	950	2300	CEILING

NOTES:

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INDICATIVE ONLY
NOTIONAL ROUTES FOR DISCUSSION ONLY
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KEYS



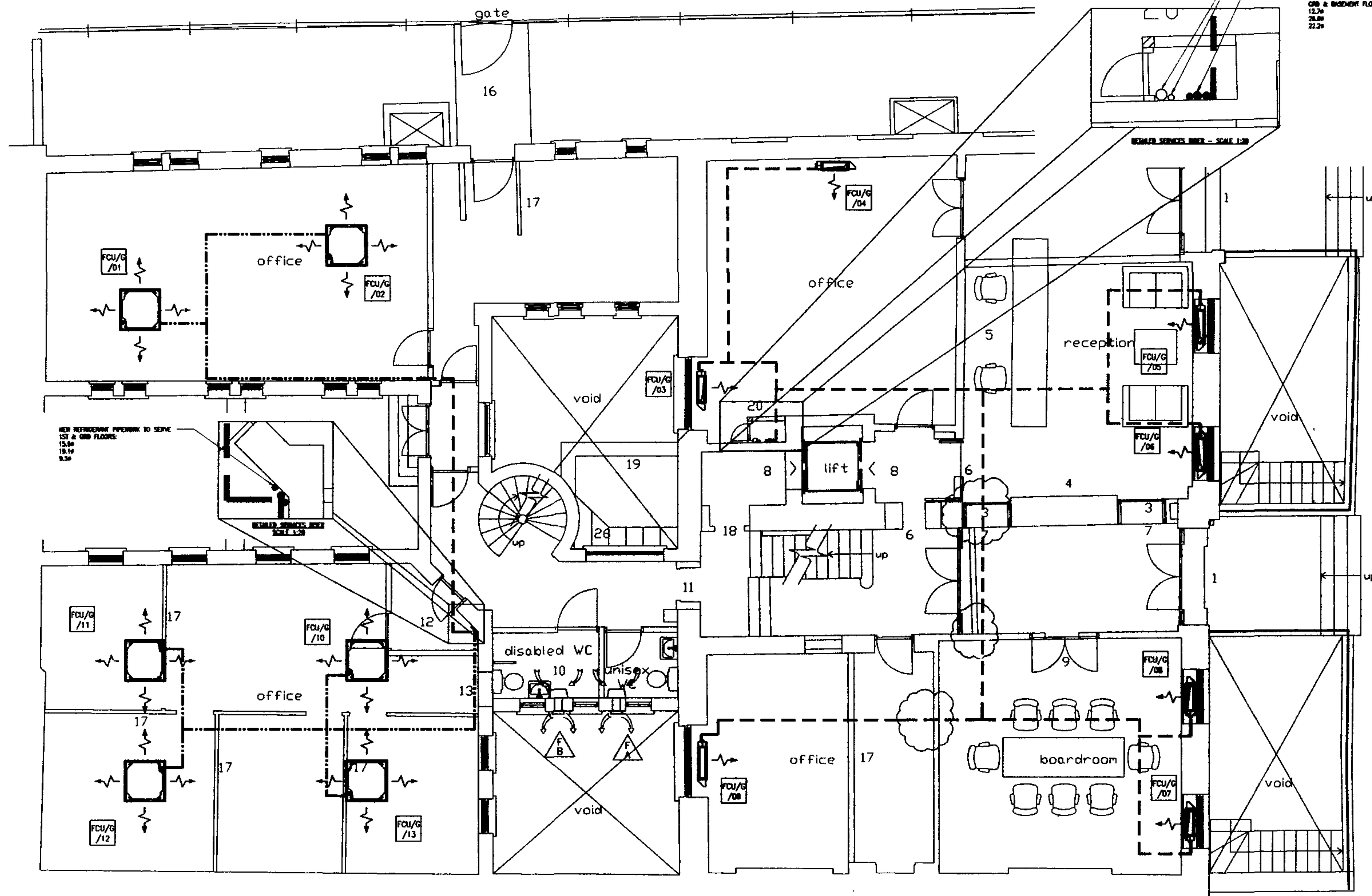
EXTRACT FAN FOR TOILET, FLUSH WALL MOUNTED, MODEL OPUS 80 TWIN FAN RUN & SHUTTER AS MANUFACTURED BY MAHLE WITH 150mm DISCHARGE SPIGOT, FAULT INDICATOR, AUTOMATIC CHANGEOVER & RUN-ON TIMER SET AT 5 MINUTE. DUTY = 20 L/S. OPERATE BY REMOTE PIR SENSOR



EXTRACT FAN FOR TOILETS, FLUSH WALL MOUNTED, MODEL OPUS 80 TWIN FAN RUN & SHUTTER AS MANUFACTURED BY MAHLE WITH 150mm DISCHARGE SPIGOT, FAULT INDICATOR, AUTOMATIC CHANGEOVER & RUN-ON TIMER SET AT 5 MINUTE. DUTY = 30 L/S. OPERATE BY REMOTE PIR SENSOR

1000 3HP
540 HP
FOR FUTURE TEA-POINT USAGE

NEW REFRIGERANT PIPING TO SERVE
GIB & BASEMENT FLOORS:
12.7m
28.0m
22.2m



NOTES

REV.	DESCRIPTION	DATE	BY	CHKD	APP'D
1	AMENDMENTS TO FAN COIL UNITS, RISERS & OUTDOOR CONDENSERS		K.L.	M.W.	M.W.
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EDWARD PEARCE & PARTNERS
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BEDFORD ESTATES

52-53 RUSSELL SQUARE,
LONDON WC1B 4HP

GROUND FLOOR
COOLING NOTIONAL PROPOSAL

Scale: 1:50
Drawing No: 06/176-SM02
Revision: A

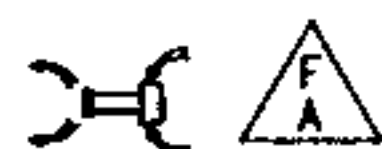
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REF N°	LOCATION	AIR FLOW MAX. (m ³ /s)	TYPE AND MAKE	WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)	TOTAL COOLING (W)	MOUNTING
FCU/1/01	OFFICE 1	0.117	DARWIN F30Q25M	930	610	220	2300	FLOOR
FCU/1/02	OFFICE 1	0.117	DARWIN F30Q25M	930	610	220	2300	FLOOR
FCU/1/03	OFFICE 1	0.133	DARWIN F30Q32M	1070	610	220	2900	FLOOR
FCU/1/04	OFFICE 1	0.133	DARWIN F30Q32M	1070	610	220	2900	FLOOR
FCU/1/05	OFFICE 2	0.133	DARWIN F30Q25M	930	610	220	2300	FLOOR
FCU/1/06	OFFICE 2	0.117	DARWIN F30Q20M	930	610	220	1800	FLOOR
FCU/1/07	OFFICE 2	0.117	DARWIN F30Q20M	930	610	220	1800	FLOOR
FCU/1/08	OFFICE 3	0.117	DARWIN F30Q20M	930	610	220	1800	FLOOR
FCU/1/09	OFFICE 3	0.117	DARWIN F30Q20M	930	610	220	1800	FLOOR
FCU/1/10	OFFICE 4	0.217	DARWIN F30Q20M	950	270	950	1800	CEILING
FCU/1/11	OFFICE 4	0.217	DARWIN F30Q25M	950	270	950	2300	CEILING
FCU/1/12	OFFICE 4	0.217	DARWIN F30Q25M	950	270	950	2300	CEILING
FCU/1/13	OFFICE 4	0.217	DARWIN F30Q25M	950	270	950	2300	CEILING

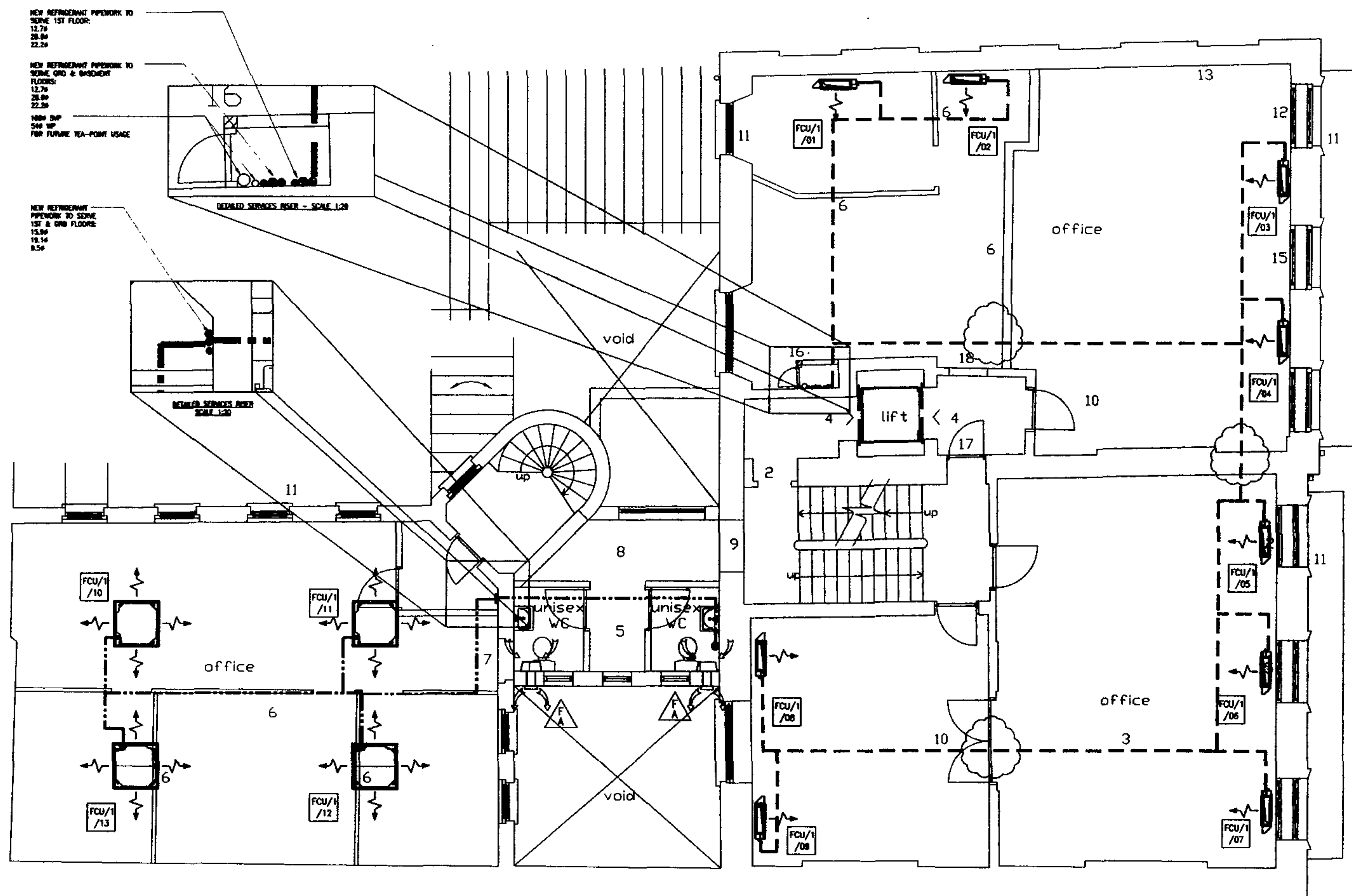
NOTES:

1. ALL AIR CONDITIONING EQUIPMENT SHALL BE SUPPLIED BY DARWIN AIRCONDITIONING UK LTD TEL: 01932 679000

KEYS



EXTRACT FAN FOR TOILETS, FLUSH WALL MOUNTED, MODEL OPUS 80 WITH FAN RUN & STOP BY AS MANUFACTURED BY BAWAG WITH 120mm DISCHARGE DUCT, FAULT INDICATOR, HUMMING CHANGEOVER & RUN-ON TIMER SET AT 5 MINUTE. DUTY = 15 L/S. OPERATE BY REMOTE PIR SENSOR.



INDICATIVE ONLY
NOTIONAL ROUTES FOR DISCUSSION ONLY
NOT FOR TENDERING OR INSTALLATION

NOTES

REV.	DESCRIPTION	DATE	BY	CHKD	APP'D
A	AMENDMENTS TO FAN COIL UNITS, RISERS & CLIMBING CONDUITS				
REV.	DATE	BY	CHKD	APP'D	

SITE PLAN (M2)

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BEDFORD ESTATES

52-53 RUSSELL SQUARE,
LONDON WC1B 4HP

FIRST FLOOR
COOLING NOTIONAL PROPOSAL

Scale	1:50	Sheet	A1	Project	PRELIMINARY
Drawing No.	06/176-SM03	Revision	A		

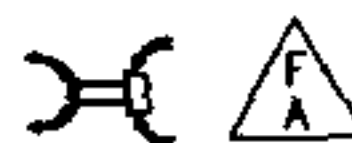
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SCHEDULE OF FAN COIL UNITS								
REF. NO.	LOCATION	AIR FLOW MAX. (m ³ /s)	TYPE AND MAKE	WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)	TOTAL COOLING (W)	MOUNTING
FCU/2/01	OFFICE 1	0.117	DAIKIN FXHQ25M	930	610	220	2300	FLOOR
FCU/2/02	OFFICE 1	0.117	DAIKIN FXHQ25M	930	610	220	2300	FLOOR
FCU/2/03	OFFICE 2	0.117	DAIKIN FXHQ25M	930	610	220	1800	FLOOR
FCU/2/04	OFFICE 2	0.117	DAIKIN FXHQ25M	930	610	220	1800	FLOOR
FCU/2/05	OFFICE 2	0.117	DAIKIN FXHQ25M	930	610	220	1800	FLOOR
FCU/2/06	OFFICE 3	0.117	DAIKIN FXHQ25M	930	610	220	1800	FLOOR
FCU/2/07	OFFICE 3	0.117	DAIKIN FXHQ25M	930	610	220	1800	FLOOR
FCU/2/08	OFFICE 3	0.117	DAIKIN FXHQ25M	930	610	220	2300	FLOOR
FCU/2/09	OFFICE 4	0.183	DAIKIN FXHQ40M	1070	610	220	3600	FLOOR

NOTES:

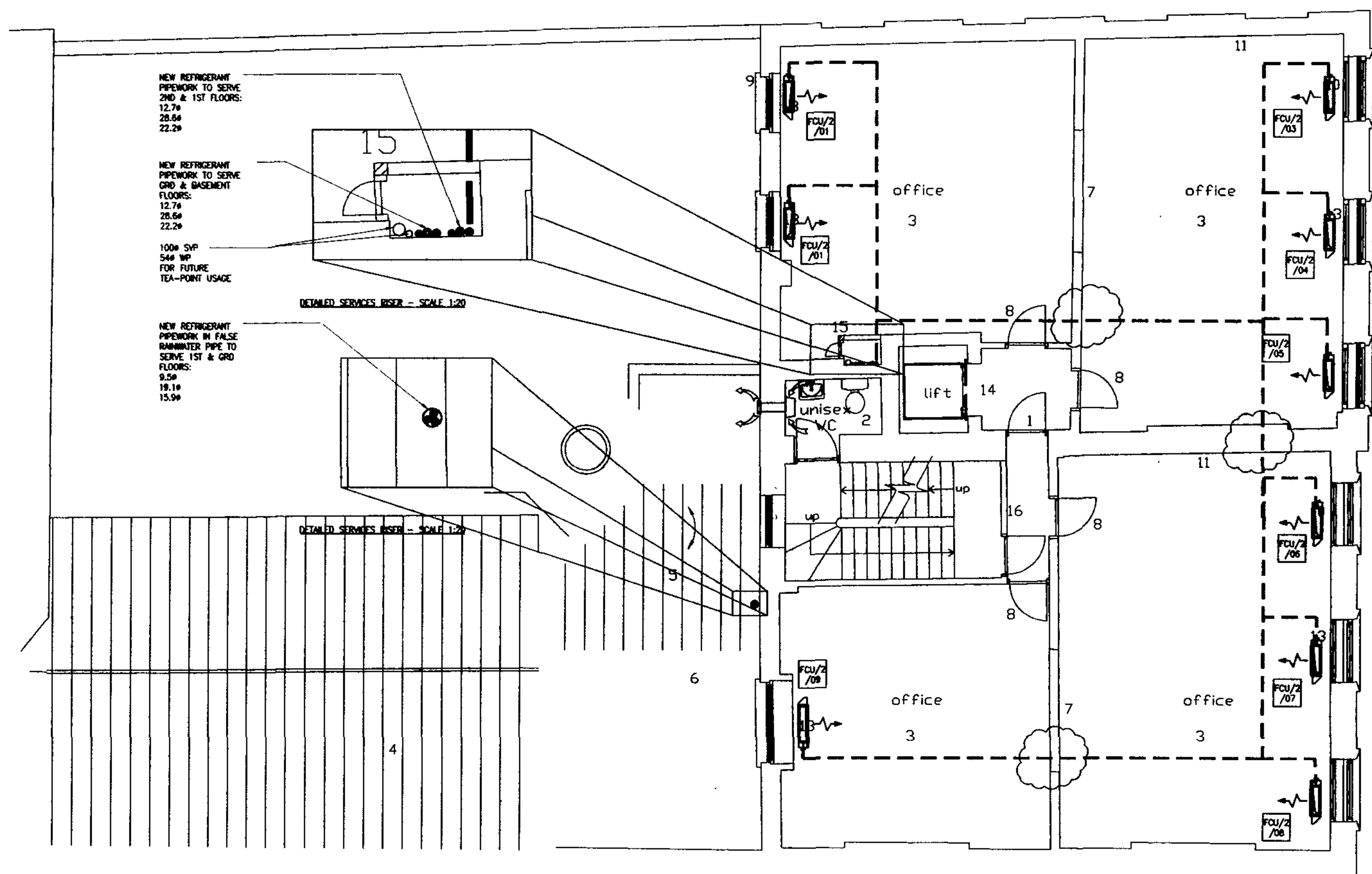
1. ALL AIR CONDITIONING EQUIPMENT SHALL BE SUPPLIED BY DAIKIN AIRCONDITIONING UK LTD TEL: 01932 879000

KEYS



EXTRACT FAN FOR TOILETS, FLUSH MOUNTED, MODEL OPUS 80 70W FAN RUN & STANDBY AS MANUFACTURED BY INMATE WITH 130mm DISCHARGE SPIROD, FAULT INDICATOR, AUTOMATIC CHANGEOVER & RUN-ON TIMER SET AT 5 MINUTE. DUTY = 15 L/S. OPERATE BY REMOTE PIR SENSOR

INDICATIVE ONLY
NOTIONAL ROUTES FOR DISCUSSION ONLY
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NOTES

REV.	DESCRIPTION	DATE	BY	CHKD	APP'D
A	AMENDMENTS TO FAN COIL UNITS, RISERS & OUTDOOR CONDENSERS	K.L.	M.W.	M.W.	M.W.
B	INITIAL ISSUE	K.L.	M.W.	M.W.	M.W.
C	REVISION	K.L.	M.W.	M.W.	M.W.

SHE. PLAN
(M3)

**EDWARD
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BEDFORD ESTATES

52-53 RUSSELL SQUARE,
LONDON WC1B 4HP

SECOND FLOOR
COOLING NOTIONAL PROPOSAL

Scale	1:50	Sheet No.	A1	Project No.	06/176-SM04	Revision	A
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ELECTRICAL AND MECHANICAL FITTINGS AND/OR APPLIANCES, CONDUITS, PIPES, CABLES, ETC. ARE INDICATED FOR TENDERING PURPOSES. GUIDANCE & COMPLETION OF INSTALLATION DRAWINGS. EXACT POSITIONS AND ROUTES SHALL BE SETTLED ON SITE IN RELATION TO OTHER SERVICES AND FIXTURES AND TO THE ARCHITECT'S DETAILED ROOM LAYOUTS WHERE ISSUED OR APPROPRIATE. EXCEPT WHERE DIMENSIONS ARE GIVEN (ON THE DRAWING OR IN THE SPECIFICATION), FINAL POSITIONS OF LIGHTING POINTS, MECHANICAL AND ELECTRICAL FITTINGS, FIXTURES AND / OR APPLIANCES MUST BE CHECKED WITH THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING

SCHEDULE OF FAN COIL UNITS							
REF. N°	LOCATION	AIR FLOW MAX. (m ³ /s)	TYPE AND MAKE	WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)	TOTAL COOLING (W)
FCU/3/01	OFFICE 1	0.117	DARCON FFMQ25M	930	610	220	2300
FCU/3/02	OFFICE 1	0.117	DARCON FFMQ25M	930	610	220	2300
FCU/3/03	OFFICE 1	0.117	DARCON FFMQ25M	930	610	220	2300
FCU/3/04	OFFICE 1	0.117	DARCON FFMQ25M	930	610	220	1800
FCU/3/05	OFFICE 1	0.117	DARCON FFMQ25M	930	610	220	1800
FCU/3/06	OFFICE 2	0.133	DARCON FFMQ32M	1070	610	220	2900
FCU/3/07	OFFICE 2	0.133	DARCON FFMQ32M	1070	610	220	2900
FCU/3/08	OFFICE 2	0.117	DARCON FFMQ25M	930	610	220	1800
FCU/3/09	OFFICE 2	0.117	DARCON FFMQ25M	930	610	220	1800

NOTES:

1. ALL AIR CONDITIONING EQUIPMENT SHALL BE SUPPLIED BY DARCON AIRCONDITIONING UK LTD TEL: 01932 879000

KEYS



EXTRACT FAN FOR ROILETS, FLUSH BACT MONITOR, MODEL 6PUS OR NECESSARY IN CEILING VOID FROM FAN UNIT & SENSORS AS MANUFACTURED BY HANSON WITH 100mm DISCHARGE SPONGE, FAULT INDICATOR, AUTOMATIC CHANGEMAN & RUN-ON TIMER SET AT 5 MINUTE. DUTY = 30 1/2% OPERATE BY REMOVE PH SENSOR

INDICATIVE ONLY
NOTIONAL ROUTES FOR DISCUSSION ONLY
NOT FOR TENDERING OR INSTALLATION

NEW REFRIGERANT PIPEWORK TO SERVE 3RD FLOOR:
12.7#
28.6#
19.1#

NEW REFRIGERANT PIPEWORK TO SERVE 2ND & 1ST FLOORS:
12.7#
28.6#
22.2#

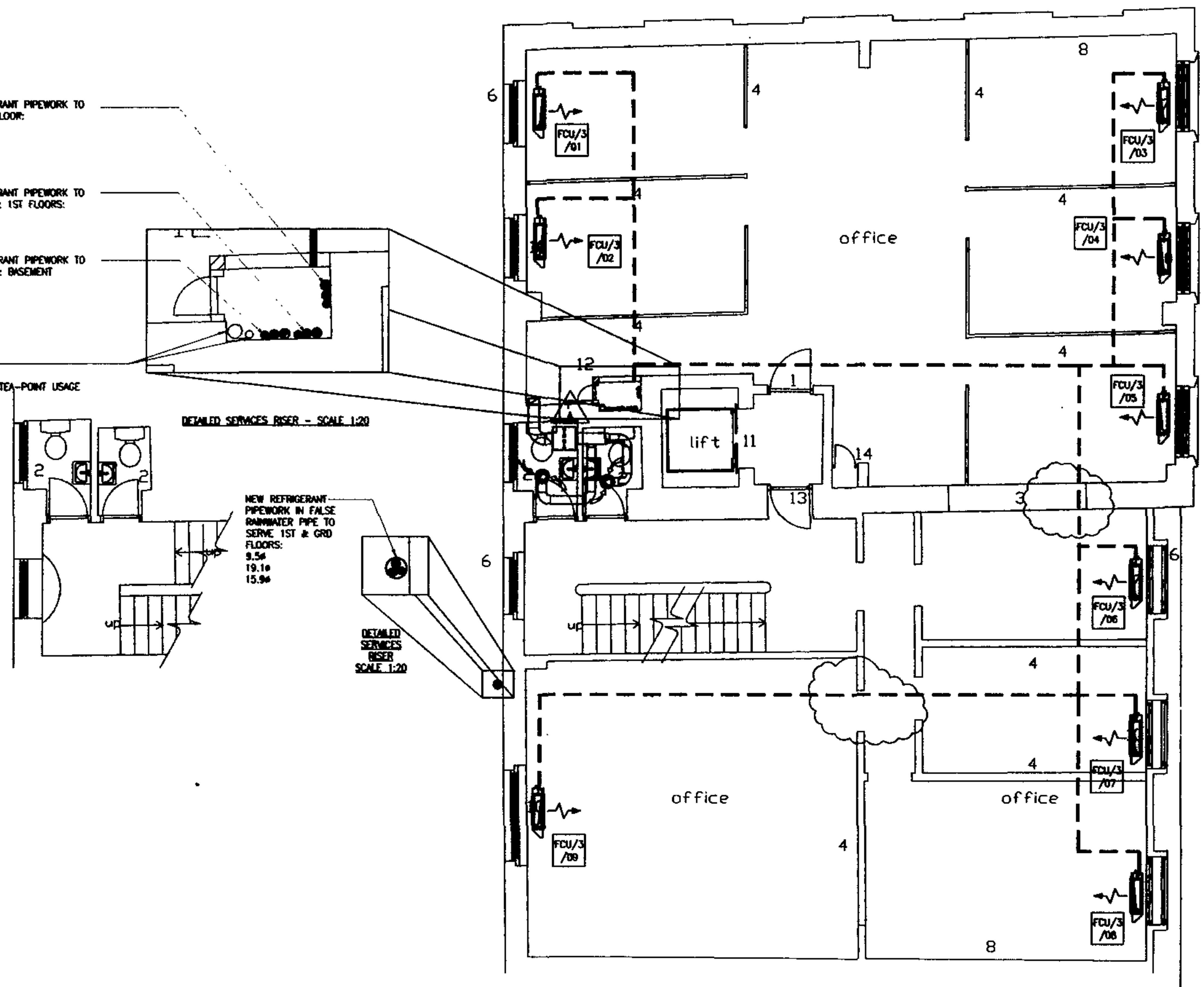
NEW REFRIGERANT PIPEWORK TO SERVE GRD & BASEMENT FLOORS:
12.7#
28.6#
22.2#

100# SWP
54# SWP
FOR FUTURE TEA-POINT USAGE

DETAILED SERVICES RISER - SCALE 1:20

NEW REFRIGERANT PIPEWORK IN FALSE RAINWATER PIPE TO SERVE 1ST & GRD FLOORS:
9.5#
19.1#
15.9#

DETAILED SERVICES RISER SCALE 1:20



NOTES

REV.	DESCRIPTION	DATE	BY	CHKD
A	AMENDMENTS TO FAN COIL UNITS, RISERS & OUTDOOR CONDENSERS	11/07	MJP	MJP
B	INITIAL ISSUE	11/07	MJP	MJP
C	REVISION	11/07	MJP	MJP

SITE PLAN (1:20)

EDWARD PEARCE & PARTNERS
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BEDFORD ESTATES

52-53 RUSSELL SQUARE,
LONDON WC1B 4HP

THIRD FLOOR
COOLING NOTIONAL PROPOSAL

Scale	1:50	Sheet	A1	Revision	PRELIMINARY
Drawing No.	06/176-SM05	Sheet	A		

ELECTRICAL AND MECHANICAL FITTINGS AND/OR APPLIANCES, CONDUITS, PIPES, CABLES, ETC. ARE INDICATED FOR TENDERING PURPOSES. GUIDANCE & COMPLETION OF INSTALLATION DRAWINGS, EXACT POSITIONS AND ROUTES SHALL BE SETTLED ON SITE IN RELATION TO OTHER SERVICES AND ROUTES AND TO THE ARCHITECT'S DETAILED ROOM LAYOUTS WHERE ISSUED OR APPROPRIATE EXCEPT WHERE DIMENSIONS ARE GIVEN (ON THE DRAWING OR IN THE SPECIFICATION). FINAL POSITIONS OF LIGHTING POINTS, MECHANICAL AND ELECTRICAL FITTINGS, FIXTURES AND / OR APPLIANCES MUST BE CHECKED WITH THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING

SCHEDULE OF FAN COIL UNITS								
REF N°	LOCATION	AIR FLOW MAX. (m ³ /s)	TYPE AND MAKE	WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)	TOTAL COOLING (W)	MOUNTING
FCU/4/01	OFFICE 1	0.133	DANON F10025M	930	610	220	2300	FLOOR
FCU/4/02	OFFICE 1	0.133	DANON F10025M	930	610	220	2300	FLOOR
FCU/4/03	OFFICE 1	0.133	DANON F10025M	930	610	220	2300	FLOOR
FCU/4/04	OFFICE 1	0.133	DANON F10025M	930	610	220	1800	FLOOR
FCU/4/05	OFFICE 1	0.133	DANON F10025M	930	610	220	1800	FLOOR

NOTES:

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INDICATIVE ONLY
NOTIONAL ROUTES FOR DISCUSSION ONLY
NOT FOR TENDERING OR INSTALLATION

NEW REFRIGERANT PIPEWORK TO SERVE 4TH & 3RD FLOORS:
12.76
28.84
19.16

NEW REFRIGERANT PIPEWORK TO SERVE 2ND & 1ST FLOORS:
12.76
28.84
22.26

NEW REFRIGERANT PIPEWORK TO SERVE GRD & BASEMENT FLOORS:
12.76
28.84
22.26

100% SWP
548 WP
FOR FUTURE
TEA-POINT USAGE

DETAILED SERVICES RISER - SCALE 1:20

NEW REFRIGERANT PIPEWORK IN FALSE RAINWATER PIPE TO SERVE 1ST & GRD FLOORS:
9.56
19.16
15.96

DETAILED SERVICES RISER
SCALE 1:20

EXISTING ROOF TO BE REMOVED AND SPACE TO BE MADE WEATHER TIGHT TO ACCOMMODATE OUTDOOR CONDENSERS

SCHEDULE OF OUTDOOR CONDENSERS								
REF N°	LOCATION	TOTAL WEIGHT (KG)	TYPE AND MAKE	WIDTH (mm)	HEIGHT (mm)	DEPTH (mm)	ELECTRICAL DATA (S.C.) (R.C.)	SOUND PRESSURE (dB)
VRV/01	ROOF PLANTROOM	307.4	DANON REYD12M	1248	1808	765	75 17.1	80
VRV/02	ROOF PLANTROOM	353.5	DANON REYD14M	1248	1800	765	83 22.7	80
VRV/03	ROOF PLANTROOM	353.5	DANON REYD14M	1248	1800	765	83 22.7	80
VRV/04	ROOF PLANTROOM	255.3	DANON REYD8M	930	1800	765	74 11.1	57

NOTES:

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NOTES

REV.	DESCRIPTION	DATE	BY	CHKD
1	ISSUED FOR TENDERING	12/07/06	EDP	EDP
2	REVISION	12/07/06	EDP	EDP
3	REVISION	12/07/06	EDP	EDP
4	REVISION	12/07/06	EDP	EDP

SEE PLAN
(003)

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FOURTH FLOOR
COOLING NOTIONAL PROPOSAL

Scale: 1:50 A1 PRELIMINARY
Drawing No: 06/176-SM06
Rev: A