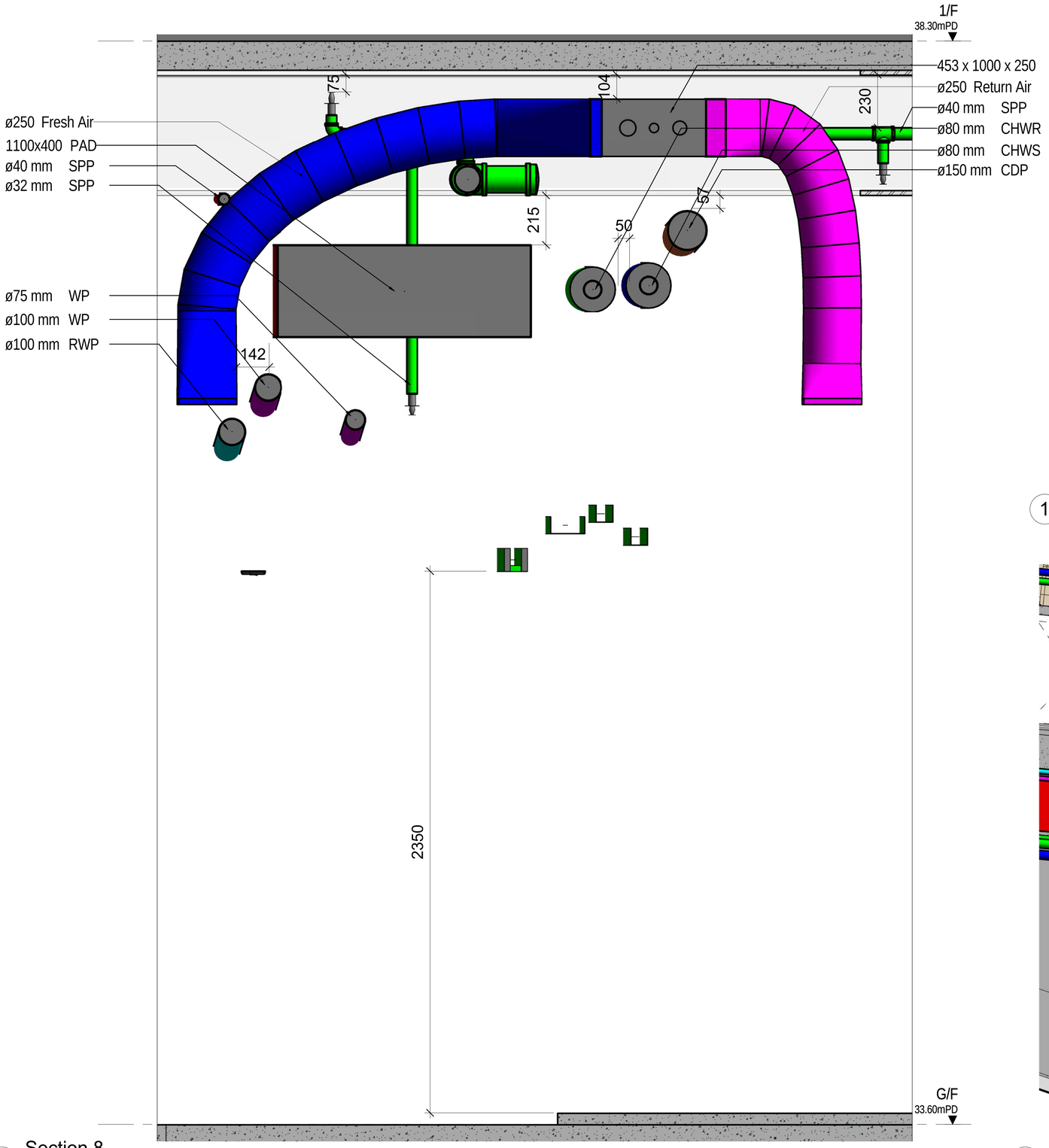

2 Section 8
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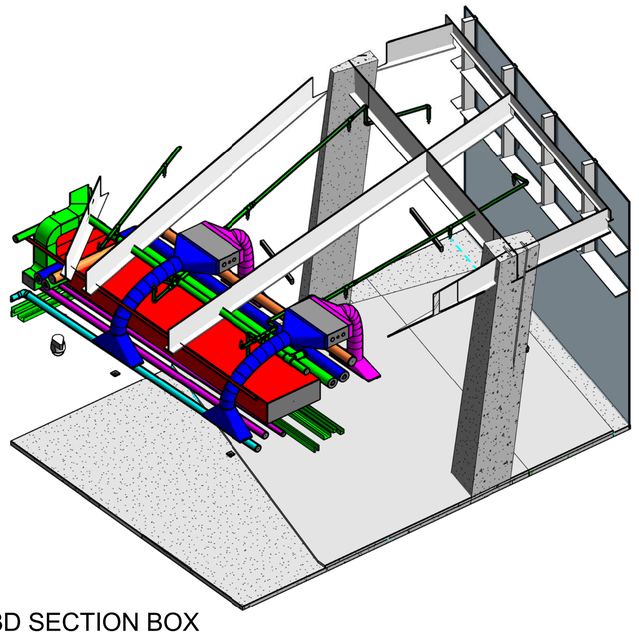

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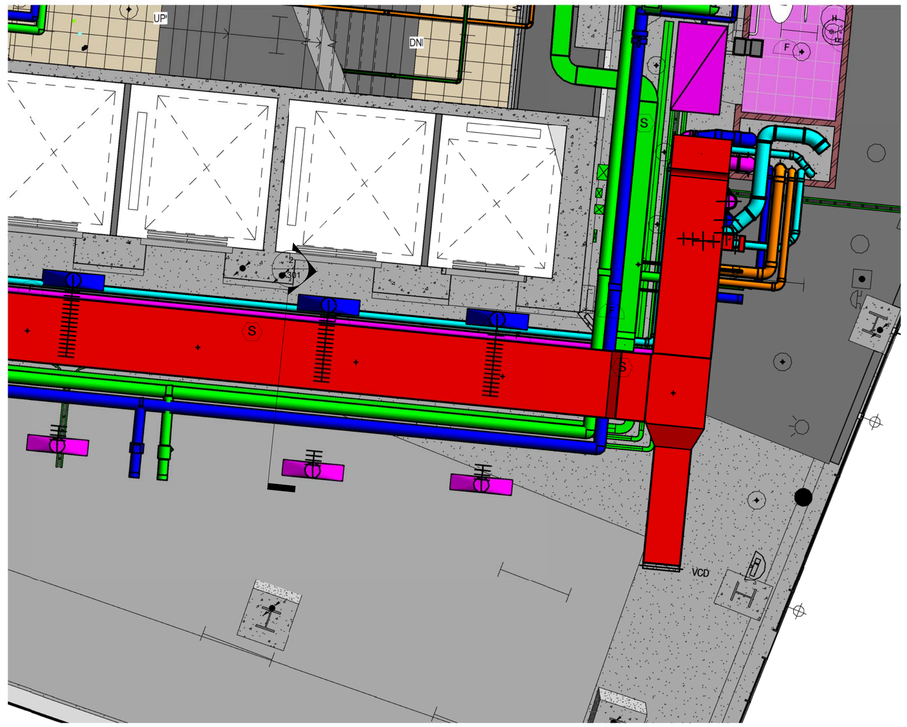

3 SECTION LOCATION PLAN
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KEY PLAN

NO.	DESCRIPTION	DATE	BY

DRAWN	Author
DESIGNED	Designer
CHECKED	Checker
APPROVED	Approver
DATE	13/11/15

ORIGINATOR
A.C.I.D.

BIM REF.

TITLE
SECTION 8

SCALE

FIGURE NO.
P14035_MEP_ A301

REV.

PLOT DRV:
MODELNAME:
FILENAME:
PRINTED BY:
9/26/2016 11:22:29 AM

CONTRACT [redacted]

E&M SERVICES FOR [redacted]

[redacted] PROJECT

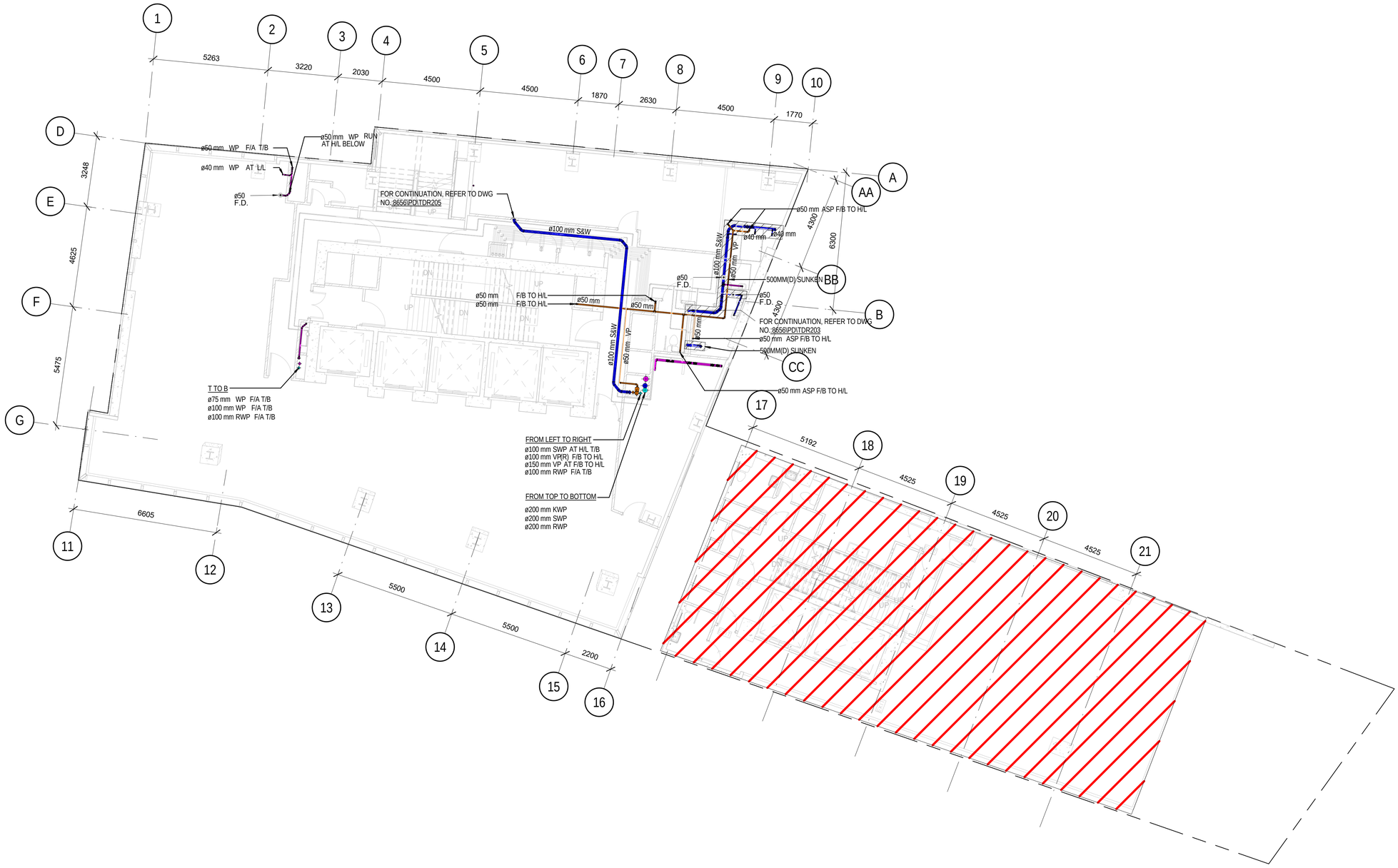
TENDER DRAWINGS

TENDER ISSUE

201_

ADVANCED CONSTRUCTION INFORMATION DEVELOPMENT

CONFIDENTIAL



1 1st FLOOR LAYOUT

1 : 100

KEY PLAN

NO.	DESCRIPTION	DATE	BY

DRAWN	Author
DESIGNED	Designer
CHECKED	Checker
APPROVED	Approver
DATE	13/11/15

ORIGINATOR A.C.I.D.

BIM REF.

TITLE

DR_ 1st FLOOR LAYOUT

SCALE

FIGURE NO. P14035_MEP_DR_ D203

REV.

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FILENAME:

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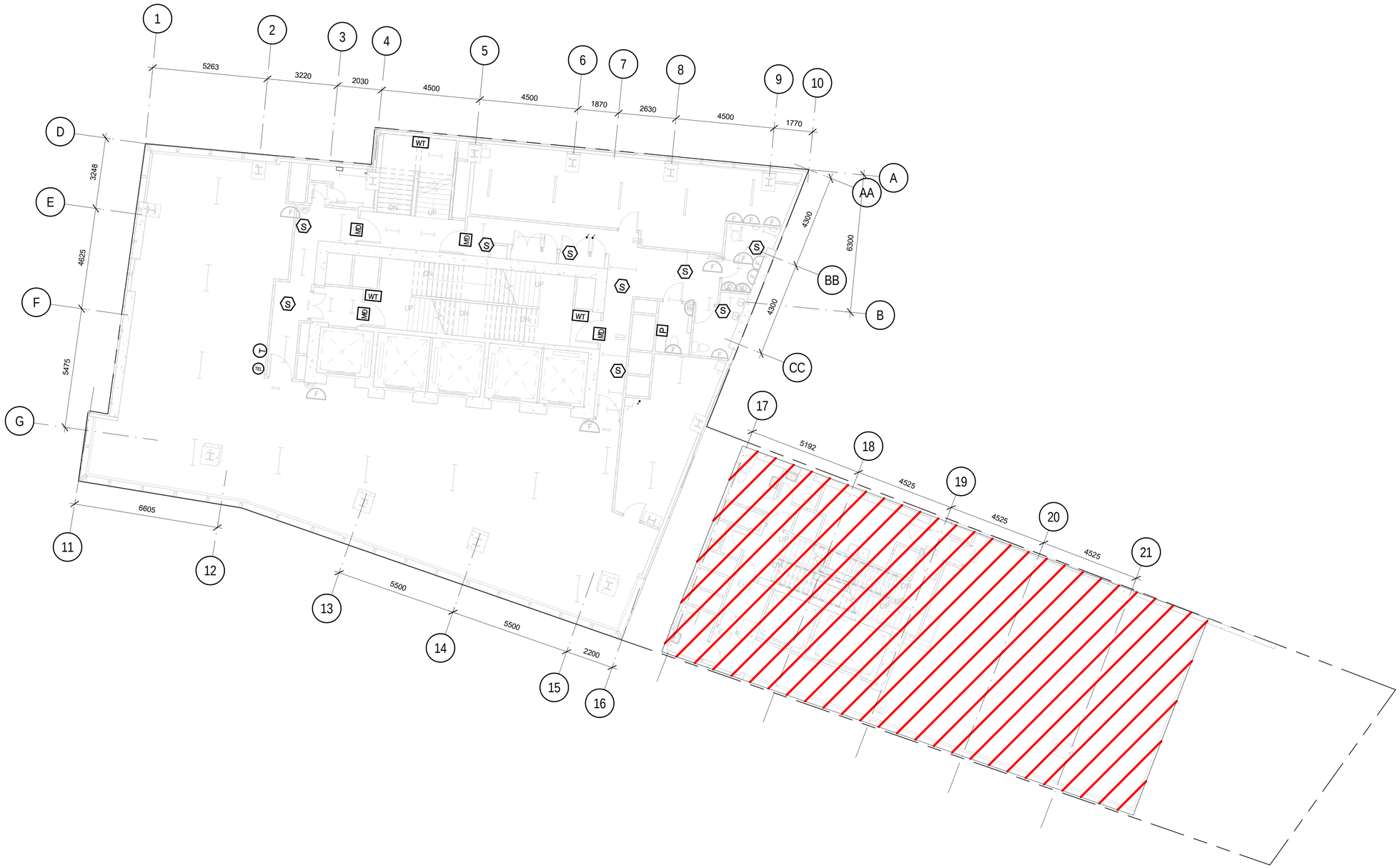

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1 : 100

KEY PLAN

NO.	DESCRIPTION	DATE	BY

DRAWN	Author
DESIGNED	Designer
CHECKED	Checker
APPROVED	Approver
DATE	13/11/15

[redacted]

ORIGINATOR A.C.I.D.

BIM REF.

TITLE

ELE_ 1st FLOOR LAYOUT

SCALE

FIGURE NO. P14035_MEP_ELE_ E203

REV.

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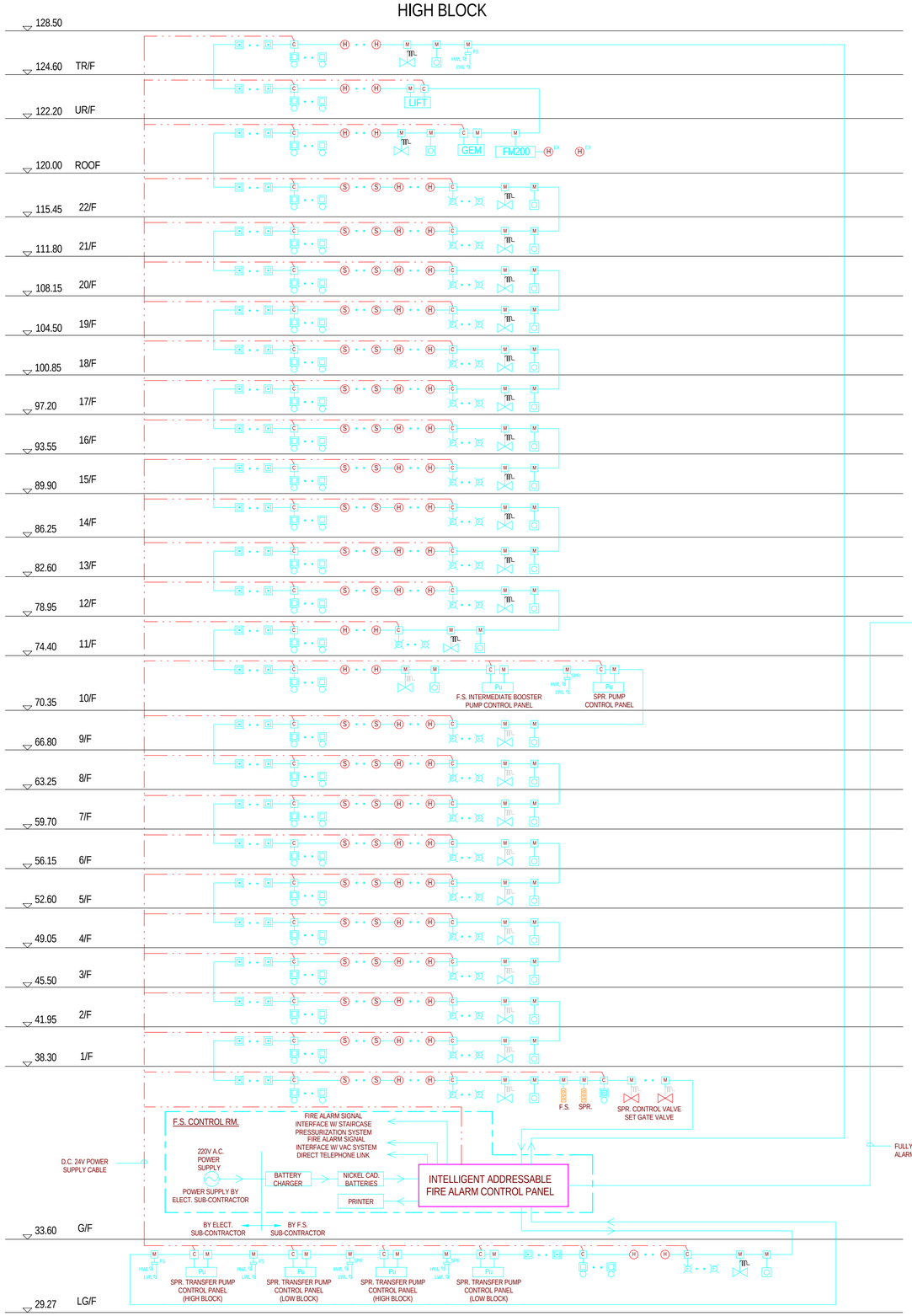
9/26/2016 11:22:54 AM

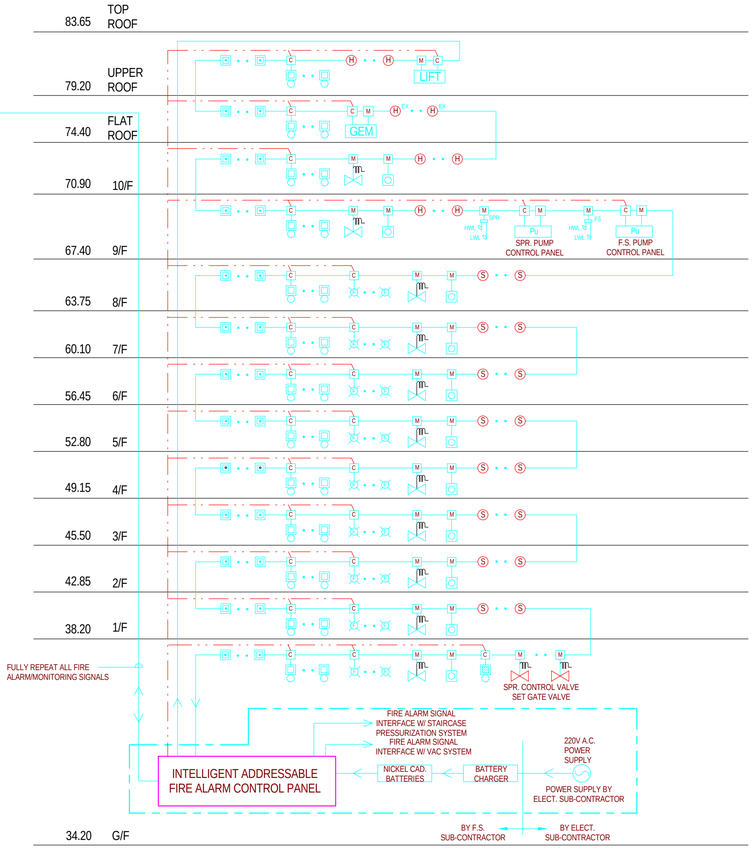
HIGH BLOCK



NOTES FOR A.F.A. SYSTEM:

1. THE NUMBER OF INTELLIGENT LOOP CIRCUIT FOR A.F.A. SYSTEM FOR TENERING PURPOSE AND INDICATIVE ONLY, EXACT QUANTIFY OF THE LOOP CIRCUIT SHOULD BE DECIDED BY THE F.S. SUB-CONTRACTOR.
2. FOR THE A.F.A. SYSTEM, THE F.S. SUB-CONTRACTOR SHOULD BE PROVIDED NOT LESS THAN 20% SPARE CAPACITY ADDRESS POINT OF EACH INTELLIGENT LOOP AND CONTROL PANEL DISPLAY UNIT FOR FURTURE EXTENSION.
3. ALL CONTROL MODULE & MONITOR MODULE SHOULD HAVE LABEL LOCALLY TO INDICATED THE POINT ADDRESS AND POINT DESCRIPTION.
4. THE OUTGOING FIRE SIGNAL LOOP CABLE CONNECTED TO A.F.A. CONTROL PANEL SHOULD BE MEGGER TEST FOR INSULATION.
5. MINIMUM 1.5mm^{2}SIGNAL CABLE FOR A.F.A. SYSTEM LOOP CIRCUIT.
6. ALL SMOKE/HEAT DETECTOR AND BREAKGLASS UNIT SHOULD HAVE LABEL LOCALLY TO INDICATE THE ADDRESS.
7. LIFT HOMING MODULE, A/C SHUT DOWN MODULE, F.S./SPR. PUMP CONTROL MODULE SHOULD BE EASY ISOLATED AT G/F F.S. CONTROL ROOM.
8. MONITOR AND CONTROL MODULE SHOULD BE WALL MOUNTED AND AT AN VISIBLE AND ACCESSIBLE LOCATION FOR EASY MAINTENANCE.

LOW BLOCK



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NO.	DESCRIPTION	DATE	BY

DRAWN	Author
DESIGNED	Designer
CHECKED	Checker
APPROVED	Approver
DATE	13/11/15

ORIGINATOR
A.C.I.D.

BIM REF.

TITLE
FS_ SCHEMATIC LINE DIAGRAM FOR AUTOMATIC FIRE ALARM SYSTEM

SCALE

FIGURE NO.
P14035_MEP_FS_ F103

REV.

PLOT DRV:
MODELNAME:
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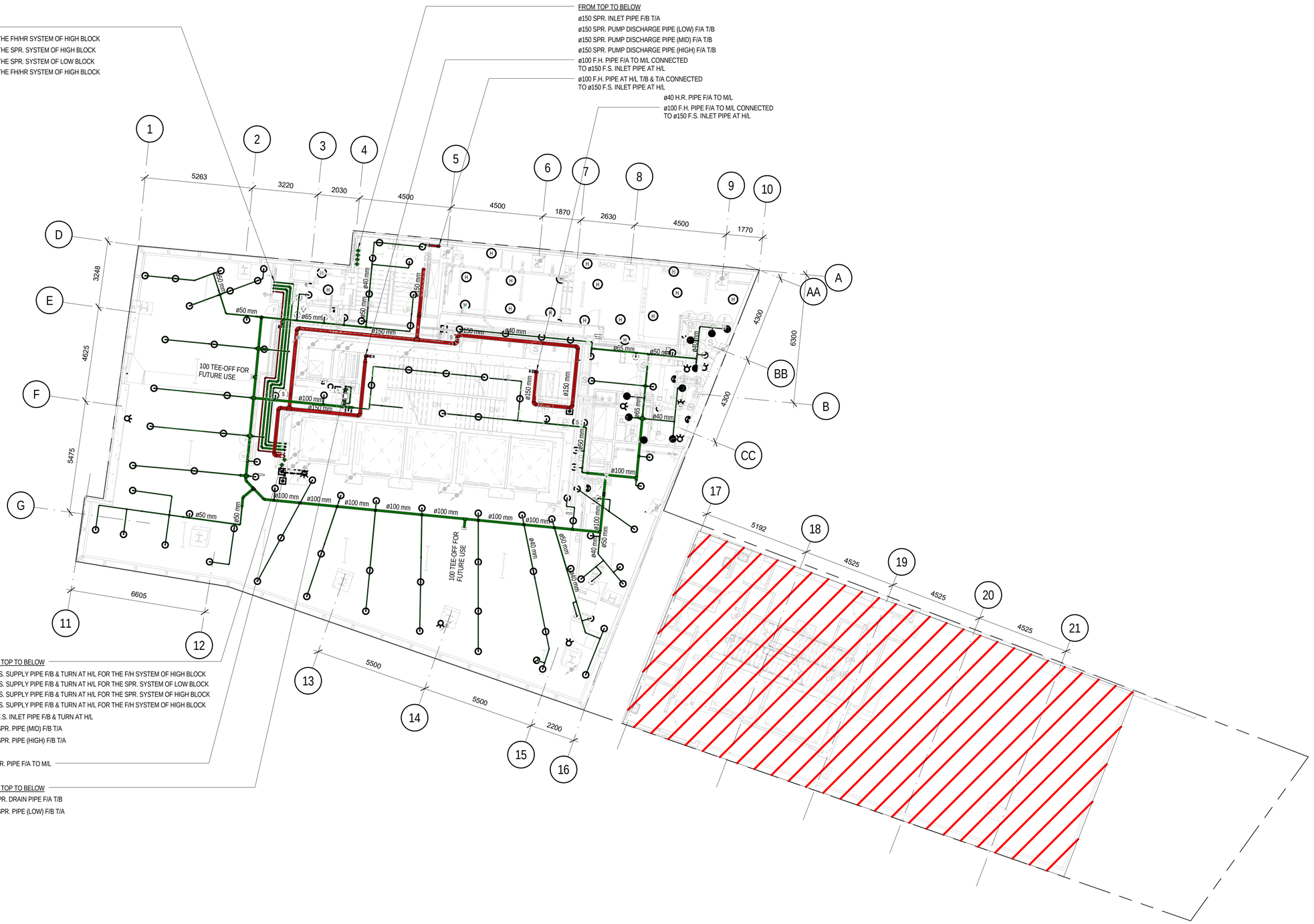
9/26/2016 11:23:01 AM



1 1st FLOOR LAYOUT

1 : 100

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FILENAME:
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KEY PLAN

NO.	DESCRIPTION	DATE	BY

DRAWN	Author
DESIGNED	Designer
CHECKED	Checker
APPROVED	Approver
DATE	13/11/15

ACID [redacted]

[redacted]

ORIGINATOR A.C.I.D.

BIM REF.

TITLE

FS_ 1st FLOOR LAYOUT

SCALE

FIGURE NO. P14035_MEP_FS_ F203

REV.

Drawing List

Folder	Sheet Number	Sheet Name	Project Address	Sheet Issue Date	Revision No.	Drawn By	Designed By	Checked By	Approved By
ALL View									
ALL View	A201	LOWER GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A202	GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A204	2nd FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A205	3rd FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A206	4th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
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ALL View	A214	12th - 14th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A215	15th - 17th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A216	18th - 22nd FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A217	ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A218	MID ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A219	UPPER ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
ALL View	A203	1st FLOOR LAYOUT		13/11/15		Author	Designer	Checker	Approver
ALL View	A301	SECTION 8		13/11/15		Author	Designer	Checker	Approver
Cover Page									
Cover Page	C101	Cover Page		10/30/15		Author	Designer	Checker	Approver
DR									
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DR	D202	GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
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DR	D219	UPPER ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
DR	D001	LEGEND AND ABBREVIATION		11/04/15		Author	Designer	Checker	Approver
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ELE									
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ELE	E202	GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
ELE	E203	1st FLOOR LAYOUT		13/11/15		Author	Designer	Checker	Approver
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F.S.	F204	2nd FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F205	3rd FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F206	4th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F207	5th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F208	6th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F209	7th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver

Drawing List

Folder	Sheet Number	Sheet Name	Project Address	Sheet Issue Date	Revision No.	Drawn By	Designed By	Checked By	Approved By
F.S.	F210	8th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F211	9th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F212	10th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F213	11th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F214	12th - 14th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F215	15th - 17th FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F216	18th - 22nd FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F217	ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F218	MID ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F219	UPPER ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
F.S.	F103	SCHEMATIC LINE DIAGRAM FOR AUTOMATIC FIRE ALARM SYSTEM		13/11/15		Author	Designer	Checker	Approver
MVC									
MVC	M201	LOWER GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
MVC	M202	GROUND FLOOR LAYOUT		09/25/15		Author	Designer	Checker	Approver
MVC	M203	1st FLOOR LAYOUT		13/11/15		Author	Designer	Checker	Approver
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PL	P001	LEGEND AND ABBREVIATION		11/04/15		Author	Designer	Checker	Approver
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TKG	T218	MID ROOF LAYOUT		09/25/15		Author	Designer	Checker	Approver
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TKG	T001	LEGEND AND ABBREVIATION		11/04/15		Author	Designer	Checker	Approver

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MODELNAME:
FILENAME:
PRINTED BY:
9/26/2016 11:23:36 AM

KEY PLAN

NO.	DESCRIPTION	DATE	BY

DRAWN	Author
DESIGNED	Designer
CHECKED	Checker
APPROVED	Approver
DATE	13/11/15

[redacted]

ORIGINATOR
A.C.I.D.

BIM REF.

TITLE
Drawing List

SCALE

FIGURE NO.
P14035_MEP_ L001

REV.

GENERAL LEGEND

F & E	FEED & EXPANSION	W x D	DUCT (WIDTH x DEPTH)
CDP	CONDENSATE	W x D	RECTANGULAR DUCT W/ INTERNAL ACOUSTIC LINING
CH.W.S.	CHILLED WATER PIPE SUPPLY		
CHW.R.	CHILLED WATER PIPE RETURN		4-WAY SQUARE AIR DIFFUSER, ROUND AIR DIFFUSER
R	REFRIGERANT PIPE (PAIR)		
	PIPE TURNING DOWN		RECTANGULAR AIR GRILLE (BOTTOM)
	PIPE TURNING UP		
	PLUG-OFF WITH ISOLATING VALVE		RECTANGULAR AIR GRILLE (SIDE)
	ISOLATING VALVE	RAD/EAD/ARD	RETURN AIR DUCT / EXHAUST AIR DUCT / AIR RELEASE DUCT
	GLOBE VALVE		
	BUTTERFLY VALVE	FAD	FRESH AIR DUCT
M	BUTTERFLY VALVE W / WEATHER PROOF ELECTRIC ACTUATOR	SAD/PAD	STAIRCASE PRESSURIZATION AIR DUCT / SUPPLY AIR DUCT
M	2-WAY MODULATING CONTROL VALVE (ELECTRICALLY OPERATED)		WANED ELBOW
	NON RETURN (CHECK) VALVE		

AIR DIFFUSER DESIGNATION

n	a	b
	c	d

a = USAGE

- S - S.A.
- E - E.A.
- R - R.A.
- T - T.A.
- F - F.A.
- PA - P.A.

c = FLOW RATE (L/s)

d = DIMENSION

TYPE

(A) LENGHT(mm) x NUMBER
(B) LENGHT(mm) x WIDTH(mm)
(C) DIAMETER(mm)
(D,E,F,G,H) LENGHT(mm) x NUMBER

SPACING : 10mm, 15mm

DEFLECTION : 0°, 15°, 30°, 40°

n = NUMBER

b = TYPE

- (SD) - SLOT DIFFUSER
- (S) - SQUARE / RECTANGULAR DIFFUSER
- (R) - ROUND DIFFUSER
- (D) - SINGLE DEFLECTION DIFFUSER
- (DAD) - DOUBLE DEFLECTION ADJUSTANLE DIFFUSER
- (SAD) - SINGLE DEFLECTION ADJUSTABLE DIFFUSER
- (LD) - LINEAR DIFFUSER
- (H) - LOURVE FACE HINGE TYPE W/ FILTER BEHIND
- (VBD) - VERTICAL BLADE DIFFUSER
- (GIF) - GALVANIZED STEEL FILTER
- (0) - OTHERS (AS SHOWN ON DRAWING)

EQUIPMENT DESIGNATION

MECHANICAL VENTILATION FANS

FAN TYPE
LOCATION OF FAN (LEVEL)
DESIGNATION NO.
AIR FLOW RATE (L/S)

SPLIT TYPE A/C OUTDOOR UNIT

SACO
DESIGNATION NO.
COOLING CAPACITY (kW)

DUCT TYPE SPLIT TYPE A/C INDOOR UNIT

SACI
DESIGNATION NO.
COOLING CAPACITY (kW)

WALL MOUNTED TYPE SPLIT TYPE A/C INDOOR UNIT

WSACI
DESIGNATION NO.
COOLING CAPACITY (kW)

GROUP MOTOR CONTROL CUBULE

GMCC / □ / □
DESIGNATION NO.
LOCATION OF GMCC (LEVEL)

ABBREVIATION

MVAC	MECHANICAL VENTILATION & AIR CONDITIONING
N/C	NORMALLY CLOSED
N/O	NORMALLY OPENED
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW
L/L	LOW LEVEL
H/L	HIGH LEVEL
W/	WITH
W/O	WITHOUT
C/W	COMPLETE WITH
F.L.	FLOOR LEVEL
DIA.	DIAMETER
N.T.S.	NOT TO SCALE
CH.W.S.	CHILLED WATER SUPPLY PIPE
CH.W.R.	CHILLED WATER RETURN PIPE
C.D.W.S.	CONDENSING WATER SUPPLY
C.D.P.	CONDENSATE DRAIN PIPE
FAD	FRESH AIR DUCT
SAD	SUPPLY AIR DUCT
EAD	EXHAUST AIR DUCT
RAD	RETURN AIR DUCT
PAD	PRIMARY AIR DUCT
MAD	MAKE-UP AIR DUCT
SED	SMOKE EXTRACTION DUCT
TAD	TRANSFER AIR DUCT
KED	KITCHEN EXHAUST AIR DUCT
KMD	KITCHEN MAKE-UP AIR DUCT
SPD	STAIRCASE PRESSURIZATION DUCT
ARD	AIR RELEASE DUCT
PRD	PRESSURE RELIEF DUCT
SP	STAIRCASE PRESSURIZATION
SPL	STAIRCASE PRESSURIZATION AIR INTAKE LOUVRE
SPF	STAIRCASE PRESSURIZATION FAN
LP	LOBBY PRESSURIZATION
LPD	LOBBY PRESSURIZATION DUCT
LPF	LOBBY PRESSURIZATION FAN
F.A.	FRESH AIR
S.A.	SUPPLY AIR
E.A.	EXHAUST AIR
R.A.	RETURN AIR
S.P.	STAIRCASE PRESSURIZATION
A.R.	AIR RELEASE
SAG	SUPPLY AIR GRILLE
TAG	TRANSFER AIR GRILLE
EAG	EXHAUST AIR GRILLE

GENERAL NOTES

1. ALL FIRE DAMPERS SHOWN ARE FOR REFERENCE ONLY. EXACT LOCATION SHALL REFER TO THE LATEST HKFSD REQUIREMENT.
2. THE MATERIAL AND CONSTRUCTION DETAILS OF FIRE DAMPERS / FIRE RATED ENCLOSURE SHALL BE COMPLIED TO THE LATEST HKFSD REGULATION AND SUBJECT TO ARCHITECT / CONSULTING ENGINEER'S APPROVAL.
3. VENTILATION / AIR CONDITIONING (V/AC) CONTROL SYSTEM, METHOD "C", SHALL BE PROVIDED AS PER THE LATEST HKFSD STANDARD.
4. ACCESS PANELS SHALL BE PROVIDED FOR ALL FIRE DAMPERS WITH DIMENSIONS OF 450mmX450mm IN GENERAL AND OF APPROPRIATE SIZE FOR DUCTS SMALLER THAN 450mm IN WIDTH.
5. ALL FRESH AIR INTAKES AND EXHAUST AIR OUTLETS TO EXTERNAL LOUVRES NOT LESS THAN 45% FREE AREA SHALL BE PROVIDED BY OTHER AND WHICH MVAC SUB-CONTRACTOR SHALL PROVIDE WITH HOT DIPPED GALVANIZED STEEL INSECTS SCREEN (APPROX 10mm).
6. ALL WEATHERPROOF LOUVRES AS SHOWN SHALL BE PROVIDED BY MAIN CONTRACTOR. PART OF LOUVRE NOT USED FOR MVAC SHALL BE BLANKED OFF WITH G.I. STEEL BY MVAC SUB-CONTRACTOR. ADVANCE INFORMATION OF SIZES SHALL BE SUBMITTED BY MVAC SUB-CONTRACTOR WHICH SHALL BE APPROVED BY ARCHITECT/CONSULTING ENGINEERS.
7. 100mm HIGH UPSTAND CURB SHALL BE CONSTRUCTED BY MAIN CONTRACTOR AROUND ALL SLAB OPENINGS FOR PIPES AND/OR DUCTS.
8. CONDENSATE DRAINS SHALL BE LED TO NEAREST STORM WATER SYSTEM, EXACT LOCATIONS SHALL BE CHECKED ON SITE.
9. CONDENSATE DRAINS IN PLANT ROOM SHALL BE LED TO NEAREST STORM WATER SYSTEM, EXACT LOCATIONS SHALL BE CHECKED ON SITE.
10. ALL CONDENSATE DRAINS DIRECTLY CONNECTED TO THE STORMWATER DRAIN PIPE SHALL HAVE ANTI-SYPHONAGE TRAPS COMPLETE WITH INSULATION BY MVAC SUB-CONTRACTOR, CONDENSATE DRAIN PIPE ROUTING AND FINAL CONNECTION SHALL BE DETERMINED ON SITE.
11. CONCRETE PLINTH (BY MAIN CONTRACTOR) SHALL BE PROVIDED FOR ALL FLOOR MOUNTED EQUIPMENTS.
12. ALL FLOOR MOUNTED FANS SHALL BE ISOLATED WITH MINIMUM OF 25mm DEFLECTION SPRINGS WITH A 6mm MINIMUM THICKNESS NEOPRENE PAD OR WASHER, OR AS REQUIRED IN SPECIFICATION.
13. ALL PROPELLER FANS SHALL HAVE BELLMOUNT ENTRY.
14. ALL FIRE DAMPERS SHOWN ARE FOR REFERENCE ONLY. EXACT LOCATION SHALL REFER TO THE LATEST HKFSD REQUIREMENT.
15. THE MATERIAL AND CONSTRUCTION DETAILS OF FIRE DAMPERS / FIRE RATED ENCLOSURE SHALL BE COMPLIED TO THE LATEST HKFSD REGULATION AND SUBJECT TO ARCHITECT / CONSULTING ENGINEER'S APPROVAL.
16. VENTILATION / AIR CONDITIONING (V/AC) CONTROL SYSTEM, METHOD "C", SHALL BE PROVIDED AS PER THE LATEST HKFSD STANDARD.
17. ACCESS PANELS SHALL BE PROVIDED FOR ALL FIRE DAMPERS WITH DIMENSIONS OF 450mmX450mm IN GENERAL AND OF APPROPRIATE SIZE FOR DUCTS SMALLER THAN 450mm IN WIDTH.
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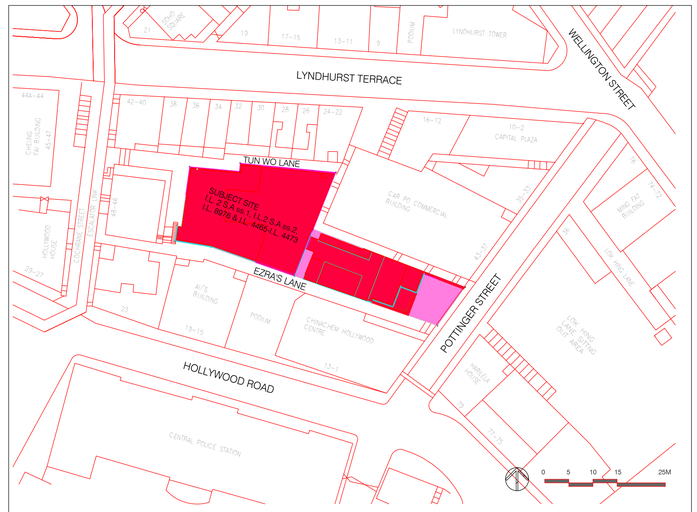
20. 100mm HIGH UPSTAND CURB SHALL BE CONSTRUCTED BY MAIN CONTRACTOR AROUND ALL SLAB OPENINGS FOR PIPES AND/OR DUCTS.
21. CONDENSATE DRAINS SHALL BE LED TO NEAREST STORM WATER SYSTEM, EXACT LOCATIONS SHALL BE CHECKED ON SITE.
22. CONDENSATE DRAINS IN PLANT ROOM SHALL BE LED TO NEAREST STORM WATER SYSTEM, EXACT LOCATIONS SHALL BE CHECKED ON SITE.
23. ALL CONDENSATE DRAINS DIRECTLY CONNECTED TO THE STORMWATER DRAIN PIPE SHALL HAVE ANTI-SYPHONAGE TRAPS COMPLETE WITH INSULATION BY MVAC SUB-CONTRACTOR, CONDENSATE DRAIN PIPE ROUTING AND FINAL CONNECTION SHALL BE DETERMINED ON SITE.
24. CONCRETE PLINTH (BY MAIN CONTRACTOR) SHALL BE PROVIDED FOR ALL FLOOR MOUNTED EQUIPMENTS.
25. ALL FLOOR MOUNTED FANS SHALL BE ISOLATED WITH MINIMUM OF 25mm DEFLECTION SPRINGS WITH A 6mm MINIMUM THICKNESS NEOPRENE PAD OR WASHER, OR AS REQUIRED IN SPECIFICATION.
26. ALL PROPELLER FANS SHALL HAVE BELLMOUNT ENTRY.



BLOCK PLAN (N.I.L)

KEY PLAN

NO.	DESCRIPTION	DATE	BY

DRAWN	Author
DESIGNED	Designer
CHECKED	Checker
APPROVED	Approver
DATE	13/11/15

[redacted]

ORIGINATOR A.C.I.D.

BIM REF.

TITLE

MVC_ LEGEND AND ABBREVIATION

SCALE

FIGURE NO. P14035_MEP_MVC_ M001

REV.

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FILENAME:
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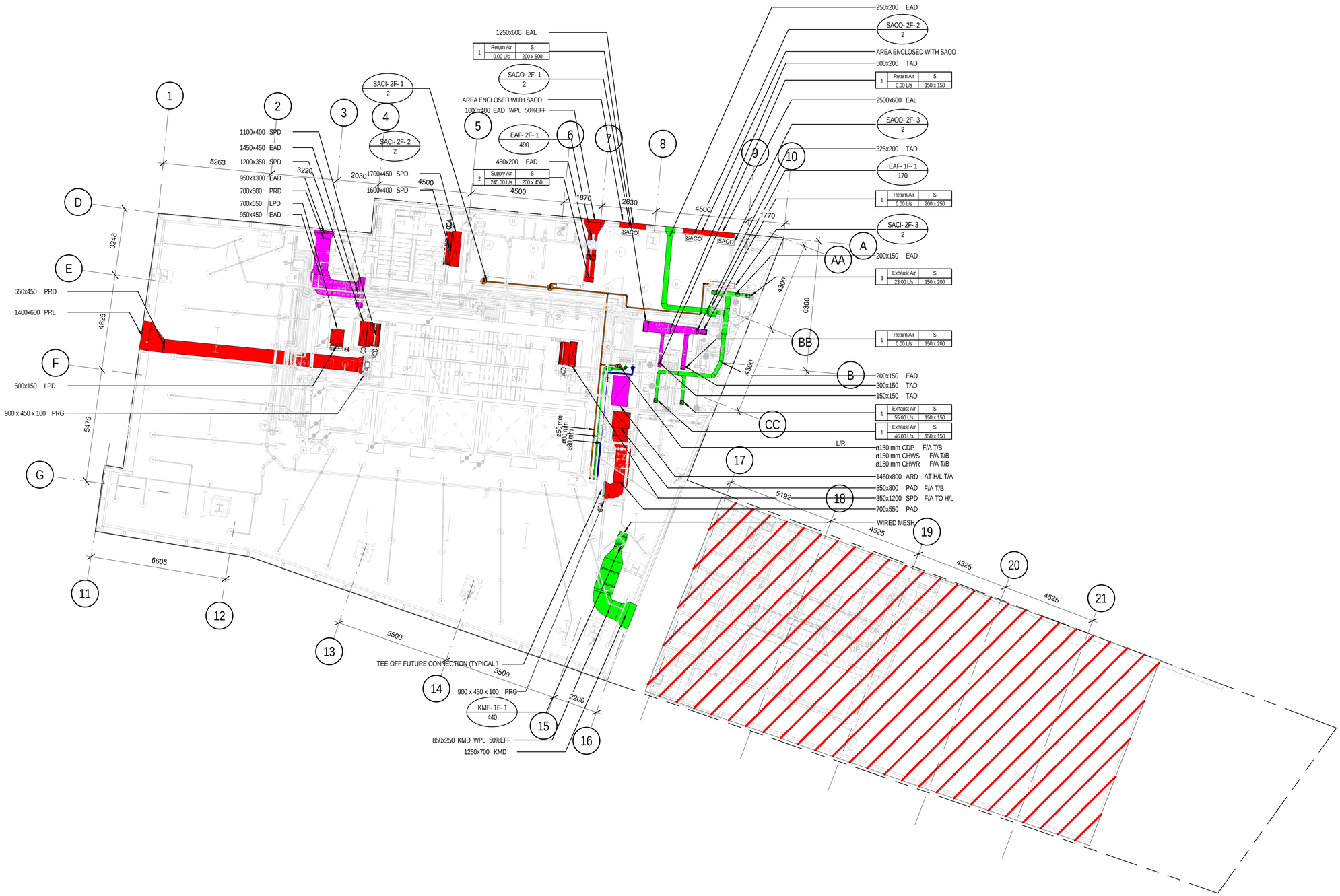

1 1st FLOOR LAYOUT

1 : 100

KEY PLAN

NO.	DESCRIPTION	DATE	BY

DRAWN	Author
DESIGNED	Designer
CHECKED	Checker
APPROVED	Approver
DATE	13/11/15

ORIGINATOR A.C.I.D.

BIM REF.

TITLE MVC_ 1st FLOOR LAYOUT

SCALE

FIGURE NO. P14035_MEP_MVC_ M203

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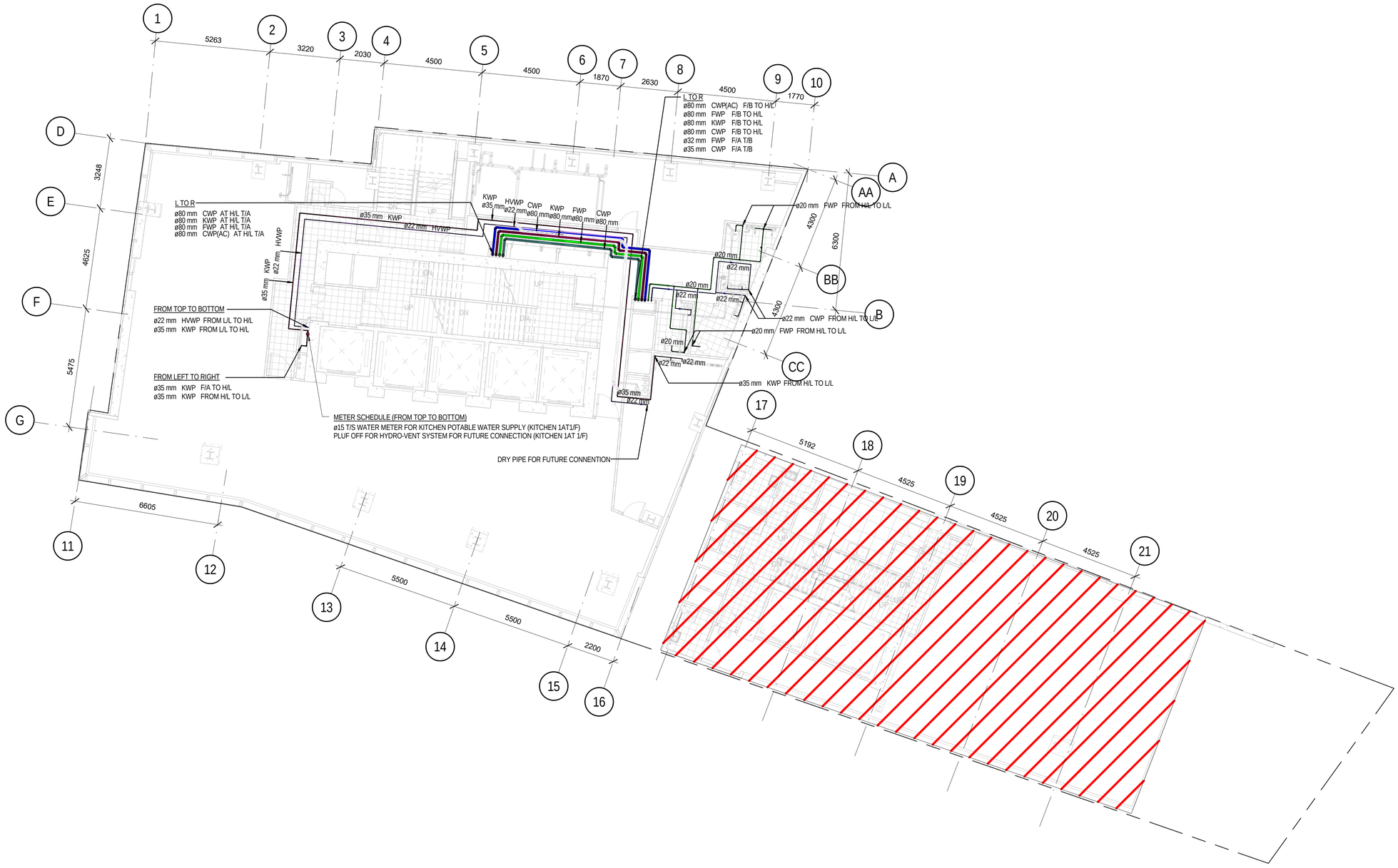

1 1st FLOOR LAYOUT

1 : 100

KEY PLAN

NO.	DESCRIPTION	DATE	BY

DRAWN	Author
DESIGNED	Designer
CHECKED	Checker
APPROVED	Approver
DATE	13/11/15

ADVANCED CONSTRUCTION INFORMATION DEVELOPMENT

[redacted]

ORIGINATOR A.C.I.D.

BIM REF.

TITLE

PL_ 1st FLOOR LAYOUT

SCALE

FIGURE NO. P14035_MEP_PL_ P203

REV.

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1 1st FLOOR LAYOUT

1 : 100

KEY PLAN

NO.	DESCRIPTION	DATE	BY

DRAWN	Author
DESIGNED	Designer
CHECKED	Checker
APPROVED	Approver
DATE	13/11/15

ORIGINATOR A.C.I.D.

BIM REF.

TITLE

TKG_ 1st FLOOR LAYOUT

SCALE

FIGURE NO. P14035_MEP_TKG_ T203

REV.

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