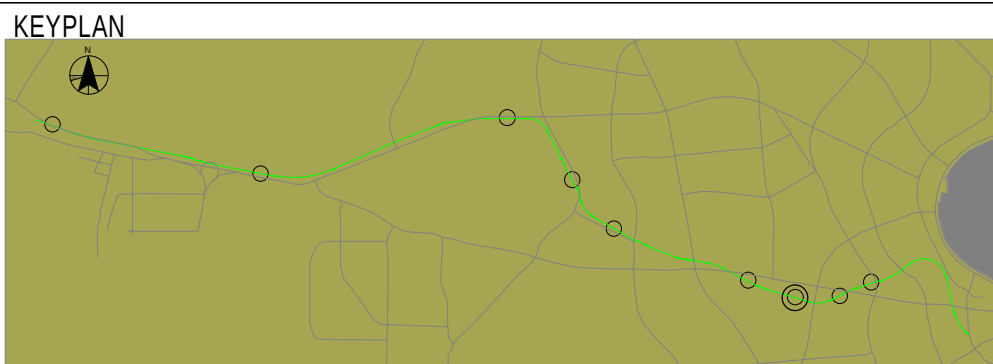
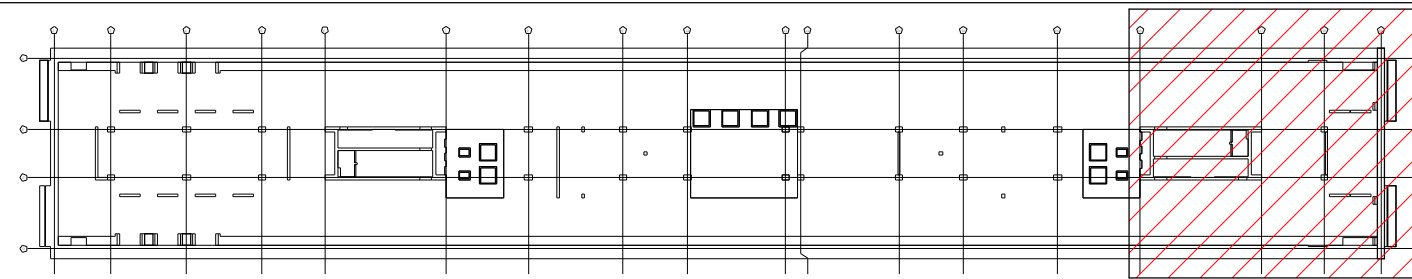




1. All dimensions are in millimeter unless otherwise specified.
2. All dimensions shall be checked on site before ductwork manufacture is commenced.
3. Each piece of ductwork shall be wiped inside and out before installation and all open ends shall be capped and sealed to prevent entrance of dirt during construction.
4. Ductwork shall not touch the building structure or building finishes directly, but shall be isolated with suitable spacer.
5. Ductwork shall be rigidly suspended or supported from building structure.
6. Necessary angle iron shall be provided for bracing of ductwork or equipment, and for supporting ductwork from building structure.
7. When changes or offsets are necessary, the required cross-sectional areas shall be maintained.
8. Support the vertical ducts installed in the various shafts at each floor level with galvanized supporting irons of approved size.
9. All openings required through floors, walls, partitions etc., for the duct system are provide in the exact location required.
10. All flexible connection will be an approved manufacturer, with ratings of fire spread, strength etc., tested by a recognized Testing Authority.
11. Vent pipes shall be installed in accessible locations at all branch connections and wherever necessary to allow the flow of air to secure correct distribution.
12. The control dampers shall be installed as required for the proper functioning of the system.
13. Fire dampers shall be provided in locations required by ordinances and codes and as indicated the contract drawing.
14. All smoke extract ductworks should be fire rated and as per approved material

MO08-ARE-ARC-MD3-GWST050-CL-00101.S4.P7
MO08-ARE-ARC-MD3-GWST050-ZZ-00101.S4.P1
MO08-HLQ-MEP-MD3-GWST050-CL-00101.RVT
MO08-SSF-ARC-MD3-GWST050-CL-00301.S3.P16
MO08-SSF-ARC-MD3-GWST050-ZZ-00101.S3.P19
MO08-SSF-STR-MD3-GWST050-CL-00301.S3.P14
MO08-SSF-STR-MD3-GWST050-ZZ-00101.S3.P24

M008-HLQ-MHV-DWG-GWST050-AA-10021-25
M008-HLQ-MHV-DWG-GWST050-AA-10031-32
M008-HLQ-MHV-DWG-GWST050-AA-10041
M008-HLQ-MHV-DWG-GWST050-AA-10051,53-54
M008-RGP-MHV-DWG-GWST050-AA-10061-63

LEGENDS AND ABBREVIATION	
SYMBOLS	DESCRIPTION
	SAD SUPPLY AIR DUCT
	EAD EXHAUST AIR DUCT
	SED SMOKE EXTRACT FIRE RATED DUCT
	WRD WASTE ROOM EXTRACT AIR DUCT
	BRD BATTERY ROOM EXTRACT AIR DUCT
	SPD STAIR CASE PRESSURISATION
	TED TOLER EXHAUST AIR DUCT
	DUCTS WITH INSULATION
	SUPPLY AIR GRILL
	EXHAUST AIR GRILL
	BELL MOUTH
	VCD VOLUME CONTROL DAMPER
	FD FIRE DAMPERS
	MSFD MOTORIZED SMOKE AND FIRE DAMPER
	SUPPORTS
	BOD BOTTOM OF DUCT
	TYP TYPICAL
	FFL FINISH FLOOR LEVEL
	PL CONCOURSE LEVEL

HVAC DUCTING - SUPPORT SPACING SCHEDULE

S.NO.	HEIGHT	WIDTH	MAXIMUM SUPPORT SPACING	INSULATION DENSITY	SPAN	RECOMMENDED CHANNEL	THREADED ROD SIZE
	MM	MM	M	KG/CU.M.	MM		
1	150	150	3.0	48	350	FUS 212/0	M08
2	200	200	3.0	48	400	FUS 212/0	M08
3	250	250	3.0	48	450	FUS 212/0	M08
4	300	300	3.0	48	500	FUS 212/0	M08
5	350	350	3.0	48	550	FUS 212/0	M08
6	400	400	3.0	48	600	FUS 212/0	M08
7	450	450	2.5	48	650	FUS 212/0	M08
8	500	500	2.5	48	700	FUS 212/0	M08
9	550	550	2.5	48	750	FUS 212/0	M08
10	600	600	2.5	48	800	FUS 212/0	M08
11	650	650	2.5	48	850	FUS 212/0	M08
12	700	700	2.5	48	900	FUS 212/0	M08
13	750	750	2.5	48	950	FUS 212/0	M08
14	800	800	2.5	48	1000	FUS 212/0	M08
15	900	900	2.5	48	1100	FUS 212/0	M08
16	1000	1000	2.5	48	1200	FUS 412/0	M08
17	1200	1200	2.5	48	1400	FUS 412/0	M08
18	1250	1250	2.5	48	1450	FUS 412/0	M08
19	1300	1300	2.5	48	1500	FUS 412/0	M08
20	1400	1400	2.5	48	1600	FUS 412/0	M08
21	1500	1500	2.0	48	1700	FUS 622/5	M10
22	1600	1600	2.0	48	1800	FUS 622/5	M10
23	1800	1800	2.0	48	2000	FUS 622/5	M10
24	1900	1900	2.0	48	2100	FUS 622/5	M10
25	2000	2000	2.0	48	2200	FUS 622/5	M10
26	3000	3000	2.0	48	3200	FUS 62D/2.5	M10

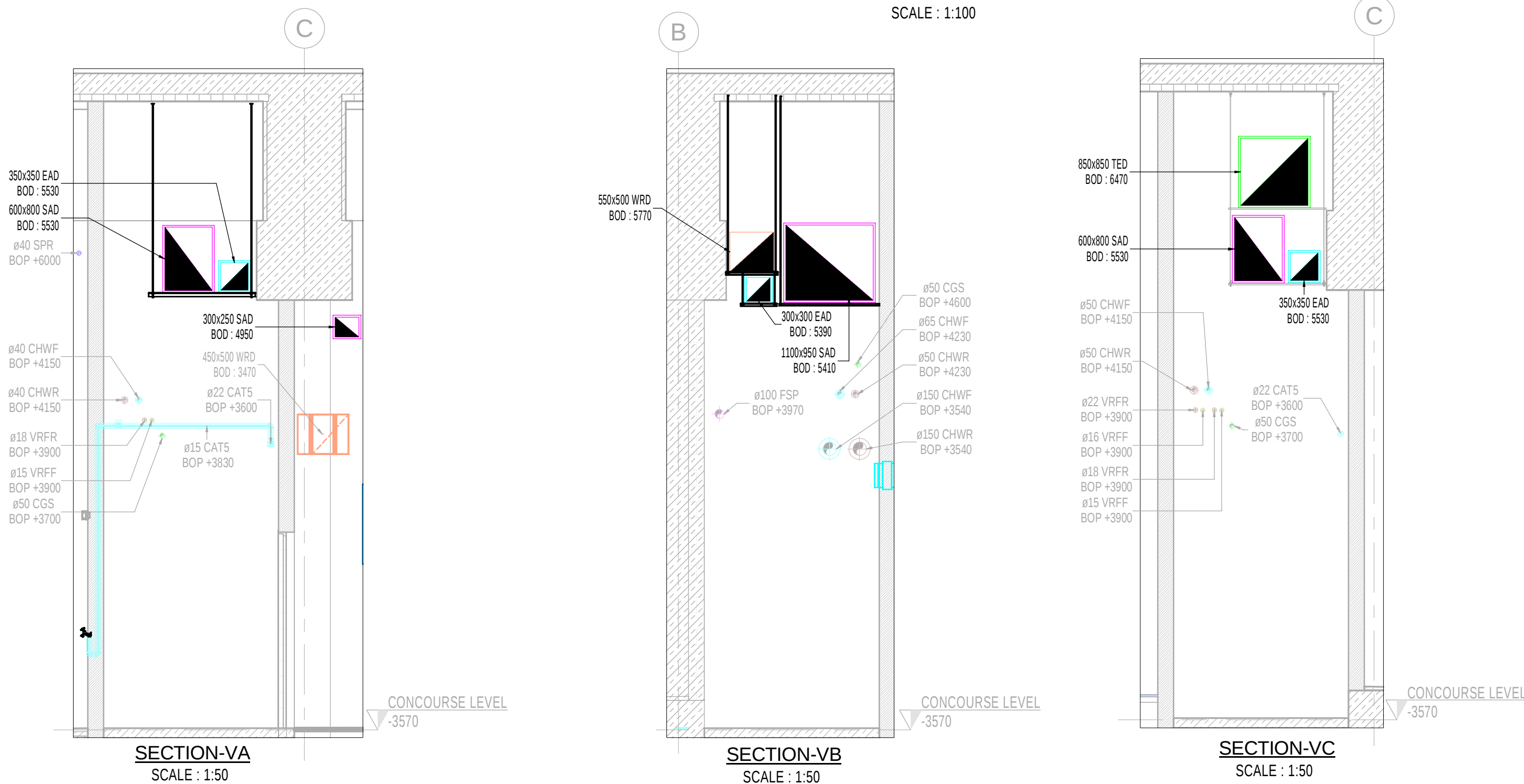
MSFD/FD SCHEDULE

TAG	ROOM REFERENCE	NECK SIZE (N) (mm)	AIR FLOW (L/s)
MSFD-E-S-1	MCR 3/4	100X100	1.79
MSFD-E-EA-1	MCR 3/4	100X100	1.27
MSFD-E-S-2	MEP CORRIDOR 4	400X300	2.18
MSFD-E-S-3	AHU TCP 2	250X250	1.71
MSFD-E-EA-2	AHU TCP 2	250X250	1.87
MSFD-E-A-2	TELECOM POLICE	100X100	1.99
MSFD-E-EA-3	TELECOM POLICE	100X100	2.19
MSFD-E-S-5	TELECOM QAF	100X100	0.80
MSFD-E-EA-4	TELECOM QAF	100X100	0.99
MSFD-E-S-6	TELECOM THIRD PARTIES	100X100	0.80
MSFD-E-EA-5	TELECOM THIRD PARTIES	100X100	0.99
MSFD-E-S-18	MEP CORRIDOR 3	200X200	2.15
MSFD-E-EA-15	MEP CORRIDOR 3	150X150	2.13
FD-E-S-19	TBD	100X100	1.59
FD-E-EA-16	TBD	100X100	1.59

SUPPLY GRILL AND DIFFUSER SCHEDULE

TAG	ROOM REFERENCE	TYPE	NECK SIZE IN (mm)	AIR FLOW (L/s)	QTY
SD-F-06	EMERGENCY EXIT 2	GRILL	800X800	1610	1
SD-E-1	MEP CORRIDOR 2a	BELL MOUTH DIFFUSER	100X100	236	1
SD-E-2	TELIT 2	BELL MOUTH DIFFUSER	200X200	236	1
SD-E-3	ELECTRICAL ROOM-2	BELL MOUTH DIFFUSER	100X100	236	1
SD-E-4	GAS BOTTLE 2	BELL MOUTH DIFFUSER	100X100	236	1
SD-E-5	MEP CORRIDOR 2b	BELL MOUTH DIFFUSER	100X100	236	1
ED-E-1	MEP CORRIDOR 2a	BELL MOUTH DIFFUSER	100X100	236	1
ED-E-2	TELIT 2	BELL MOUTH DIFFUSER	200X200	236	1
ED-E-3	ELECTRICAL ROOM-2	BELL MOUTH DIFFUSER	100X100	236	1
ED-E-4	GAS BOTTLE 2	BELL MOUTH DIFFUSER	100X100	236	1
ED-E-5	MEP CORRIDOR 2b	BELL MOUTH DIFFUSER	100X100	236	1
SED-E-1	MEP CORRIDOR 2b	BELL MOUTH DIFFUSER	100X100	236	1
VCD-E-EA-3	PLENUM-2		800X750	84	1
VCD-E-EA-4	PLENUM-4		800X750	84	1

SCALE : 1:100



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