PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

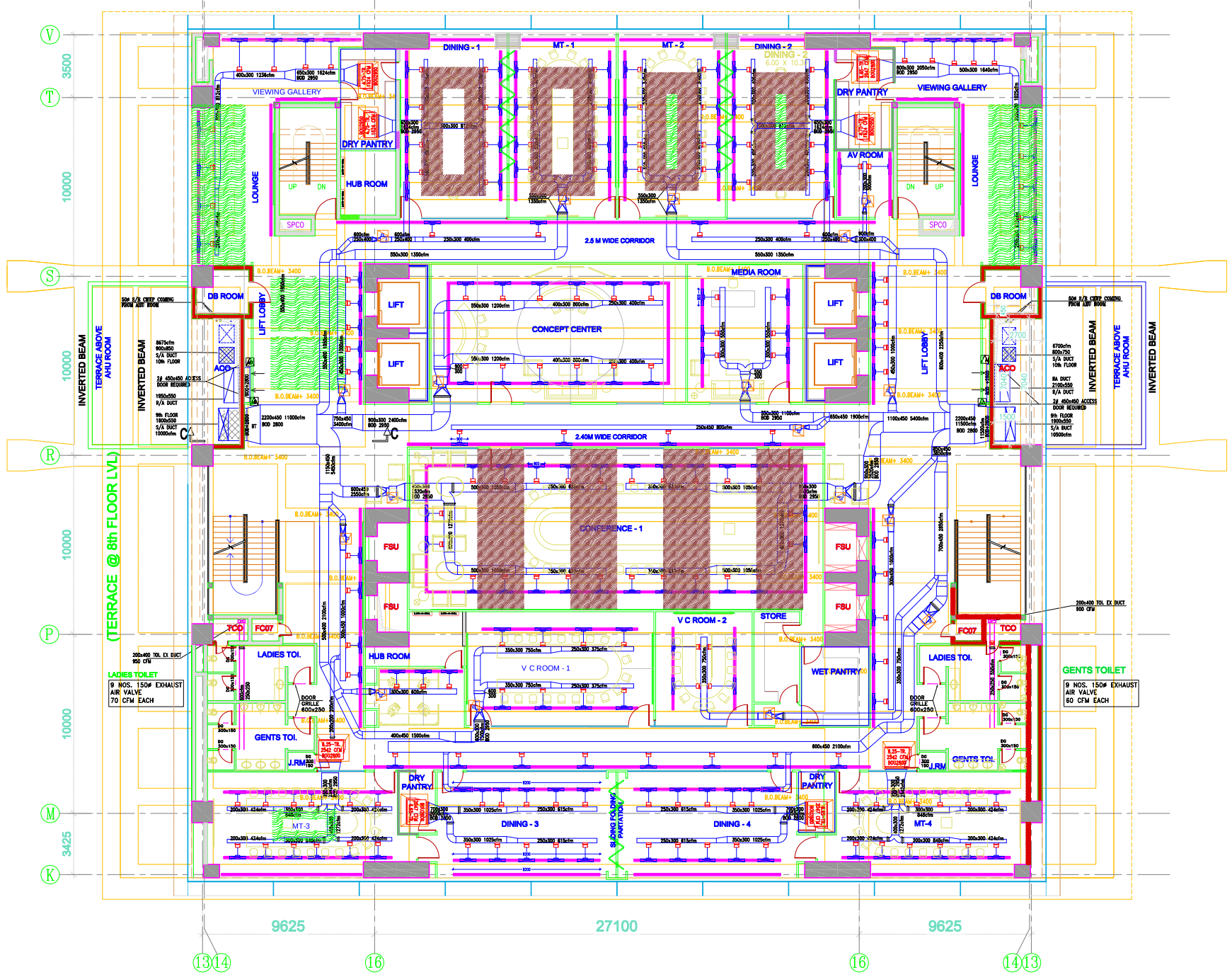
VIEWING GALLERY	VIEWING GALLERY
1 NO. 4.75-TR. 1624 CFM DUCTABLE VRV UNIT INDOOR UNIT SIZE : 1400Wx700Dx300H 1800x1100 ACCESS DOOR 16AMP 1ø POWER SUPPLY REQUIRED AT NEAR INDOOR UNIT. REFRIGERANT PIPE SIZE : ø 15.9mm / ø 9.5mm DRAIN PIPE SIZE : ø25mm OP. WEIGHT : 170Kg. REFRIGERANT PIPE TO & FROM OUTDOOR UNIT AT TERRACE	8 NOS. 900x150x350(H) S.A.PLENUM 203 CFM EACH 250ø FLEXIBLE DUCT CONNECTION 150mm WIDE S/R AIR 3-SLOT DIFFUSER

DINING - 1	DINING - 1
1 NO. 4.75-TR. 1624 CFM DUCTABLE VRV UNIT INDOOR UNIT SIZE : 1400Wx700Dx300H 1800x1100 ACCESS DOOR 16AMP 1ø POWER SUPPLY REQUIRED AT NEAR INDOOR UNIT. REFRIGERANT PIPE SIZE : ø 15.9mm / ø 9.5mm DRAIN PIPE SIZE : ø25mm OP. WEIGHT : 170Kg. REFRIGERANT PIPE TO & FROM OUTDOOR UNIT AT TERRACE	8 NOS. 900x150x350(H) S.A.PLENUM 203 CFM EACH 250ø FLEXIBLE DUCT CONNECTION 150mm WIDE S/R AIR 3-SLOT DIFFUSER

MT - 1 & 2
16 NOS. 750x150x350(H) S.A.PLENUM 170 CFM EACH 250ø FLEXIBLE DUCT CONNECTION 150mm WIDE S/R AIR 3-SLOT DIFFUSER

DINING - 2	DINING - 2
1 NO. 4.75-TR. 1624 CFM DUCTABLE VRV UNIT INDOOR UNIT SIZE : 1400Wx700Dx300H 1800x1100 ACCESS DOOR 16AMP 1ø POWER SUPPLY REQUIRED AT NEAR INDOOR UNIT. REFRIGERANT PIPE SIZE : ø 15.9mm / ø 9.5mm DRAIN PIPE SIZE : ø25mm OP. WEIGHT : 170Kg. REFRIGERANT PIPE TO & FROM OUTDOOR UNIT AT TERRACE	8 NOS. 900x150x350(H) S.A.PLENUM 203 CFM EACH 250ø FLEXIBLE DUCT CONNECTION 150mm WIDE S/R AIR 3-SLOT DIFFUSER

VIEWING GALLERY	VIEWING GALLERY
1 NO. 6.6-TR. 2047 CFM DUCTABLE VRV UNIT INDOOR UNIT SIZE : 1380Wx1100Dx470H 1800x1500 ACCESS DOOR 16AMP 1ø POWER SUPPLY REQUIRED AT NEAR INDOOR UNIT. REFRIGERANT PIPE SIZE : ø 19.1mm / ø 9.5mm DRAIN PIPE SIZE : ø25mm OP. WEIGHT : 170Kg. REFRIGERANT PIPE TO & FROM OUTDOOR UNIT AT TERRACE	10 NOS. 900x150x350(H) S.A.PLENUM 203 CFM EACH 250ø FLEXIBLE DUCT CONNECTION 150mm WIDE S/R AIR 3-SLOT DIFFUSER



MT - 3	MT - 3
1 NO. 6.2-TR. 2542 CFM DUCTABLE VRV UNIT INDOOR UNIT SIZE : 1380Wx1100Dx470H 1800x1500 ACCESS DOOR 16AMP 1ø POWER SUPPLY REQUIRED AT NEAR INDOOR UNIT. REFRIGERANT PIPE SIZE : ø 22.2mm / ø 9.5mm DRAIN PIPE SIZE : ø25mm OP. WEIGHT : 170Kg. REFRIGERANT PIPE TO & FROM OUTDOOR UNIT AT TERRACE	12 NOS. 900x150x350(H) S.A.PLENUM 212 CFM EACH 250ø FLEXIBLE DUCT CONNECTION 150mm WIDE S/R AIR 3-SLOT DIFFUSER
VC ROOM - 1	
8 NOS. 900x150x350(H) S.A.PLENUM 168 CFM EACH 250ø FLEXIBLE DUCT CONNECTION 150mm WIDE S/R AIR 3-SLOT DIFFUSER	

DINING - 3	DINING - 3
1 NO. 6.6-TR. 2047 CFM DUCTABLE VRV UNIT INDOOR UNIT SIZE : 1380Wx1100Dx470H 1800x1500 ACCESS DOOR 16AMP 1ø POWER SUPPLY REQUIRED AT NEAR INDOOR UNIT. REFRIGERANT PIPE SIZE : ø 19.1mm / ø 9.5mm DRAIN PIPE SIZE : ø25mm OP. WEIGHT : 170Kg. REFRIGERANT PIPE TO & FROM OUTDOOR UNIT AT TERRACE	10 NOS. 900x150x350(H) S.A.PLENUM 205 CFM EACH 250ø FLEXIBLE DUCT CONNECTION 150mm WIDE S/R AIR 3-SLOT DIFFUSER
VC ROOM - 2	
4 NOS. 900x150x350(H) S.A.PLENUM 168 CFM EACH 250ø FLEXIBLE DUCT CONNECTION 150mm WIDE S/R AIR 3-SLOT DIFFUSER	

DINING - 4	DINING - 4
1 NO. 6.6-TR. 2047 CFM DUCTABLE VRV UNIT INDOOR UNIT SIZE : 1380Wx1100Dx470H 1800x1500 ACCESS DOOR 16AMP 1ø POWER SUPPLY REQUIRED AT NEAR INDOOR UNIT. REFRIGERANT PIPE SIZE : ø 19.1mm / ø 9.5mm DRAIN PIPE SIZE : ø25mm OP. WEIGHT : 170Kg. REFRIGERANT PIPE TO & FROM OUTDOOR UNIT AT TERRACE	10 NOS. 900x150x350(H) S.A.PLENUM 205 CFM EACH 250ø FLEXIBLE DUCT CONNECTION 150mm WIDE S/R AIR 3-SLOT DIFFUSER

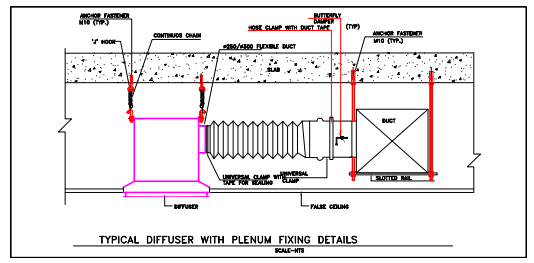
MT - 4	MT - 4
1 NO. 6.2-TR. 2542 CFM DUCTABLE VRV UNIT INDOOR UNIT SIZE : 1380Wx1100Dx470H 1800x1500 ACCESS DOOR 16AMP 1ø POWER SUPPLY REQUIRED AT NEAR INDOOR UNIT. REFRIGERANT PIPE SIZE : ø 22.2mm / ø 9.5mm DRAIN PIPE SIZE : ø25mm OP. WEIGHT : 170Kg. REFRIGERANT PIPE TO & FROM OUTDOOR UNIT AT TERRACE	12 NOS. 900x150x350(H) S.A.PLENUM 212 CFM EACH 250ø FLEXIBLE DUCT CONNECTION 150mm WIDE S/R AIR 3-SLOT DIFFUSER

LEGEND

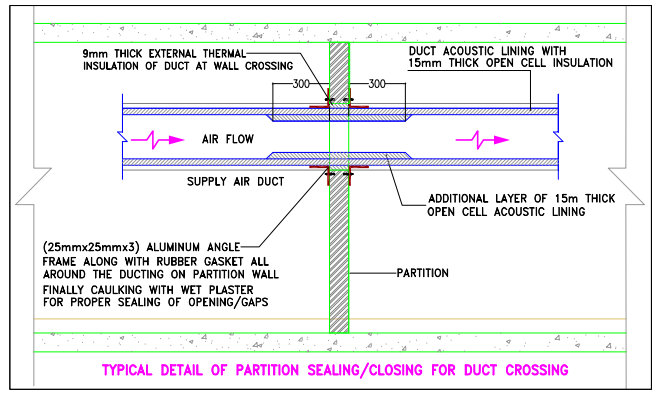
	FIRE DAMPER		SPIGOT WITH BUTTER FLY DAMPER DIA-250mm
	VOLUME CONTROL DAMPER		FLEXIBLE DUCT
	BOTTOM OF THERMOSTAT = +1500mm FROM FFL		DUCT ACOUSTIC LINING WITH OPEN CELL ELASTOMERIC INSULATION OF 15mm THICK, 55Kg/CUBIC METER DENSITY.
	SUPPLY AIR DIFFUSER 300x300 NECK SIZE 600x600mm OUTER TO OUTER		SUPPLY AIR DIFFUSER WITH PLENUM BOX 375x375/450x450 NECK SIZE 600x600mm OUTER TO OUTER
	600x600mm OUTER TO OUTER RETURN AIR DIFFUSER		EXTERNAL THERMAL INSULATION OF DUCT WITH CLOSED CELL ELASTOMERIC INSULATION OF 9mm THICK, 55Kg/CUBIC METER DENSITY.
	VARIABLE AIR VOLUME BOX		
	TOILET EXHAUST AIR VALVES #150mm NECK SIZE #250mm OUTER SIZE		5A UPS SINGLE PHASE POWER POINT FOR VAV
	RETURN AIR GRILLE		SPEECH PRIVACY DUCT (400x200)

GENERAL NOTES FOR DRAWINGS

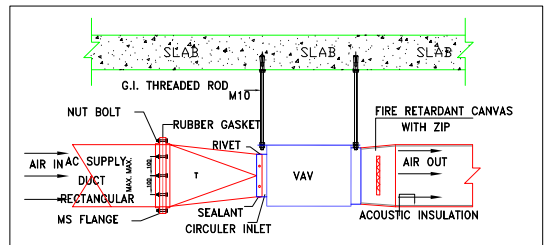
1. 150mm high Bund wall required in front of the AHU room door.
2. AHU door should open outwards only.
3. Floor drain is required in AHU room.
4. All floor AHU rooms to have shaft access door.
5. Drain point of all strainers to be connected to a floor drain through a ball valve.
6. Runner to be provided above false ceiling to support bottom throw grills.
7. False ceiling channels to be painted Dull Black above bottom throw grills.
8. Exposed faces of Return air ducts inside AHU room to be painted same as the AHU Color.
9. Air tight Wall sealing to be done around the ducts in the AHU room before the start of false ceiling.
10. Supply air and return air grille length to be shown in the drawing.
11. Power points for all VAV Boxes,CSTs, FCUs and duct inline fans to be provided above false ceiling and control to be provided below false ceiling.
12. AHU outlet mouth to be provided with a matching flange by the AHU manufacturer.
13. All return air duct made frame to be internally braced.
14. Supply air and Return air ducts to be provided with Thermal insulation at points of wall crossing.
15. Toilet main doors and internal doors to be provided with louvers or make up air.
16. Flexible ducts to be hung stretched and not to be left sagging.
17. Collar dampers on continuous supply air grills to be fixed to the grille by means of clips and supply duct to be screwed to the collar damper.
18. Floor drains to be provided in all chilled water and condenser water shafts.
19. Access door to be provided in all plenum.
20. All side throw grills should have stream splitter damper.
21. All the duct elbows above 450mm should have guiding vanes.
22. VCD and ducting angle frame bolt to bolt Interval to be 100mm.
23. All VAV boxes are located above the accessible grid ceiling .However if any change is done in ceiling pattern it may affect the VAV access.
24. All VAV connection peace factory fabricated only.



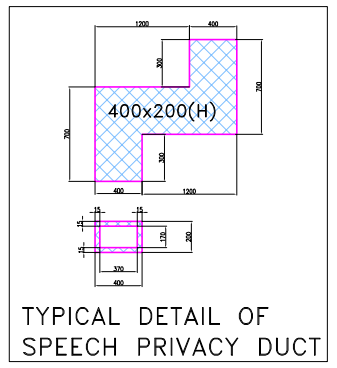
TYPICAL DIFFUSER WITH PLENUM FIXING DETAILS



TYPICAL DETAIL OF PARTITION SEALING/CLOSING FOR DUCT CROSSING



DETAIL OF VAV INLET CONNECTION
SCALE NTS



TYPICAL DETAIL OF SPEECH PRIVACY DUCT

S.NO.	DATE	DESCRIPTION

CLIENT:
INFOSYS LTD.

PROJECT:-
PROPOSED INTIRIOR OF CHENNAI CAMPUS- II SDB 7&8, CCC BLOCK

TITLE:
CHENNAI CAMPUS-II (CCC BLOCK)
NINTH FLOOR
AC DUCTING LAYOUT

ARCHITECT:
SHUBHAM ARCHITECTS PVT. LTD.
156, 157, Ramadev Garden (Opp. Freedom Foundation), 1st Stage, 1st Block, BDA Layout, Bangalore-560 043.
TEL NO. +91 80 6570 2879.
Email : mahesh@shubhamarch.com, office@shubhamarch.com.
Website : www.shubhamarch.com

HVAC & BMS CONSULTANTS:
ARCO
Environment Enhancers
DESIGN OF HVAC SYSTEMS, ENERGY STUDIES, BUILDING MANAGEMENT SYSTEMS
202 , 20th Main Road , 20th Cross , 4th "T" Block,
Jayanagar BANGALORE - 560041
PH 080-26632047, 080-42495947
E-MAIL:- arcodesign@vsnl.com, arcoindia@airtelmail.in

HVAC CONTRACTOR:
AIRCON ENGINEERS PVT. LTD.
T-220/J, SECOND FLOOR, SAVITRI NAGAR,
MAIN ROAD, NEW DELHI - 110027.
TEL. / FAX: 40705527, 40705520
E-MAIL:- amkds@vsnl.net, aircon_eng@rediffmail.com

DATE	12-05-11	DRAWN	PSK	DRAWING NUMBER
SCALE	1:150	CHECKED	GSC	CCC/9th/AC/01

HVAC DESIGN & CONTRACTOR :-

METRO AIRCONN
TOTAL AIR-CONDITIONING SOLUTIONS

METRO AIRCONN
19,SAMBANTHANAM STREET
MANDAVELI,CHENNAI-28
E-MAIL:- design@metroairconn.com

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PDF created with pdfFactory trial version www.pdffactory.com