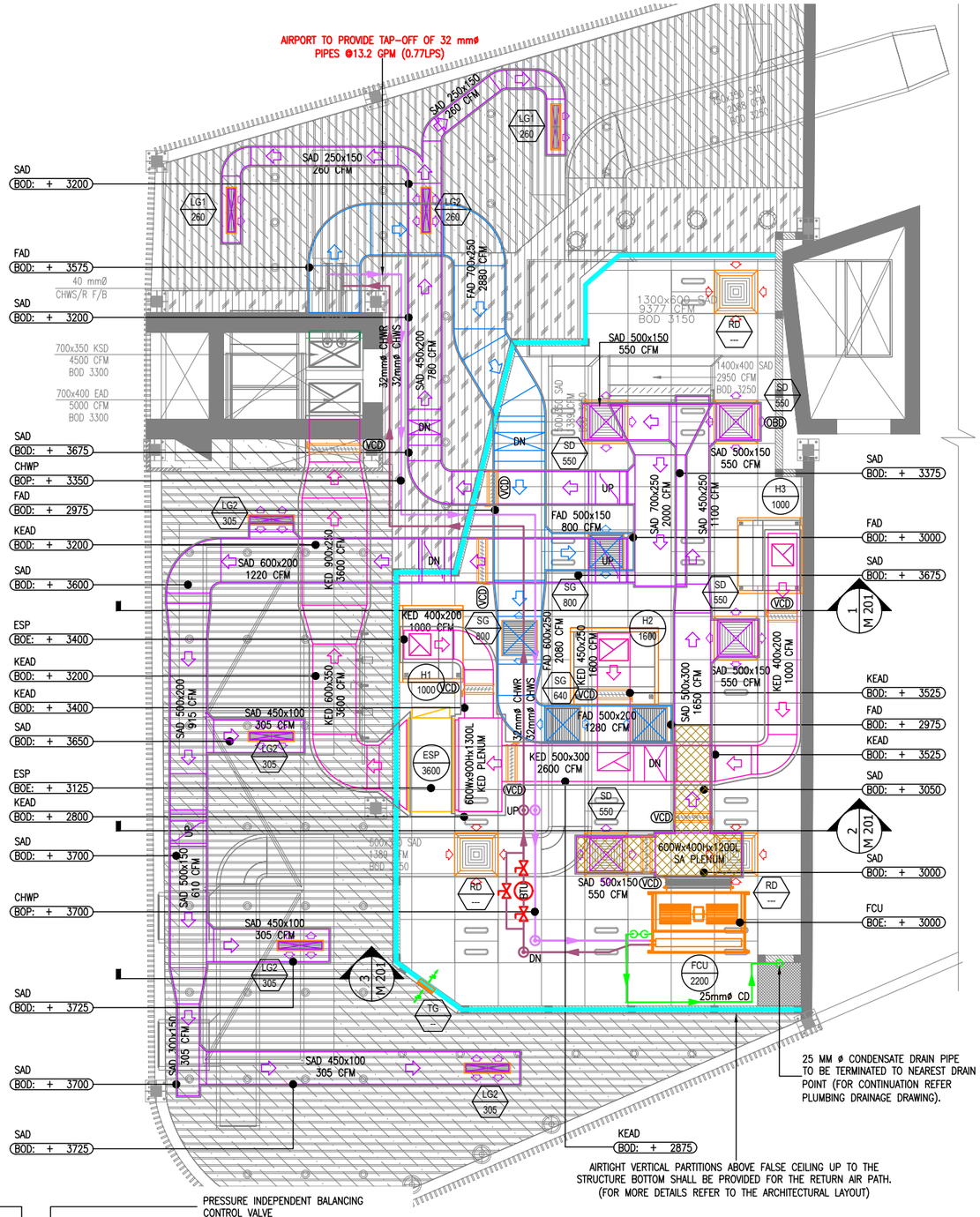
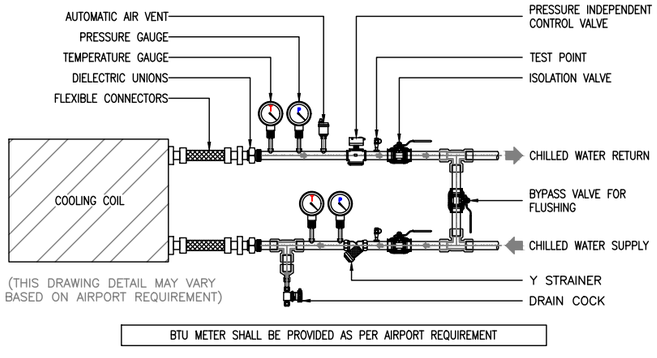
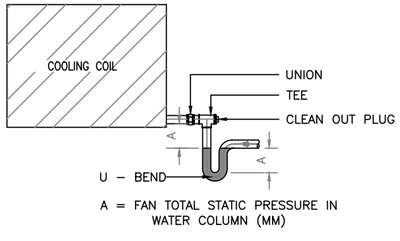


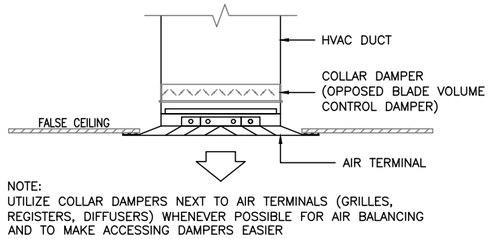
01 M101 HVAC LAYOUT ON RCP
1:75



02 M101 VALVE CONNECTION
NTS



03 M101 DRAIN CONNECTION
NTS



NOTE:
UTILIZE COLLAR DAMPERS NEXT TO AIR TERMINALS (GRILLES, REGISTERS, DIFFUSERS) WHENEVER POSSIBLE FOR AIR BALANCING AND TO MAKE ACCESSING DAMPERS EASIER

04 M101 DAMPER FIXING DETAILS
NTS

HVAC NOTES:

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- TECHNICAL DATA SHEET FOR MS PIPE, INSULATION, VALVES, TEMPERATURE & PRESSURE GAUGE, PICV, GRILLES, DIFFUSERS, DAMPERS etc. NEEDS TO BE FACILITATED AND GET APPROVED BY AIRPORT AUTHORITY PRIOR TO THE INSTALLATION.
- RETURN AIR PATH FROM RETURN DIFFUSER/GRILLE TO FCU IS ABOVE THE CEILING VOID. VERTICAL PARTITION ABOVE FALSE CEILING SHALL BE PROVIDED FOR RETURN PATH.
- CHILLED WATER PIPE LINES TO BE CONNECTED WITH AIRPORT SPECIFIED BTU METER.
- CONDENSATE DRAIN PIPING SHALL BE COMPLYING WITH IS 4985 CLASS 3 PVC PIPE. SOLVENT CEMENT COMPLYING WITH ASTM D2564 SHALL BE USED FOR JOINTS.
- THE PRESSURE GAUGE SHOULD BE GLYCERINE–FILLED.
- ALL AIR TERMINALS SHOULD BE CONNECTED TO THE SUPPLY/EXTRACT AIR DUCTS THROUGH AN OPPOSED BLADE DAMPER (OBD).
- All HVAC SERVICE ELEVATIONS MARKED IN THE DRAWINGS ARE FROM 0.00 LVL.

HVAC DUCTING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FAN COIL UNIT – HIGH STATIC		ACOUSTIC INSULATION 15mm THICK
	ELECTROSTATIC PRECIPITATOR		SUPPLY AIR SQUARE DIFFUSER
	KITCHEN HOOD		RETURN AIR SQUARE DIFFUSER
	SUPPLY AIR DUCT WITH 19mm THICK THERMAL INSULATION		SUPPLY AIR LINEAR GRILLE
	FRESH AIR DUCT WITH 19mm THICK THERMAL INSULATION		FRESH AIR SQUARE GRILLE
	EXHAUST AIR DUCT WITH 50mm THICK. FIRE BOARD INSULATION		VOLUME CONTROL DAMPER
	EXISTING AIR DUCTS		BUTTERFLY DAMPER

HVAC ABBREVIATIONS

FCU	FAN COIL UNIT – HIGH STATIC	RD	RETURN SQUARE DIFFUSER
ESP	ELECTROSTATIC PRECIPITATOR	LG	LINEAR GRILLE – SUPPLY
H	KITCHEN HOOD	SG	SQUARE GRILLE – FRESH AIR
SAD	SUPPLY AIR DUCT	VCD	VOLUME CONTROL DAMPER
FAD	FRESH AIR DUCT	CHWS	CHILLED WATER SUPPLY LINE
KED	KITCHEN EXHAUST AIR DUCT	CHWR	CHILLED WATER RETURN LINE
SD	SUPPLY SQUARE DIFFUSER	CD	CONDENSATE DRAIN LINE

FCU — EQUIPMENT TYPE
XX — CFM AS INDICATED

AT — TERMINAL TYPE
XX — CFM AS INDICATED

HVAC EQUIPMENT SCHEDULE

TAG	EQUIPMENT TYPE	COOLING CAPACITY (TR)	AIR FLOW (CFM)	WATER FLOW (GPM)
FCU	FAN COIL UNIT – HIGH STATIC	5.5	2200	13.2
ESP	ELECTROSTATIC PRECIPITATOR	--	3600	--

NOTE:
AIRPORT TO PROVIDE CHILLED WATER SUPPLY OF 13.2 GPM (0.77 LPS) WITH 32mm PIPE SIZE TO LOCATION AS INDICATED IN THE DRAWING.
(ASSUMED CHILLED WATER SUPPLY TEMPERATURE 6°C, & CHILL WATER RETURN TEMPERATURE 12°C)

AIR TERMINAL SCHEDULE – DIFFUSERS/GRILLE

TAG	SERVICE	NECK SIZE (mm)	PATTERN	MATERIAL	REMARKS
LG1	SUPPLY AIR	600x100	1 WAY	ALUMINIUM	LINEAR AIR GRILLE
LG2	SUPPLY AIR	600x100	2 WAY	ALUMINIUM	LINEAR AIR GRILLE
SD	SUPPLY AIR	450x450	4 WAY	ALUMINIUM	SQUARE CEILING DIFFUSER
RD	RETURN AIR	450x450	4 WAY	ALUMINIUM	SQUARE CEILING DIFFUSER
SG	MAKEUP AIR	550x550	2 WAY	ALUMINIUM	SQUARE GRILLE
TG	TRANSFER AIR	250x250	1 WAY	ALUMINIUM	LINEAR AIR GRILLE

NOTE:
ALL AIR TERMINALS COLOUR & FINISH IS TO BE ADVISED BY ARCHITECT.

ALL DIMENSIONS MUST BE CHECKED ON SITE.
INFORM THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

NOTES:
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HVAC PIPING LEGEND

SYMBOL	DESCRIPTION
CHWS	CHILLED WATER SUPPLY LINE
CHWR	CHILLED WATER RETURN LINE
CD	CONDENSATE DRAIN WATER LINE
	ELBOW DOWN
	ELBOW UP
	TOP CONNECTION
	BOTTOM CONNECTION
	REDUCER

REV	DATE	DESCRIPTION	DSN	CHK
C01	10.05.24	GOOD FOR CONSTRUCTION	SF	RR
C00	02.05.24	GOOD FOR CONSTRUCTION	SF	RR

Travel Food Services

muffin group

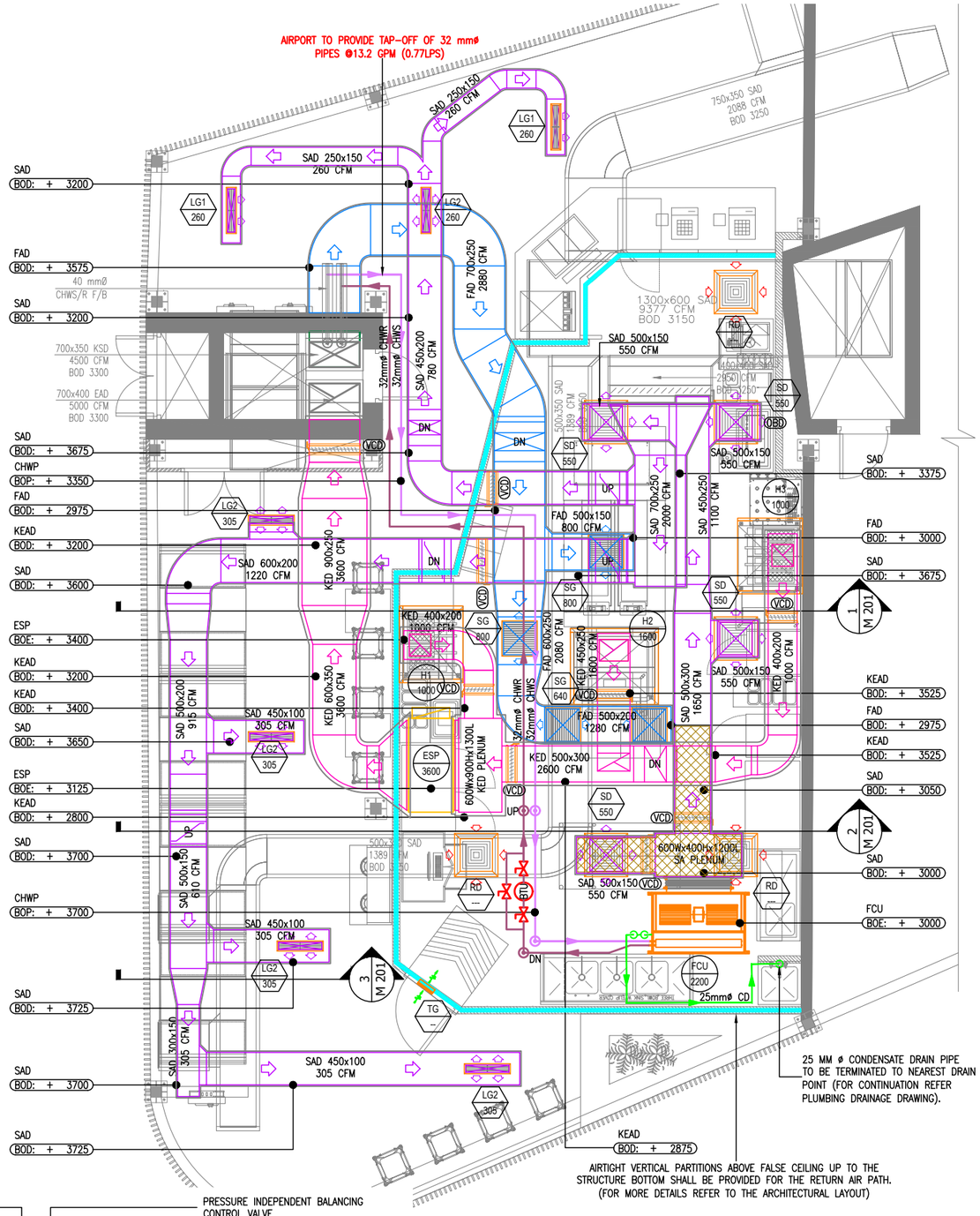
PROJECT
CARLSJR FF018
GMR INTERNATIONAL AIRPORT LIMITED, HYDERABAD

DRAWING TITLE
HVAC LAYOUT ON RCP

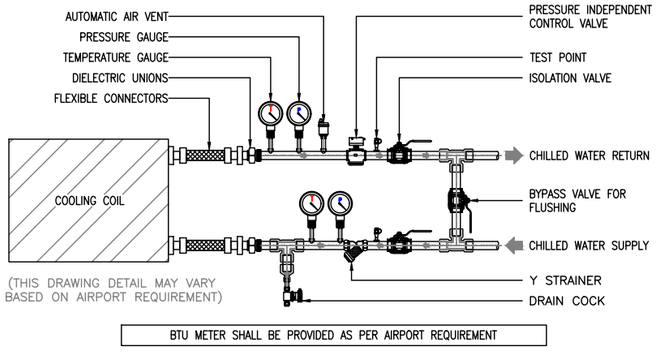
SCALE 1:75 | DATE 10.05.24 | DESIGN SF | A3 SHEET

STATUS
GOOD FOR CONSTRUCTION

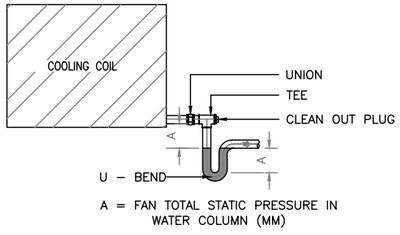
ORG	PROJECT NO	DRAWING TYPE	NUMBER	REV
TFS	XXX	HVAC	M101	C01



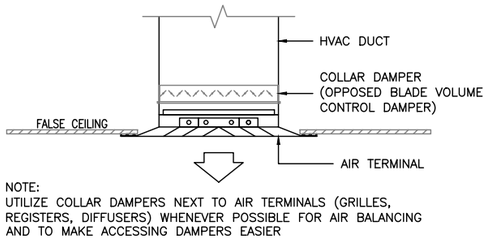
01 M102 HVAC LAYOUT ON PLAN
1:75



02 M102 VALVE CONNECTION
NTS



03 M102 DRAIN CONNECTION
NTS



NOTE:
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04 M102 DAMPER FIXING DETAILS
NTS

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- All HVAC SERVICE ELEVATIONS MARKED IN THE DRAWINGS ARE FROM 0.00 LVL.

HVAC DUCTING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FAN COIL UNIT – HIGH STATIC		ACOUSTIC INSULATION 15mm THICK
	ELECTROSTATIC PRECIPITATOR		SUPPLY AIR SQUARE DIFFUSER
	KITCHEN HOOD		RETURN AIR SQUARE DIFFUSER
	SUPPLY AIR DUCT WITH 19mm THICK THERMAL INSULATION		SUPPLY AIR LINEAR GRILLE
	FRESH AIR DUCT WITH 19mm THICK THERMAL INSULATION		FRESH AIR SQUARE GRILLE
	EXHAUST AIR DUCT WITH 50mm THICK. FIRE BOARD INSULATION		VOLUME CONTROL DAMPER
	EXISTING AIR DUCTS		BUTTERFLY DAMPER

HVAC ABBREVIATIONS

FCU	FAN COIL UNIT – HIGH STATIC	RD	RETURN SQUARE DIFFUSER
ESP	ELECTROSTATIC PRECIPITATOR	LG	LINEAR GRILLE – SUPPLY
H	KITCHEN HOOD	SG	SQUARE GRILLE – FRESH AIR
SAD	SUPPLY AIR DUCT	VCD	VOLUME CONTROL DAMPER
FAD	FRESH AIR DUCT	CHWS	CHILLED WATER SUPPLY LINE
KED	KITCHEN EXHAUST AIR DUCT	CHWR	CHILLED WATER RETURN LINE
SD	SUPPLY SQUARE DIFFUSER	CD	CONDENSATE DRAIN LINE

FCU — EQUIPMENT TYPE
XX — CFM AS INDICATED

AT — TERMINAL TYPE
XX — CFM AS INDICATED

HVAC EQUIPMENT SCHEDULE

TAG	EQUIPMENT TYPE	COOLING CAPACITY (TR)	AIR FLOW (CFM)	WATER FLOW (GPM)
FCU	FAN COIL UNIT – HIGH STATIC	5.5	2200	13.2
ESP	ELECTROSTATIC PRECIPITATOR	--	3600	--

NOTE:
AIRPORT TO PROVIDE CHILLED WATER SUPPLY OF 13.2 GPM (0.77 LPS) WITH 32mm PIPE SIZE TO LOCATION AS INDICATED IN THE DRAWING.
(ASSUMED CHILLED WATER SUPPLY TEMPERATURE 6°C, & CHILL WATER RETURN TEMPERATURE 12°C)

AIR TERMINAL SCHEDULE – DIFFUSERS/GRILLE

TAG	SERVICE	NECK SIZE (mm)	PATTERN	MATERIAL	REMARKS
LG1	SUPPLY AIR	600x100	1 WAY	ALUMINIUM	LINEAR AIR GRILLE
LG2	SUPPLY AIR	600x100	2 WAY	ALUMINIUM	LINEAR AIR GRILLE
SD	SUPPLY AIR	450x450	4 WAY	ALUMINIUM	SQUARE CEILING DIFFUSER
RD	RETURN AIR	450x450	4 WAY	ALUMINIUM	SQUARE CEILING DIFFUSER
SG	MAKEUP AIR	550x550	2 WAY	ALUMINIUM	SQUARE GRILLE
TG	TRANSFER AIR	250x250	1 WAY	ALUMINIUM	LINEAR AIR GRILLE

NOTE:
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HVAC PIPING LEGEND

SYMBOL	DESCRIPTION
CHWS	CHILLED WATER SUPPLY LINE
CHWR	CHILLED WATER RETURN LINE
CD	CONDENSATE DRAIN WATER LINE
	ELBOW DOWN
	ELBOW UP
	TOP CONNECTION
	BOTTOM CONNECTION
	REDUCER

REV	DATE	DESCRIPTION	DSN	CHK
C01	10.05.24	GOOD FOR CONSTRUCTION	SF	RR
C00	02.05.24	GOOD FOR CONSTRUCTION	SF	RR

Travel Food Services

muffin group

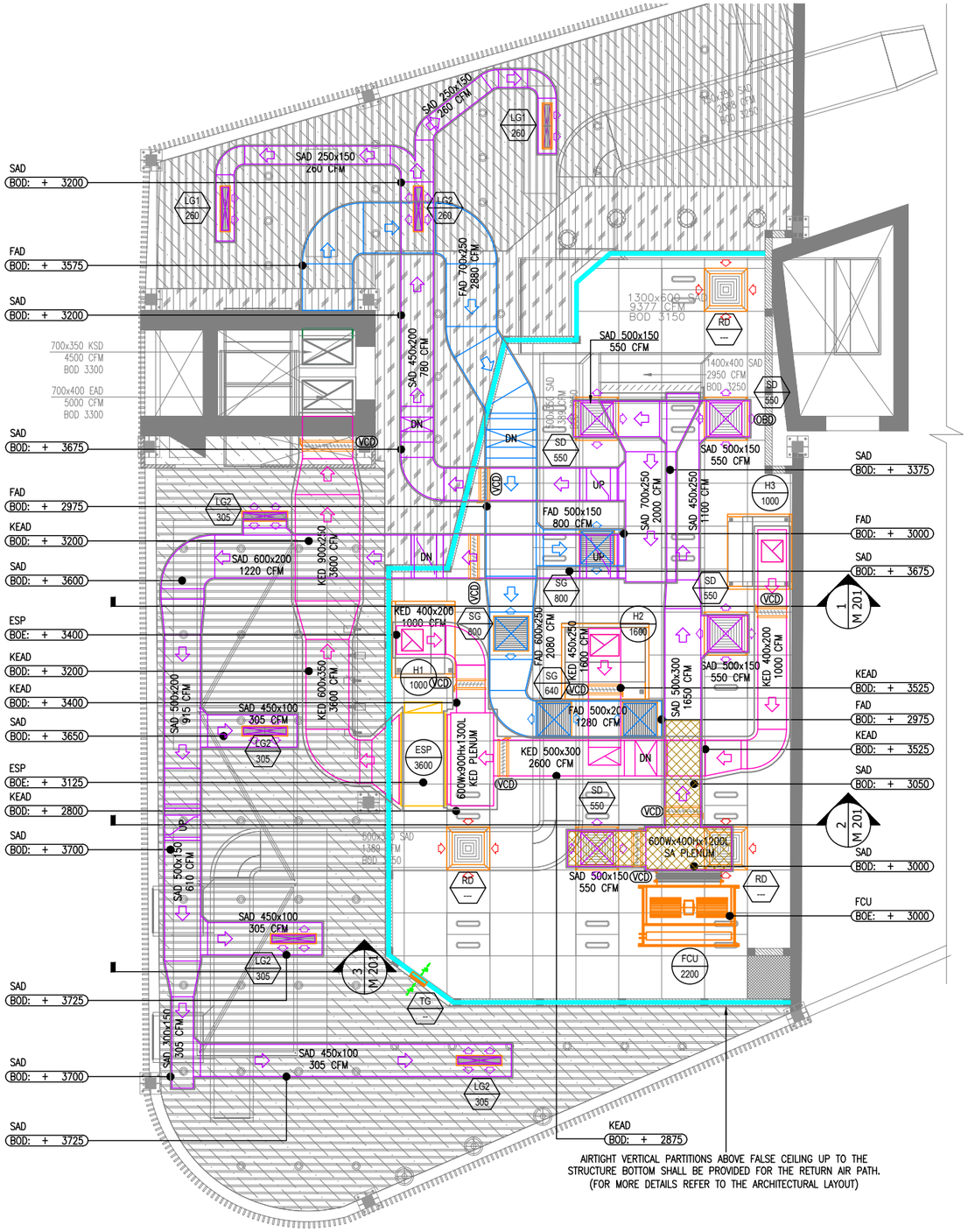
PROJECT
CARLSJR FF018
GMR INTERNATIONAL AIRPORT LIMITED, HYDERABAD

DRAWING TITLE
HVAC LAYOUT ON PLAN

SCALE	DATE	DESIGN	SIZE
1:75	10.05.24	SF	A3 SHEET

STATUS
GOOD FOR CONSTRUCTION

ORG	PROJECT NO	DRAWING TYPE	NUMBER	REV
TFS	XXX	HVAC	M102	C01



01 M103 HVAC DUCTING LAYOUT ON RCP
1:75

HVAC NOTES:

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HVAC DUCTING LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	FAN COIL UNIT – HIGH STATIC		ACOUSTIC INSULATION 15mm THICK
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	EXHAUST AIR DUCT WITH 50mm THICK. FIRE BOARD INSULATION		VOLUME CONTROL DAMPER
	EXISTING AIR DUCTS		BUTTERFLY DAMPER

HVAC ABBREVIATIONS

FCU	FAN COIL UNIT – HIGH STATIC	RD	RETURN SQUARE DIFFUSER
ESP	ELECTROSTATIC PRECIPITATOR	LG	LINEAR GRILLE – SUPPLY
H	KITCHEN HOOD	SG	SQUARE GRILLE – FRESH AIR
SAD	SUPPLY AIR DUCT	VCD	VOLUME CONTROL DAMPER
FAD	FRESH AIR DUCT	CHWS	CHILLED WATER SUPPLY LINE
KED	KITCHEN EXHAUST AIR DUCT	CHWR	CHILLED WATER RETURN LINE
SD	SUPPLY SQUARE DIFFUSER	CD	CONDENSATE DRAIN LINE

FCU — EQUIPMENT TYPE
XX — CFM AS INDICATED

AT — TERMINAL TYPE
XX — CFM AS INDICATED

HVAC EQUIPMENT SCHEDULE

TAG	EQUIPMENT TYPE	COOLING CAPACITY (TR)	AIR FLOW (CFM)	WATER FLOW (GPM)
FCU	FAN COIL UNIT – HIGH STATIC	5.5	2200	13.2
ESP	ELECTROSTATIC PRECIPITATOR	--	3600	--

NOTE:
AIRPORT TO PROVIDE CHILLED WATER SUPPLY OF 13.2 GPM (0.77 LPS) WITH 32mm PIPE SIZE TO LOCATION AS INDICATED IN THE DRAWING.
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AIR TERMINAL SCHEDULE – DIFFUSERS/GRILLE

TAG	SERVICE	NECK SIZE (mm)	PATTERN	MATERIAL	REMARKS
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SD	SUPPLY AIR	450x450	4 WAY	ALUMINIUM	SQUARE CEILING DIFFUSER
RD	RETURN AIR	450x450	4 WAY	ALUMINIUM	SQUARE CEILING DIFFUSER
SG	MAKEUP AIR	550x550	2 WAY	ALUMINIUM	SQUARE GRILLE
TG	TRANSFER AIR	250x250	1 WAY	ALUMINIUM	LINEAR AIR GRILLE

NOTE:
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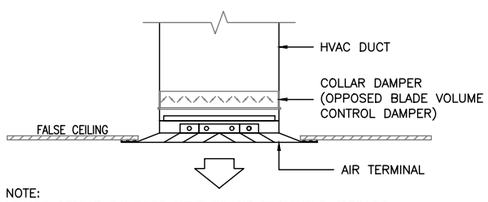

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02 M103 DAMPER FIXING DETAILS
NTS

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REV	DATE	DESCRIPTION	DSN	CHK
C01	10.05.24	GOOD FOR CONSTRUCTION	SF	RR
C00	02.05.24	GOOD FOR CONSTRUCTION	SF	RR

Travel Food Services

muffin group

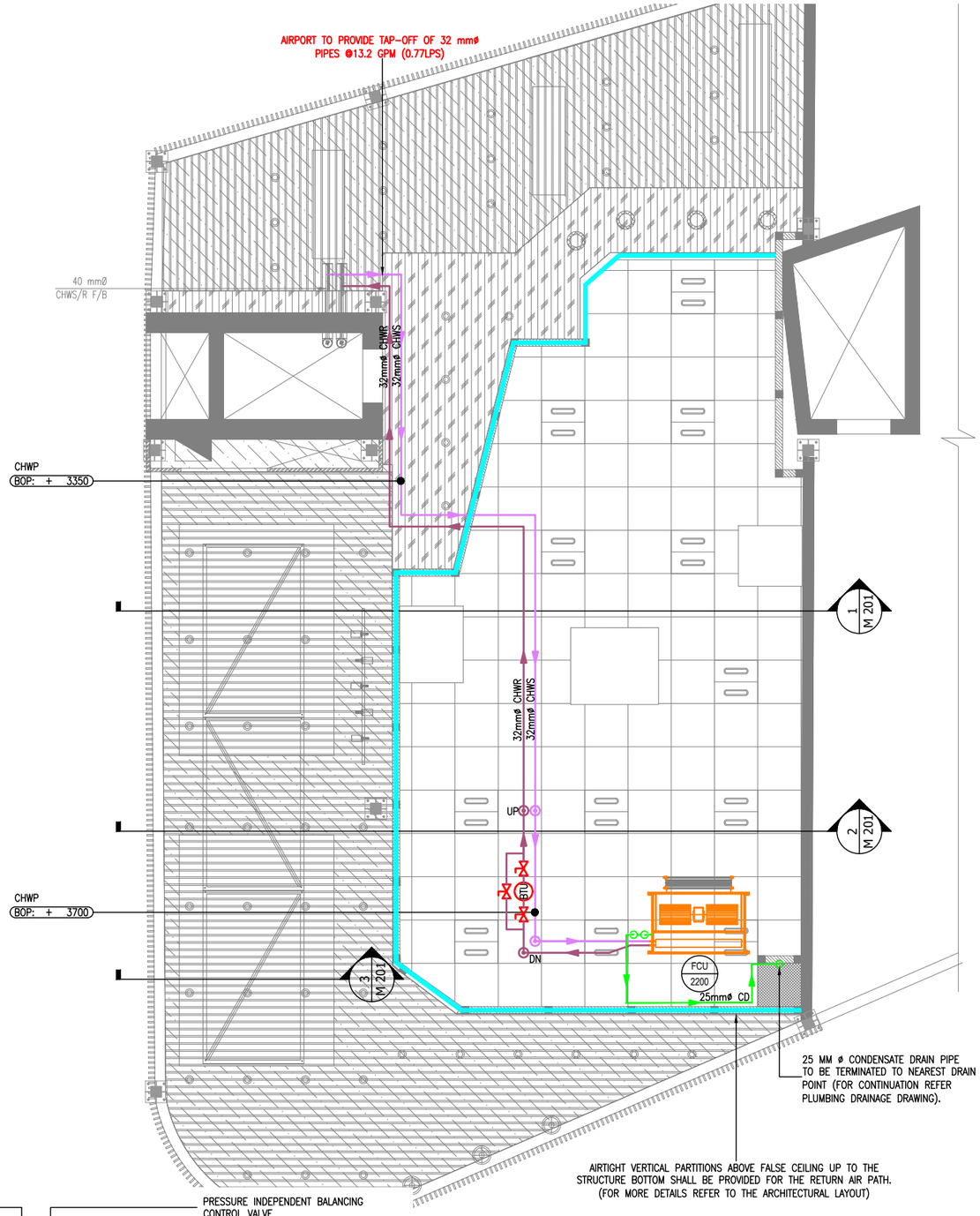
PROJECT
CARLSJR FF018
GMR INTERNATIONAL
AIRPORT LIMITED,
HYDERABAD

DRAWING TITLE
HVAC DUCTING LAYOUT ON RCP

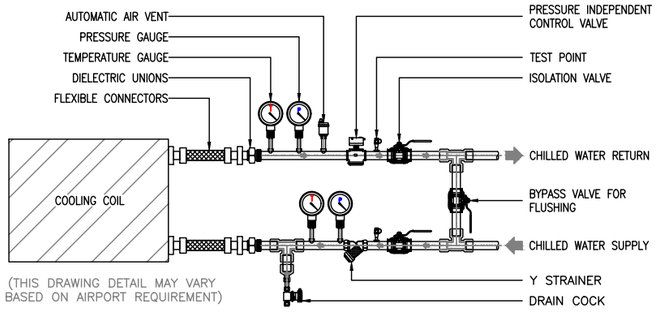
SCALE 1:75 | DATE 10.05.24 | DESIGN SF | A3 SHEET

STATUS
GOOD FOR CONSTRUCTION

ORG	PROJECT NO	DRAWING TYPE	NUMBER	REV
TFS	XXX	HVAC	M103	C01

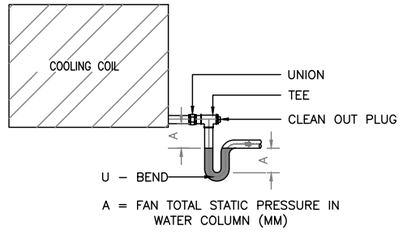


01 M104 HVAC PIPING LAYOUT ON RCP
1:75



BTU METER SHALL BE PROVIDED AS PER AIRPORT REQUIREMENT

02 M104 VALVE CONNECTION
NTS



A = FAN TOTAL STATIC PRESSURE IN WATER COLUMN (MM)

03 M104 DRAIN CONNECTION
NTS

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HVAC PIPING LEGEND

SYMBOL	DESCRIPTION
CHWS	CHILLED WATER SUPPLY LINE
CHWR	CHILLED WATER RETURN LINE
CD	CONDENSATE DRAIN WATER LINE
	ELBOW DOWN
	ELBOW UP
	TOP CONNECTION
	BOTTOM CONNECTION
	REDUCER

HVAC PIPING ABBREVIATIONS

FCU	FAN COIL UNIT – HIGH STATIC	CD	CONDENSATE DRAIN LINE
CHWS	CHILLED WATER SUPPLY LINE	BOP	BOTTOM OF PIPE
CHWR	CHILLED WATER RETURN LINE	BOP	BOTTOM OF PIPE

FCU — EQUIPMENT TYPE
XX — CFM AS INDICATED

HVAC EQUIPMENT SCHEDULE

TAG	EQUIPMENT TYPE	COOLING CAPACITY (TR)	AIR FLOW (CFM)	WATER FLOW (GPM)
FCU	FAN COIL UNIT – HIGH STATIC	5.5	2200	13.2

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INFORM THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

NOTES:
IRRESPECTIVE OF THE DRAWING(S), IT IS THE CONTRACTOR'S OBLIGATION AND RESPONSIBILITY THAT SHALL BE EXECUTED AND COMPLETED IN ACCORDANCE TO THE SPECIFICATION, DRAWING(S) AS WELL AS REQUIREMENT. THE SAID DRAWING(S) SHALL NOT RELIEVE CONTRACTOR FROM ANY OBLIGATION UNDER THE CONTRACT AND IN PARTICULAR FROM ITS RESPONSIBILITY IN RELATION TO THE INSTALLATION MATERIALS AND WORKMANSHIP AND WHERE RELEVANT FROM A DUTY TO SEEK APPROVAL FROM THE COMPETENT AUTHORITY.

REV	DATE	DESCRIPTION	DSN	CHK
C01	10.05.24	GOOD FOR CONSTRUCTION	SF	RR
C00	02.05.24	GOOD FOR CONSTRUCTION	SF	RR

tfs
Travel Food Services

muffin group

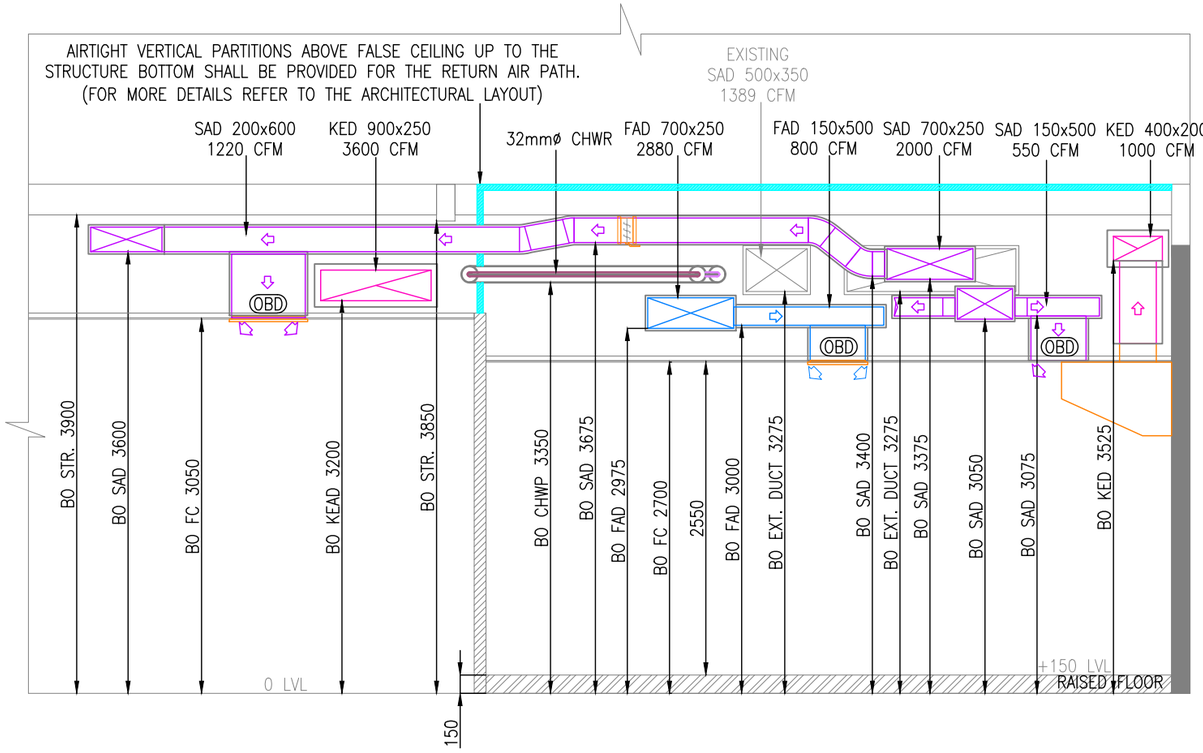
PROJECT
CARLSJR FF018
GMR INTERNATIONAL AIRPORT LIMITED,
HYDERABAD

DRAWING TITLE
HVAC PIPING LAYOUT ON RCP

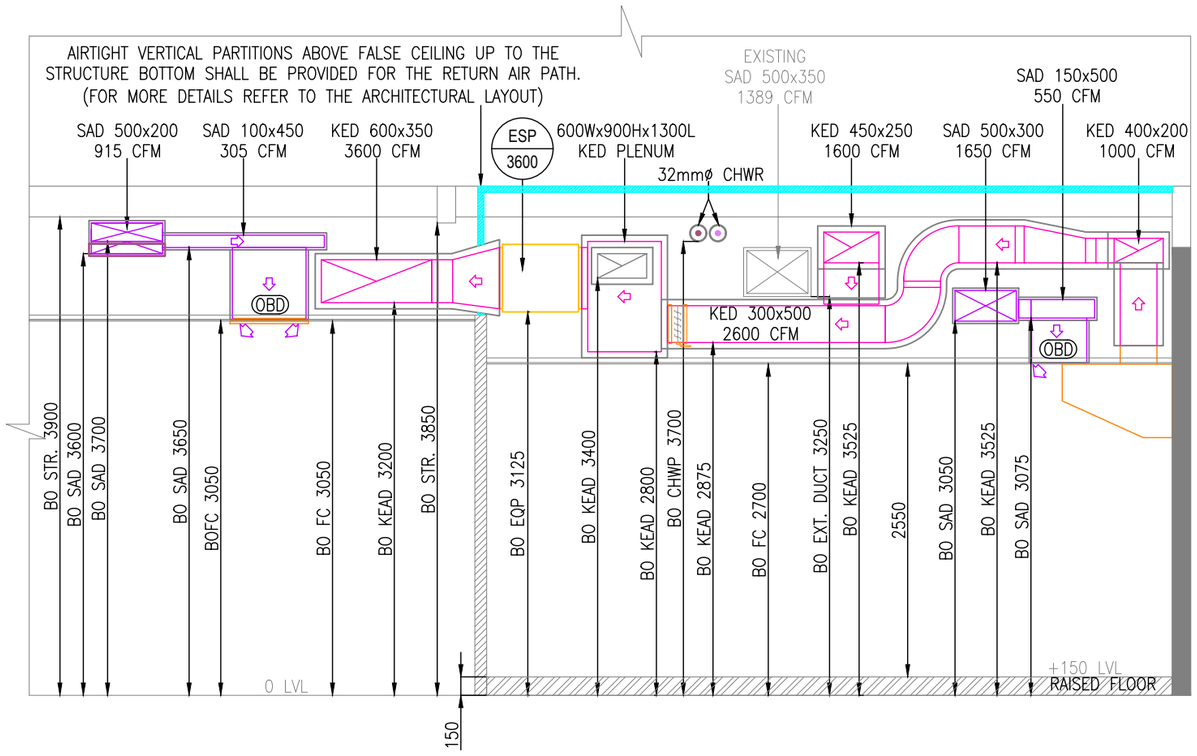
SCALE 1:75 DATE 10.05.24 DESIGN SF A3 SHEET

STATUS
GOOD FOR CONSTRUCTION

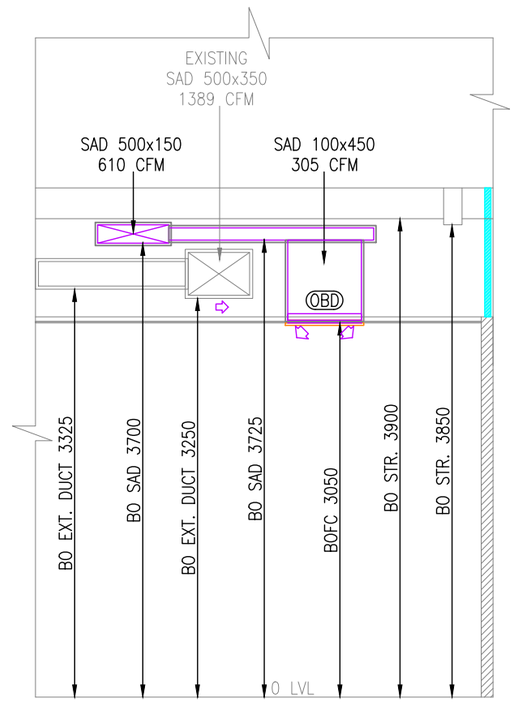
ORG	PROJECT NO	DRAWING TYPE	NUMBER	REV
TFS	XXX	HVAC	M104	C01



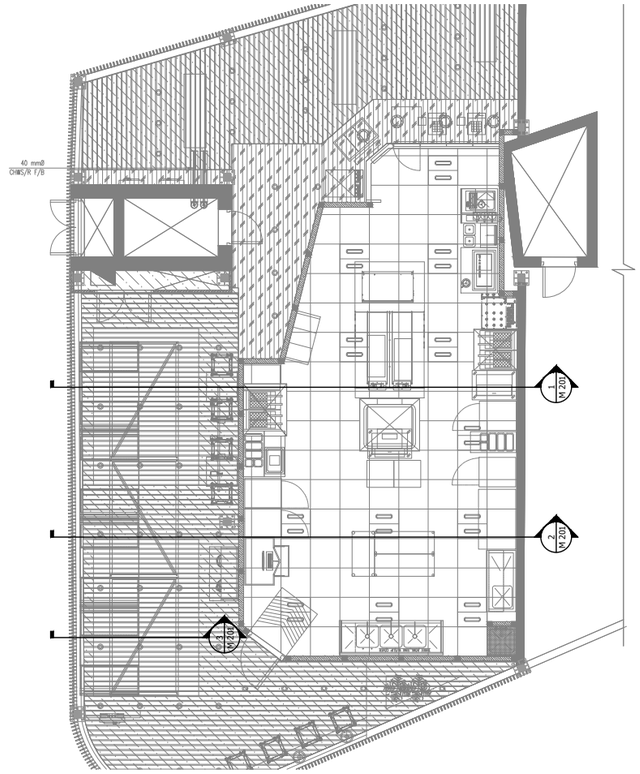
01 M201 1:50 **HVAC SECTION 1**



02 M201 1:50 **HVAC SECTION 2**



01 M201 1:50 **HVAC SECTION 3**



04 M201 NTS **KEY PLAN**

ALL DIMENSIONS MUST BE CHECKED ON SITE.
INFORM THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

NOTES:
IRRESPECTIVE OF THE DRAWING(S), IT IS THE CONTRACTOR'S OBLIGATION AND RESPONSIBILITY THAT SHALL BE EXECUTED AND COMPLETED IN ACCORDANCE TO THE SPECIFICATION, DRAWING(S) AS WELL AS REQUIREMENT. THE SAID DRAWING(S) SHALL NOT RELIEVE CONTRACTOR FROM ANY OBLIGATION UNDER THE CONTRACT AND IN PARTICULAR FROM ITS RESPONSIBILITY IN RELATION TO THE INSTALLATION MATERIALS AND WORKMANSHIP AND WHERE RELEVANT FROM A DUTY TO SEEK APPROVAL FROM THE COMPETENT AUTHORITY.

HVAC SECTION ABBREVIATIONS	
BO FAD	BOTTOM OF FRESH AIR DUCT
BO SAD	BOTTOM OF SUPPLY AIR DUCT
BO KED	BOTTOM OF KITCHEN EXHAUST DUCT
BO CHWP	BOTTOM OF CHILLED WATER PIPES
BO EQP	BOTTOM OF EQUIPMENT
BO FC	BOTTOM OF FALSE CEILING
BO STR	BOTTOM OF STRUCTURE

REV	DATE	DESCRIPTION	DSN	CHK
C01	10.05.24	GOOD FOR CONSTRUCTION	SF	RR
C00	02.05.24	GOOD FOR CONSTRUCTION	SF	RR

Travel Food Services

muffin group

PROJECT
CARLSJR FF018
GMR INTERNATIONAL AIRPORT LIMITED,
HYDERABAD

DRAWING TITLE
HVAC SECTIONAL LAYOUT

SCALE 1:75 DATE 10.05.24 DESIGN SF A3 SHEET

STATUS
GOOD FOR CONSTRUCTION

ORG	PROJECT NO	DRAWING TYPE	NUMBER	REV
TFS	XXX	HVAC	M201	C01

HVAC HEAT LOAD CALCULATION

Air System Sizing Summary for 1.SEATING AREA

Project Name: CARLS Jr
Prepared by: MDS

05-02-2024
05:04PM

Air System Information

Air System Name	**1.SEATING AREA**		Number of zones	**1**	
Equipment Class	**CW AHU**		Floor Area	**811.6**	ft²
Air System Type	**SZCAV**		Location	**HYD, India**	

Sizing Calculation Information

Calculation Months	**Jan to Dec**		Zone CFM Sizing	**Sum of space airflow rates**	
Sizing Data	**Calculated**		Space CFM Sizing	**Individual peak space loads**	

Central Cooling Coil Sizing Data

Total coil load	**6.0**	Tons	Load occurs at	**Jul 1500**	
Total coil load	**71.9**	MBH	OA DB / WB	**107.6 / 87.3**	°F
Sensible coil load	**46.7**	MBH	Entering DB / WB	**78.8 / 66.6**	°F
Coil CFM at Jul 1500	**1962**	CFM	Leaving DB / WB	**55.1 / 54.1**	°F
Max block CFM	**1962**	CFM	Coil ADP	**52.5**	°F
Sum of peak zone CFM	**1962**	CFM	Bypass Factor	**0.100**	
Sensible heat ratio	**0.650**		Resulting RH	**53**	%
ft²/Ton	**135.5**		Design supply temp.	**53.6**	°F
BTU/(hr-ft²)	**88.5**		Zone T-stat Check	**0 of 1**	OK
Water flow @ 10.0 °F rise	**14.38**	gpm	Max zone temperature deviation	**0.1**	°F

Supply Fan Sizing Data

Actual max CFM	**1962**	CFM	Fan motor BHP	**0.29**	BHP
Standard CFM	**1825**	CFM	Fan motor kW	**0.23**	kW
Actual max CFM/ft²	**2.42**	CFM/ft²	Fan static	**0.60**	in wg

Outdoor Ventilation Air Data

Design airflow CFM	**233**	CFM	CFM/person	**6.67**	CFM/person
CFM/ft²	**0.29**	CFM/ft²			

Zone Sizing Summary for 1.SEATING AREA

Project Name: CARLS Jr
Prepared by: MDS

05-02-2024
05:04PM

Air System Information

Air System Name ..... **1.SEATING AREA**
Equipment Class ..... **CW AHU**
Air System Type ..... **SZCAV**

Number of zones **1**
Floor Area ..... **811.6** ft²
Location ..... **HYD, India**

Sizing Calculation Information

Calculation Months ..... **Jan to Dec**
Sizing Data ..... **Calculated**

Zone CFM Sizing ..... **Sum of space airflow rates**
Space CFM Sizing ..... **Individual peak space loads**

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (MBH)	Design Airflow (CFM)	Minimum Airflow (CFM)	Time of Peak Load	Maximum Heating Load (MBH)	Zone Floor Area (ft²)	Zone CFM/ft²
Zone 1	37.6	1922	1922	Jul 1500	0.0	811.6	2.37

Zone Terminal Sizing Data

No Zone Terminal Sizing Data required for this system.

Space Loads and Airflows

Zone Name / Space Name	Mult.	Cooling Sensible (MBH)	Time of Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (ft²)	Space CFM/ft²
Zone 1							
1.SEATING AREA	1	37.6	Jul 1500	1922	0.0	811.6	2.37

Air System Design Load Summary for 1.SEATING AREA

Project Name: CARLS Jr
Prepared by: MDS

05-02-2024
05:04PM

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1500 COOLING OA DB / WB 107.6 °F / 87.3 °F			HEATING DATA AT DES HTG HEATING OA DB / WB 59.0 °F / 48.9 °F		
ZONE LOADS	Details	Sensible (BTU/hr)	Latent (BTU/hr)	Details	Sensible (BTU/hr)	Latent (BTU/hr)
Window & Skylight Solar Loads	0 ft²	0	-	0 ft²	-	-
Wall Transmission	0 ft²	0	-	0 ft²	0	-
Roof Transmission	0 ft²	0	-	0 ft²	0	-
Window Transmission	0 ft²	0	-	0 ft²	0	-
Skylight Transmission	0 ft²	0	-	0 ft²	0	-
Door Loads	0 ft²	0	-	0 ft²	0	-
Floor Transmission	812 ft²	6243	-	812 ft²	0	-
Partitions	538 ft²	4140	-	538 ft²	0	-
Ceiling	812 ft²	7639	-	812 ft²	0	-
Overhead Lighting	1217 W	2907	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	2000 W	6824	-	0	0	-
People	35	9800	9450	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	**-**	**37552**	**9450**	**-**	**0**	**0**
Zone Conditioning	-	36235	9450	-	-1307	0
Plenum Wall Load	2%	0	-	0	0	-
Plenum Roof Load	70%	0	-	0	0	-
Plenum Lighting Load	30%	1246	-	0	0	-
Return Fan Load	1962 CFM	0	-	1962 CFM	0	-
Ventilation Load	233 CFM	7668	15726	233 CFM	2155	0
Supply Fan Load	1962 CFM	785	-	1962 CFM	-785	-
Space Fan Coil Fans	-	0	-	-	0	-
Duct Heat Gain / Loss	2%	751	-	2%	0	-
>> Total System Loads	**-**	**46685**	**25176**	**-**	**63**	**0**
Central Cooling Coil	-	46685	25179	-	0	0
>> Total Conditioning	**-**	**46685**	**25179**	**-**	**0**	**0**
Key:	**Positive values are clg loads Negative values are htg loads**			**Positive values are htg loads Negative values are clg loads**		

July DESIGN COOLING DAY, 1500

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (°F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	107.6	0.02567	233	400	7668	15726
Vent - Return Mixing	Outlet	78.8	0.01223	1962	2216	-	-
Central Cooling Coil	Outlet	55.1	0.00932	1962	2216	46685	25179
Supply Fan	Outlet	55.5	0.00932	1962	2216	785	-
Cold Supply Duct	Outlet	55.9	0.00932	1922	2216	-	-
Zone Air	-	74.6	0.01044	1922	2466	36235	9450
Return Plenum	Outlet	75.3	0.01044	1922	2466	1246	-
Duct Leakage Air	Outlet	55.5	0.00932	39	2216	-	-
Return Duct	Outlet	74.9	0.01041	1962	2461	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.005 BTU/(hr-CFM-F)
Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4416.4 BTU/(hr-CFM)
Site Altitude = 1981.6 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (°F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
Zone 1	37552	Cooling	36235	74.6	1922	2466	0	0

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (°F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	59.0	0.00558	233	400	-2155	0
Vent - Return Mixing	Outlet	67.1	0.00558	1962	468	-	-
Central Cooling Coil	Outlet	67.1	0.00558	1962	468	0	0
Supply Fan	Outlet	67.5	0.00558	1962	468	785	-
Cold Supply Duct	Outlet	67.5	0.00558	1922	468	-	-
Zone Air	-	68.2	0.00558	1922	477	1307	0
Return Plenum	Outlet	68.2	0.00558	1922	477	0	-
Duct Leakage Air	Outlet	67.5	0.00558	39	468	-	-
Return Duct	Outlet	68.2	0.00558	1962	477	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.005 BTU/(hr-CFM-F)
Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4416.4 BTU/(hr-CFM)
Site Altitude = 1981.6 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (°F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
Zone 1	0	Deadband	1307	68.2	1922	477	0	0

Air System Sizing Summary for 2.KITCHEN

Project Name: CARLS Jr
Prepared by: MDS

05-02-2024
05:03PM

Air System Information

Air System Name	**2.KITCHEN**		Number of zones	**1**	
Equipment Class	**CW AHU**		Floor Area	**530.7**	ft²
Air System Type	**SZCAV**		Location	**HYD, India**	

Sizing Calculation Information

Calculation Months	**Jan to Dec**		Zone CFM Sizing	**Sum of space airflow rates**	
Sizing Data	**Calculated**		Space CFM Sizing	**Individual peak space loads**	

Central Cooling Coil Sizing Data

Total coil load	**5.6**	Tons	Load occurs at	**Jul 1500**	
Total coil load	**67.7**	MBH	OA DB / WB	**107.6 / 87.3**	°F
Sensible coil load	**49.1**	MBH	Entering DB / WB	**76.4 / 64.0**	°F
Coil CFM at Jul 1500	**2180**	CFM	Leaving DB / WB	**54.0 / 52.9**	°F
Max block CFM	**2180**	CFM	Coil ADP	**51.5**	°F
Sum of peak zone CFM	**2180**	CFM	Bypass Factor	**0.100**	
Sensible heat ratio	**0.725**		Resulting RH	**50**	%
ft²/Ton	**94.1**		Design supply temp.	**53.6**	°F
BTU/(hr-ft²)	**127.6**		Zone T-stat Check	**1 of 1**	OK
Water flow @ 10.0 °F rise	**13.55**	gpm	Max zone temperature deviation	**0.0**	°F

Supply Fan Sizing Data

Actual max CFM	**2180**	CFM	Fan motor BHP	**0.32**	BHP
Standard CFM	**2029**	CFM	Fan motor kW	**0.26**	kW
Actual max CFM/ft²	**4.11**	CFM/ft²	Fan static	**0.60**	in wg

Outdoor Ventilation Air Data

Design airflow CFM	**158**	CFM	CFM/person	**19.80**	CFM/person
CFM/ft²	**0.30**	CFM/ft²			

Zone Sizing Summary for 2.KITCHEN

Project Name: CARLS Jr
Prepared by: MDS

05-02-2024
05:03PM

Air System Information

Air System Name **2.KITCHEN**
Equipment Class ..... **CW AHU**
Air System Type ..... **SZCAV**

Number of zones **1**
Floor Area ..... **530.7** ft²
Location ..... **HYD, India**

Sizing Calculation Information

Calculation Months ..... **Jan to Dec**
Sizing Data ..... **Calculated**

Zone CFM Sizing ..... **Sum of space airflow rates**
Space CFM Sizing ..... **Individual peak space loads**

Zone Sizing Data

Zone Name	Maximum Cooling Sensible (MBH)	Design Airflow (CFM)	Minimum Airflow (CFM)	Time of Peak Load	Maximum Heating Load (MBH)	Zone Floor Area (ft²)	Zone CFM/ft²
Zone 1	41.7	2137	2137	Jul 1500	0.0	530.7	4.03

Zone Terminal Sizing Data

No Zone Terminal Sizing Data required for this system.

Space Loads and Airflows

Zone Name / Space Name	Mult.	Cooling Sensible (MBH)	Time of Load	Air Flow (CFM)	Heating Load (MBH)	Floor Area (ft²)	Space CFM/ft²
Zone 1							
2.KITCHEN	1	41.7	Jul 1500	2137	0.0	530.7	4.03

Air System Design Load Summary for 2.KITCHEN

Project Name: CARLS Jr
Prepared by: MDS

05-02-2024
05:03PM

	DESIGN COOLING			DESIGN HEATING		
	COOLING DATA AT Jul 1500 COOLING OA DB / WB 107.6 °F / 87.3 °F			HEATING DATA AT DES HTG HEATING OA DB / WB 59.0 °F / 48.9 °F		
ZONE LOADS	**Details**	**Sensible (BTU/hr)**	**Latent (BTU/hr)**	**Details**	**Sensible (BTU/hr)**	**Latent (BTU/hr)**
Window & Skylight Solar Loads	0 ft²	0	-	0 ft²	-	-
Wall Transmission	0 ft²	0	-	0 ft²	0	-
Roof Transmission	0 ft²	0	-	0 ft²	0	-
Window Transmission	0 ft²	0	-	0 ft²	0	-
Skylight Transmission	0 ft²	0	-	0 ft²	0	-
Door Loads	0 ft²	0	-	0 ft²	0	-
Floor Transmission	531 ft²	4082	-	531 ft²	0	-
Partitions	431 ft²	3312	-	431 ft²	0	-
Ceiling	531 ft²	4994	-	531 ft²	0	-
Overhead Lighting	530 W	1267	-	0	0	-
Task Lighting	0 W	0	-	0	0	-
Electric Equipment	7000 W	23884	-	0	0	-
People	8	4201	7400	0	0	0
Infiltration	-	0	0	-	0	0
Miscellaneous	-	0	0	-	0	0
Safety Factor	0% / 0%	0	0	0%	0	0
>> Total Zone Loads	**-**	**41740**	**7400**	**-**	**0**	**0**
Zone Conditioning	-	41487	7400	-	-619	0
Plenum Wall Load	2%	0	-	0	0	-
Plenum Roof Load	70%	0	-	0	0	-
Plenum Lighting Load	30%	543	-	0	0	-
Return Fan Load	2180 CFM	0	-	2180 CFM	0	-
Ventilation Load	158 CFM	5357	11204	158 CFM	1556	0
Supply Fan Load	2180 CFM	873	-	2180 CFM	-873	-
Space Fan Coil Fans	-	0	-	-	0	-
Duct Heat Gain / Loss	2%	835	-	2%	0	-
>> Total System Loads	**-**	**49095**	**18604**	**-**	**65**	**0**
Central Cooling Coil	-	49095	18607	-	0	0
>> Total Conditioning	**-**	**49095**	**18607**	**-**	**0**	**0**
Key:	**Positive values are clg loads Negative values are htg loads**			**Positive values are htg loads Negative values are clg loads**		

July DESIGN COOLING DAY, 1500

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (°F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	107.6	0.02567	158	400	5357	11204
Vent - Return Mixing	Outlet	76.4	0.01083	2180	1898	-	-
Central Cooling Coil	Outlet	54.0	0.00889	2180	1898	49095	18607
Supply Fan	Outlet	54.4	0.00889	2180	1898	873	-
Cold Supply Duct	Outlet	54.8	0.00889	2137	1898	-	-
Zone Air	-	74.1	0.00968	2137	2019	41487	7400
Return Plenum	Outlet	74.3	0.00968	2137	2019	543	-
Duct Leakage Air	Outlet	54.4	0.00889	44	1898	-	-
Return Duct	Outlet	73.9	0.00966	2180	2016	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.005 BTU/(hr-CFM-F)
Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4416.4 BTU/(hr-CFM)
Site Altitude = 1981.6 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (°F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
Zone 1	41740	Cooling	41487	74.1	2137	2019	0	0

WINTER DESIGN HEATING

TABLE 1: SYSTEM DATA

Component	Location	Dry-Bulb Temp (°F)	Specific Humidity (lb/lb)	Airflow (CFM)	CO2 Level (ppm)	Sensible Heat (BTU/hr)	Latent Heat (BTU/hr)
Ventilation Air	Inlet	59.0	0.00558	158	400	-1556	0
Vent - Return Mixing	Outlet	68.1	0.00558	2180	520	-	-
Central Cooling Coil	Outlet	68.1	0.00558	2180	520	0	0
Supply Fan	Outlet	68.5	0.00558	2180	520	873	-
Cold Supply Duct	Outlet	68.5	0.00558	2137	520	-	-
Zone Air	-	68.8	0.00558	2137	529	619	0
Return Plenum	Outlet	68.8	0.00558	2137	529	0	-
Duct Leakage Air	Outlet	68.5	0.00558	44	520	-	-
Return Duct	Outlet	68.8	0.00558	2180	529	-	-

Air Density x Heat Capacity x Conversion Factor: At sea level = 1.080; At site altitude = 1.005 BTU/(hr-CFM-F)
Air Density x Heat of Vaporization x Conversion Factor: At sea level = 4746.6; At site altitude = 4416.4 BTU/(hr-CFM)
Site Altitude = 1981.6 ft

TABLE 2: ZONE DATA

Zone Name	Zone Sensible Load (BTU/hr)	T-stat Mode	Zone Cond (BTU/hr)	Zone Temp (°F)	Zone Airflow (CFM)	CO2 Level (ppm)	Terminal Heating Coil (BTU/hr)	Zone Heating Unit (BTU/hr)
Zone 1	0	Deadband	619	68.8	2137	529	0	0