

## HEAT LOAD SUMMARY

<b>PROJECT :</b> KFC	<b>LOCATION :</b> DSHA - FF 041 - RGIA, HYD	<b>DATE :</b> 29.12.2023	<b>REVISION :</b> R0
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**Assumptions -**

- 1 Inside Condition : 22.78 Deg C + / - 1 Deg C
- 2 Relative Humidity : 28.9 %
- 3 Out Side Condition : 41.11 Deg C
- 4 Lighting Load : 1.5 Watts / Sq.ft

Sr. No.	Space Description	Area To	Total	False	Fresh Air	Occupancy	Electrical Load		As per Heatload		Proposed Units					
		be AC	Height	Ceiling			Eqpt. Load	Lighting	TR	CFM	TYPE	TR	CFM	QTY.	TOTAL	TOTAL
		(Sq. Ft)	(FT)	(FT)	CFM	Nos.	Watts	Watts/Sq.ft								
1	SEATING AREA	1177	9.83	9.83	600	80	1	1.5	8.3	2126	RGIA SAD (TAP OFF)		1550	2		3100
2	KITCHEN AREA	766	8.50	7.50	400	10	15	1	8.4	4350	RGIA SAD (TAP OFF)		4350	1		4350
3	FRESH AIR										RGIA KSAD		3600	1		
4	EXHAUST AIR										RGIA KEAD		4000	1		
		<b>1943</b>			<b>1000</b>	<b>90</b>			<b>17</b>	<b>6475</b>				<b>3.0</b>		<b>7450</b>

**HEAT LOAD ESTIMATION**

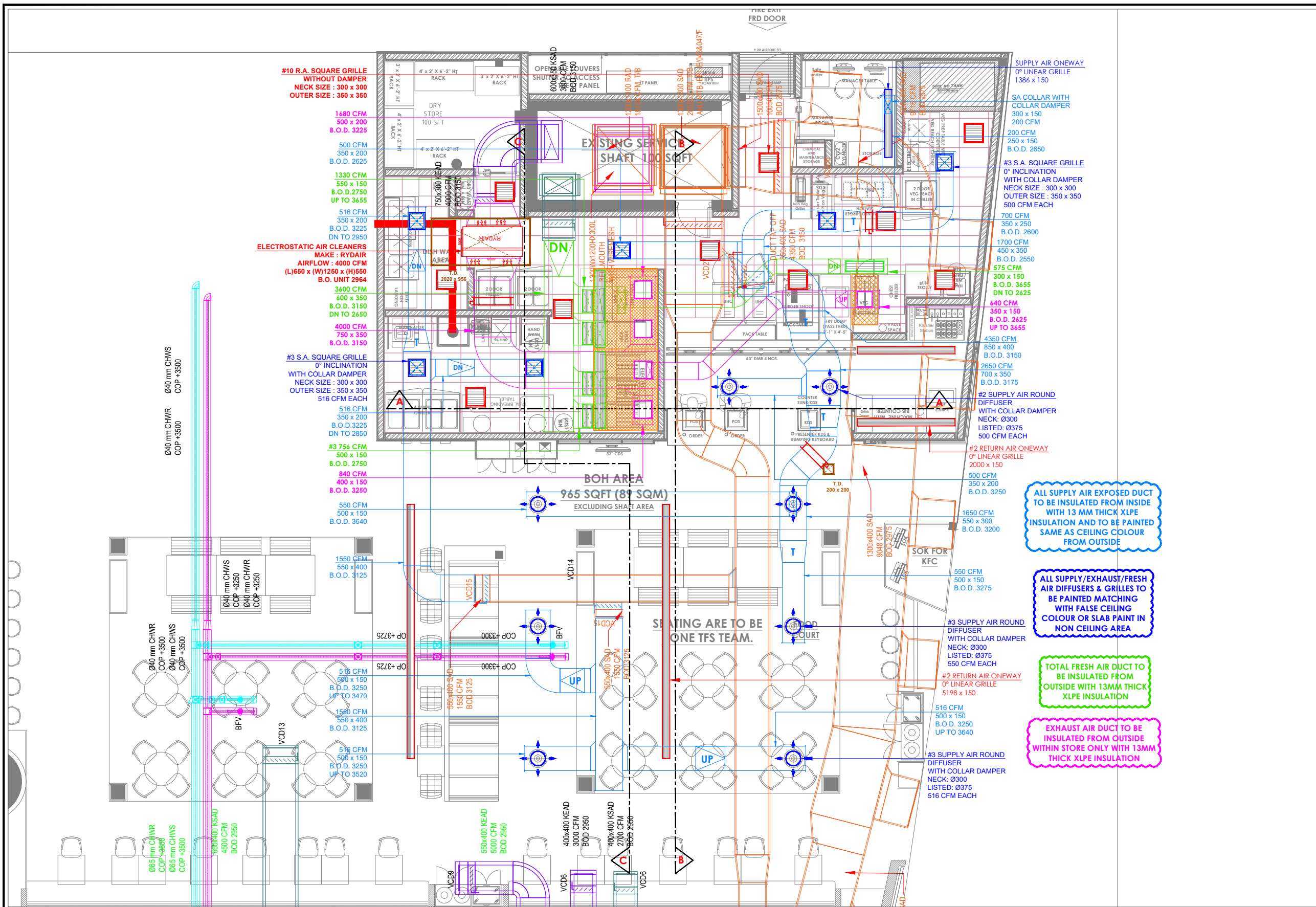
<b>CUSTOMER</b> : SEATING				<b>LOCATION</b> : HYDERABAD		<b>DESIGN CONDITIONS</b>									
<b>ESTIMATED BY</b> : RITESH				<b>LAT. DEG. N</b> : 17.86		<b>TIME OF PEAK LOAD:</b> APRIL, 16:00 HRS									
<b>DATE</b> : 29.12.2023				<b>ALTITUDE (MTRS)</b> : 545		<b>DB</b>		<b>% RH</b>		<b>WB</b>		<b>TH</b>		<b>GR/LB</b>	
<b>AREA</b> = 1177 SQFT				<b>DAILY RANGE</b> : 14		<b>SUMMER</b>									
<b>TOTAL HT</b> = 9.83 FEET						<b>OUTSIDE</b>	106	28.9	78.00	41.27	100.00				
<b>FC LVL</b> = 9.83 FEET						<b>INSIDE</b>	73	55	62.3	27.93	67				
						<b>DIFF.</b>	33	X	X	13.34	33.00				
						<b>MONSOON</b>									
						<b>OUTSIDE</b>	85	84.4	81.00	44.74	155.10				
						<b>INSIDE</b>	73	55	62.3	27.93	67				
						<b>DIFF.</b>	12	X	X	16.809	88.1				
<b>PEOPLE</b> : 80 NOS. X 7.5 CFM = 600						<b>Summer Correction Factor for walls</b> : 21.00									
1 AIR CHANGES PER HOUR = 193						<b>Monsoon Correction Factor for walls</b> : 0.00									
<b>FRESH AIR</b> = 600															

STRUCT.	SQFT	FACTOR	TEMP.		BTU/HR		EFFECTIVE ROOM LATENT HEAT				Sum	Mon
EFFECTIVE ROOM SENSIBLE HEAT			Sum	Mon	Sum	Mon	F. A.	600	33	0.15x0.68	2020	5392
WALL N	0	0.34	25	4	0	0	PEOPLE	80	NOS.	205	16400	16400
WALL NE	0	0.34	25	10	0	0	ERLH SUBTOTAL				18420	21792
WALL E	0	0.34	25	18	0	0	FACTOR			12.5%	2302	2724
WALL SE	0	0.34	39	18	0	0	ERLH TOTAL				20722	24516
WALL S	0	0.34	37	16	0	0	<b>1) EFFECTIVE ROOM TOTAL HEAT</b>				57796	59242
WALL SW	0	0.34	35	14	0	0	<b>2) OAS</b>	600	ΔT	1.08x.85	18176	6610
WALL W	0	0.34	33	12	0	0	<b>3) OAL</b>	600	GR/LB DIFF.	0.68x0.85	11444	30553
WALL NW	0	0.34	27	6	0	0	<b>GRAND TOTAL HEAT SUBTOTAL = 1 + 2 + 3</b>				87416	96405
GLASS N	0	0.56	23	11	0	0	FACTOR			3%	2622	2892
GLASS NE	0	0.56	12	11	0	0	<b>GRAND TOTAL HEAT</b>				90039	99297
GLASS E	0	0.56	12	11	0	0	<b>AIRCONDITIONING TONNAGE</b>				7.5	8.3
GLASS SE	0	0.56	12	11	0	0						
GLASS S	0	0.56	12	11	0	0	ERSHF				0.64	0.59
GLASS SW	0	0.56	85	113	0	0	INDICATED ADP				52.75	49.50
GLASS W	0	0.56	163	165	0	0	SELECTED ADP				54.00	54.00
GLASS NW	0	0.56	138	118	0	0	DEHUMIDIFIER CFM				2126	1991
ALL GLASS	0	0.61	33	12	0	0	<b>RETURN AIR GAIN</b>					
PRT. WL.	0	0.40	28	7	0	0	STRUCT.	SQFT	FACTOR	TEMP.	BTU/HR	
PRT. GLS.	0	1.13	28	7	0	0	WALL N	0	0.34	22	0	
ROOF	0	0.25	56.00	35.00	0	0	WALL NE	0	0.34	28	0	
CEILING	0	0.40	28	7	0	0	WALL E	0	0.34	36	0	
FLOOR	0	0.40	28	7	0	0	WALL SE	0	0.34	36	0	
F. A.	600	33	0.15x1.08	0.15x1.08	3208	1166	WALL S	0	0.34	34	0	
PEOPLE	80	NOS.	245	245	19600	19600	WALL SW	0	0.34	32	0	
LIGHT (Kw)	1.5	1177	3.41	3.41	6020	6020	WALL W	0	0.34	30	0	
EQPT. (kw)	1	1	3410	3410	3410	3410	WALL NW	0	0.34	24	0	
							PRT. WL.	0	0.40	28	0	
ERSH SUBTOTAL					32238	30197	<b>3) TOTAL R.A. GAIN</b>					0
FACTOR				15%	4836	4530						
<b>ERSH TOTAL</b>					<b>37074</b>	<b>34726</b>						

**HEAT LOAD ESTIMATION**

<b>CUSTOMER</b> : KITCHEN				<b>LOCATION</b> HYDERABAD																																																							
<b>ESTIMATED BY</b> : RITESH				<b>LAT. DEG. N</b> 17.86																																																							
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<b>PEOPLE</b> : 10 NOS. X 7.5 CFM = 75																																																											
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STRUCT.	SQFT	FACTOR	TEMP.		BTU/HR		EFFECTIVE ROOM LATENT HEAT				Sum	Mon
EFFECTIVE ROOM SENSIBLE HEAT			Sum	Mon	Sum	Mon	F. A.					
WALL N	0	0.34	25	4	0	0	PEOPLE	10	NOS.	205	2050	2050
WALL NE	0	0.34	25	10	0	0	ERLH SUBTOTAL				3396	5644
WALL E	0	0.34	25	18	0	0	FACTOR			12.5%	425	706
WALL SE	0	0.34	39	18	0	0	ERLH TOTAL				3821	6350
WALL S	0	0.34	37	16	0	0	1) EFFECTIVE ROOM TOTAL HEAT				74257	72721
WALL SW	0	0.34	35	14	0	0	2) OAS	400	ΔT	1.08x.85	12118	4406
WALL W	0	0.34	33	12	0	0	3) OAL	400	GR/LB DIFF.	0.68x0.85	7630	20369
WALL NW	0	0.34	27	6	0	0	GRAND TOTAL HEAT SUBTOTAL = 1 + 2 + 3				94004	97496
GLASS N	0	0.56	23	11	0	0	FACTOR			3.0%	2820	2925
GLASS NE	0	0.56	12	11	0	0	GRAND TOTAL HEAT				96824	100421
GLASS E	0	0.56	12	11	0	0	AIRCONDITIONING TONNAGE				8.1	8.4
GLASS SE	0	0.56	12	11	0	0	ERSHF				0.95	0.91
GLASS S	0	0.56	12	11	0	0	INDICATED ADP				55.36	54.68
GLASS SW	0	0.56	85	113	0	0	SELECTED ADP				54.00	54.00
GLASS W	0	0.56	163	165	0	0	DEHUMIDIFIER CFM				4350	3946
GLASS NW	0	0.56	138	118	0	0	RETURN AIR GAIN					
ALL GLASS	0	0.61	33	12	0	0	STRUCT.	SQFT	FACTOR	TEMP.	BTU/HR	
PRT. WL.	259	0.40	28	7	2898	725	WALL N	0	0.34	22	0	
PRT. GLS.	0	1.13	28	7	0	0	WALL NE	0	0.34	28	0	
ROOF	0	0.25	56.00	35.00	0	0	WALL E	0	0.34	36	0	
CEILING	0	0.40	28	7	0	0	WALL SE	0	0.34	36	0	
FLOOR	0	0.40	28	7	0	0	WALL S	0	0.34	34	0	
F. A.	400	33	0.15x1.08	0.15x1.08	2138	778	WALL SW	0	0.34	32	0	
PEOPLE	10	NOS.	245	245	2450	2450	WALL W	0	0.34	30	0	
LIGHT (Kw)	1	766	3.41	3.41	2612	2612	WALL NW	0	0.34	24	0	
EQPT. (kw)	15	1	3410	3410	51150	51150	PRT. WL.	0	0.40	28	0	
ERSH SUBTOTAL					61248	57714	3) TOTAL R.A. GAIN				0	
FACTOR					15%	9187					8657	
ERSH TOTAL					70436	66371						



- NOTES :**
- THE COPYRIGHT OF THIS DRAWING REMAINS WITH WHITE WATER DESIGN STUDIO AND IT MAY NOT BE REPRODUCED IN ANY WHICH MANNER WITHOUT PRIOR WRITTEN CONSENT.
  - FIGURED DIMENSIONS ARE TO BE USED IN REFERENCES TO SCALED SIZES. ALL DIMENSIONS MUST BE CHECKED BEFORE COMMENCING WORK ON SITE.
  - THIS DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
  - ALL PROPOSED WORKS TO BE CARRIED OUT IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS AND SCHEDULES MENTIONED FOR INTERIOR WORKS.
  - READ THIS DRAWING IN CONJUNCTION WITH ALL CONSULTANTS' & SPECIALISTS' DRAWINGS, DETAILS, SCHEDULES & SPECIFICATIONS FOR :  
i. SPRINKLER INSTALLATION  
ii. AUTOMATIC FIRE DETECTION SYSTEMS  
iii. AIR CONDITIONING SYSTEM & DISTRIBUTION (HVAC)  
iv. EMERGENCY LIGHTING  
v. PRIMARY WIRING DESIGN & DISTRIBUTION
  - ALL WORK IS TO BE CARRIED OUT STRICTLY IN ACCORDANCE WITH IS STANDARDS (WHERE APPLICABLE) & BEST TRADE PRACTICES. ALL WORK MUST SATISFY THE REQUIREMENTS OF THE LOCAL AUTHORITIES.
  - WHITE WATER DESIGN STUDIO TO APPROVE ALL CONTRACTORS' SETTINGS OUT & ALL CO-ORDINATION SHOP DRAWINGS PRIOR TO ALL MANUFACTURERS, CONTRACTORS, INSTALLERS & SPECIALISTS TO BE RESPONSIBLE FOR ENSURING THAT ALL OF THEIR COMMENCEMENT OF INSTALLATION
  - WORKS FULLY COMPLY WITH THE REQUIREMENTS OF THE LOCAL AUTHORITIES & FIRE DEPARTMENT & THAT ALL SAFETY STANDARDS ARE MET THROUGHOUT.
  - ALL FIT-OUT CONTRACTORS & SPECIALISTS TO PREPARE FULL SHOP DRAWINGS WITH SPECIFIC REFERENCE TO SITE CONDITIONS FOR WHITE WATER DESIGN STUDIO APPROVAL PRIOR TO MANUFACTURE & INSTALLATION AS APPROPRIATE TO THEIR TASK.



**AMMENDMENTS :**

S.NO.	REV.DATE	DESCRIPTION
1.	16.01.2024	HVAC DLD PLAN - R0
2.	18.01.2024	HVAC DLD PLAN - R1
3.	20.01.2024	HVAC GFC LAYOUT - R0

**DRAWING NO :**  
KFC-DSHY-HVAC-01 **RO**

**DRAWING TITLE :**  
HVAC GFC LAYOUT

**LOCATION :**  
DSHA-RGIA, HYDERABAD

**DATE :** 20.01.2024  
**SCALE :** AS STATED  
**DRN. BY :** ARBAAZ  
**CHKD. BY :** RITESH

**PROJECT :**  
KFC STORE AT  
DSHA-RGIA, HYDERABAD

**CLIENT :**  
TRAVEL FOODS SERVICES

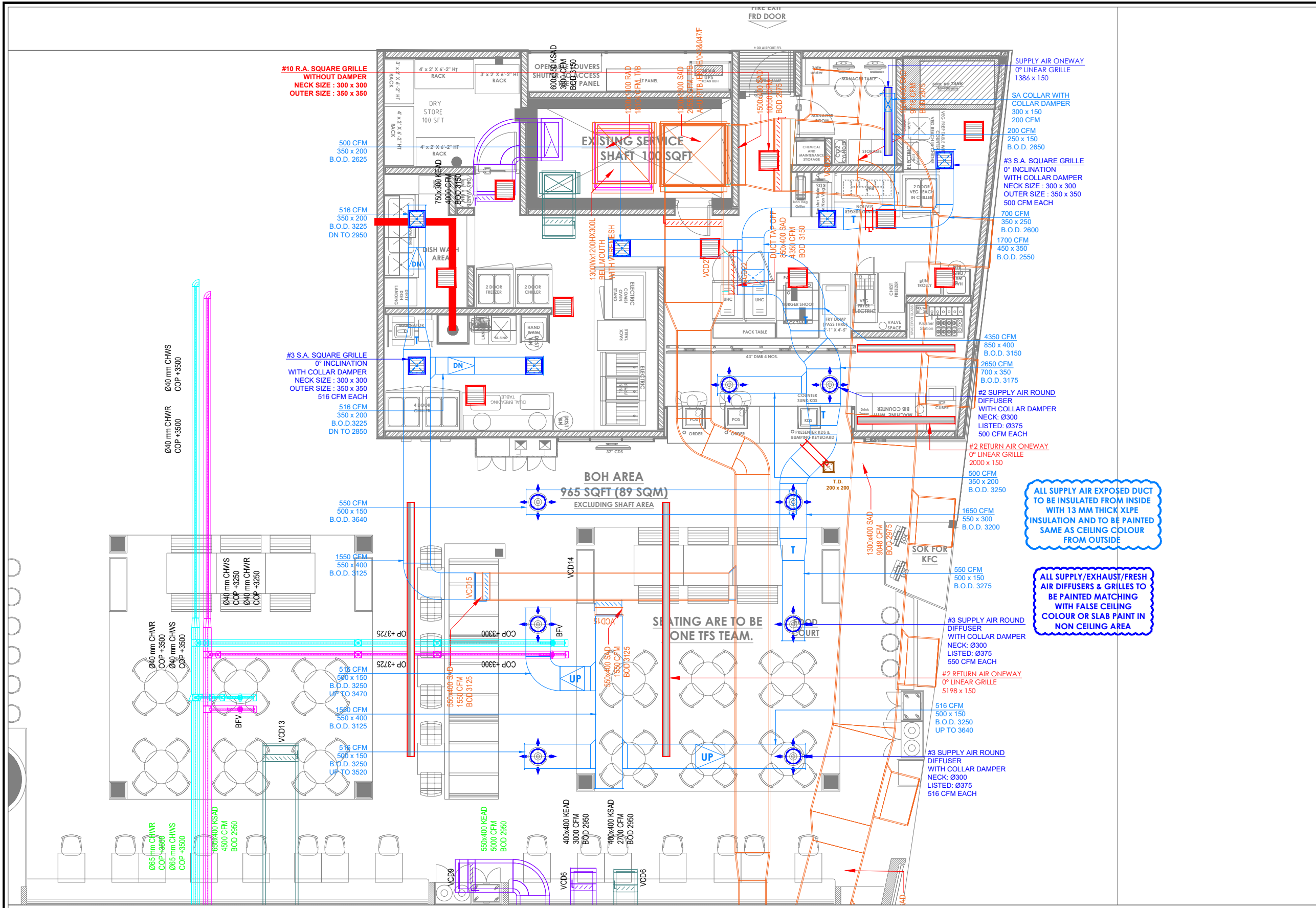


**HEAD OFFICE :-**  
Anchorage, off Govandi Station Rd  
Near Amarnath Patil Ground, Govandi-(E)  
Mumbai 400 088  
TEL: +91 22 6740 7640.  
Email: studio@whitewaterdesign.in

**HVAC LEGENDS :**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	<b>ELECTROSTATIC AIR CLEANERS</b> MAKE : RYDAIR		EXHAUST AIR DUCT WITH 13mm Thk. XLPE INSULATION FROM OUTSIDE		VOLUME CONTROL DAMPER
	FRESH AIR DUCT WITH 13MM THK. XLPE INSULATION FROM OUTSIDE		SUPPLY AIR DUCT WITH 13mm Thk. XLPE INSULATION		0° SUPPLY AIR LINEAR GRILLE
	0° SUPPLY AIR SQUARE GRILLE		0° RETURN AIR SQUARE GRILLE		SUPPLY AIR ROUND DIFFUSER
	EXISTING AIRPORT SUPPLY AIR DUCT		0° RETURN AIR LINEAR GRILLE		

- NOTE:**
- FRESH AIR DUCT TO BE INSULATED FROM OUTSIDE WITH 13MM THICK XLPE INSULATION.
  - DRY SCRUBBER (EXHAUST AIR) DUCT TO BE INSULATED FROM OUTSIDE WITHIN STORE ONLY WITH 13MM THICK XLPE INSULATION.
  - ALL EXPOSED DUCTS TO MATCH FINAL CEILING PAINT
  - SUPPLY AIR GRILLE & DIFFUSER TO BE INSTALL WITH COLLAR DAMPER



- NOTES :**
- THE COPYRIGHT OF THIS DRAWING REMAINS WITH WHITE WATER DESIGN STUDIO AND IT MAY NOT BE REPRODUCED IN ANY WHICH MANNER WITHOUT PRIOR WRITTEN CONSENT.
  - FIGURED DIMENSIONS ARE TO BE USED IN PREFERENCES TO SCALED SIZES. ALL DIMENSIONS MUST BE CHECKED BEFORE COMMENCING WORK ON SITE.
  - THIS DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
  - ALL PROPOSED WORKS TO BE CARRIED OUT IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS AND SCHEDULES MENTIONED FOR INTERIOR WORKS.
  - READ THIS DRAWING IN CONJUNCTION WITH ALL CONSULTANTS' & SPECIALISTS' DRAWINGS, DETAILS, SCHEDULES & SPECIFICATIONS FOR :  
 i. SPRINKLER INSTALLATION  
 ii. AUTOMATIC FIRE DETECTION SYSTEMS  
 iii. AIR CONDITIONING SYSTEM & DISTRIBUTION (HVAC)  
 iv. EMERGENCY LIGHTING  
 v. PRIMARY WIRING DESIGN & DISTRIBUTION
  - ALL WORK IS TO BE CARRIED OUT STRICTLY IN ACCORDANCE WITH IS STANDARDS (WHERE APPLICABLE) & BEST TRADE PRACTICES. ALL WORK MUST SATISFY THE REQUIREMENTS OF THE LOCAL AUTHORITIES.
  - WHITE WATER DESIGN STUDIO TO APPROVE ALL CONTRACTORS' SETTINGS OUT & ALL CO-ORDINATION SHOP DRAWINGS PRIOR TO ALL MANUFACTURERS, CONTRACTORS, INSTALLERS & SPECIALISTS TO BE RESPONSIBLE FOR ENSURING THAT ALL OF THEIR COMMENCEMENT OF INSTALLATION
  - WORKS FULLY COMPLY WITH THE REQUIREMENTS OF THE LOCAL AUTHORITIES & FIRE DEPARTMENT & THAT ALL SAFETY STANDARDS ARE MET THROUGHOUT.
  - ALL FIT-OUT CONTRACTORS & SPECIALISTS TO PREPARE FULL SHOP DRAWINGS WITH SPECIFIC REFERENCE TO SITE CONDITIONS FOR WHITE WATER DESIGN STUDIO APPROVAL PRIOR TO MANUFACTURE & INSTALLATION AS APPROPRIATE TO THEIR TASK.



**AMMENDMENTS :**

S.NO.	REV.DATE	DESCRIPTION
1.	16.01.2024	HVAC DLD PLAN - R0
2.	18.01.2024	HVAC DLD PLAN - R1
3.	20.01.2024	HVAC GFC LAYOUT - R0

**DRAWING NO :**  
**KFC-DSHY-HVAC-02** **R0**

**DRAWING TITLE :**  
**HVAC SUPPLY LAYOUT**

**LOCATION :**  
**DSHA-RGIA, HYDERABAD**

**DATE :** 20.01.2024  
**SCALE :** AS STATED  
**DRN. BY :** ARBAAZ  
**CHKD. BY :** RITESH

**PROJECT :**  
**KFC STORE AT DSHA-RGIA, HYDERABAD**

**CLIENT :**  
**TRAVEL FOODS SERVICES**

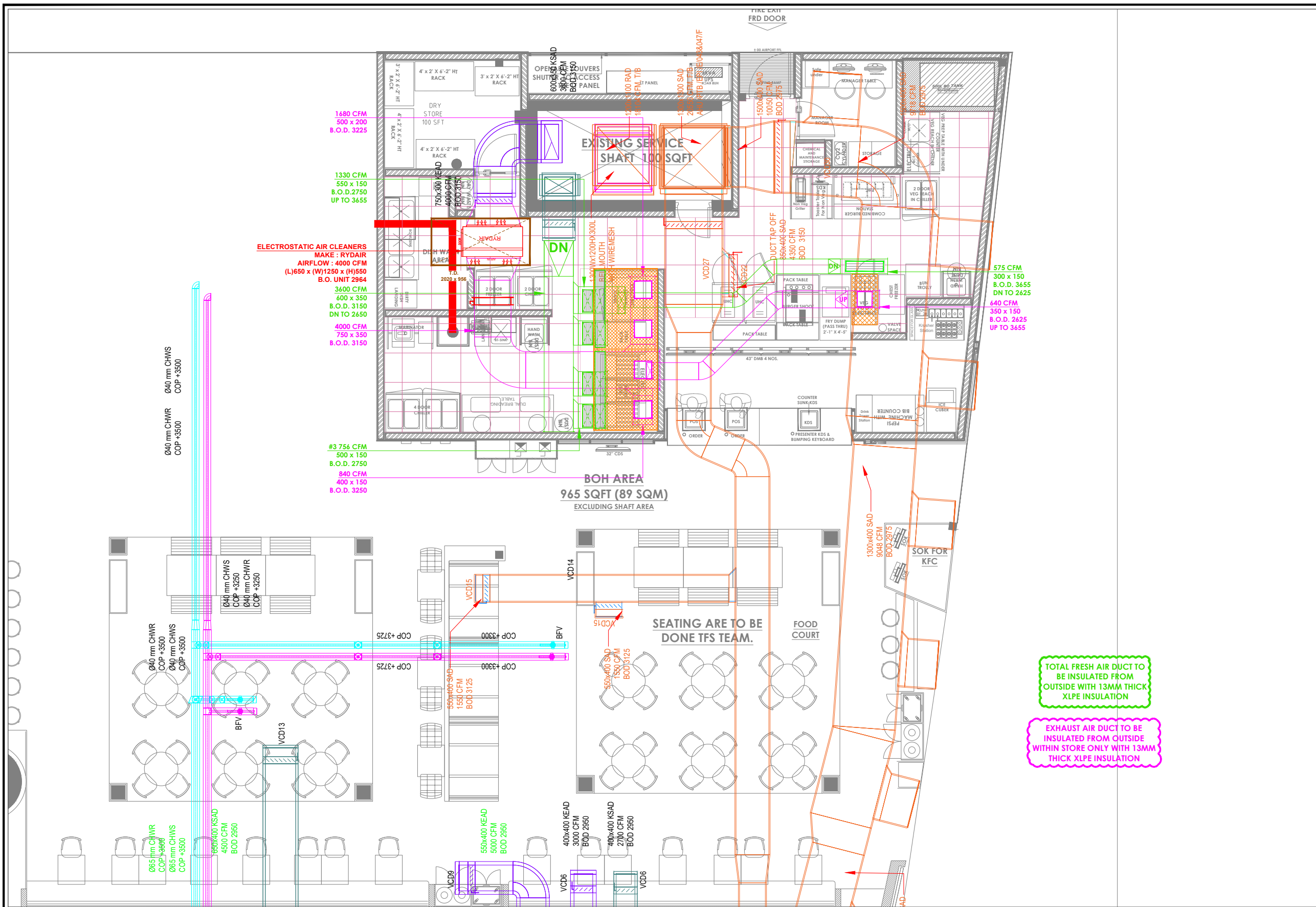


**HEAD OFFICE :-**  
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 TEL: +91 22 6740 7640.  
 Email: studio@whitewaterdesign.in

**HVAC LEGENDS :**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ELECTROSTATIC AIR CLEANERS MAKE : RYDAIR		EXHAUST AIR DUCT WITH 13mm Thk. XLPE INSULATION FROM OUTSIDE		VOLUME CONTROL DAMPER
			FRESH AIR DUCT WITH 13MM THK. XLPE INSULATION FROM OUTSIDE		0° SUPPLY AIR LINEAR GRILLE
			SUPPLY AIR DUCT WITH 13mm Thk. XLPE INSULATION		0° FRESH AIR LINEAR GRILLE
			0° SUPPLY AIR SQUARE GRILLE		0° RETURN AIR SQUARE GRILLE
	EXISTING AIRPORT SUPPLY AIR DUCT		0° RETURN AIR LINEAR GRILLE		SUPPLY AIR ROUND DIFFUSER

- NOTE:**
- FRESH AIR DUCT TO BE INSULATED FROM OUTSIDE WITH 13MM THICK XLPE INSULATION.
  - DRY SCRUBBER (EXHAUST AIR) DUCT TO BE INSULATED FROM OUTSIDE WITHIN STORE ONLY WITH 13MM THICK XLPE INSULATION.
  - ALL EXPOSED DUCTS TO MATCH FINAL CEILING PAINT
  - SUPPLY AIR GRILLE & DIFFUSER TO BE INSTALL WITH COLLAR DAMPER



- NOTES :**
1. FIGURED DIMENSIONS ARE TO BE USED IN REFERENCES TO SCALED SIZES. ALL DIMENSIONS MUST BE CHECKED BEFORE COMMENCING WORK ON SITE.
  2. THIS DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
  3. ALL PROPOSED WORKS TO BE CARRIED OUT IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS AND SCHEDULES MENTIONED FOR INTERIOR WORKS.
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 ii. AUTOMATIC FIRE DETECTION SYSTEMS  
 iii. AIR CONDITIONING SYSTEM & DISTRIBUTION (HVAC)  
 iv. EMERGENCY LIGHTING  
 v. PRIMARY WIRING DESIGN & DISTRIBUTION
  5. ALL WORK IS TO BE CARRIED OUT STRICTLY IN ACCORDANCE WITH IS STANDARDS (WHERE APPLICABLE) & BEST TRADE PRACTICES. ALL WORK MUST SATISFY THE REQUIREMENTS OF THE LOCAL AUTHORITIES.
  6. WHITE WATER DESIGN STUDIO TO APPROVE ALL CONTRACTORS' SETTINGS OUT & ALL CO-ORDINATION SHOP DRAWINGS PRIOR TO ALL MANUFACTURERS, CONTRACTORS, INSTALLERS & SPECIALISTS TO BE RESPONSIBLE FOR ENSURING THAT ALL OF THEIR COMMENCEMENT OF INSTALLATION
  7. WORKS FULLY COMPLY WITH THE REQUIREMENTS OF THE LOCAL AUTHORITIES & FIRE DEPARTMENT & THAT ALL SAFETY STANDARDS ARE MET THROUGHOUT.
  8. ALL FIT-OUT CONTRACTORS & SPECIALISTS TO PREPARE FULL SHOP DRAWINGS WITH SPECIFIC REFERENCE TO SITE CONDITIONS FOR WHITE WATER DESIGN STUDIO APPROVAL PRIOR TO MANUFACTURE & INSTALLATION AS APPROPRIATE TO THEIR TASK.



**AMMENDMENTS :**

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1.	16.01.2024	HVAC DLD PLAN - R0
2.	18.01.2024	HVAC DLD PLAN - R1
3.	20.01.2024	HVAC GFC LAYOUT - R0

**DRAWING NO :**  
**KFC-DSHY-HVAC-03** **RO**

**DRAWING TITLE :**  
**HVAC VENTILATION LAYOUT**

**LOCATION :**  
**DSHA-RGIA, HYDERABAD**

**DATE :** 20.01.2024  
**SCALE :** AS STATED  
**DRN. BY :** ARBAAZ  
**CHKD. BY :** RITESH

**PROJECT :**  
**KFC STORE AT DSHA-RGIA, HYDERABAD**

**CLIENT :**  
**TRAVEL FOODS SERVICES**

**WHITE WATER R**  
 DESIGN STUDIO

**WW**

HEAD OFFICE:-  
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**HVAC LEGENDS :**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	<b>ELECTROSTATIC AIR CLEANERS MAKE : RYDAIR</b>		EXHAUST AIR DUCT WITH 13mm Thk. XLPE INSULATION FROM OUTSIDE		VOLUME CONTROL DAMPER
	FRESH AIR DUCT WITH 13MM THK. XLPE INSULATION FROM OUTSIDE		SUPPLY AIR DUCT WITH 13mm Thk. XLPE INSULATION		0° SUPPLY AIR LINEAR GRILLE
	0° SUPPLY AIR SQUARE GRILLE		0° RETURN AIR SQUARE GRILLE		SUPPLY AIR ROUND DIFFUSER
	EXISTING AIRPORT SUPPLY AIR DUCT		0° RETURN AIR LINEAR GRILLE		

- NOTE:**
- FRESH AIR DUCT TO BE INSULATED FROM OUTSIDE WITH 13MM THICK XLPE INSULATION.
  - DRY SCRUBBER (EXHAUST AIR) DUCT TO BE INSULATED FROM OUTSIDE WITHIN STORE ONLY WITH 13MM THICK XLPE INSULATION.
  - ALL EXPOSED DUCTS TO MATCH FINAL CEILING PAINT
  - SUPPLY AIR GRILLE & DIFFUSER TO BE INSTALL WITH COLLAR DAMPER



ALL SUPPLY/EXHAUST/FRESH AIR DIFFUSERS & GRILLES TO BE PAINTED MATCHING WITH FALSE CEILING COLOUR OR SLAB PAINT IN NON CEILING AREA

**CEILING LEGEND -**

	BISON BOARD CEILING TO BE FINISHED WITH RED DUCO PAINT @ 2650MM HT. FROM AIRPORT FFL (ABOVE COUNTER)
	GYPSUM CEILING TO BE FINISHED WITH LUSTER PAINT @ 2800MM HT. FROM AIRPORT FFL. (0765 MORNING GLORY FROM ASIAN PAINT)-MOH AREA
	GYPSUM CEILING TO BE FINISHED WITH LUSTER PAINT @ 2500MM HT. FROM AIRPORT FFL (0765 MORNING GLORY FROM ASIAN PAINT)-MANAGER & DRY STORE AREA
	GYPSUM CEILING TO BE FINISHED WITH LUSTER PAINT @2750MM HT. FROM AIRPORT FFL. (0765 MORNING GLORY FROM ASIAN PAINT)-(LT PANEL AREA)
	SHERA PANEL PANELING @2648MM HT. FROM AIRPORT FFL. (ABOVE RAMP)
	METAL GRID CEILING @ 2355MM HT. FROM AIRPORT FFL. ( FOR BOH AREA)

**HVAC LEGENDS :**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ELECTROSTATIC AIR CLEANERS MAKE : RYDAIR		EXHAUST AIR DUCT WITH 13mm Thk. XLPE INSULATION FROM OUTSIDE		VOLUME CONTROL DAMPER
			FRESH AIR DUCT WITH 13MM THK. XLPE INSULATION FROM OUTSIDE		0° SUPPLY AIR LINEAR GRILLE
			SUPPLY AIR DUCT WITH 13mm Thk. XLPE INSULATION		0° FRESH AIR LINEAR GRILLE
			0° SUPPLY AIR SQUARE GRILLE		0° RETURN AIR SQUARE GRILLE
	EXISTING AIRPORT SUPPLY AIR DUCT		0° RETURN AIR LINEAR GRILLE		SUPPLY AIR ROUND DIFFUSER

**NOTE:**

- FRESH AIR DUCT TO BE INSULATED FROM OUTSIDE WITH 13MM THICK XLPE INSULATION.
- DRY SCRUBBER (EXHAUST AIR) DUCT TO BE INSULATED FROM OUTSIDE WITHIN STORE ONLY WITH 13MM THICK XLPE INSULATION.
- ALL EXPOSED DUCTS TO MATCH FINAL CEILING PAINT
- SUPPLY AIR GRILLE & DIFFUSER TO BE INSTALL WITH COLLAR DAMPER

**NOTES :**

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    - AUTOMATIC FIRE DETECTION SYSTEMS
    - AIR CONDITIONING SYSTEM & DISTRIBUTION (HVAC)
    - EMERGENCY LIGHTING
    - PRIMARY WIRING DESIGN & DISTRIBUTION
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**KEY PLAN :**



**AMMENDMENTS :**

S.NO.	REV. DATE	DESCRIPTION
1.	16.01.2024	HVAC DLD PLAN - R0
2.	18.01.2024	HVAC DLD PLAN - R1
3.	20.01.2024	HVAC GFC LAYOUT - R0

**DRAWING NO :**

KFC-DSHY-HVAC-04 **RO**

**DRAWING TITLE :**

**HVAC DIMENSIONS AND CEILING LAYOUT**

**LOCATION :**

**DSHA-RGIA, HYDERABAD**

DATE : 20.01.2024  
 SCALE : AS STATED  
 DRN. BY : ARBAAZ  
 CHKD. BY : RITESH

**PROJECT :**

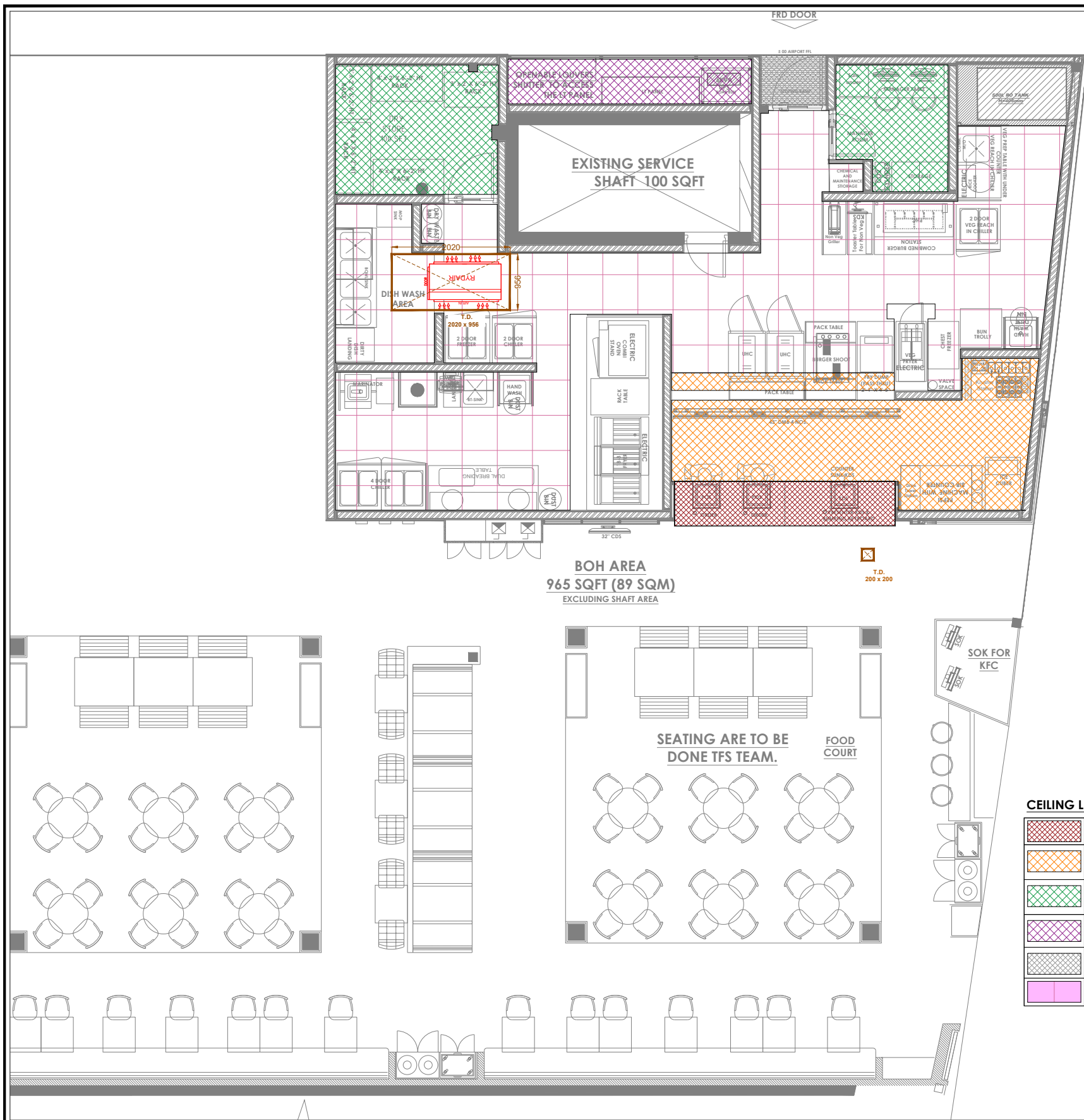
**KFC STORE AT DSHA-RGIA, HYDERABAD**

**CLIENT :**

**TRAVEL FOODS SERVICES**



HEAD OFFICE:-  
 Anchorage, off Govandi Station Rd  
 Near Amarnath Patil Ground, Govandi-(E)  
 Mumbai 400 088  
 TEL: +91 22 6740 7640.  
 Email: studio@whitewaterdesign.in



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    - AIR CONDITIONING SYSTEM & DISTRIBUTION (HVAC)
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**AMMENDMENTS :**

S.NO.	REV.DATE	DESCRIPTION
1.	16.01.2024	HVAC DLD PLAN - R0
2.	18.01.2024	HVAC DLD PLAN - R1
3.	20.01.2024	HVAC GFC LAYOUT - R0

**DRAWING NO :**  
**KFC-DSHY-HVAC-05** **R0**

**DRAWING TITLE :**  
**HVAC TRAP DOOR LAYOUT**

**LOCATION :**  
**DSHA-RGIA, HYDERABAD**

**DATE :** 20.01.2024  
**SCALE :** AS STATED  
**DRN. BY :** ARBAAZ  
**CHKD. BY :** RITESH

**PROJECT :**  
**KFC STORE AT DSHA-RGIA, HYDERABAD**

**CLIENT :**  
**TRAVEL FOODS SERVICES**

**WHITE WATER R**  
 DESIGN STUDIO

**WW**

HEAD OFFICE:-  
 Anchorage, off Govandi Station Rd  
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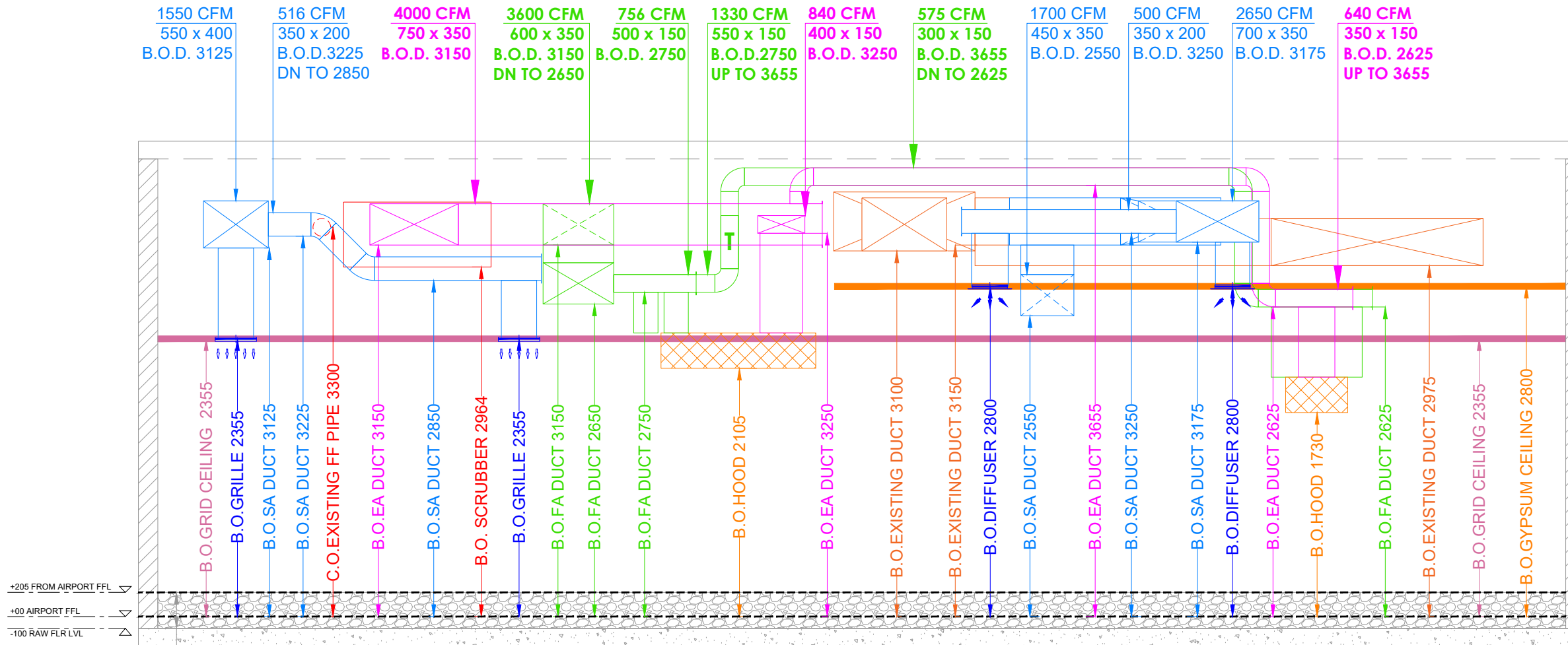
**HVAC LEGENDS :**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	<b>ELECTROSTATIC AIR CLEANERS MAKE : RYDAIR</b>		EXHAUST AIR DUCT WITH 13mm Thk. XLPE INSULATION FROM OUTSIDE		VOLUME CONTROL DAMPER
			FRESH AIR DUCT WITH 13MM THK. XLPE INSULATION FROM OUTSIDE		0° SUPPLY AIR LINEAR GRILLE
			SUPPLY AIR DUCT WITH 13mm Thk. XLPE INSULATION		0° FRESH AIR LINEAR GRILLE
			0° SUPPLY AIR SQUARE GRILLE		0° RETURN AIR SQUARE GRILLE
	EXISTING AIRPORT SUPPLY AIR DUCT		0° RETURN AIR LINEAR GRILLE		SUPPLY AIR ROUND DIFFUSER

- NOTE:**
- FRESH AIR DUCT TO BE INSULATED FROM OUTSIDE WITH 13MM THICK XLPE INSULATION.
  - DRY SCRUBBER (EXHAUST AIR) DUCT TO BE INSULATED FROM OUTSIDE WITHIN STORE ONLY WITH 13MM THICK XLPE INSULATION.
  - ALL EXPOSED DUCTS TO MATCH FINAL CEILING PAINT
  - SUPPLY AIR GRILLE & DIFFUSER TO BE INSTALL WITH COLLAR DAMPER



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**SECTION A-A**



**AMMENDMENTS :**

S.NO.	REV. DATE	DESCRIPTION
1.	16.01.2024	HVAC DLD PLAN - R0
2.	18.01.2024	HVAC DLD PLAN - R1
3.	20.01.2024	HVAC GFC LAYOUT - R0

**DRAWING NO :**  
**KFC-DSHY-HVAC-06** **RO**

**DRAWING TITLE :**  
**HVAC SECTION LAYOUT (SEC A-A)**

**LOCATION :**  
**DSHA-RGIA, HYDERABAD**

**DATE :** 20.01.2024  
**SCALE :** AS STATED  
**DRN. BY :** ARBAAZ  
**CHKD. BY :** RITESH

**PROJECT :**  
**KFC STORE AT DSHA-RGIA, HYDERABAD**

**CLIENT :**  
**TRAVEL FOODS SERVICES**

**WHITE WATER DESIGN STUDIO**

**WW**

**HEAD OFFICE:-**  
 Anchorage, off Govandi Station Rd  
 Near Amarnath Patil Ground, Govandi-(E)  
 Mumbai 400 088  
 TEL: +91 22 6740 7640.  
 Email: studio@whitewaterdesign.in

**HVAC LEGENDS :**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	<b>ELECTROSTATIC AIR CLEANERS MAKE : RYDAIR</b>		EXHAUST AIR DUCT WITH 13mm Thk. XLPE INSULATION FROM OUTSIDE		VOLUME CONTROL DAMPER
			FRESH AIR DUCT WITH 13MM THK. XLPE INSULATION FROM OUTSIDE		0° SUPPLY AIR LINEAR GRILLE
			SUPPLY AIR DUCT WITH 13mm Thk. XLPE INSULATION		0° FRESH AIR LINEAR GRILLE
			0° SUPPLY AIR SQUARE GRILLE		0° RETURN AIR SQUARE GRILLE
	EXISTING AIRPORT SUPPLY AIR DUCT		0° RETURN AIR LINEAR GRILLE		SUPPLY AIR ROUND DIFFUSER

- NOTE:**
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S.NO.	REV.DATE	DESCRIPTION
1.	16.01.2024	HVAC DLD PLAN - R0
2.	18.01.2024	HVAC DLD PLAN - R1
3.	20.01.2024	HVAC GFC LAYOUT - R0

**DRAWING NO :**  
**KFC-DSHY-HVAC-07** **R0**

**DRAWING TITLE :**  
**HVAC SECTION LAYOUT (SEC B-B)**

**LOCATION :**  
**DSHA-RGIA, HYDERABAD**

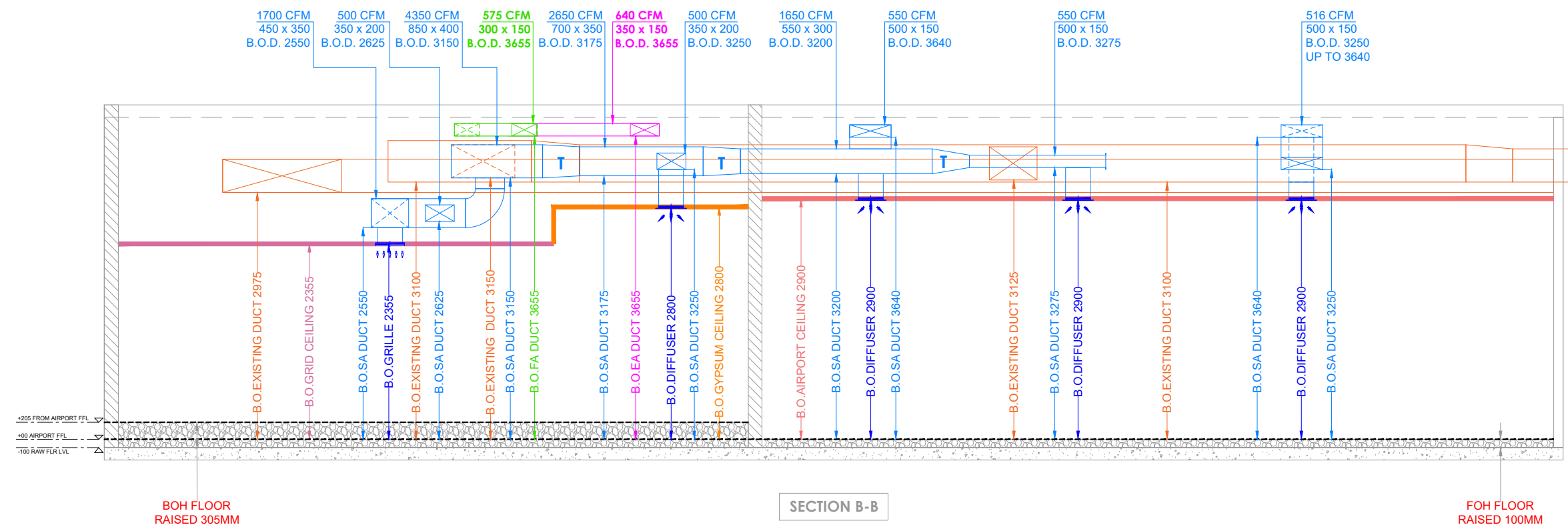
**DATE :** 20.01.2024  
**SCALE :** AS STATED  
**DRN. BY :** ARBAAZ  
**CHKD. BY :** RITESH

**PROJECT :**  
**KFC STORE AT DSHA-RGIA, HYDERABAD**

**CLIENT :**  
**TRAVEL FOODS SERVICES**



**HEAD OFFICE :-**  
 Anchorage, off Govandi Station Rd  
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**HVAC LEGENDS :**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	<b>ELECTROSTATIC AIR CLEANERS MAKE : RYDAIR</b>		EXHAUST AIR DUCT WITH 13mm Thk. XLPE INSULATION FROM OUTSIDE		VOLUME CONTROL DAMPER
			FRESH AIR DUCT WITH 13MM THK. XLPE INSULATION FROM OUTSIDE		0° SUPPLY AIR LINEAR GRILLE
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	EXISTING AIRPORT SUPPLY AIR DUCT		0° RETURN AIR LINEAR GRILLE		SUPPLY AIR ROUND DIFFUSER

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**KEY PLAN :**



**AMMENDMENTS :**

S.NO.	REV. DATE	DESCRIPTION
1.	16.01.2024	HVAC DLD PLAN - R0
2.	18.01.2024	HVAC DLD PLAN - R1
3.	20.01.2024	HVAC GFC LAYOUT - R0

**DRAWING NO :**

**KFC-DSHY-HVAC-08**

**R0**

**DRAWING TITLE :**

**HVAC SECTION LAYOUT (SEC C-C)**

**LOCATION :**

**DSHA-RGIA, HYDERABAD**

DATE : 20.01.2024

SCALE : AS STATED

DRN. BY : ARBAAZ

CHKD. BY : RITESH

**PROJECT :**

**KFC STORE AT DSHA-RGIA, HYDERABAD**

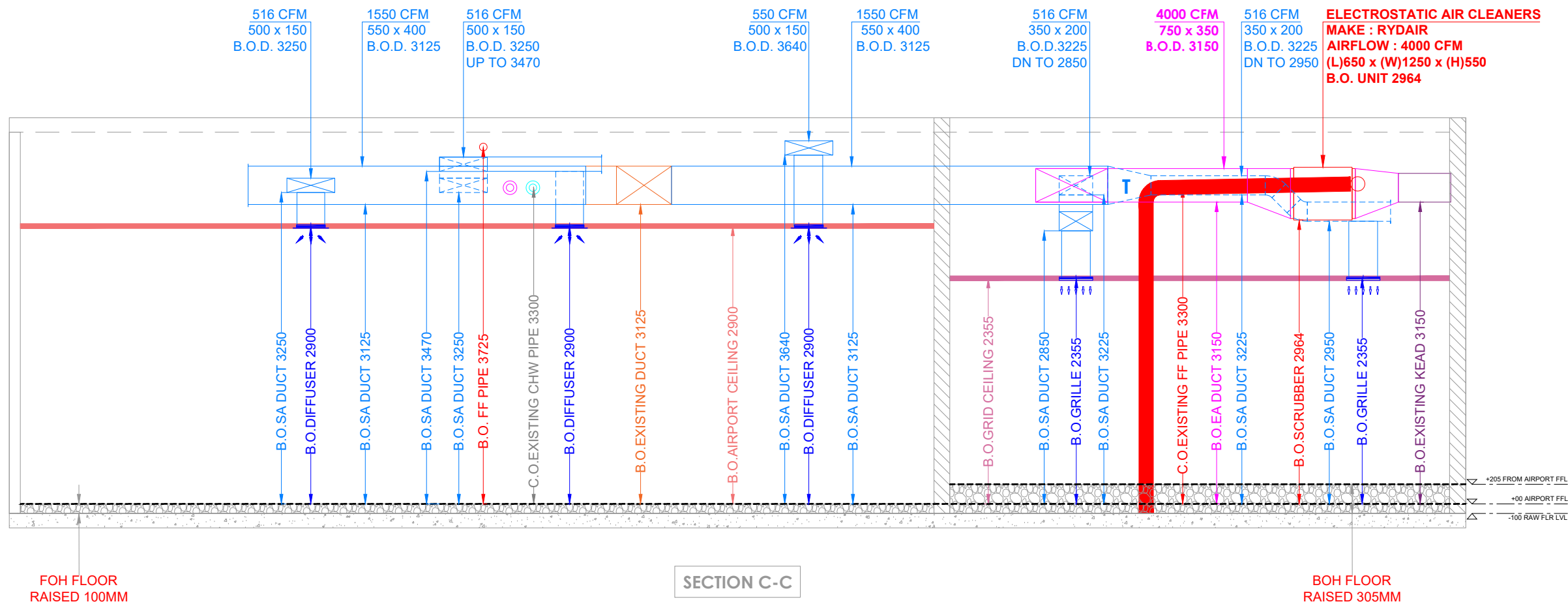
**CLIENT :**

**TRAVEL FOODS SERVICES**

**WHITE WATER DESIGN STUDIO**



HEAD OFFICE:-  
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**SECTION C-C**

**HVAC LEGENDS :**

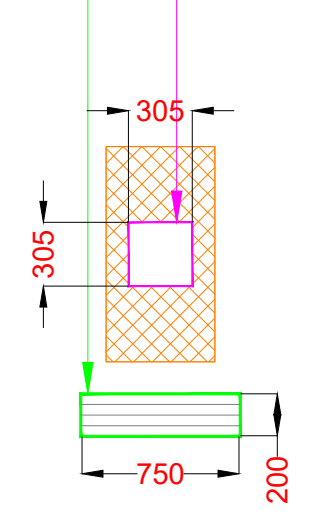
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
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**FRESH AIR 0° LINEAR GRILLE WITH VCD**  
**NECK SIZE: 750 x 200**  
**AIRFLOW : 575 CFM**

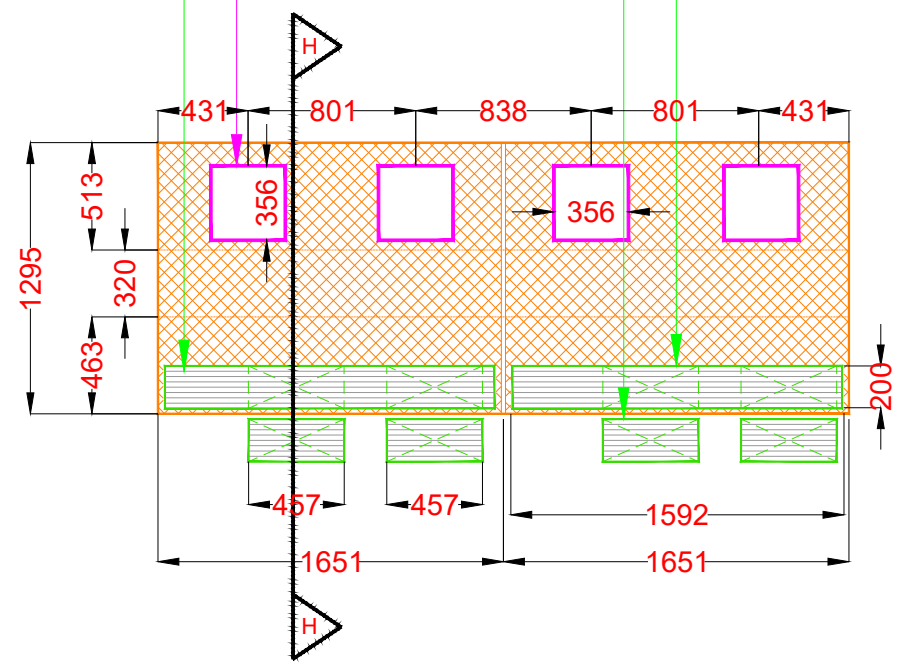
**EXHAUST AIR OPENING WITH VCD**  
**305 x 305**  
**640 CFM**



**VEG FRYER HOOD (PLAN VIEW)**

**#2 FRESH AIR 0° INCLINATION LINEAR GRILLE**  
**GRILLE SIZE - 1575 x 200**

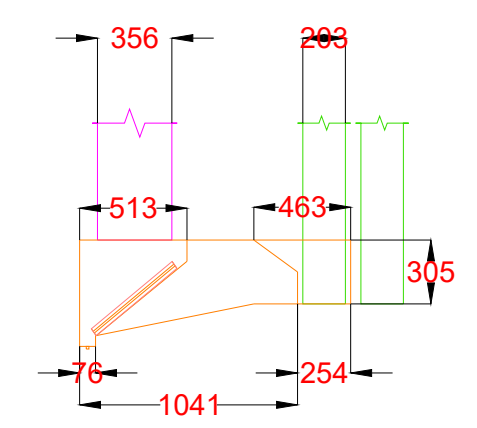
**#4 EXHAUST AIR OPENING WITH VCD**  
**356 x 356**  
**840 CFM EACH**



**NON VEG HOOD (PLAN VIEW)**

**#4 FRESH AIR 0° INCLINATION LINEAR GRILLE**  
**GRILLE SIZE - 457 x 200**

**#8 FRESH AIR COLLAR WITH VCD**  
**457 x 200**  
**378 CFM EACH**



**STANDARD HOOD (SECTION H-H)**

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**AMMENDMENTS :**

S.NO.	REV.DATE	DESCRIPTION
1.	16.01.2024	HVAC DLD PLAN - R0
2.	18.01.2024	HVAC DLD PLAN - R1
3.	20.01.2024	HVAC GFC LAYOUT - R0

**DRAWING NO :**  
**KFC-DSHY-HVAC-09** **R0**

**DRAWING TITLE :**  
**HVAC HOOD DETAILS LAYOUT**

**LOCATION :**  
**DSHA-RGIA, HYDERABAD**

**DATE :** 20.01.2024  
**SCALE :** AS STATED  
**DRN. BY :** ARBAAZ  
**CHKD. BY :** RITESH

**PROJECT :**  
**KFC STORE AT DSHA-RGIA, HYDERABAD**

**CLIENT :**  
**TRAVEL FOODS SERVICES**



**HEAD OFFICE:-**  
 Anchorage, off Govandi Station Rd  
 Near Amarnath Patil Ground, Govandi-(E)  
 Mumbai 400 088  
 TEL: +91 22 6740 7640.  
 Email: studio@whitewaterdesign.in

**HVAC LEGENDS :**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	<b>ELECTROSTATIC AIR CLEANERS MAKE : RYDAIR</b>		EXHAUST AIR DUCT WITH 13mm Thk. XLPE INSULATION FROM OUTSIDE		VOLUME CONTROL DAMPER
			FRESH AIR DUCT WITH 13MM THK. XLPE INSULATION FROM OUTSIDE		0° SUPPLY AIR LINEAR GRILLE
			SUPPLY AIR DUCT WITH 13mm Thk. XLPE INSULATION		0° FRESH AIR LINEAR GRILLE
			0° SUPPLY AIR SQUARE GRILLE		0° RETURN AIR SQUARE GRILLE
	EXISTING AIRPORT SUPPLY AIR DUCT		0° RETURN AIR LINEAR GRILLE		SUPPLY AIR ROUND DIFFUSER

- NOTE:**
- FRESH AIR DUCT TO BE INSULATED FROM OUTSIDE WITH 13MM THICK XLPE INSULATION.
  - DRY SCRUBBER (EXHAUST AIR) DUCT TO BE INSULATED FROM OUTSIDE WITHIN STORE ONLY WITH 13MM THICK XLPE INSULATION.
  - ALL EXPOSED DUCTS TO MATCH FINAL CEILING PAINT
  - SUPPLY AIR GRILLE & DIFFUSER TO BE INSTALL WITH COLLAR DAMPER