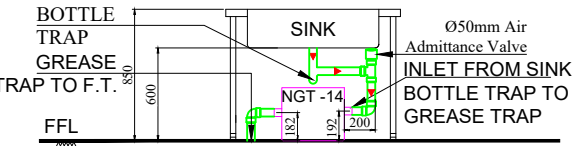
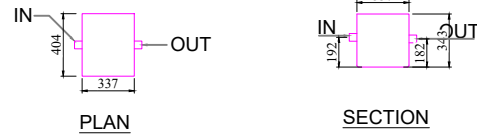


### GREASE TRAP (MK-04)

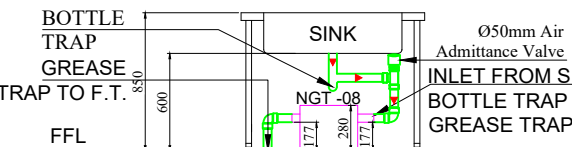


SCHEMATIC - GREASE TRAP-EXT -02 CONNECTION DETAILS.  
 A) INLET @ 203mm ABOVE FFL  
 B) OUTLET @ 193mm ABOVE FFL

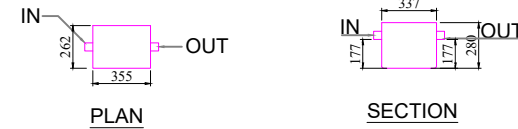


NUGREEN GREASE SEPARATOR "NGT -14"  
 A) HOLDING CAPACITY-25.5 LITERS  
 B) FLOW-28 LPM

### GREASE TRAP (MK-04)



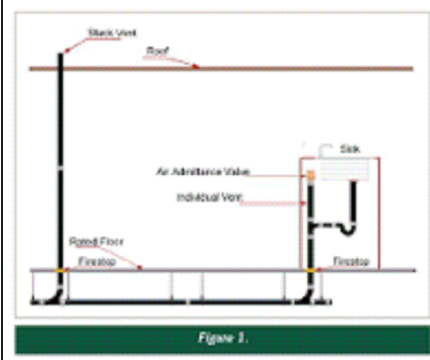
SCHEMATIC - GREASE TRAP CONNECTION DETAILS.  
 A) INLET @ 177mm ABOVE FFL  
 B) OUTLET @ 177mm ABOVE FFL



NUGREEN GREASE SEPARATOR "NGT -08"  
 A) HOLDING CAPACITY-15.9 LITERS  
 B) FLOW-18 LPM

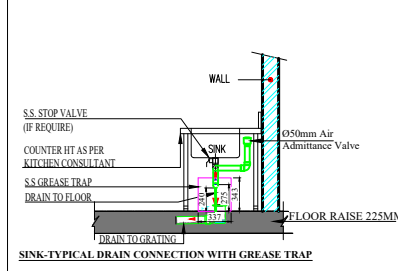
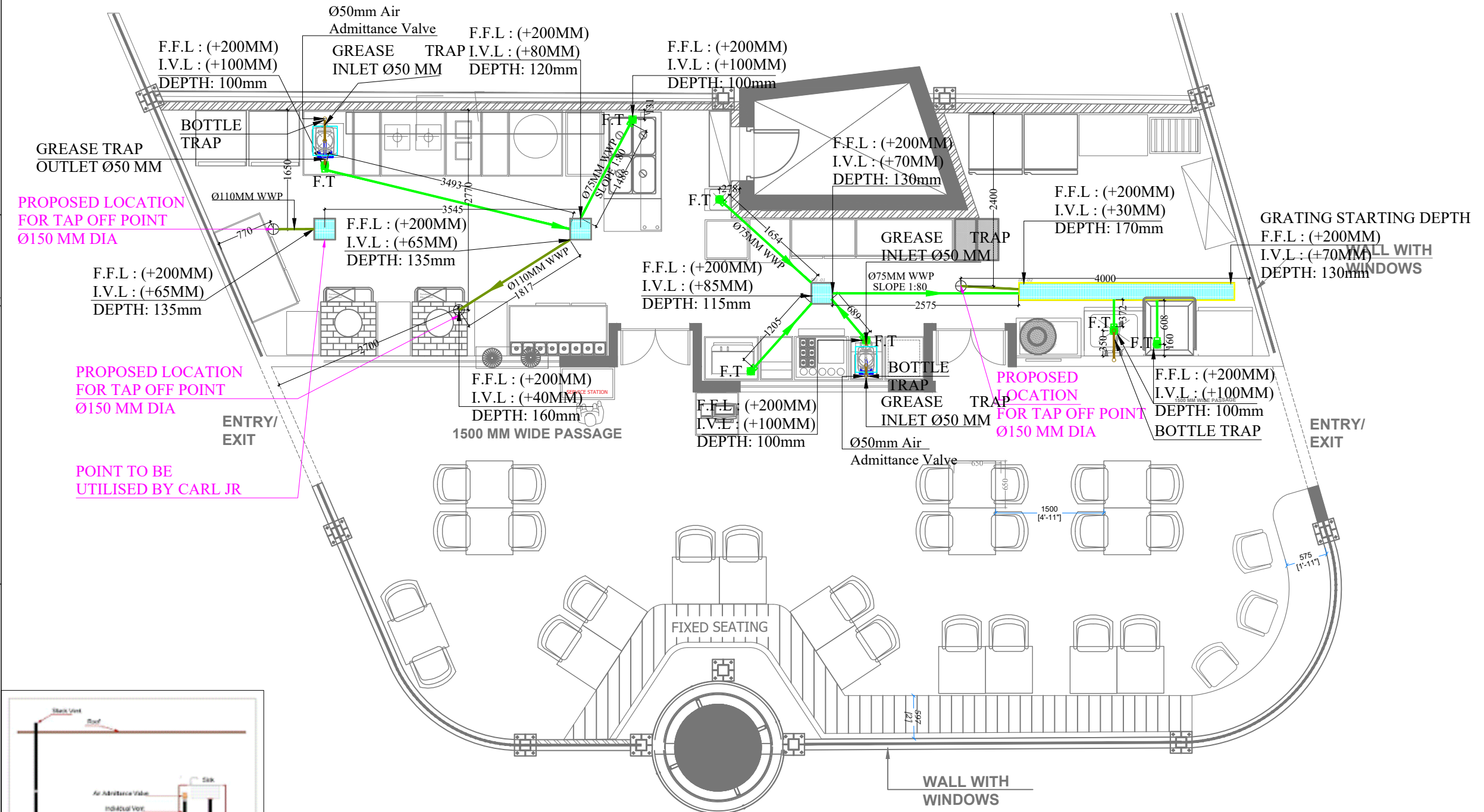
#### INSTRUCTIONS TO CONTRACTOR-DRAINAGE SYSTEM :-

- 1) WATER PRESSURE/LEAKAGE TESTING SHALL BE CARRIED OUT BY CONTRACTOR IN PRESENCE OF PROJECT MANAGEMENT TEAM.
- 2) CONTRACTOR SHALL ENSURE THE LEAK PROOF PIPE JOINTS. FOR UPVC PIPES, SOLVENT CEMENT SHALL BE USED AS PER STANDARD OF ASTM D-2564. FOR CPVC PIPES, ONLY CPVC SOLVENT CEMENT CONTRA TO ASTM F-493 SHALL BE USED.
- 3) FUTURE TO SINK PIPING WORK IF ANY SHALL BE CARRIED OUT BY CONTRACTOR ONLY AFTER RECEIPT OF APPROVAL FROM PROJECT MANAGEMENT TEAM
- 4) CONTRACTOR SHALL ENSURE THE MAIN CHAMBER OUTLET FIXED WITH MESH, THIS IS SUBJECT APPLICABLE.
- 5) CONTRACTOR SHALL FOLLOW THE PIPES SUPPORT DETAILS AS PER THE SPECIFICATIONS. ANY IMPROPER SUPPORT WILL BE REJECTED.
- 6) WATER PROOFING SHALL BE CARRIED OUT IN THE ENTIRE AREA AS REQUIRED. CONTRACTOR SHALL ENSURE THE WATER PROOFING DETAILS SPECIFIED BY SPECIALIZED CONSULTANT. THE SAME SHALL BE CARRIED OUT IN CO-ORDINATION WITH PROJECT MANAGEMENT TEAM.
- 7) PIPING WORK SHOULD BE STARTED AFTER THE COMPLETION OF FLOOR WATER PROOFING WORK AFTER GETTING IT VERIFIED WITH PROJECT MANAGEMENT TEAM.
- 8) READ THIS DRAWING WITH INTERIOR DESIGN DRAWING TO AVOID ANY DISCRETELY.
- 9) DRAIN PIPE SLOPE 1:80mm.
- 10) DRAIN PIPE SUPPORTS FOR HORIZONTAL PIPES IN WALL SHALL BE UNIVERSAL TYPE COVERED WITH RUBBER GASKET.
- 11) CONTRACTOR SHALL ENSURE THE DESIRED SLOPE FOR DRAINAGE, RESPONSIBILITY SHALL BE LIES WITH CONCESSIONAIRE.



**NOTE**  
 THIS POINT TO BE UTILISED BY CARLS JR PLEASE MENTION THIS THERE. ALSO KINDLY CONSIDER DRAINAGE ACCORDING TO THESE TAP OFFS.

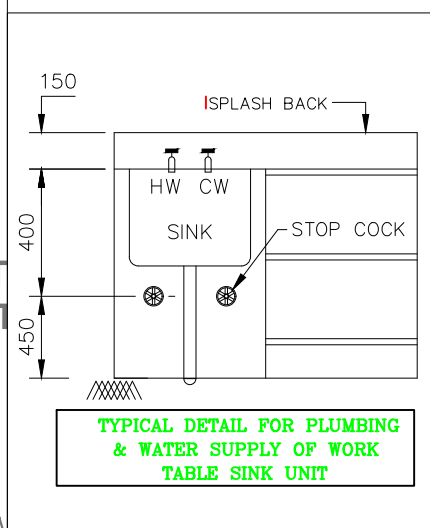
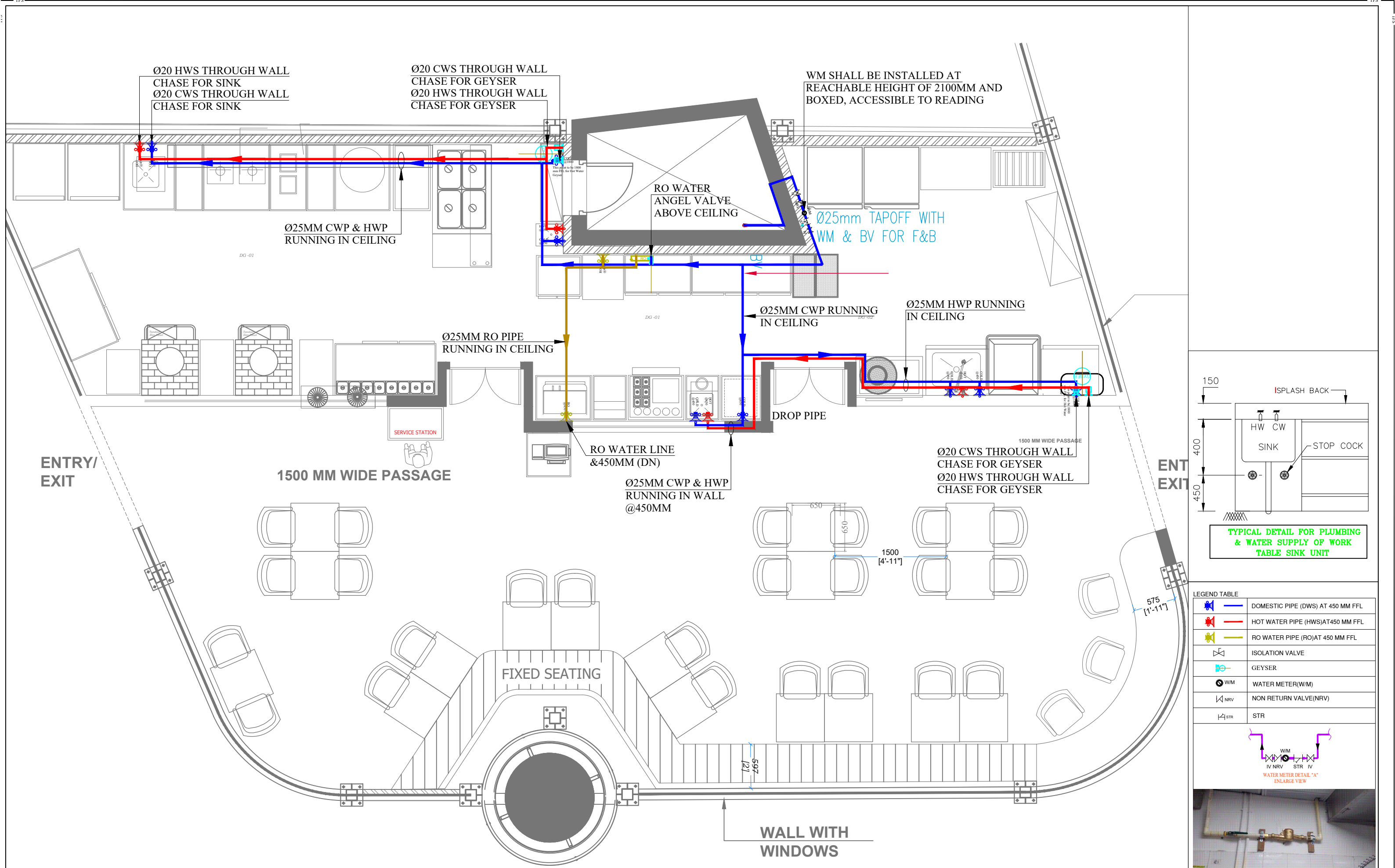
# DRAINAGE LAYOUT



**LAYOUT**      **SCALE- NTS**

<b>CONSULTANT</b>  AR, RITIKA MALIK & AR, SOURABH KHURANA	<b>MEP - CONSULTANT</b>  PILLARPLUS PVT LTD-The New Age MEP Consultancy Firm Plot No. 45,46 guru Jambheshwar Nagar A, Vijay Dwar, Gandhipath, Jaipur-302021 JAIPUR   GURGAON   BANGLORE Email: contact@pillarplus.com   Contact No: +91-9799888303   Website: www.pillarplus.com	AIRPORT LOGO # HYDERABAD: DHABA 1986	 FOR :- <b>TRAVEL FOOD SERVICES PVT LTD</b> VAIBHAV DOSHI (HEAD - DESIGN) vaibhav.doshi@travelfoodservices.com	<b>ISSUES AND REVISIONS</b>	STAMP & SIGN ISSUED/SUBMITTED	ISSUED FOR: A. FOR YOUR COMMENTS / APPROVAL. ISSUED FOR: B. FOR YOUR RECORD & INFORMATION. C. PRELIMINARY FOR TENDER. D. ADVANCE COPY NOT FOR EXECUTION. E. APPROVED FOR CONSTRUCTION.	Project No : 000 Scale : --- Drawn by : NAMAN Check By : SOURABH Plot Date : 15-05-2024	SHEET TITLE: <b>LAYOUT - 1</b> SHEET NO: <b>DRAINAGE PLAN</b> REVISION NO: <b>000</b>											
				<table border="1"> <thead> <tr> <th>Sr. Nos</th> <th>Revision</th> <th>Date</th> </tr> </thead> <tbody> <tr><td>01</td><td></td><td></td></tr> <tr><td>02</td><td></td><td></td></tr> <tr><td>03</td><td></td><td></td></tr> <tr><td>04</td><td></td><td></td></tr> <tr><td>05</td><td></td><td></td></tr> </tbody> </table>					Sr. Nos	Revision	Date	01			02			03	
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LEGEND TABLE

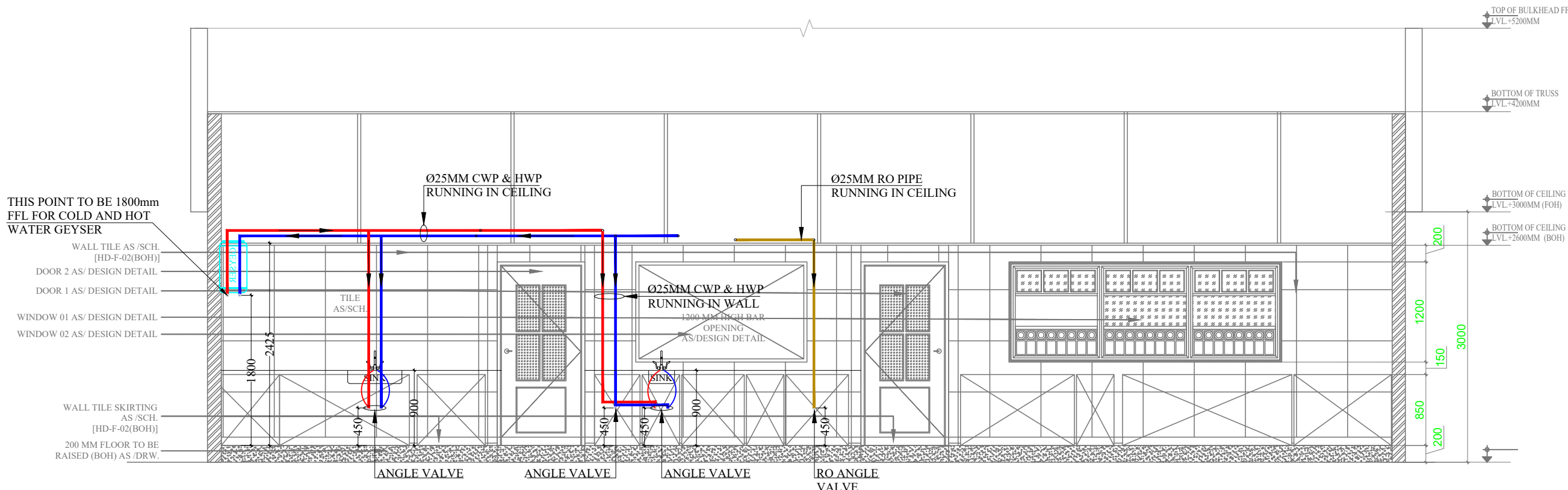
	DOMESTIC PIPE (DWS) AT 450 MM FFL
	HOT WATER PIPE (HWS) AT 450 MM FFL
	RO WATER PIPE (RO) AT 450 MM FFL
	ISOLATION VALVE
	GEYSER
	WATER METER (W/M)
	NON RETURN VALVE (NRV)
	STR



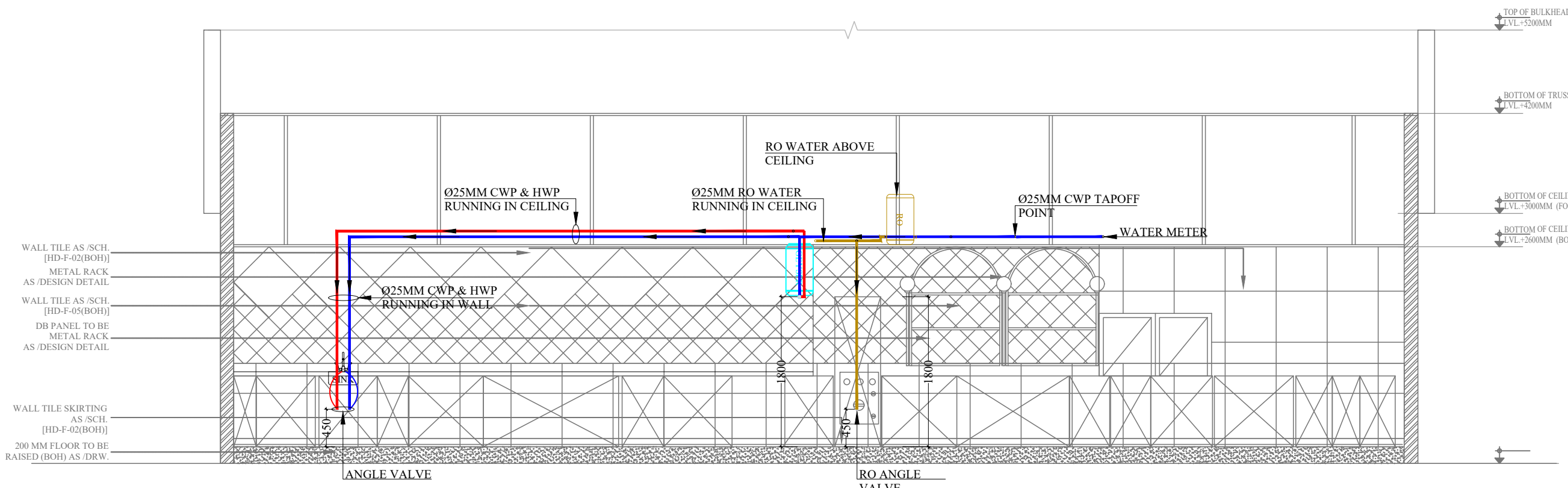
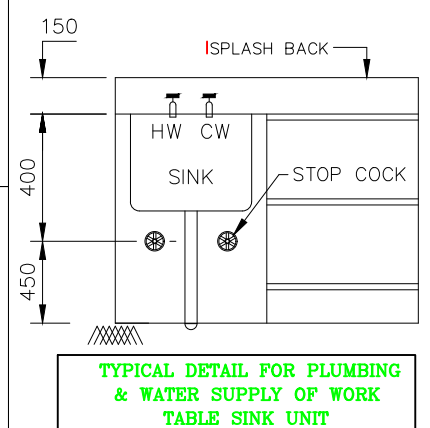
LAYOUT SCALE- NTS

CONSULTANT  AR. RITIKA MALIK & AR. SOURABH KHURANA	MEP - CONSULTANT  PILLARPLUS PVT LTD-The New Age MEP Consultancy Firm Plot No. 45, 46 guru Jambheshwar Nagar A, Vijay Dwar, Gandhipath, Jaipur-302021 JAIPUR   GURGAON   BANGLORE Email: contact@pillarplus.com   Contact No: +91-979858303   Website: www.pillarplus.com	AIRPORT LOGO # HYDERABAD: DHABA 1986	 FOR :- <b>TRAVEL FOOD SERVICES PVT LTD</b> VAIBHAV DOSHI (HEAD - DESIGN) vaibhav.doshi@travelfoodservices.com NOTES:- All dimensions are in mm unless otherwise specified., Any discrepancies should be clarified with the architect.	ISSUES AND REVISIONS <table border="1"> <thead> <tr> <th>Sr. Nos</th> <th>Revision</th> <th>Date</th> </tr> </thead> <tbody> <tr><td>01</td><td></td><td></td></tr> <tr><td>02</td><td></td><td></td></tr> <tr><td>03</td><td></td><td></td></tr> <tr><td>04</td><td></td><td></td></tr> <tr><td>05</td><td></td><td></td></tr> </tbody> </table>	Sr. Nos	Revision	Date	01			02			03			04			05			STAMP & SIGN ISSUED/SUBMITTED ISSUED FOR: A. FOR YOUR COMMENTS / APPROVAL. ISSUED FOR: B. FOR YOUR RECORD & INFORMATION. C. PRELIMINARY FOR TENDER. D. ADVANCE COPY NOT FOR EXECUTION. E. APPROVED FOR CONSTRUCTION.	Project No : 000 Scale : --- Drawn by : NAMAN Checke By : SOURABH Plot Date : 15-05-2024	SHEET TITLE: <b>LAYOUT - 1</b> SHEET NO: <b>WATER SUPPLY PLAN</b> REVISION NO: <b>000</b>
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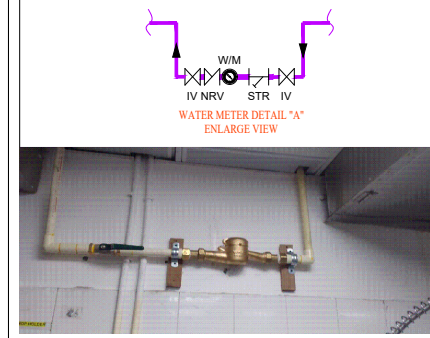
SECTIONAL ELEVATION - CC'



SECTIONAL ELEVATION - DD'

LEGEND TABLE

	DOMESTIC PIPE (DWS) AT 450 MM FFL
	HOT WATER PIPE (HWS) AT 450 MM FFL
	RO WATER PIPE (RO) AT 450 MM FFL
	ISOLATION VALVE
	GEYSER
	WATER METER(W/M)
	NON RETURN VALVE(NRV)
	STR

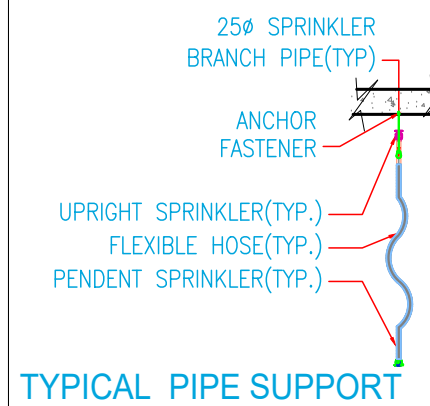
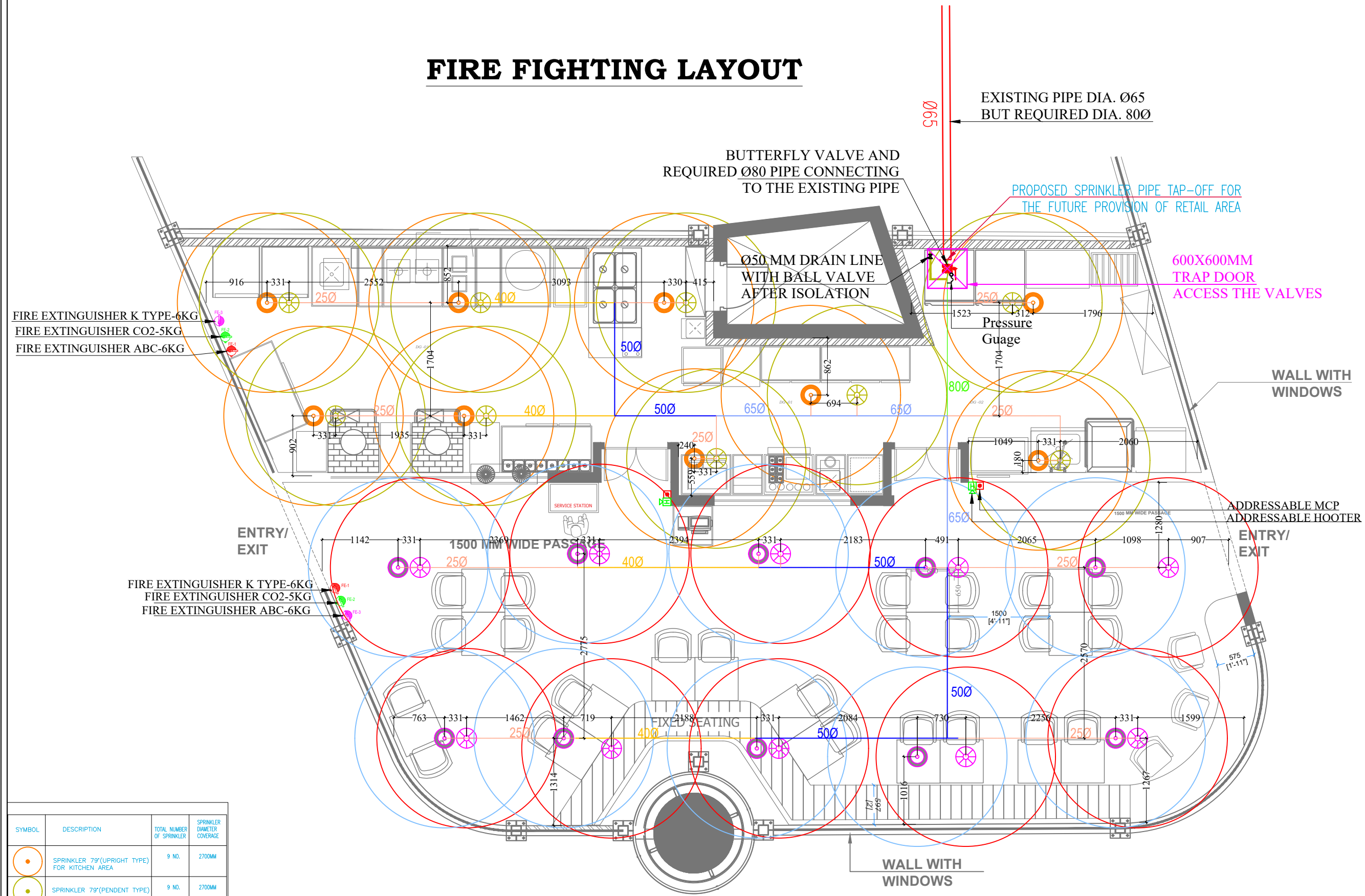


LAYOUT SCALE- NTS

<p>CONSULTANT</p> <p>AR. RITIKA MALIK &amp; AR. SOURABH KHURANA</p>	<p>MEP - CONSULTANT</p> <p>PILLARPLUS PVT LTD-The New Age MEP Consultancy Firm Plot No. 45,46 guru Jambheshwar Nagar A, Vijay Dwar, Gandhipath, Jaipur-302021 JAIPUR   GURGAON   BANGLORE Email: contact@pillarplus.com   Contact No: +91-9798058303   Website: www.pillarplus.com</p>	<p>AIRPORT LOGO</p> <p># HYDERABAD: DHABA 1986</p>	<p>FOR :-</p> <p><b>TRAVEL FOOD SERVICES PVT LTD</b></p> <p>VAIBHAV DOSHI (HEAD - DESIGN) vaibhav.doshi@travelfoodservices.com</p>	<p>ISSUES AND REVISIONS</p> <table border="1"> <tr> <th>Sr. Nos</th> <th>Revision</th> <th>Date</th> </tr> <tr> <td>01</td> <td></td> <td></td> </tr> <tr> <td>02</td> <td></td> <td></td> </tr> <tr> <td>03</td> <td></td> <td></td> </tr> <tr> <td>04</td> <td></td> <td></td> </tr> <tr> <td>05</td> <td></td> <td></td> </tr> </table>	Sr. Nos	Revision	Date	01			02			03			04			05			<p>STAMP &amp; SIGN</p> <p>ISSUED/SUBMITTED</p>	<p>ISSUED FOR</p> <ul style="list-style-type: none"> <li>A. FOR YOUR COMMENTS / APPROVAL.</li> <li>B. FOR YOUR RECORD &amp; INFORMATION.</li> <li>C. PRELIMINARY FOR TENDER.</li> <li>D. ADVANCE COPY NOT FOR EXECUTION.</li> <li>E. APPROVED FOR CONSTRUCTION.</li> </ul>	<p>Project No : 000</p> <p>Scale : ---</p> <p>Drawn by : NAMAN</p> <p>Checke By : SOURABH</p> <p>Plot Date : 15-05-2024</p>	<p>SHEET TITLE:</p> <p><b>LAYOUT - 1</b></p> <p>SHEET NO:</p> <p><b>WATER SUPPLY SECTION PLAN</b></p> <p>REVISION NO:</p> <p><b>000</b></p>
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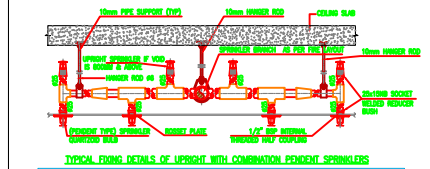
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# FIRE FIGHTING LAYOUT



ORDINARY HAZARD PIPE SCHEDULE:  
(AS PER IS-15105:2002 GUIDELINES)

PIPE DIA.	NO. OF SPRINKLER
25Ø	2 SPRINKLER
32Ø	3 SPRINKLER
40Ø	5 SPRINKLER
50Ø	10 SPRINKLER
65Ø	20 SPRINKLER
80Ø	40 SPRINKLER
100Ø	100 SPRINKLER
125Ø	160 SPRINKLER
150Ø	275 SPRINKLER



FIRE LEGEND	
SYMBOL	DESCRIPTION
	SPRINKLER 68"(PENDENT TYPE)
	SPRINKLER 68"(UPRIGHT TYPE)
	SPRINKLER 79"(PENDENT TYPE)
	SPRINKLER 79"(UPRIGHT TYPE)
	EXTINGUISHER 4.5Kg CAPACITY
	ABC 6.0 KG TYPE EXTINGUISHER
	FIRE EXTINGUISHER K TYPE-6KG
	ADDRESSABLE MCP
	ADDRESSABLE HOOTER
	BUTTERFLY VALVE
	BALL VALVE

SPRINKLER PIPE - G.I "C" PIPES

	01 TO 02 -25Ø
	02 TO 03 -32Ø
	03 TO 05 -40Ø
	05 TO 10 -50Ø
	10 TO 20 -65Ø
	20 TO 40 -80Ø




SYMBOL	DESCRIPTION	TOTAL NUMBER OF SPRINKLER	SPRINKLER DIAMETER COVERAGE
	SPRINKLER 79"(UPRIGHT TYPE) FOR KITCHEN AREA	9 NO.	2700MM
	SPRINKLER 79"(PENDENT TYPE) FOR KITCHEN AREA	9 NO.	2700MM
	SPRINKLER 68"(PENDENT TYPE)	10 NO.	2700MM
	SPRINKLER 68"(UPRIGHT TYPE)	10 NO.	2700MM

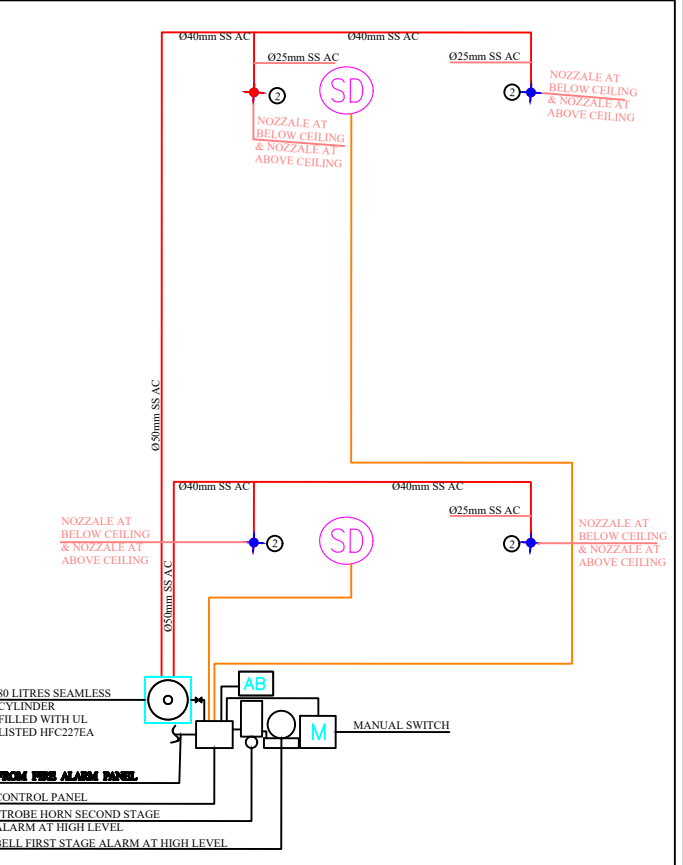
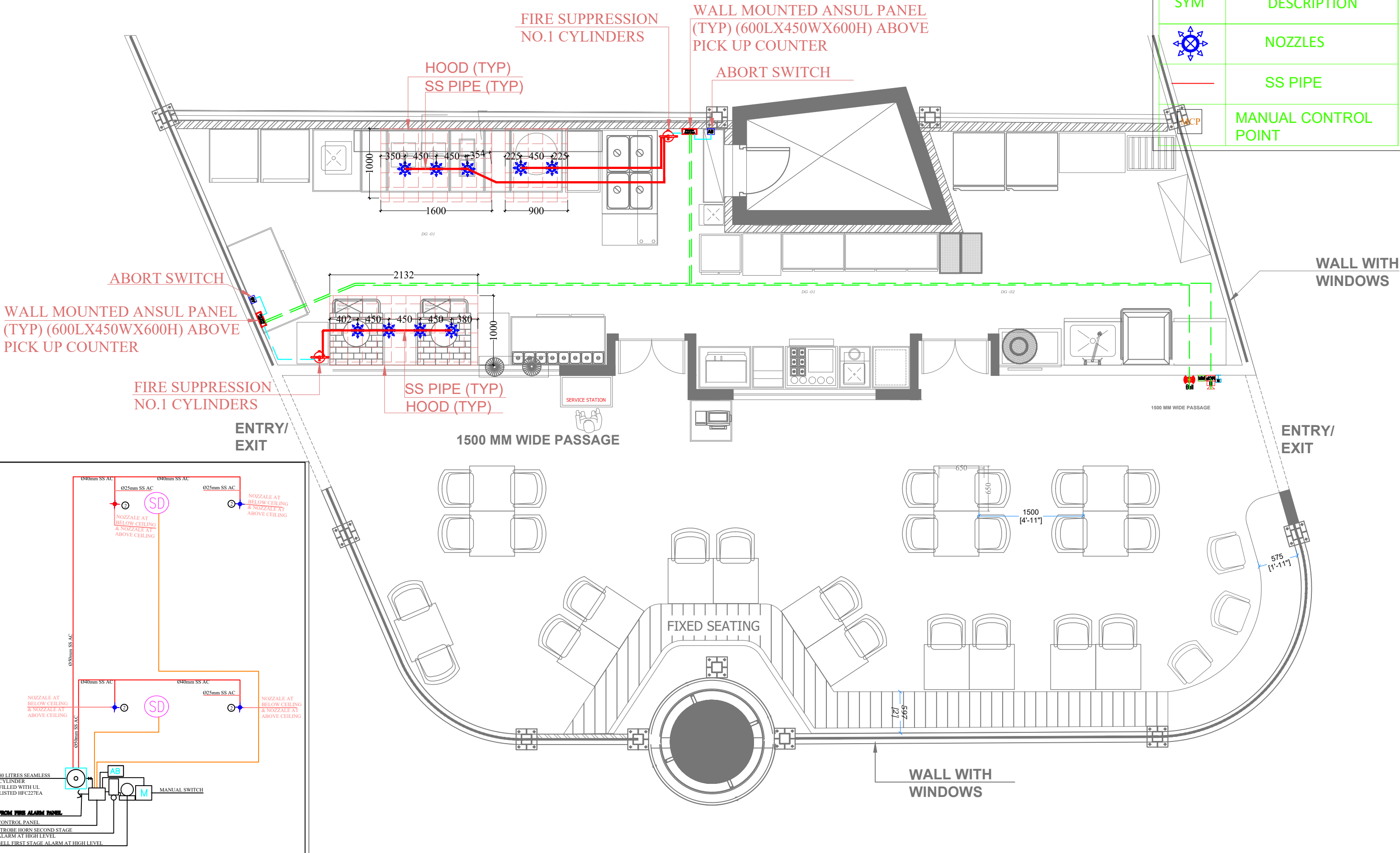
LAYOUT SCALE- NTS

<p>CONSULTANT</p> <p>AR. RITIKA MALIK &amp; AR. SOURABH KHURANA</p>	<p>MEP - CONSULTANT</p> <p>PILLARPLUS PVT LTD-The New Age MEP Consultancy Firm Plot No. 45,46 guru Jambheshwar Nagar A, Vijay Dwar, Gandhipath, Jaipur-302021 JAIPUR   GURGAON   BANGLORE Email: contact@pillarplus.com   Contact No: +91-9799858301   Website: www.pillarplus.com</p>	<p>AIRPORT LOGO</p> <p># HYDERABAD: DHABA 1986</p>	<p>FOR :- TRAVEL FOOD SERVICES PVT LTD</p> <p>VAIBHAV DOSHI (HEAD - DESIGN) vailbhav.doshi@travelfoodservices.com</p>	<p>ISSUES AND REVISIONS</p> <table border="1"> <thead> <tr> <th>Sr. Nos</th> <th>Revision</th> <th>Date</th> </tr> </thead> <tbody> <tr><td>01</td><td></td><td></td></tr> <tr><td>02</td><td></td><td></td></tr> <tr><td>03</td><td></td><td></td></tr> <tr><td>04</td><td></td><td></td></tr> <tr><td>05</td><td></td><td></td></tr> </tbody> </table>	Sr. Nos	Revision	Date	01			02			03			04			05			<p>STAMP &amp; SIGN</p> <p>ISSUED/SUBMITTED</p>	<p>ISSUED FOR: A. FOR YOUR COMMENTS / APPROVAL. ISSUED FOR: B. FOR YOUR RECORD &amp; INFORMATION. C. PRELIMINARY FOR TENDER. D. ADVANCE COPY NOT FOR EXECUTION. E. APPROVED FOR CONSTRUCTION.</p>	<p>Project No : 000 Scale : --- Drawn by : NAMAN Checke By : SOURABH Plot Date : 15-05-2024</p>	<p>SHEET TITLE: LAYOUT - 1</p> <p>SHEET NO: FIRE FIGHTING PLAN</p> <p>REVISION NO: 000</p>
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**FIRE FIGHTING LEGEND:-**

SYM	DESCRIPTION
	NOZZLES
	SS PIPE
	MANUAL CONTROL POINT



**LAYOUT**      **SCALE- NTS**

<b>CONSULTANT</b>  AR, RITIKA MALIK & AR, SOURABH KHURANA	<b>MEP - CONSULTANT</b>  PILLARPLUS PVT LTD-The New Age MEP Consultancy Firm Plot No. 45,46 guru Jambheshwar Nagar A, Vijay Dwar, Gandhipath, Jaipur-302021 JAIPUR   GURGAON   BANGLORE Email: contact@pillarplus.com   Contact No: +91-9799883003   Website: www.pillarplus.com	AIRPORT LOGO  # HYDERABAD: DHABA 1986	 <b>Travel Food Services</b>	FOR :- <b>TRAVEL FOOD SERVICES PVT LTD</b> VAIBHAV DOSHI (HEAD - DESIGN) vaibhav.doshi@travelfoodservices.com	<b>ISSUES AND REVISIONS</b>	STAMP & SIGN  ISSUED/SUBMITTED	ISSUED FOR: <ul style="list-style-type: none"> <li>A. FOR YOUR COMMENTS / APPROVAL.</li> <li>B. FOR YOUR RECORD &amp; INFORMATION.</li> <li>C. PRELIMINARY FOR TENDER.</li> <li>D. ADVANCE COPY NOT FOR EXECUTION.</li> <li>E. APPROVED FOR CONSTRUCTION.</li> </ul>	Project No : 000 Scale : --- Drawn by : NAMAN Checke By : SOURABH Plot Date : 15-05-2024	SHEET TITLE: <b>LAYOUT - 1</b> SHEET NO: <b>FIRE SUPPRESSION</b>	REVISION NO: <b>000</b>									
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**DESIGN SHEET - ZONE DEFENSE - (AMEREX)**

Project: DHABA 1986 AT Hyderabad Airport

Design Sheet No. PP-0613

Date :- 22.04.2024

3.75 Gal  
(14.2 Ltr.)      6.14 Gal  
(23.24 Ltr.)

S.NO	Hood Type	Hood Name	Hood Size (mm)	Qty of Hood	Plenum Nozzle			Duct Nozzle			Appliance Nozzle				Total Flow Point	Total Nozzle	Total Appliance Nozzle	Combined System Flow Points	3.75- 11 FL	6.14 - 18 FL
					(Part No.)	Qty	1 Flow Point	(Part No.)	Qty	1 Flow Point	(Part No.)	Qty	2 Flow Point	Appliance Details						
1	Wall Type	Combined System for Hood-1 & Hood-2	(900mm + 1600) X 1100mm	1	11982	2	2	16416	3	3	14178	5	10	Induction Range-2, Hot Plate-1, Tawa-1	15	10	5	15		1
2	Wall Type	Hood-3	2130mm X 1000mm	1	11982	1	1	16416	2	2	14178	4	8	Electric Tandoor-2	11	7	4	11	1	
				2		3	3		5	5		9	18		26	17	9	26	1	1

**PROJECT - DHABA 1986 HEYDRABAD AIRPORT**

**Grease Trap Selection Method**

This method depends on the no.of fixture unit will be connected to grease Trap or how Many Flow of the Sink as per NBC-2016

**GREASE TRAP SINK-1**

No. of Kitchen Sink (Work table with sink & Cross Bracing-450x600x850+50)	=	1	Unit
Flow of the Kitchen Sink	=	8	LPM
Total Flow of Sink Litre/Min	=	8	LPM
For one -minute sink drain	=	8	LPM
For two -minute sink drain	=	16	LPM
<b>Selected Grease Trap from Nugreen Catalogue NGT-8</b>	<b>=</b>	<b>18</b>	<b>LPM</b>

**GREASE TRAP-2 kitchen sink**

No. of Kitchen Sink (Work table with sink & Cross Bracing-700x900x850+150)	=	1	Unit
Flow of the Kitchen Sink	=	8	LPM
Total Flow of Sink Litre/Min	=	8	LPM
For two -minute sink drain	=	16	LPM
For three -minute sink drain	=	24	LPM
<b>Selected Grease Trap from Nugreen Catalogue NGT-14</b>	<b>=</b>	<b>28</b>	<b>LPM</b>

**4.7.3.3** The maximum flow rate and flush volumes shall be as given below:

<i>Plumbing Fixtures/Fittings</i>	<i>Maximum Flow Rate</i>
Water closets	6 litre/flush
Urinals	3.8 litre/flush
Lavatory, metered faucet (Public)	1 litre/use
Lavatory, faucet (Private)	8 litre/min
Sink, faucet	8 litre/min
Bidet, hand held spray	8 litre/min
Shower head	10 litre/min

NOTE — The maximum flow rates of plumbing fixtures and fittings provided are at the pressure of 0.42 N/mm<sup>2</sup>. Water closet with dual flush cistern and urinals with reduced flush volumes are recommended. Further, users/designers are encouraged to use low flow fixtures.

**Nugreen Grease separator " NGT 8/14/20/30/40/50/70/100 "**

Grease Trap SS 304	Inlet/Outlet (mm)	Holding Capacity (Litre)	Flow (Lit/min)	Bottom to Centre of Inlet (A) (mm)	Bottom to Centre of outlet (B) (mm)	Width (mm)	Length (mm)	Height (mm)	Grease capacity (kg)
NGT 8	50	15.9	18	177	177	262	355	280	3
NGT 14	50	25.5	28	203	193	337	404	303	7
NGT 20	60	34.3	38	203	193	362	503	303	9
NGT 30	75	47.5	57	256	246	400	512	343	13
NGT 40	87.5	57.5	75.5	287	277	400	562	375	18
NGT 50	87.5	72	95	300	290	437	612	412	23
NGT 70	87.5	104	132	353	343	450	712	481	32
NGT 100	112	156	189	406	396	556	762	537	45

