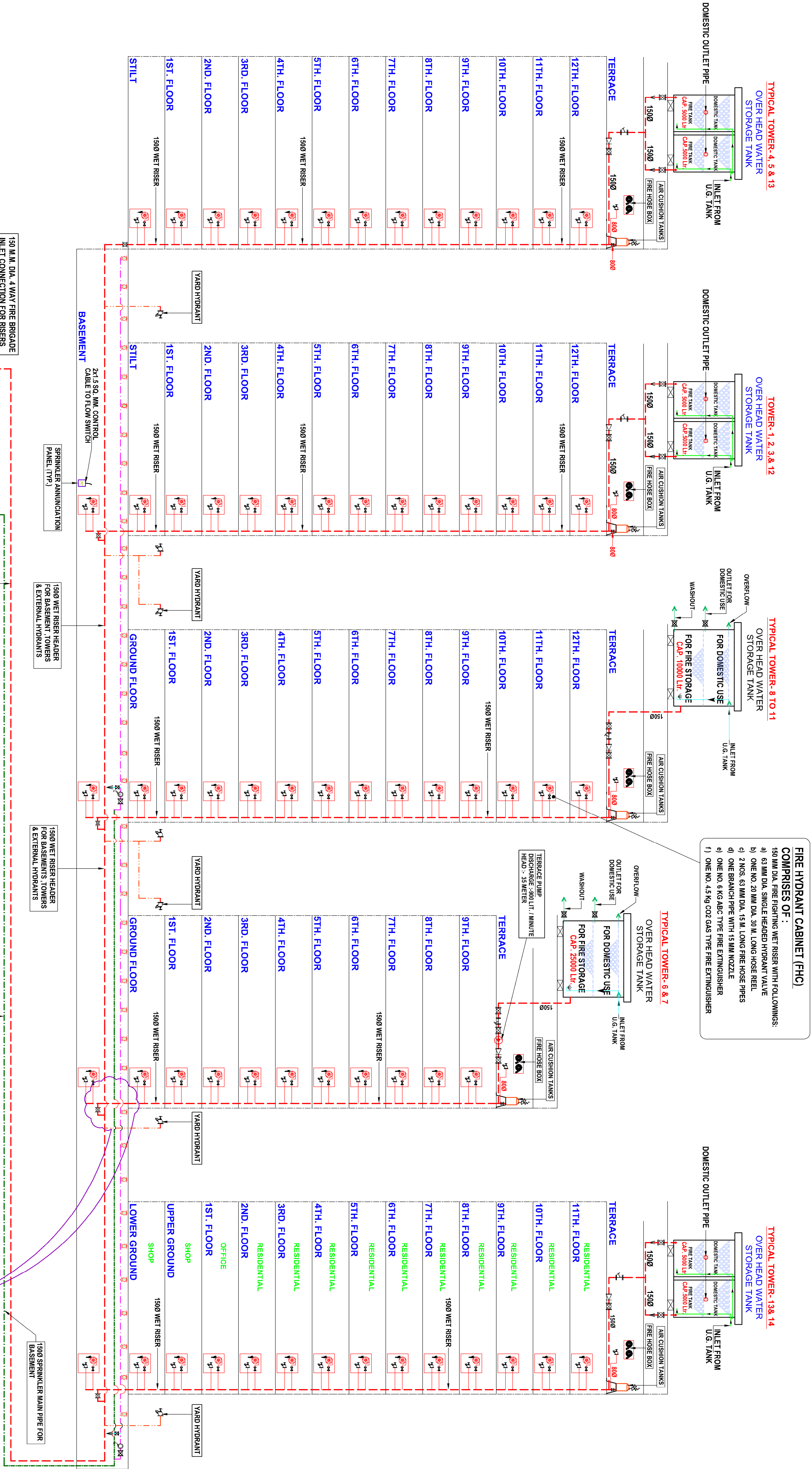


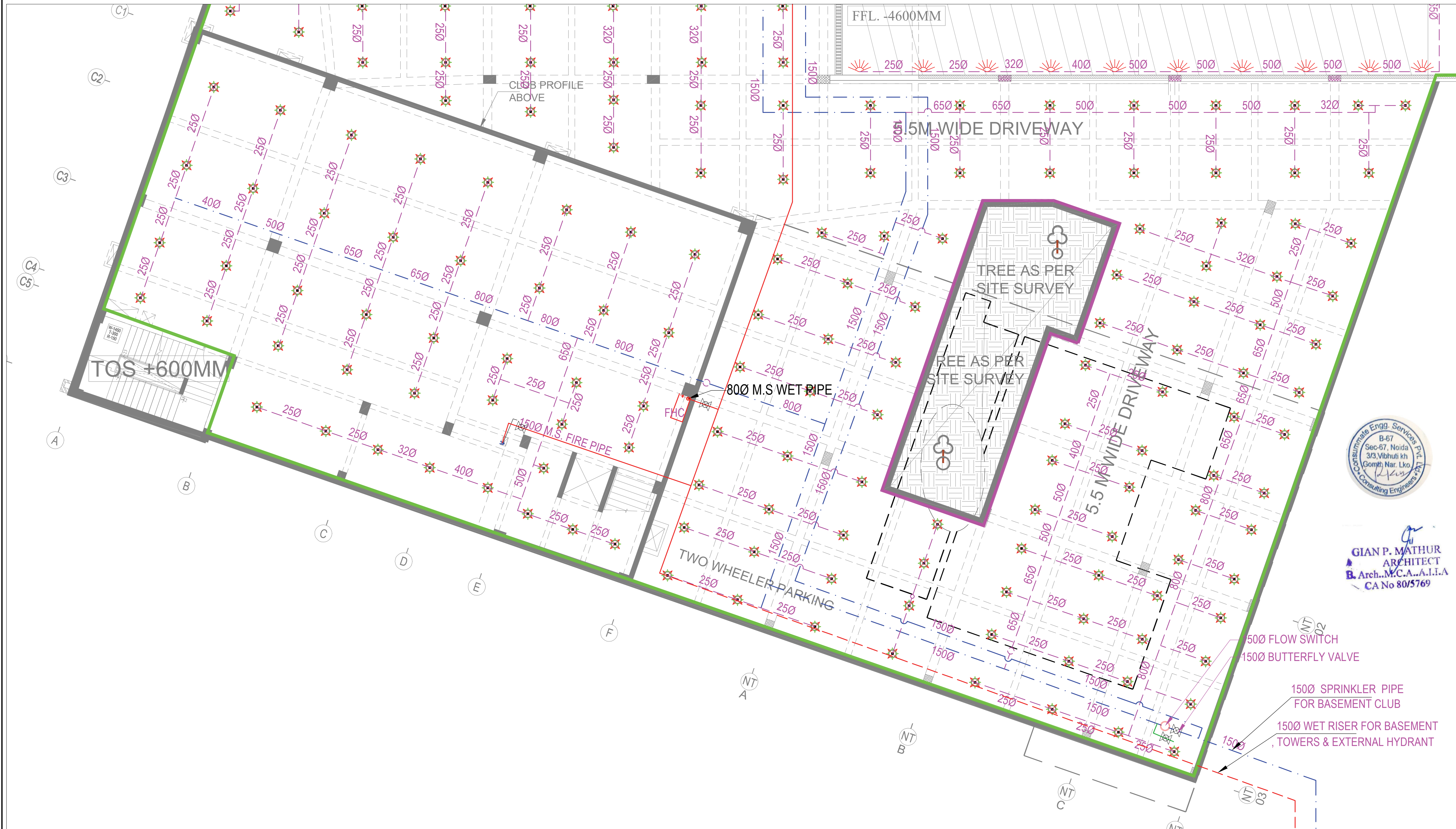
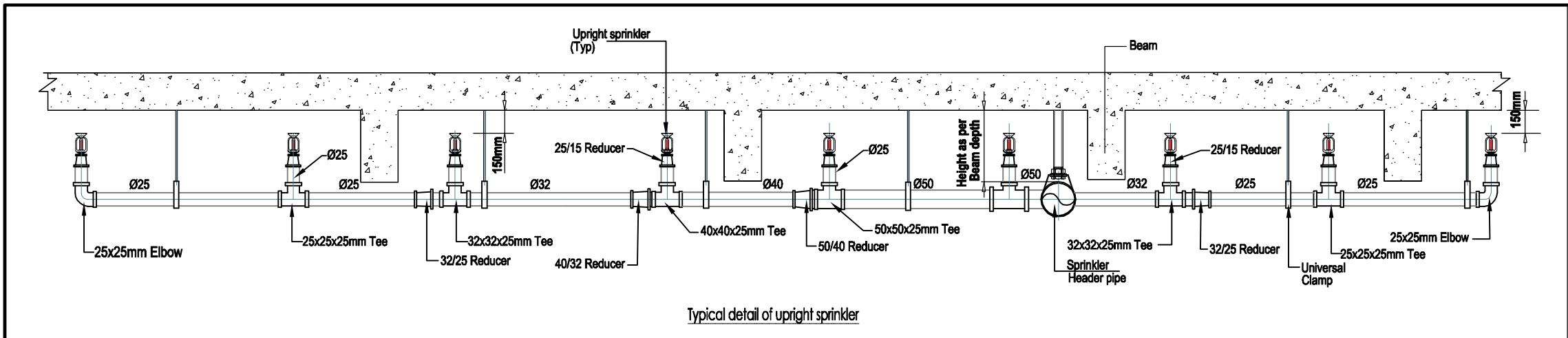


S. No.	SYMBOL	DESCRIPTION
1.		SPRINKLER MAIN HEADER FOR BASEMENT
2.		SPRINKLER BRANCH PIPE
3.		WET RISER FOR TOWERS, BASEMENTS & EXTERNAL YARD HYDRANT
4.		YARD HYDRANT PIPE
5.		SLUICE VALVE WITH MASONRY CHAMBER
6.		63 MM DIA. SINGLE HEADED HYDRANT WITH FOLLOWINGS :- a) 1 NO. 20 M. LONG 20 MM DIA. HOSE REEL b) 2 NOS. 15 M. LONG 63 MM DIA. FIRE HOSE PIPE c) 1 NO. BRANCH PIPE WITH NOZZLE
7.		PRESSURE GAUGE
8.		MOTOR
9.		DIESEL ENGINE
10.		BUTTERFLY VALVE
11.		NON-RETURN VALVE
12.		AIR RELEASE VALVE
13.		EXPANSION JOINT (BELOW)
14.		REDUCER
15.		T-TYPE STRAINER
16.		SPRINKLER - PENDANT / UPRIGHT TYPE
17.		SIDEWALL SPRINKLER
18.		FLOW SWITCH
19.		SPRINKLER INSTALLATION CONTROL VALVE
20.		SPRINKLER DRAIN / TEST PIPE
21.		SPRINKLER ANNUNCIATION PANEL
22.		SPRINKLER ANNUNCIATION PANEL

DETAIL OF FIRE FIGHTING PUMPS
D DIESEL ENGINE DRIVEN STAND BY FIRE PUMP DISCHARGE 2280 LITRE / MINUTE
E ELECTRIC MOTOR DRIVEN MAIN FIRE HYDRANT & SPRINKLER PUMP DISCHARGE 2280 LITRE / MINUTE
J ELECTRIC MOTOR DRIVEN JOCKEY PUMP (HYDRANT & SPRINKLER) DISCHARGE 180 LITRE / MINUTE

Project :
MANGLAM ANANDA AT JAIPUR.
Title :
FIRE FIGHTING DRAWING
Sub Title :
SCHEMATIC DIAGRAM PHASE-2
Drawing Released For :
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Dwg. No. :
GO / SCH / F-F-01
Scale :
N.T.S.
Date :
15.05.2019
Designed by :
R.K.
Checked by :
Anand Rawla
Drawn by :
Prem Kamboj

Architects :
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Services Consultant :
Consummate Engineering Services (P) Ltd. Head Office: B-47 Sector-47, Noida-201 301 Tel: 01203645009 (21 Lines) E-mail: info@cespl.com, website: www.cespl.com



LEGEND : (FIRE FIGHTING & ALARM SYSTEM)			
S. No.	SYMBOL	DESCRIPTION	
1.	---	SPRINKLER BRANCH PIPE LINE TOWER AREA	
2.	---	SPRINKLER BRANCH PIPE LINE NON TOWER	
3.	---	SPRINKLER MAIN HEADER PIPE	
4.	---	WET RISER FOR BASEMENT & TOWERS	
5.	---	SIDE WALL TYPE SPRINKLER HEAD	
6.	---	15 MM DIA. UPRIGHT SPRINKLER	
7.	---		

- NOTES : (FOR SPRINKLER SYSTEM)
- All sprinkler pipe line upto 100 mm dia. shall be suspended from ceiling through G. I. hangers along with anchor fasteners.
 - The size of range sprinkler pipes shall be as here under :-
 - 25 Ø 2 - Sprinkler
 - 32 Ø 3 - Sprinkler
 - 40 Ø 4 - Sprinkler
 - 50 Ø 9 - Sprinkler
 - 65 Ø 18 - Sprinkler
 - Pipe material - sprinkler pipe - MS (Class C) heavy duty
- Drain pipe - G. I. (Class B) medium duty
 - Joining of pipe
 - Up to 40 mm dia - threaded joint
 - 50 mm & above dia - welded joint
 - For side wall sprinklers, the deflector of the sprinklers shall be not less than 100 mm and not more than 150 mm below the finished ceiling surface. (Clause 11.4.1.1, IS : 15108)
 - Sprinkler location / distance (for reference)
 - Minimum distance between two sprinkler - 2 m.
 - Maximum distance between two sprinkler - 4 m.
 - Minimum distance from side face of beam - 600 mm.
 - Suggested distance from side face of beam - 1000 mm.
 - All fire piping accessories should be painted by fire red colour (Shade no. 536 as per IS : 5)
 - Expansion below is to be used at all places in hydrant and sprinkler piping where, the pipe passes through building expansion joint.
 - Any modification reqd. are carried out at site to suit site condition in consultation with site incharge.
 - All pipe sizes are in mm. and nominal dia. only
 - The spacing of fire pipe supports for sprinkler / clevs hanger shall not be more than that specified below:-

Nominal pipes diameter (mm)	Spacing between supports (meter)	Support / Hanger rod diameter (mm)
Up to 25	2.00	8
32 to 50	2.50	8
65 to 90	2.50	10
100	2.50	12

NOTE :- 1) Extra supports shall be provided at the bends and at heavy fittings like valves to avoid undue stress on the pipes.
 - The support for 150 / 200 mm dia. pipe shall be by 50x50x6 mm MS Angle Iron @ 3.0 M. C/C (Maximum).

R-0	27.12.2024	ISSUED FOR COMPLETION
Rev. no.	Date	Revision

Project
GROUP HOUSING "AANANDA"
AT JAIPUR.

Title
FIRE FIGHTING DRAWING

Subtitle
CLUB BASEMENT LAYOUT

Drawing released for
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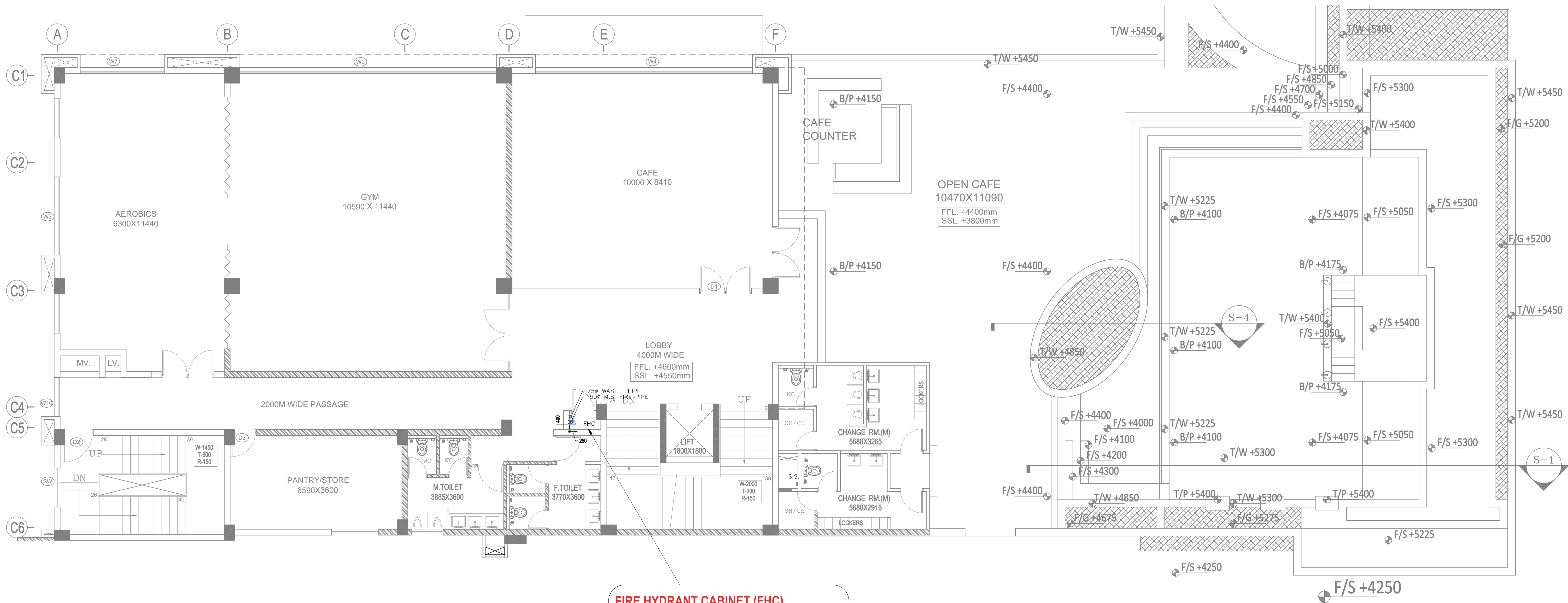
Org. no.
AN.M / PH-II / BASE/T-1 FF-03

Scale
1 : 100

Date
27.12.2024

Architects
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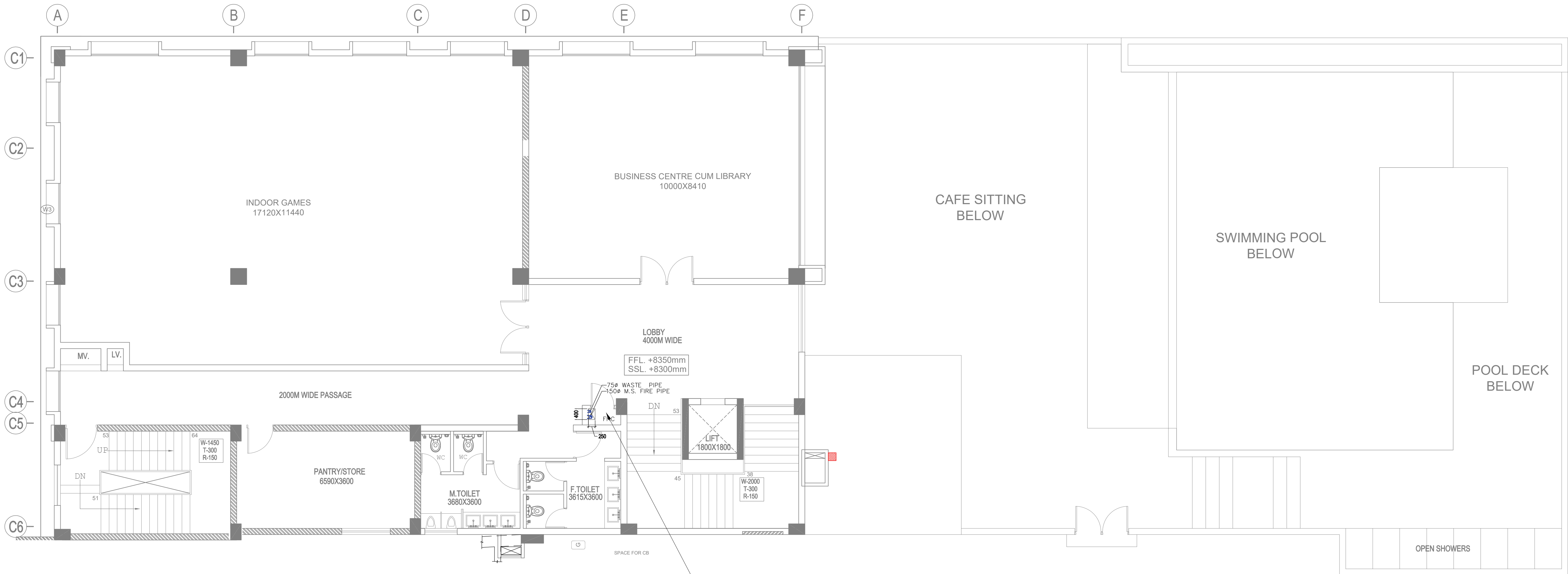


FIRE HYDRANT CABINET (FHC)
150 MM DIA. FIRE FIGHTING WET RISER
a) 63 MM DIA. SINGLE HEADED HYDRANT VALVE
b) ONE NO. 20 MM DIA. 30 M. LONG HOSE REEL
c) TWO NOS. 63 MM DIA. 15 M. LONG FIRE HOSE PIPE
d) ONE BRANCH PIPE WITH 20 MM NOZZLE
e) ONE NO. 4.5 Kg CO2 GAS TYPE FIRE EXTINGUISHER
f) ONE NO. 6 Kg ABC TYPE FIRE EXTINGUISHER



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Project : AANANDA MANGALAM (HIGH RISE) JAIPUR			
Title : FIRE FIGHTING DRAWING (CLUB)			
Subtitle : PODIUM / FIRST FLOOR PLAN			
Drawing Released For : ☐ APPROVAL ☒ SUBMISSION ☐ ADVANCE COPY ☐ CONSTRUCTION			
Drg. No : A.Mangalam / CLUB / FF - 03			
Scale : Sheet A1 Scale 1 : 75	Drawn By : COMPLETION		
Date : Dec - 2023	Design By : RK		
Ckd By : Anand Havelia			
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FIRE HYDRANT CABINET (FHC)
150 MM DIA. FIRE FIGHTING WET RISER
a) 63 MM DIA. SINGLE HEADED HYDRANT VALVE
b) ONE NO. 20 MM DIA. 30 M. LONG HOSE REEL
c) TWO NOS. 63 MM DIA. 15 M. LONG FIRE HOSE PIPE
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e) ONE NO. 4.5 Kg CO2 GAS TYPE FIRE EXTINGUISHER
f) ONE NO. 6 Kg ABC TYPE FIRE EXTINGUISHER



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Title : FIRE FIGHTING DRAWING (CLUB)			
Subtitle : SECOND FLOOR PLAN			
Drawing Released For : ☐ APPROVAL ☒ COMPLETION ☐ ADVANCE COPY ☐ CONSTRUCTION			
Drg. No : A.Mangalam / CLUB / FF - 04			
Scale : Sheet A1 Scale 1 : 75	Drawn By : Prem Kamboj		
Date : Dec - 2024	Design By : RK		
Ckd By : Anand Havelia			
Architects : GIAN P. MATHUR & ASSOCIATES PVT. LTD. C-55, EAST OF KAILASH, NEW DELHI - 110065 PH: 011- 46599599 FAX: 011-46599512 E: gpma@airtelmail.in / W: www.gpmindia.com			
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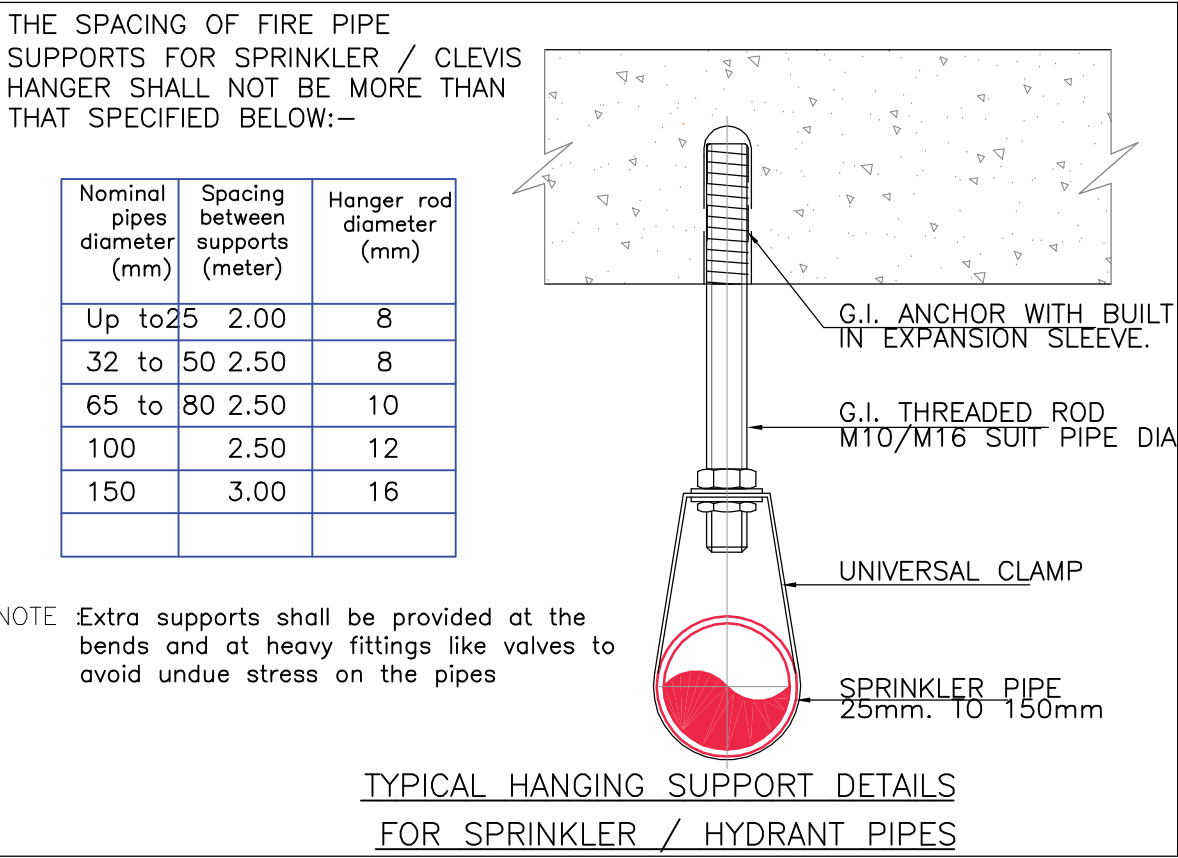
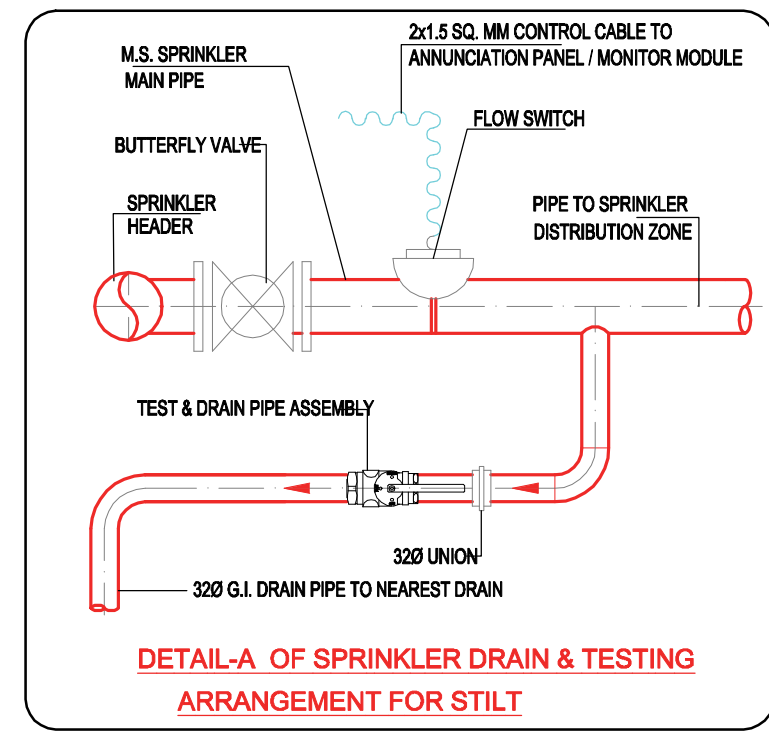
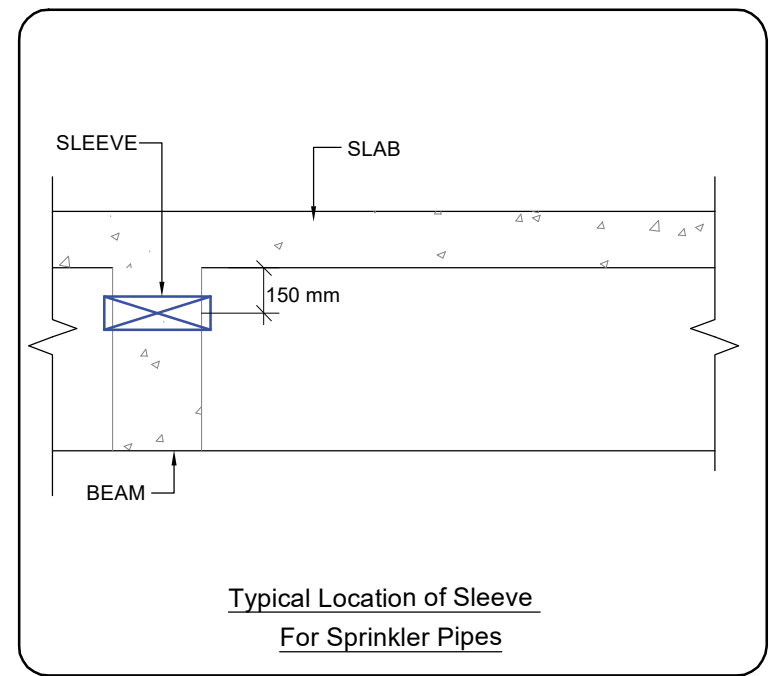
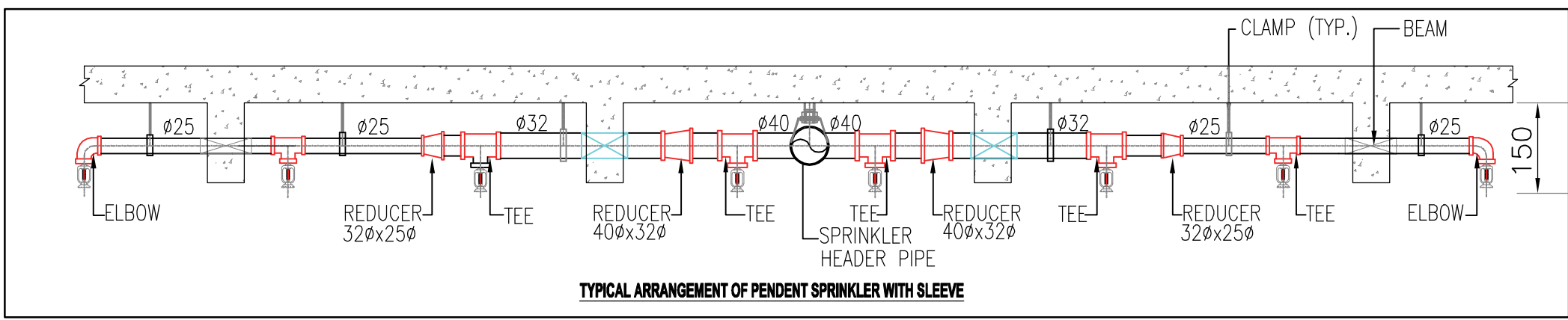


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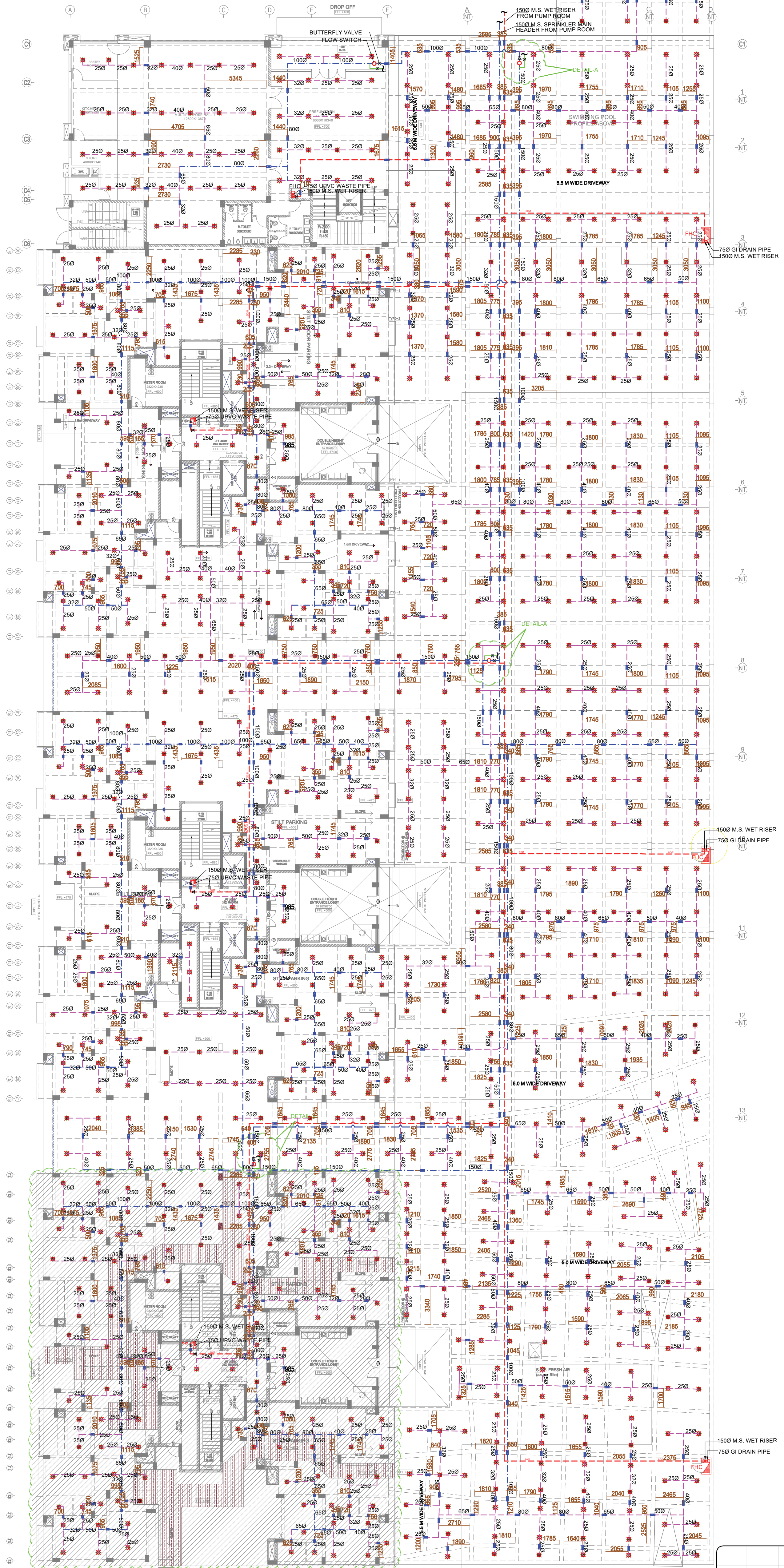
- NOTES : (FOR SPRINKLER SYSTEM)**
- All sprinkler pipe line upto 100 mm dia. shall be suspended from ceiling through G.I. hangers along with anchor fasteners.
 - The size of range sprinkler pipes shall be as here under :-
 - 25 Ø 2 - Sprinkler
 - 32 Ø 3 - Sprinkler
 - 40 Ø 4 - Sprinkler
 - 50 Ø 9 - Sprinkler
 - 65 Ø 18 - Sprinkler
 - Pipe material
 - sprinkler pipe - MS (Class C) heavy duty
 - Drain pipe - G.I. (Class B) medium duty
 - Joining of pipe
 - Up to 40 mm dia - screw joint
 - 50 mm & above dia - welded joint
 - For side wall sprinklers, the deflector of the sprinklers shall be not less than 100 mm and not more than 150 mm below the finished ceiling surface. (Clause 11.4.1.1, IS : 15105)
 - Sprinkler location / distance (for reference)
 - Minimum distance between two sprinkler - 2 m.
 - Maximum distance between two sprinkler - 4 m.
 - Minimum distance from side face of beam - 600 mm.
 - Suggested distance from side face of beam - 1000 mm.
 - All fire piping accessories should be painted by fire red colour (Shade no. 536 as per IS : 5)
 - Expansion bellows is to be used at all places in hydrant and sprinkler piping where, the pipe passes through building expansion joint.
 - Any modification reqd. are carried out at site to suit site condition in consultation with site incharge.
 - All pipe sizes are in mm. and nominal dia. only
 - The spacing of fire pipe supports for sprinkler / clevis hanger shall not be more than that specified below:-

Nominal pipes diameter (mm)	Spacing between supports (meter)	Support / Hanger rod diameter (mm)
Up to 25	2.00	8
32 to 50	2.50	8
65 to 80	2.50	10
100	2.50	12
- NOTE :- 1) Extra supports shall be provided at the bends and at heavy fittings like valves to avoid undue stress on the pipes.
- The support for 150 / 200 mm dia. pipe shall be by 50x50x6 mm MS Angle Iron @ 3.0 M. C.C (Maximum).
 - Size of sleeve for sprinkler pipe shall be as follows :-

Diameter of Sprinkler Pipe (mm)	Diameter of Sleeve (mm)
For pipe upto 40 mm diameter	800
For 50 / 65 mm dia. pipe	1000
For 80 / 100 mm dia. pipe	1500
For 150 mm dia. pipe	2000

LEGEND : (FIRE FIGHTING & ALARM SYSTEM)

S. No.	SYMBOL	DESCRIPTION
1.		FLOW SWITCH
2.		SPRINKLER DRAIN PIPE
3.		BUTTERFLY VALVE
4.		SPRINKLER MAIN HEADER FROM PUMP ROOM TO FLOW SWITCH
5.		MAIN PIPE LINE FOR SPRINKLER SYSTEM
6.		SPRINKLER BRANCH PIPE LINE
7.		15 M.M. DIA. PENDENT SPRINKLER



Rev. No.	18-01-2025	0	FOR COMPLETION
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Project :
AANANDA MANGALAM (HIGH RISE)
JAIPUR

Title :
STILT FLOOR PLAN (G+12)
(TOWER - 4, 5 & 13)
Subtitle :
FIRE FIGHTING DRAWING

Drawing Released For :

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Drg. No. :
A.Mangalam / T-4,5 & 13 / FF - 02
Date :
30.03.2024
Scale :
1 : 200

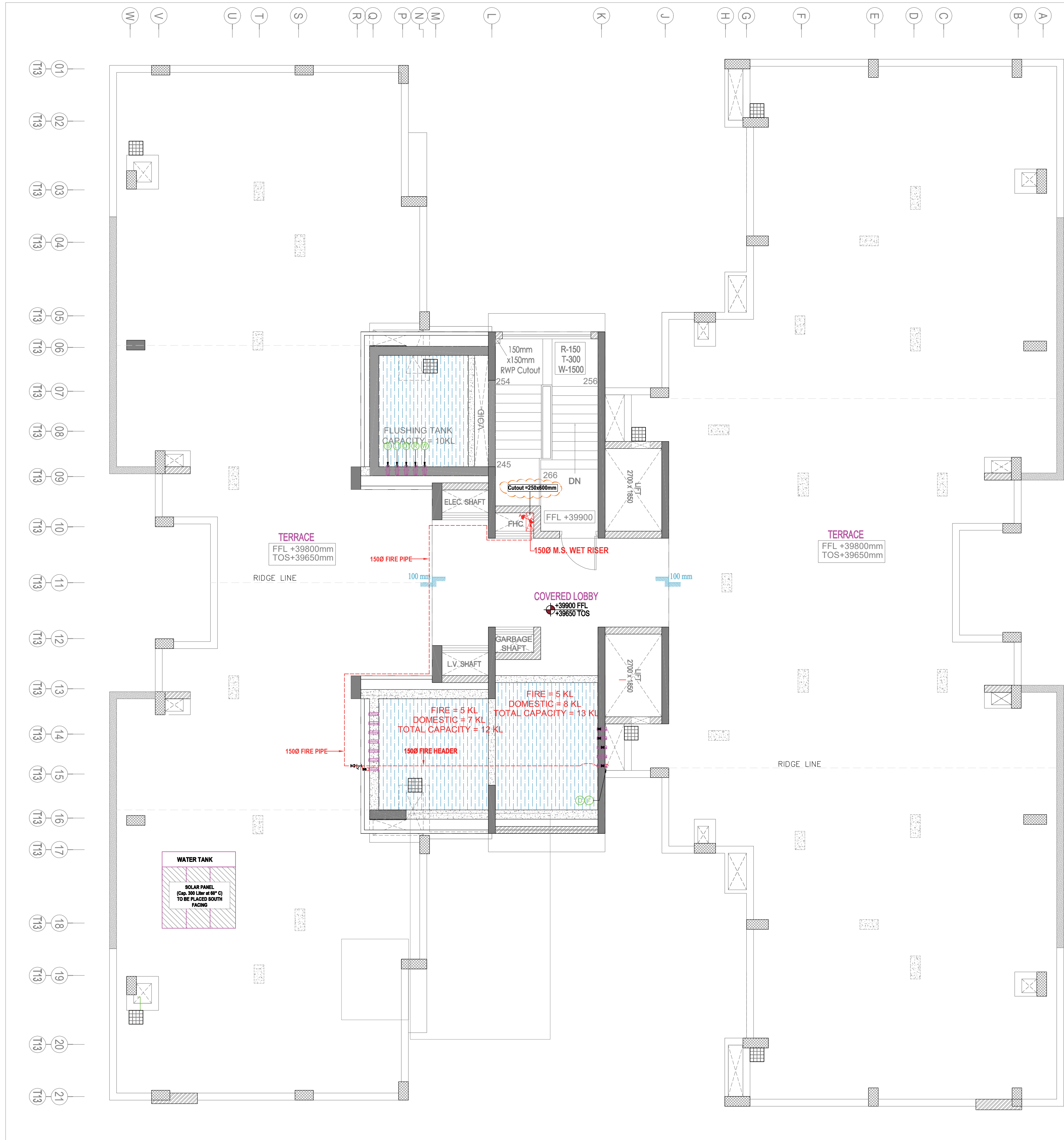
Drawn By :
Prem Kamboj
Design By :
R.K
Ckd By :
Anand Havelia

Architects :
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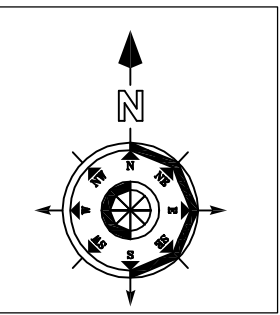
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LEGEND : (Plumbing)		
S. No.	SYMBOL	DESCRIPTION
1.	---	FIRE PIPE
2.		NON-RETURN VALVE
3.	⊗	BUTTERFLY VALVE
4.	ARV	AIR RELEASE VALVE
	Y	Y-STRAINER



R-0	18.01.2025	-	FOR COMPLETION
Rev. No.	Date	No of Prints Issued to	
Project :			
AANANDA MANGALAM (HIGH RISE)			
JAIPUR			
Title :			
FIRE FIGHTING DRAWING (TOWER -4,5 & 13			
Subtitle :			
TERRACE FLOOR PLAN (G+12)			
Drawing Released For :			
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Drg. No. : A.Mangalam / TOWER-4,5 & 13 / FF - 01			
Scale : Sheet A1 Scale 1 : 70		Drawn By : S.Kumar	
Date : JAN - 2025		Design By : R.K	
Ckd By :		Anand Havella	
Architects :			
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Project : **AANANDA MANGALAM (HIGH RISE)**
JAIPUR

Title : **FIRE FIGHTING DRAWING (TOWER -4)**

Subtitle : **FIRST FLOOR PLAN (G+12)**

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Drg. No : **A.Mangalam / TOWER-4 / FF - 01**

Scale : **Sheet A1 Scale 1 : 75** Drawn By : **PREM KAMBOJ**

Date : **JAN - 2025** Design By : **R.K**

Ckd By : **Anand Havelia**

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FIRE HYDRANT CABINET (FHC)
150 MM DIA. FIRE FIGHTING WET RISER
a) 63 MM DIA. SINGLE HEADED HYDRANT VALVE
b) ONE NO. 20 MM DIA. 30 M. LONG HOSE REEL
c) TWO NOS. 63 MM DIA. 15 M. LONG FIRE HOSE PIPE
d) ONE BRANCH PIPE WITH 20 MM NOZZLE
e) ONE NO. 4.5 Kg CO2 GAS TYPE FIRE EXTINGUISHER
f) ONE NO. 6 Kg ABC TYPE FIRE EXTINGUISHER

2nd FLOOR PLAN



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Project : AANANDA MANGALAM (HIGH RISE) JAIPUR			
Title : FIRE FIGHTING DRAWING (TOWER -4)			
Subtitle : 2nd FLOOR PLAN (G+12)			
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Scale :	Sheet A1 Scale 1 : 75		Drawn By : PREM KAMBOJ
Date :	JAN - 2025		Design By : R.K
Ckd By :		Anand Havelia	
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TYPICAL FLOOR PLAN- 4TH TO 12TH

(TOWER- 4)



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CA No 80/5769

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Project : **AANANDA MANGALAM (HIGH RISE)**
JAIPUR

Title : **FIRE FIGHTING DRAWING (TOWER -4)**

Subtitle : **TYPICAL FLOOR PLAN (G+12)**

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Date : **JAN - 2025** Design By : **R.K**

Ckd By : **Anand Havelia**

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FIRE HYDRANT CABINET (FHC)
150 MM DIA. FIRE FIGHTING WET RISER
a) 63 MM DIA. SINGLE HEADED HYDRANT VALVE
b) ONE NO. 20 MM DIA. 30 M. LONG HOSE REEL
c) TWO NOS. 63 MM DIA. 15 M. LONG FIRE HOSE PIPE
d) ONE BRANCH PIPE WITH 20 MM NOZZLE
e) ONE NO. 4.5 Kg CO2 GAS TYPE FIRE EXTINGUISHER
f) ONE NO. 6 Kg ABC TYPE FIRE EXTINGUISHER



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Project : **AANANDA MANGALAM (HIGH RISE)**
JAIPUR

Title : **FIRE FIGHTING DRAWING (TOWER -5)**

Subtitle : **FIRST FLOOR PLAN (G+12)**

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Drg. No : A.Mangalam / TOWER-5 / FF - 01

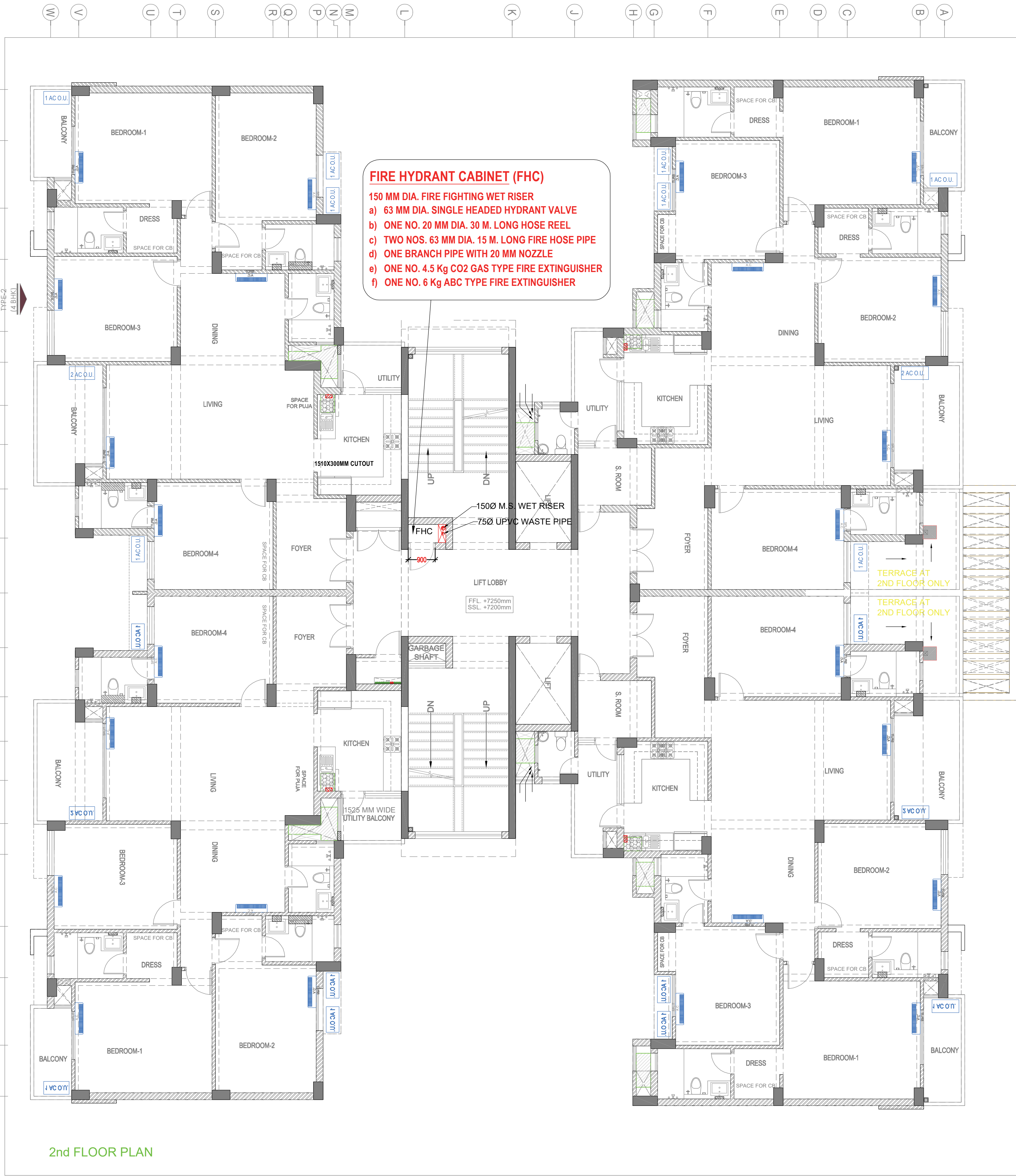
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Date : JAN - 2025 Design By : **R.K**

Ckd By : **Anand Havelia**

Architects : **GIAN P. MATHUR & ASSOCIATES PVT. LTD.**
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2nd FLOOR PLAN



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CA No 80/5769

R0	18-01-2025	0	FOR COMPLETION
Rev. No.	Date	No of Prints	Issued to

Project :
AANANDA MANGALAM (HIGH RISE)
JAIPUR

Title :
FIRE FIGHTING DRAWING (TOWER -5)

Subtitle :
2nd FLOOR PLAN (G+12)

Drawing Released For :
☒ COMPLETION ☐ SUBMISSION
☐ ADVANCE COPY ☐ CONSTRUCTION

Drg. No :
A.Mangalam / TOWER-5 / FF - 02

Scale :
Sheet A1 Scale 1 : 75

Drawn By :
PREM KAMBOJ

Date :
JAN - 2025

Design By :
R.K

Ckd By :
Anand Havelia

Architects :
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TYPICAL FLOOR PLAN- 2ND TO 12TH

(TOWER- 5)



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Project :
AANANDA MANGALAM (HIGH RISE)
JAIPUR

Title :
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Subtitle :
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A.Mangalam / TOWER-5 / FF - 03

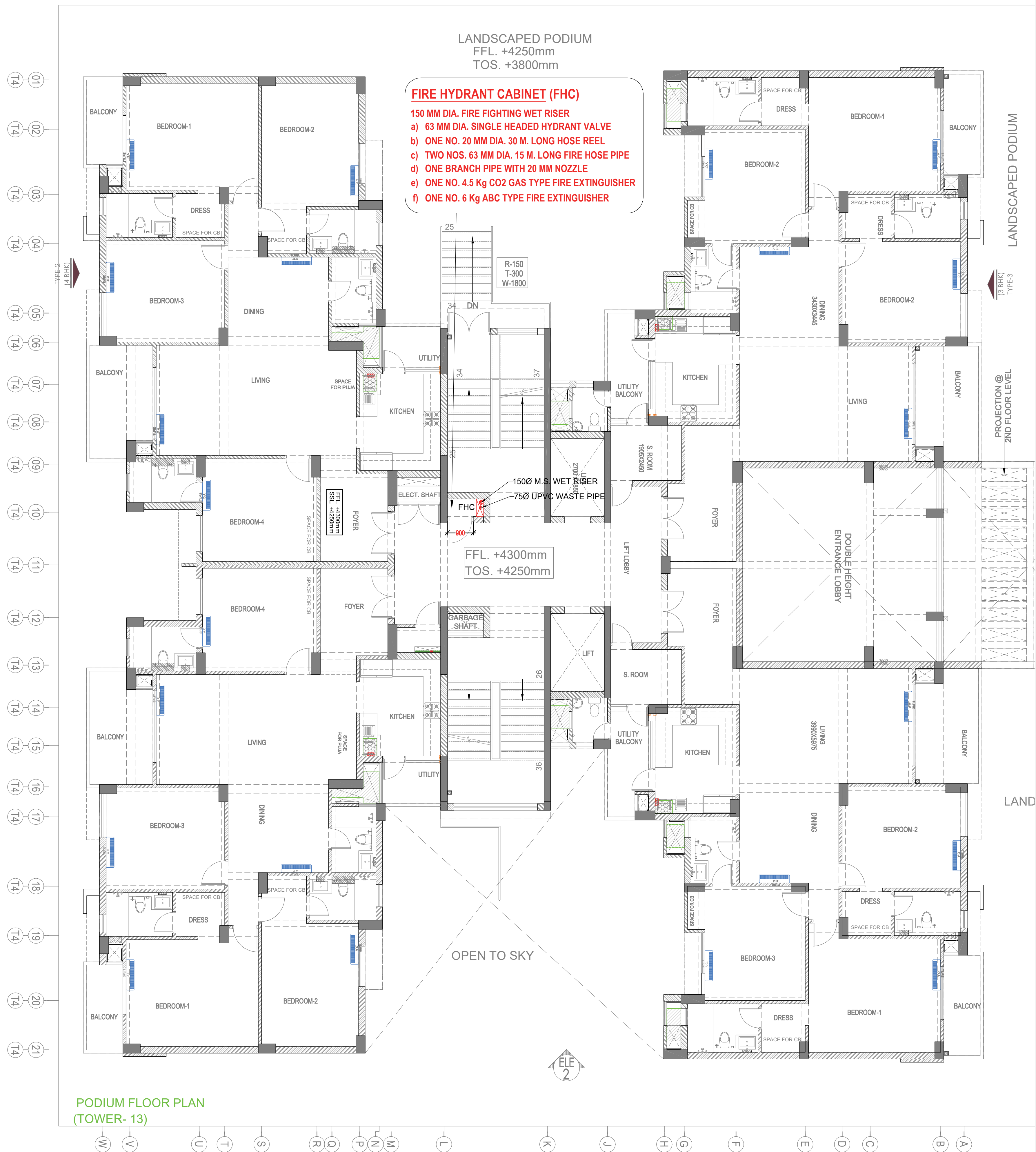
Scale :
Sheet A1 Scale 1 : 75

Date :
JAN - 2025

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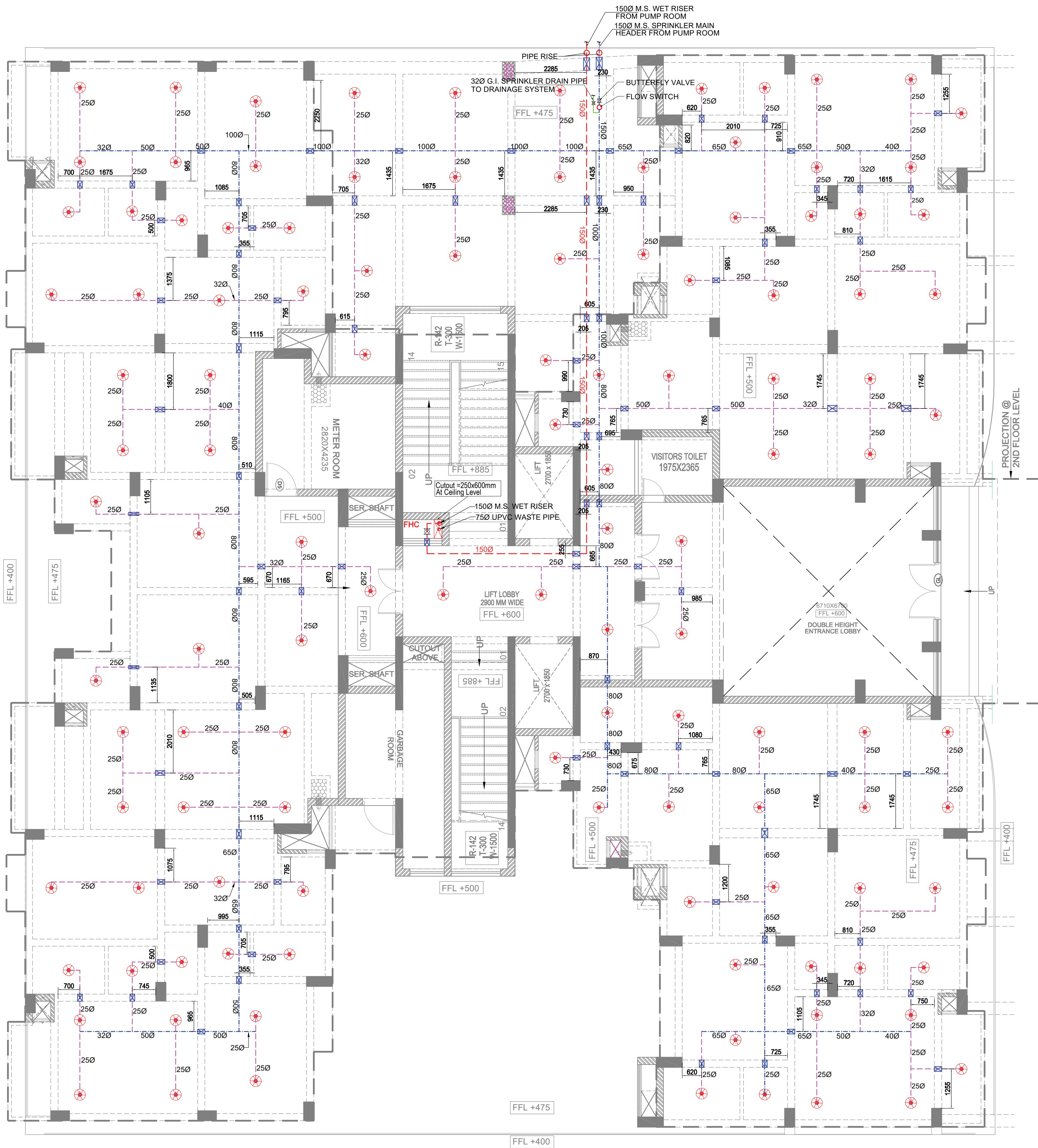
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Project : AANANDA MANGALAM (HIGH RISE) JAIPUR			
Title : FIRE FIGHTING DRAWING (TOWER -13)			
Subtitle : FIRST FLOOR PLAN (G+12)			
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Drg. No : A.Mangalam / TOWER-13 / FF - 01			
Scale : Sheet A1 Scale 1 : 75		Drawn By : PREM KAMBOJ	
Date : JAN - 2025		Design By : R.K	
Ckd By :		Anand Havelia	
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Drg. No : A.Mangalam / TOWER-13 / FF - 02			
Scale : Sheet A1 Scale 1 : 75	Drawn By : PREM KAMBOJ		
Date : JAN - 2025	Design By : R.K		
Ckd By : Anand Havella			
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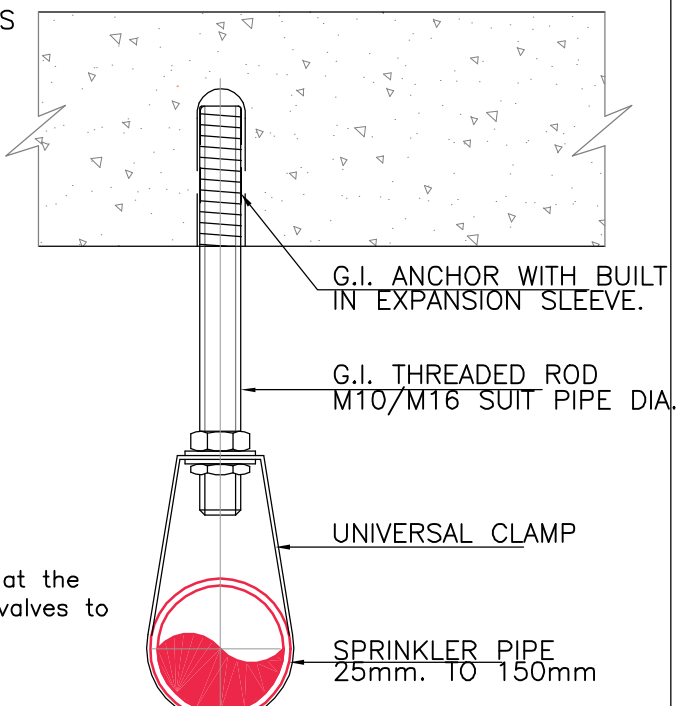


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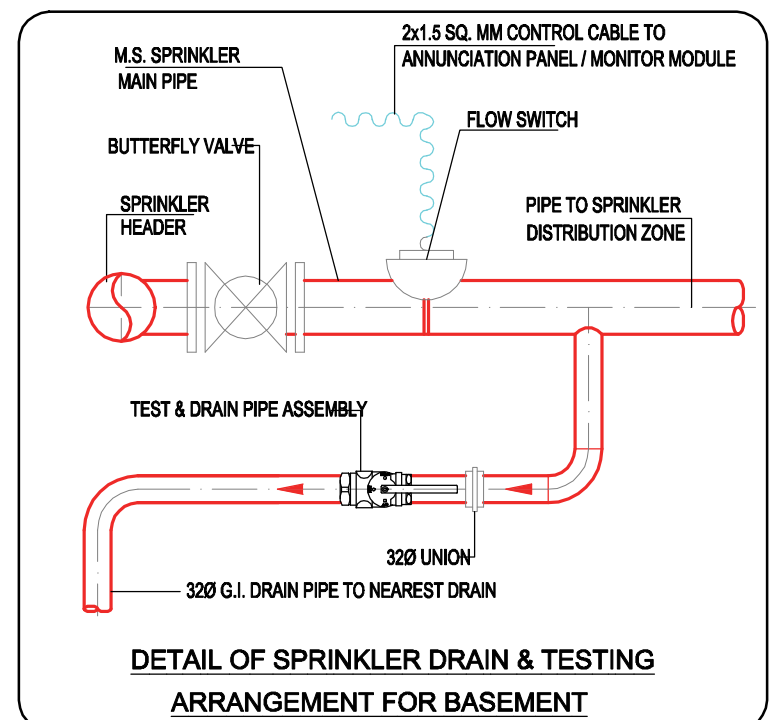
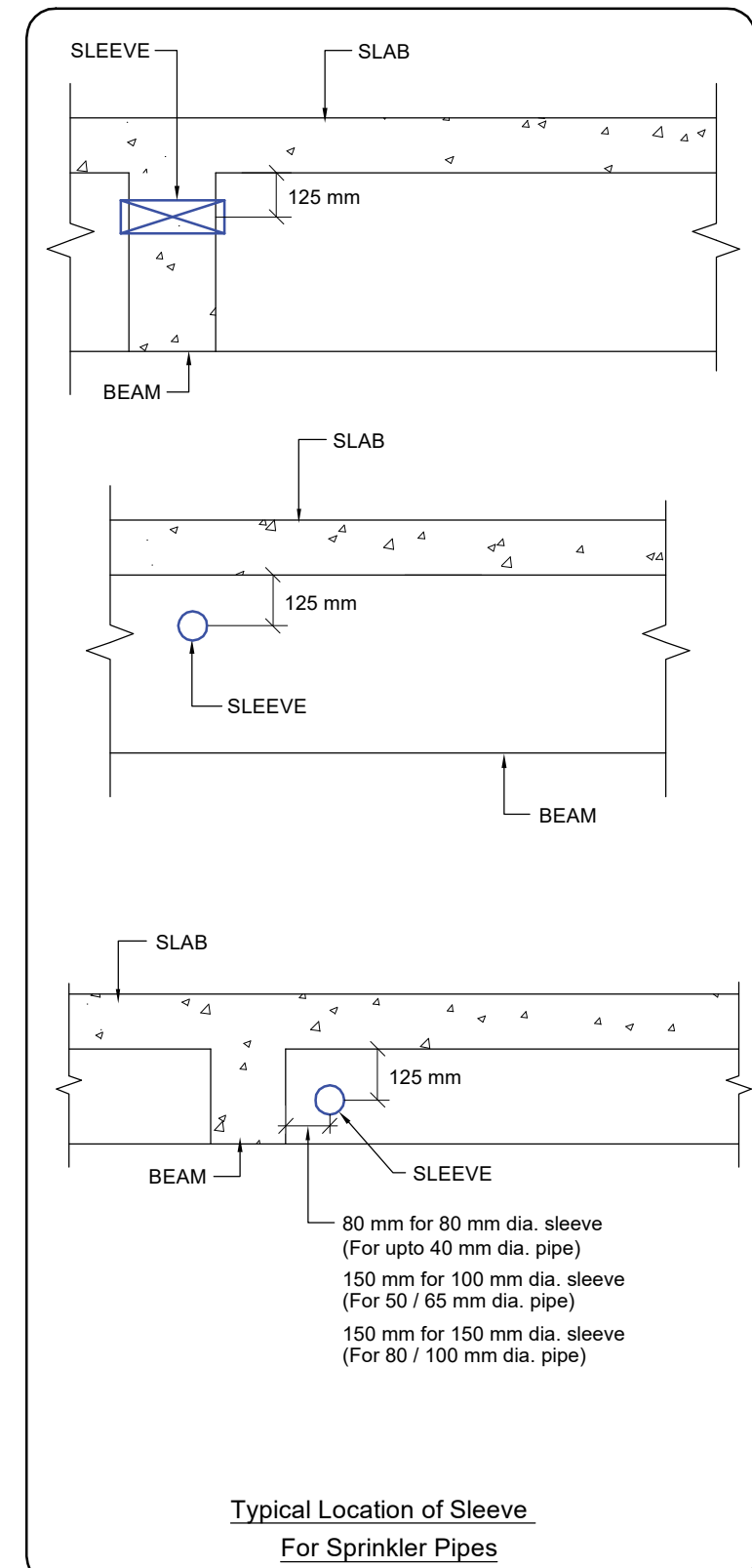
THE SPACING OF FIRE PIPE SUPPORTS FOR SPRINKLER / CLEVIS HANGER SHALL NOT BE MORE THAN THAT SPECIFIED BELOW:-

Nominal pipes diameter (mm)	Spacing between supports (meter)	Hanger rod diameter (mm)
Up to 25	2.00	8
32 to 50	2.50	8
65 to 80	2.50	10
100	2.50	12
150	3.00	16

NOTE: Extra supports shall be provided at the bends and at heavy fittings like valves to avoid undue stress on the pipes.



TYPICAL HANGING SUPPORT DETAILS
FOR SPRINKLER / HYDRANT PIPES



S. No.	SYMBOL	DESCRIPTION
1.		FLOW SWITCH
2.		SPRINKLER DRAIN PIPE
3.		BUTTERFLY VALVE
4.		SPRINKLER MAIN HEADER FROM PUMP ROOM TO FLOW SWITCH
5.		MAIN PIPE LINE FOR SPRINKLER SYSTEM
6.		SPRINKLER BRANCH PIPE LINE
7.		15 M.M. DIA. UPRIGHT SPRINKLER
8.		15 M.M. DIA. PENDENT SPRINKLER

NOTES : (FOR SPRINKLER SYSTEM)

- All sprinkler pipe line upto 100 mm dia. shall be suspended from ceiling through G.I. hangers along with anchor fasteners.
- The size of range sprinkler pipes shall be as here under :-
a) 25 Ø 2-Sprinkler
b) 32 Ø 3-Sprinkler
c) 40 Ø 4-Sprinkler
d) 50 Ø 9-Sprinkler
e) 65 Ø 18-Sprinkler
- Pipe material :-
- sprinkler pipe - MS (Class C) heavy duty
- Drain pipe - G.I. (Class B) medium duty
- Joining of pipe
a) Up to 40 mm dia - screw joint
b) 50 mm & above dia - welded joint
- For side wall sprinklers, the deflector of the sprinklers shall be not less than 100 mm and not more than 150 mm below the finished ceiling surface. (Clause 11.4.1.1, IS : 15105)
- Sprinkler location / distance (for reference)
a) Minimum distance between two sprinkler - 2 m.
b) Maximum distance between two sprinkler - 4 m.
c) Minimum distance from side face of beam - 600 mm.
d) Suggested distance from side face of beam - 1000 mm.
- All fire piping accessories should be painted by fire red colour (Shade no. 536 as per IS : 5)
- Expansion below is to be used at all places in hydrant and sprinkler piping where, the pipe passes through building expansion joint.
- Any modification reqd. are carried out at site to suit site condition in consultation with site incharge.
- All pipe sizes are in mm. and nominal dia. only
- The spacing of fire pipe supports for sprinkler / clevis hanger shall not be more than that specified below:-

Nominal pipes diameter (mm)	Spacing between supports (meter)	Support / Hanger rod diameter (mm)
Up to 25	2.00	8
32 to 50	2.50	8
65 to 80	2.50	10
100	2.50	12

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Title :
FIRE FIGHTING DRAWING (TOWER -13)

Subtitle :
STILT FLOOR PLAN (G+12)

Drawing Released For :
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☒ COMPLETION ☐ CONSTRUCTION

Org. No :
A.Mangalam / TOWER-13 / FF - 01

Scale : **Sheet A1 Scale 1 : 70** Drawn By : **TIKAM**

Date : **17-02-2022** Design By : **R.K**

Ckd By : **Anand Havelia**

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TYPICAL FLOOR PLAN



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