

LEGENDS-		
S.NO.	SYMBOL	DESCRIPTION
1.	(Symbol)	EXTERNAL FIRE HOSE CABINET

GROUP HOUSING AREA DETAILS	
1.	NET LAND AREA = 19348.79 sq.mt.
2.	PERMISSIBLE GROUND COVERAGE = @35% = 6772.08 sq.mt. PROPOSED GROUND COVERAGE = @18.46% = 3572.49 sq.mt.
3.	PERMISSIBLE F.A.R. = @2.50 = 48371.97 sq. mt. ADDITIONAL PERMISSIBLE PURCHASABLE F.A.R. = @1.25 = 24185.99 sq. mt. TOTAL PERM. F.A.R. (PERM. + PURCHASABLE) = @3.75 = 72557.96 sq. mt.
4.	TOTAL PROPOSED F.A.R. = 72445.90 sq. mt. PURCHASED F.A.R. = 24074.01 sq. mt.
5.	BUILT-UP AREA(FAR) OF TOWER A(GROUND) = 936.43 sq.mt. BUILT-UP AREA(FAR) OF TOWER A(FIRST+20) = 18584.81 sq.mt.
6.	BUILT-UP AREA(FAR) OF TOWER B(GROUND) = 799.10 sq.mt. BUILT-UP AREA(FAR) OF TOWER B (FIRST+21) = 16077.44 sq.mt.
7.	BUILT-UP AREA(FAR) OF TOWER C(GROUND) = 799.10 sq.mt. BUILT-UP AREA(FAR) OF TOWER C (FIRST+21) = 16077.44 sq.mt.
8.	BUILT-UP AREA(FAR) OF TOWER D(GROUND) = 1052.27 sq.mt. BUILT-UP AREA(FAR) OF TOWER D (FIRST+20) = 18029.68 sq.mt.
9.	TOTAL BUILT-UP AREA(FAR) = 72356.27 Sq.Mt.
10.	NUMBERS OF FLATS IN 2XTOWER A(GROUND+20) = 2X120=240 UNITS
11.	NUMBERS OF FLATS IN 2XTOWER B(GROUND+21) = 2X84 =168 UNITS
12.	TOTAL NUMBERS OF FLATS = 408 NOS.
UNIT DETAILS (TOWER A + TOWER B ) X 2 =	
50 SQM. - 100 SQM =	00 + 0 = X 2= 0
100 SQM. -150 SQM =	114 + 2 = X 2= 232
MORE THAN 150SQM=	06 + 82 = X 2= 176
TOTAL =	408

GROUP HOUSING AREA DETAILS	
<b>11. PARKING DETAILS:</b>	
<b>A. PARKING REQUIRED:</b>	
No. of flats(with built-up area 50 to 100 sq.mt.)	= 00nos.x1.00
No. of flats(with built-up area 100 to 150 sq.mt.)	= 232 nos.x1.25
No. of flats(with built-up area > 150 sq.mt.)	= 176 nos.x1.50
TOTAL PARKING REQUIRED	= 554 nos.
• 10% VISTIOR'S PARKING OF TOTAL PARKING	= 55.4 Nos.
• TOTAL NOS. OF PARKING REQUIRED	= 554+56 nos. = 610 Nos.
<b>B. PARKING PROVIDED:</b>	
•• OPEN CAR PARKING	= 196 ECS
•• COVERED BASEMENT PARKING	
BASEMENT 1 = 10295.33/32	= 321 ECS
BASEMENT 2 = 11031.93/32	= 344 ECS
TOTAL NOS. OF PARKING PROVIDED	= 861 nos.

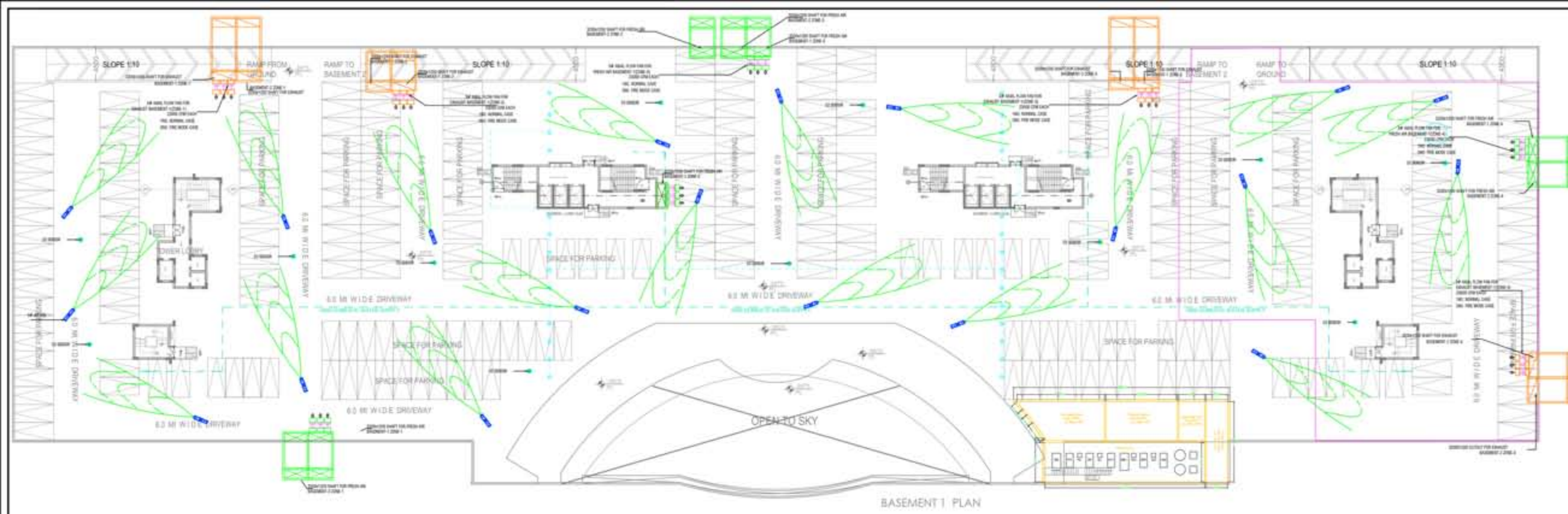
STAGE : FIRE SUBMISSION

CLIENT :  
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7007292551

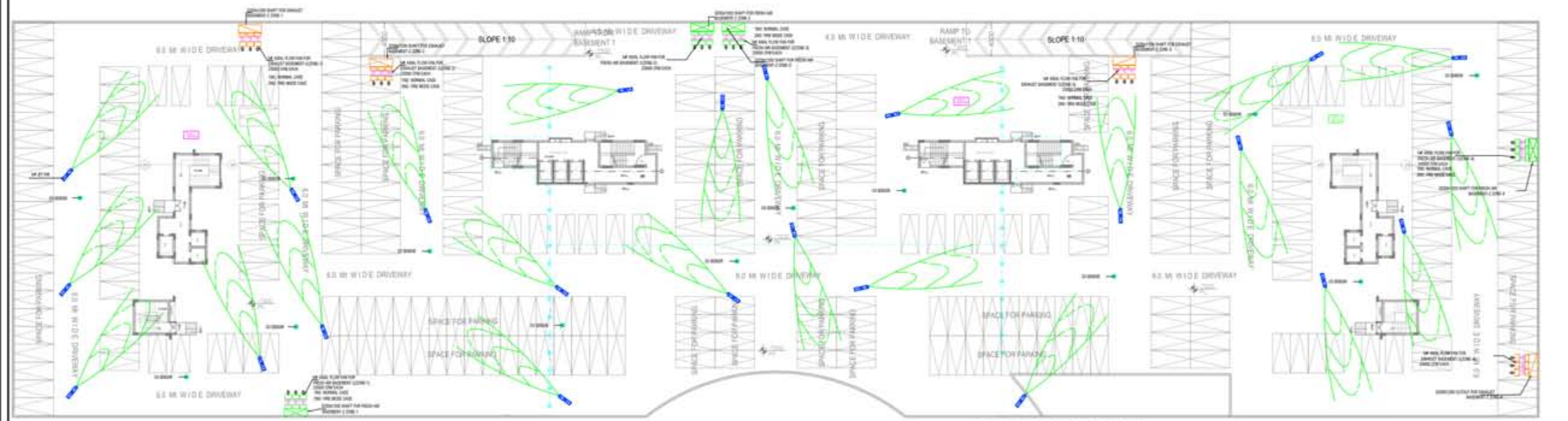
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E mail:-Architectrakeshsharma@gmail.com,  
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PROJECT :  
GROUP HOUSING -1, ITP - 2,  
SITUATED AT SECTOR -D IN  
SUSHANT GOLF CITY AT  
SULTANPUR ROAD , LUCKNOW  
[U.P.]

DWG. TITLE :  
FIRE FIGHTING LAYOUT  
CO ODINATED SITE PLAN



BASEMENT 1 PLAN



BASEMENT 2 PLAN

Sl. No.	Description	QTY	UNIT	REMARKS
1	...	...	...	...
2	...	...	...	...
3	...	...	...	...
4	...	...	...	...
5	...	...	...	...
6	...	...	...	...
7	...	...	...	...
8	...	...	...	...
9	...	...	...	...
10	...	...	...	...
11	...	...	...	...
12	...	...	...	...
13	...	...	...	...
14	...	...	...	...
15	...	...	...	...
16	...	...	...	...
17	...	...	...	...
18	...	...	...	...
19	...	...	...	...
20	...	...	...	...

- NOTES:
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED
  - 2) MINIMAL FALL POINT HAS TO BE PROVIDED AT A HEIGHT OF 1.2 MTS FROM FFL
  - 3) VENT/STROKE HAS TO BE PROVIDED AT A HEIGHT OF 2.2 MTS FROM FFL
  - 4) 1 FULLY ISOLATOR HAS TO BE PROVIDED FOR EVERY 20 DETECTORS
  - 5) ALL CABLE & ISO TO BE INSTALLED AT CEILING LEVEL
  - 6) FM SPRAWLER HAS TO BE PROVIDED AT A HEIGHT OF 1.4 MTS FROM FFL
  - 7) THE CABLE ROUTING INDICATED IN THE DRAWING IS REFERENCE THE EXACT ROUTING SHALL BE CARRIED OUT TO SUIT SITE CONDITION & CO-ORDINATED WITH OTHER SERVICES

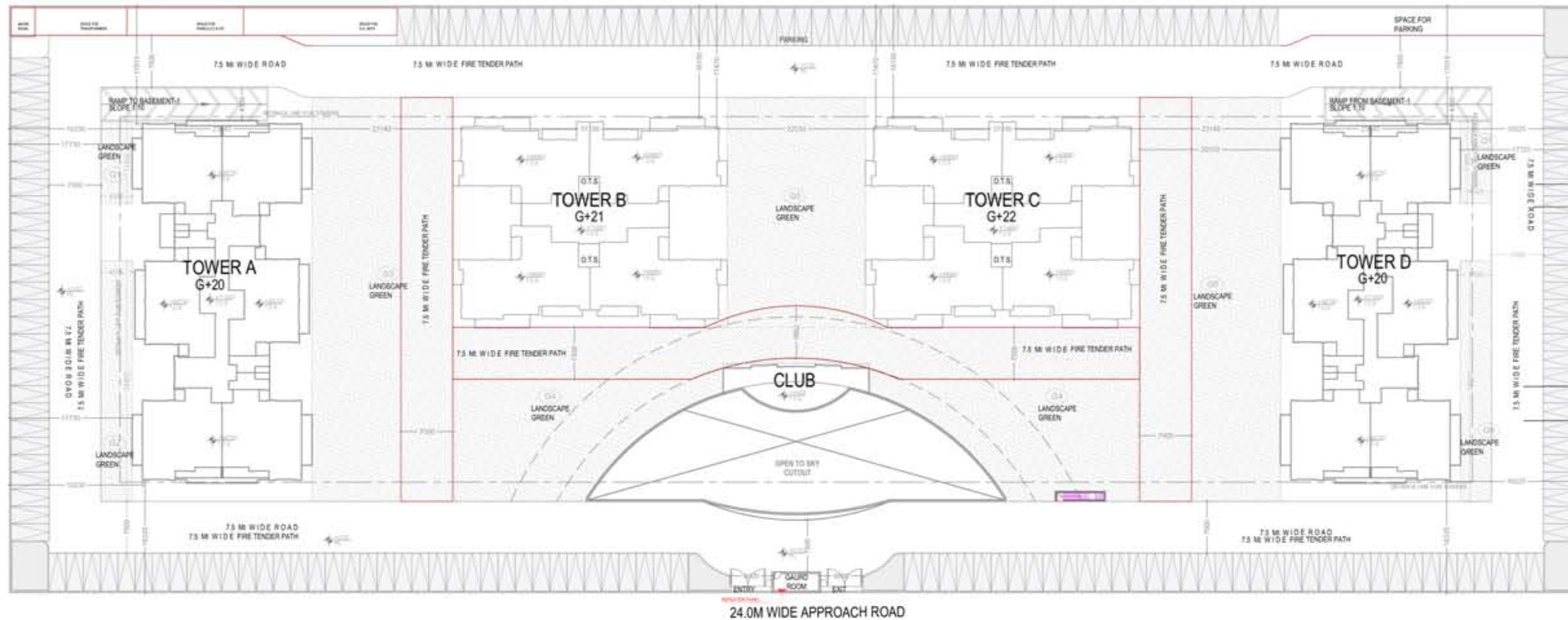
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PROJECT :  
**GROUP HOUSING -1, ITP - 2,  
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 SULTANPUR ROAD , LUCKNOW  
 [U.P.]**

DWG. TITLE :  
**FIRE SUBMISSION HVAC  
 LAYOUT  
 BASEMENT 1 & 2 PLAN**



1	AREA DESIGNATOR
2	AREA DESIGNATOR
3	AREA DESIGNATOR

GROUP HOUSING AREA DETAILS	
1. NET LAND AREA = 19348.79 sq.mt.	
2. PERMISSIBLE GROUND COVERAGE = @35%	= 6772.08 sq.mt.
PROPOSED GROUND COVERAGE = @18.46%	= 3572.49 sq.mt.
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TOTAL PERM. F.A.R. (PERM. + PURCHASABLE) = @3.75	= 72557.96 sq. mt.
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TOTAL PARKING REQUIRED	= 554 nos.
• 10% VISTIOR'S PARKING OF TOTAL PARKING = 55.4 Nos.	
• TOTAL NOS. OF PARKING REQUIRED = 554+56 nos. = 610 Nos.	
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BASEMENT 1= 10295.33/32	= 321 ECS
BASEMENT 2= 11031.93/32	= 344 ECS
TOTAL NOS. OF PARKING PROVIDED =	861 nos.

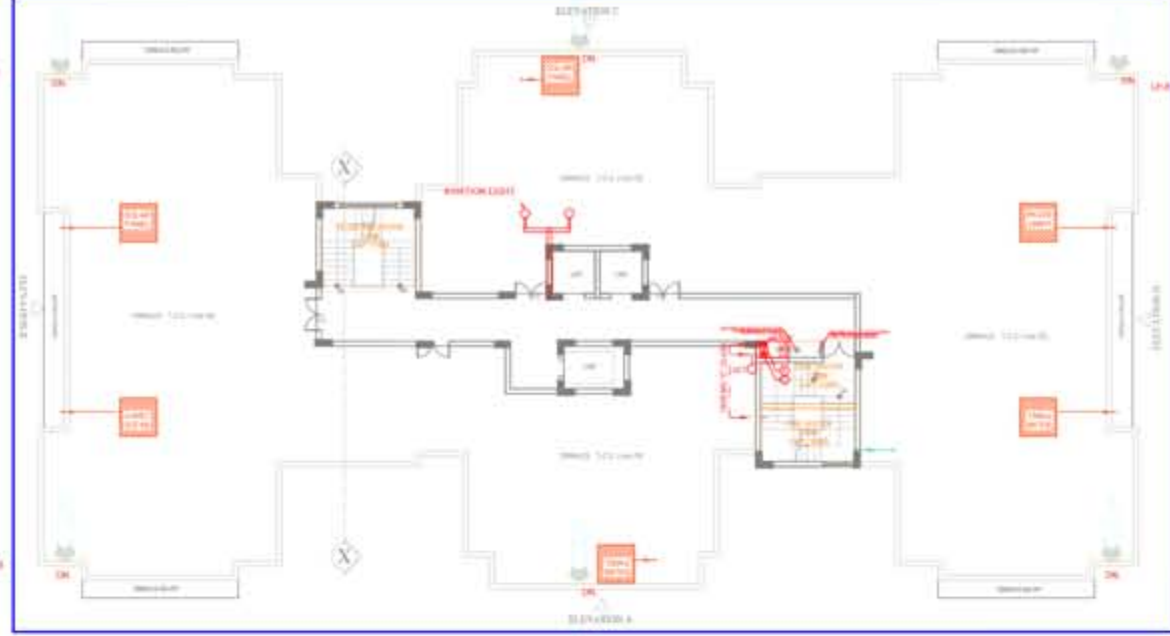
STAGE : FIRE SUBMISSION

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[U.P.]

DWG. TITLE :  
MASTER SITE PLAN FIRE ALARM  
LAYOUT



TERRACE LEVEL PLAN



18TH FLOOR PLAN



PENT HOUSE PLAN (10TH FLOOR)



PENT HOUSE PLAN (11TH FLOOR)



GROUND FLOOR PLAN



TYPICAL FLOOR PLAN (1ST TO 17TH FLOOR)

FLOOR PLANS

**FIRE FIGHTING LEGEND:-**

SYMBOL	DESCRIPTION
(A)	1500 MS "C" CLASS HYDRANT PIPE
(B)	500 MS "B" CLASS SPRINKLER DRAIN PIPE
(C)	1500 MS "C" CLASS SPRINKLER PIPE
(FHC)	FIRE HOSE CABINET
(BFV)	BUTTERFLY VALVE
(NRV)	NON RETURN VALVE
(-)	SIDE WALL SPRINKLER
(•)	UPRIGHT SPRINKLER
(FS)	FLOW SWITCH
(ARV)	AIR RELEASE VALVE
(ACT)	AIR CUSHION TANK

**SPRINKLER DIAMETER SCHEDULE**

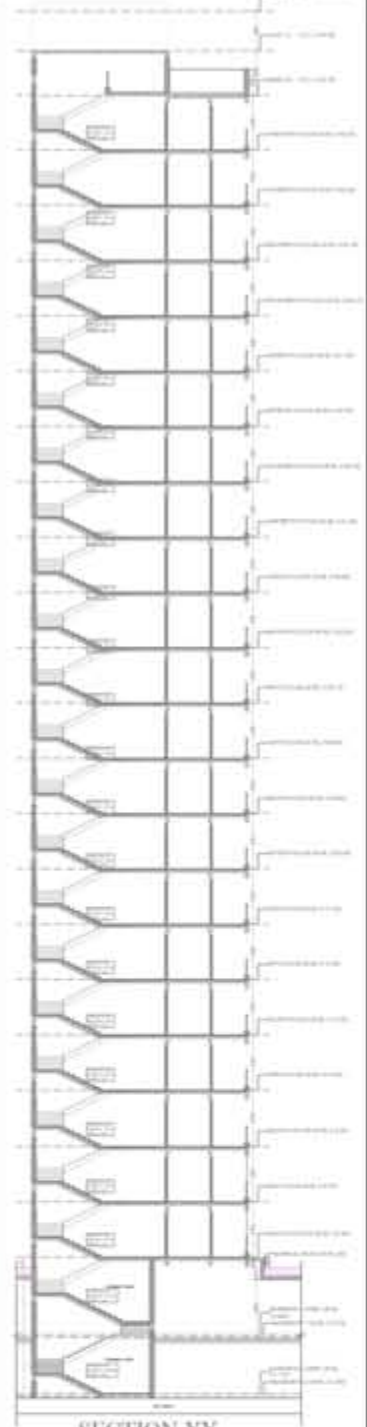
S.NO	NO. OF SPR.	DIAMETER
1.	1-2	250
2.	3	320
3.	4-5	400
4.	5-10	500
5.	11-30	650
6.	31-60	800
7.	61-100	1000
8.	100 Above	1500

**NOTES:**

- EVERY FHC CONTAIN FOLLOWING ITEMS:-
  - SINGLE HEADED LANDING VALVE
  - 2 Nos. 22.5m EACH LONG RRL HOSE
  - HOSE REEL DRUM WITH RUBBER HOSE
  - FIRE MAN AXE
  - BRANCH PIPE
  - 4.5 Kg. WATER CO2 TYPE FIRE EXTINGUISHER
  - 9 Lt. WATER TYPE FIRE EXTINGUISHER

FOR OTHER DETAIL, PLEASE REFER TYPICAL FHC DETAIL.

**REFUGE AREA CALCULATION:**  
 FLOOR AREA OF 18TH FLOOR: 1079.97 SQM  
 FLOOR AREA OF 19TH FLOOR: 1084.92 SQM  
 TOTAL GROSS FLOOR AREA : 2174.89 SQM  
 POPULATION \* X/12.5 : 173.99 \* 174  
 REFUGE AREA REQUIRED : 174 X 0.3 \* 0.9  
 53.1 SQM  
 REFUGE AREA PROVIDED : 26.75 X 2  
 53.5 SQM



SECTION XX

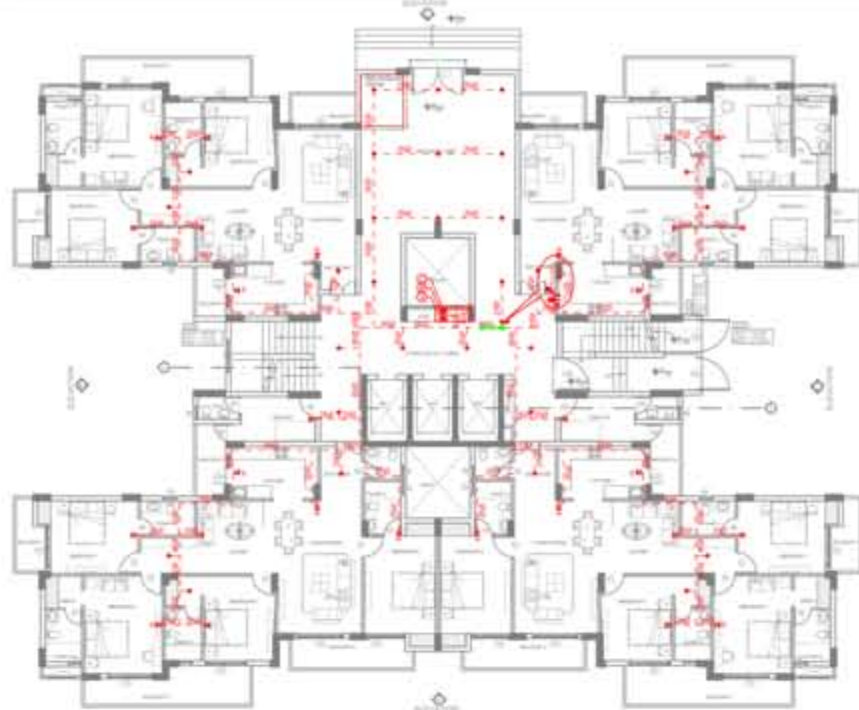
**STAGE :** FIRE SUBMISSION

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 GROUP HOUSING -1, ITP - 2,  
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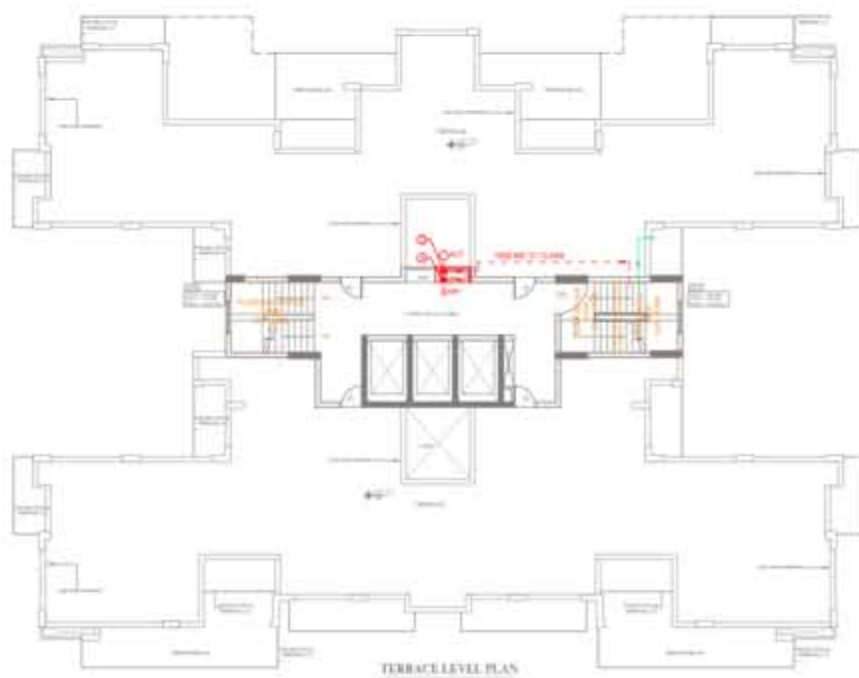
**DWG. TITLE :**  
 FIRE FIGHTING LAYOUT  
 BLOCK "A & D"



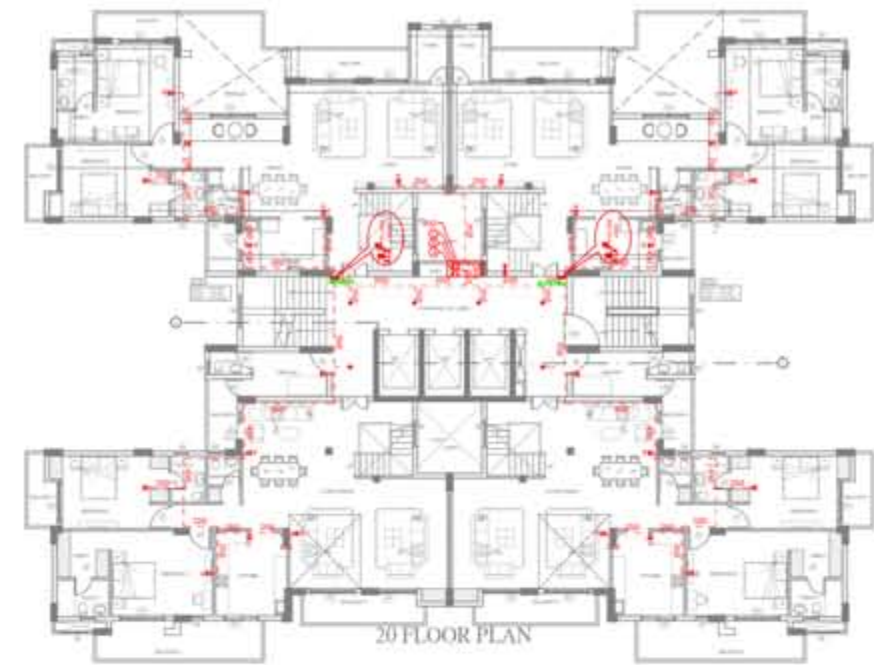
GROUND FLOOR PLAN



TYPICAL FLOOR PLAN (1ST TO 19TH FLOOR)



TERRACE LEVEL PLAN



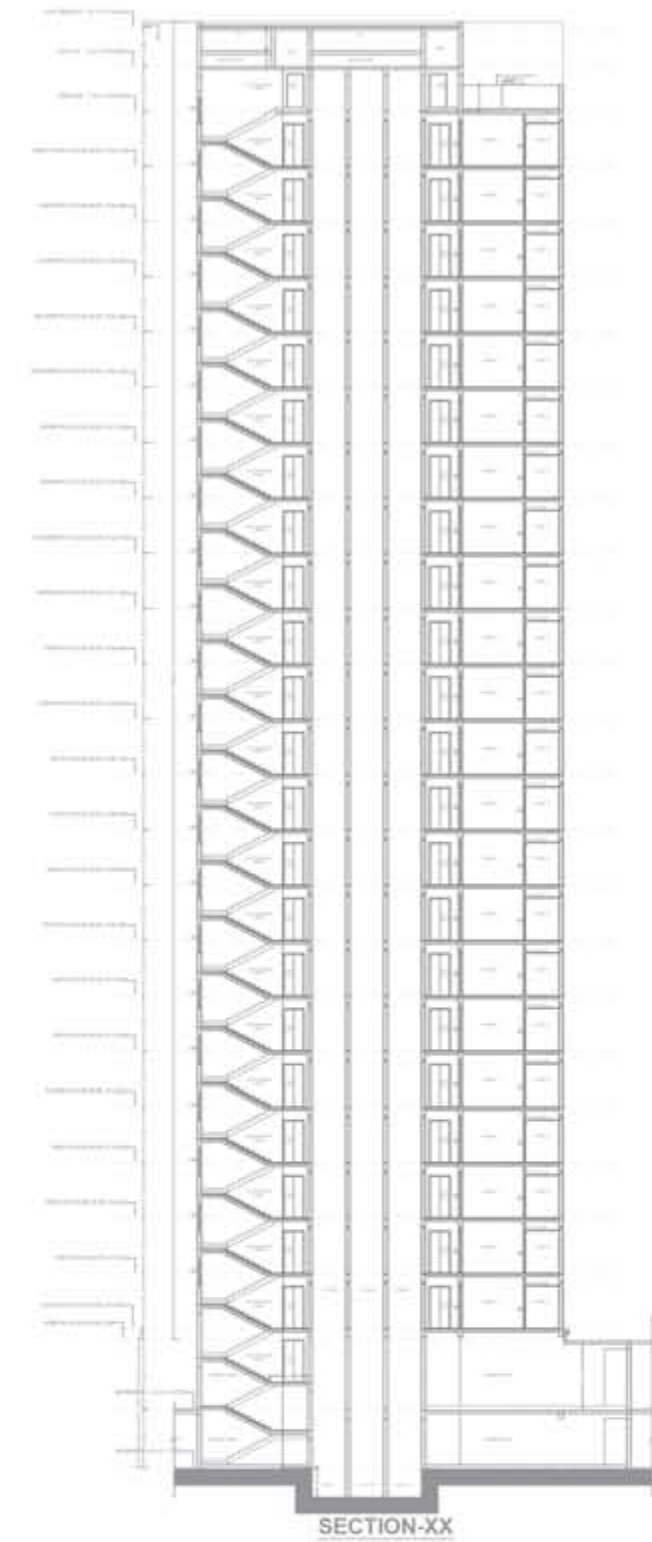
20th FLOOR PLAN



21st FLOOR PLAN



10th FLOOR PLAN



SECTION-XX

**REFUGE AREA CALCULATION:**  
 FLOOR AREA OF 18TH FLOOR: 918.00 SQM  
 FLOOR AREA OF 19TH FLOOR: 918.00 SQM  
 TOTAL GROSS FLOOR AREA : 1836 SQM  
 POPULATION = X/12.5 : 146.88 =147  
 REFUGE AREA REQUIRED : 147 X0.3 +0.9 : 45.9 SQM  
 REFUGE AREA PROVIDED : 23.3 + 22.0 : 45.3 SQM

**NOTES:**  
 1. EVERY FHC CONTAIN FOLLOWING ITEMS:-  
 a.) SINGLE HEADED LANDING VALVE  
 b.) 2 Nos. 22.5m EACH LONG RRL HOSE  
 c.) HOSE REEL DRUM WITH RUBBER HOSE  
 d.) FIRE MAN AXE  
 e.) BRANCH PIPE  
 f.) 4.5 Kg. WATER CO2 TYPE FIRE EXTINGUISHER  
 g.) 9 Lb. WATER TYPE FIRE EXTINGUISHER  
 FOR OTHER DETAIL PLEASE REFER TYPICAL FHC DETAIL.

**FIRE FIGHTING LEGEND:-**

SYMBOL	DESCRIPTION
(A)	1500 MS "C" CLASS HYDRANT PIPE
(B)	500 MS "B" CLASS SPRINKLER DRAIN PIPE
(C)	1500 MS "C" CLASS SPRINKLER PIPE
(FHC)	FIRE HOSE CABINET
(BFV)	BUTTERFLY VALVE
(NRV)	NON RETURN VALVE
(SWSP)	SIDE WALL SPRINKLER
(USP)	UPRIGHT SPRINKLER
(FS)	FLOW SWITCH
(ARV)	AIR RELEASE VALVE
(ACT)	AIR CUSHION TANK

**SPRINKLER DIAMETER SCHEDULE**

S.NO	NO. OF SPR.	DIAMETER
1.	1-2	250
2.	3	320
3.	4-5	400
4.	5-10	500
5.	11-30	650
6.	31-60	800
7.	61-100	1000
8.	100 Above	1500

**STAGE : FIRE SUBMISSION**

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 royalex07@gmail.com

**PROJECT :**  
 GROUP HOUSING -1, ITP - 2,  
 SITUATED AT SECTOR -D IN  
 SUSHANT GOLF CITY AT  
 SULTANPUR ROAD , LUCKNOW  
 [U.P.]

**DWG. TITLE :**  
 FIRE FIGHTING LAYOUT  
 BLOCK "B & C"

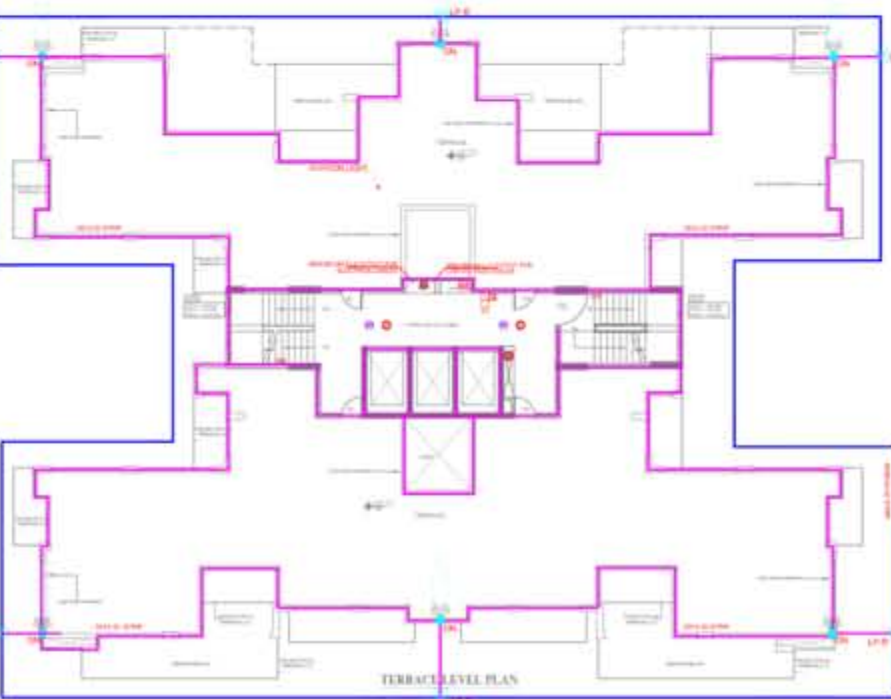




GROUND FLOOR PLAN



TYPICAL FLOOR PLAN (1ST TO 19TH FLOOR)



TERRACE LEVEL PLAN



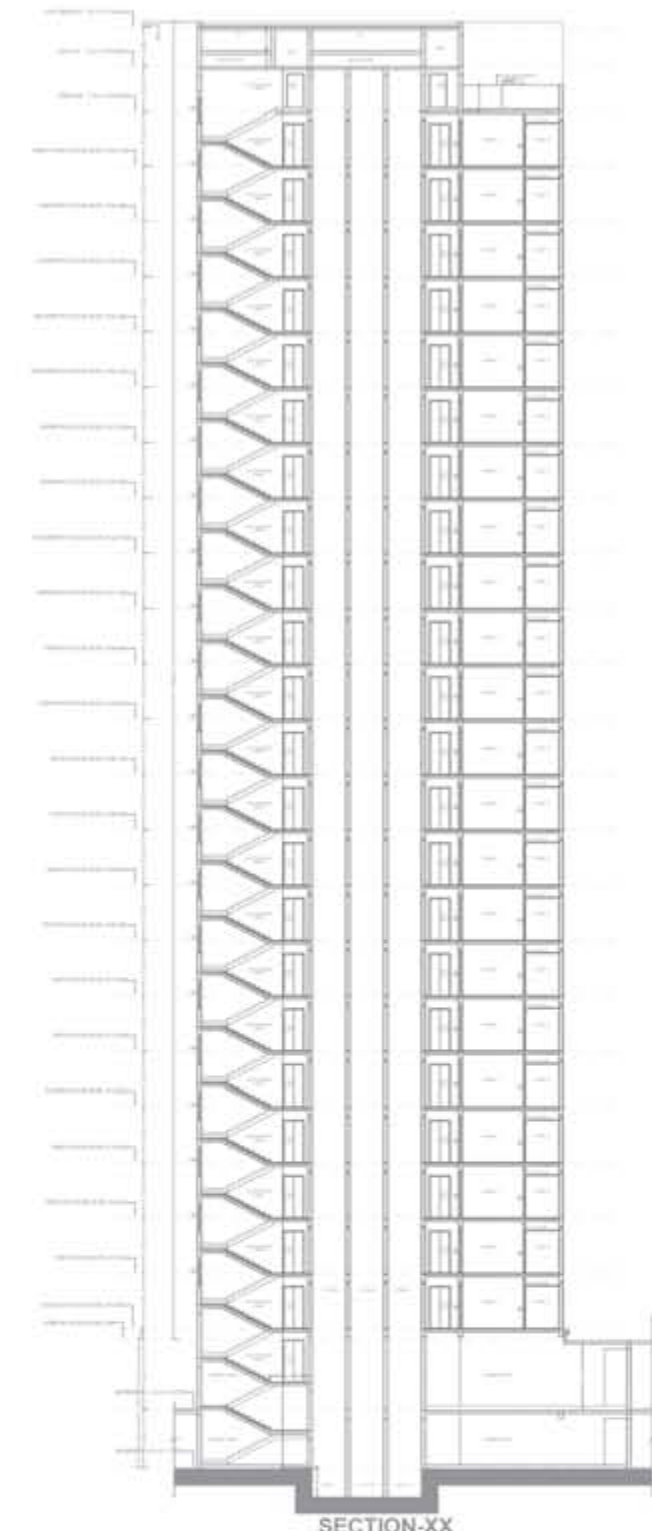
20 FLOOR PLAN



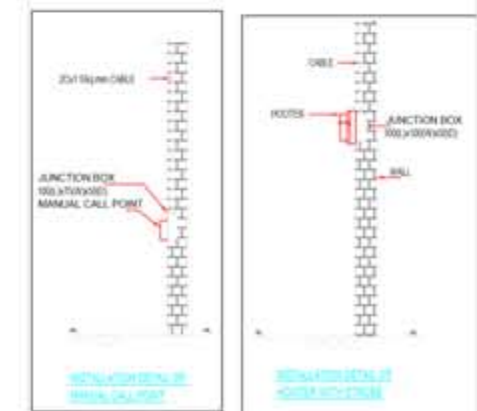
21st. FLOOR PLAN



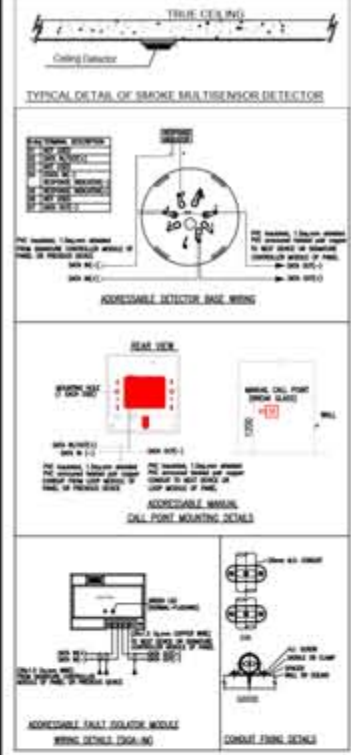
20TH FLOOR PLAN



SECTION-XX



- NOTES:
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED
  - 2) MANUAL CALL POINT HAS TO BE PROVIDED AT A HEIGHT OF 1.2 MTS. FROM FFL
  - 3) HORN/STROBE HAS TO BE PROVIDED AT A HEIGHT OF 2.2 MTS. FROM FFL
  - 4) 1 FANAL ISOLATOR HAS TO BE PROVIDED FOR EVERY 30 DETECTORS
  - 5) ALL DETECTOR IS TO BE INSTALLED AT CEILING LEVEL
  - 6) PA SPEAKER HAS TO BE PROVIDED AT A HEIGHT OF 1.4 MTS. FROM FFL
  - 7) THE CABLE ROUTING INDICATED IN THE DRAWING IS REFERENCED TO THE EXACT ROUTING SHALL BE CARRIED OUT TO SUIT SITE CONDITION & CO-ORDINATED WITH OTHER SERVICES.



LEGEND:

Blue line	WIRING
Red dot	SMOKE DETECTOR
Red square	MANUAL CALL POINT
Red circle	PA SPEAKER
Red rectangle	ISOLATOR
Red line	VERTICAL CABLE CONDUIT

SYMBOLS:

Red circle with dot	SMOKE DETECTOR
Red square	MANUAL CALL POINT
Red circle	PA SPEAKER
Red rectangle	ISOLATOR
Red line	VERTICAL CABLE CONDUIT
Red rectangle with dot	SMOKE DETECTOR
Red rectangle with dot	MANUAL CALL POINT
Red rectangle with dot	PA SPEAKER
Red rectangle with dot	ISOLATOR
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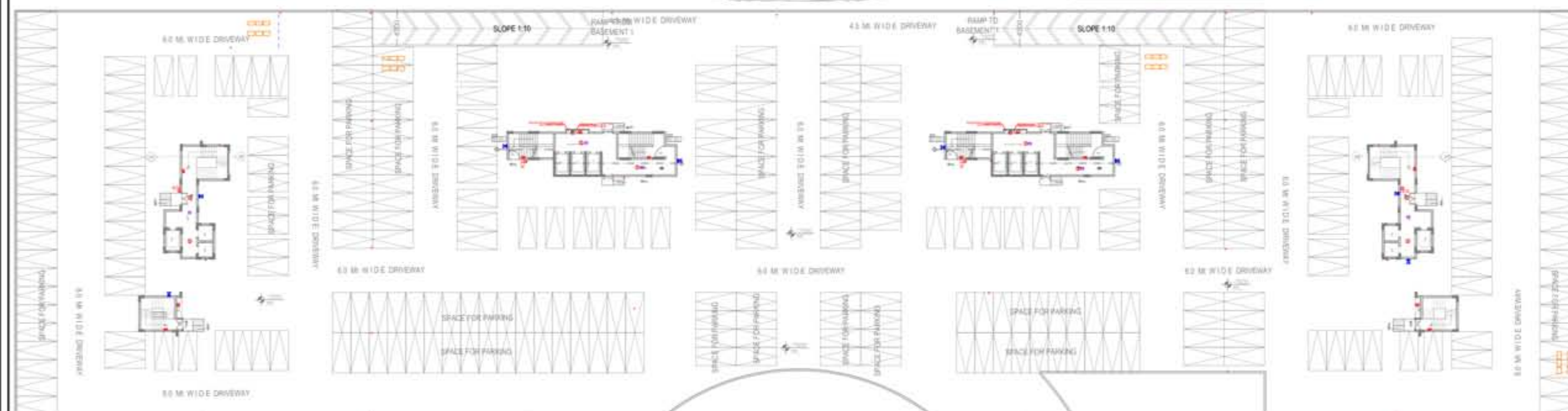
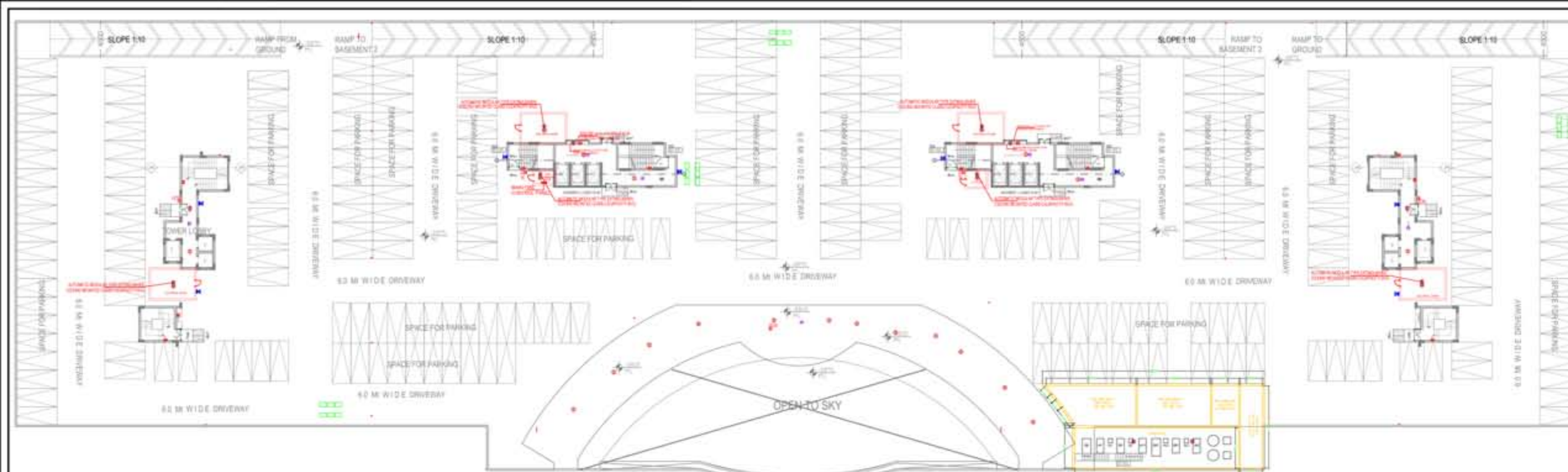
STAGE : FIRE SUBMISSION

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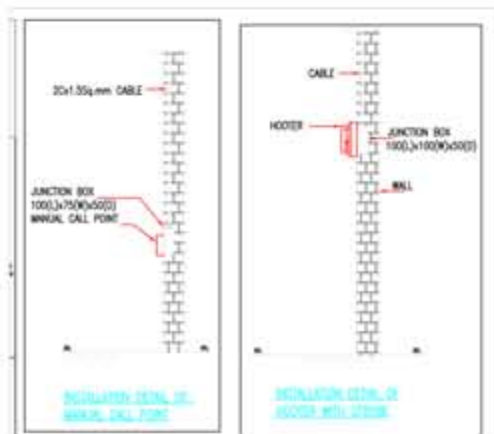
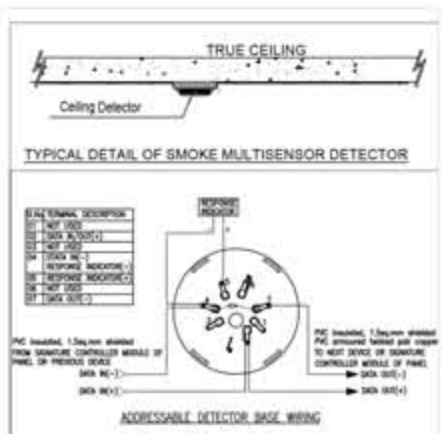
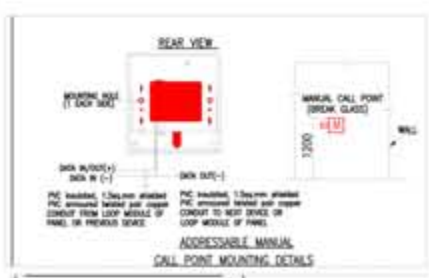
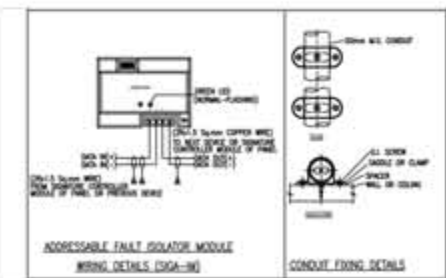
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[U.P.]

DWG. TITLE :  
FIRE ALARM LAYOUT  
BLOCK "B & C"



BASEMENT 2 PLAN



LEGEND	
	SMOKE DETECTOR
	MULTI CRITERIA DETECTOR
	HEAT DETECTOR
	AUTOMATIC MODULAR TYPE EXTINGUISHER
	CEILING SPEAKER
	WALL MOUNTED SPEAKER
	HOOTER
	MANUAL CALL POINT
	CONTROL MODULE
	TELEPHONE FIRE JACK
	MONITOR MODULE
	FIRE ALARM PANEL

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  - 3) HOON/STROBE HAS TO BE PROVIDED AT A HEIGHT OF 2.2 MTS. FROM FFL.
  - 4) 1 FINAL ISOLATOR HAS TO BE PROVIDED FOR EVERY 20 DETECTORS
  - 5) ALL CABLES TO BE INSTALLED AT CEILING LEVEL.
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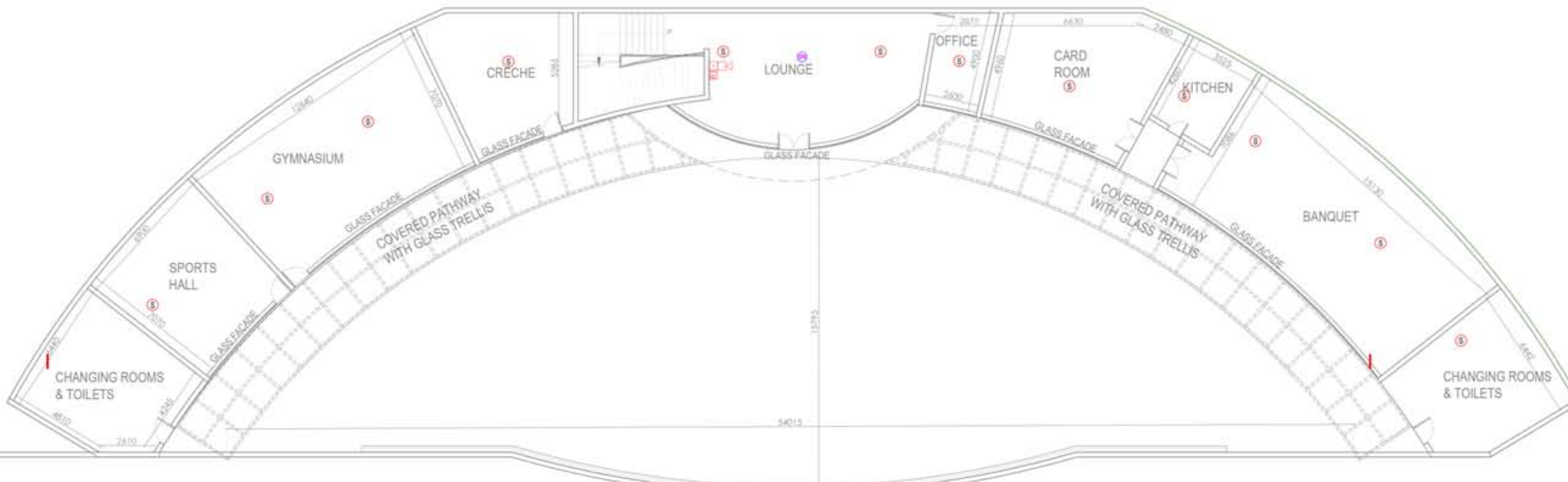
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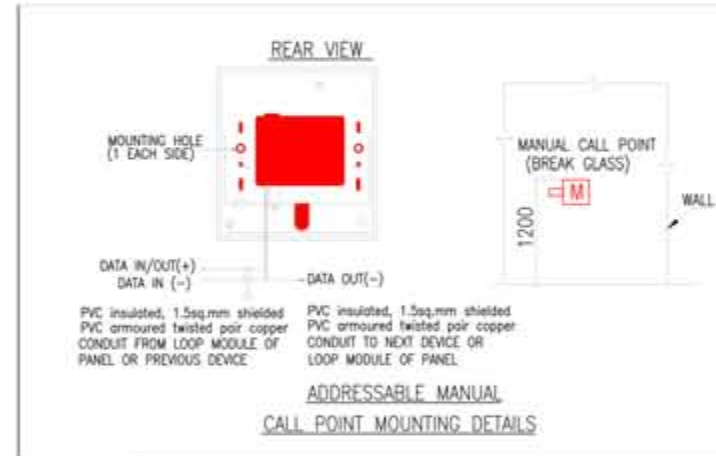
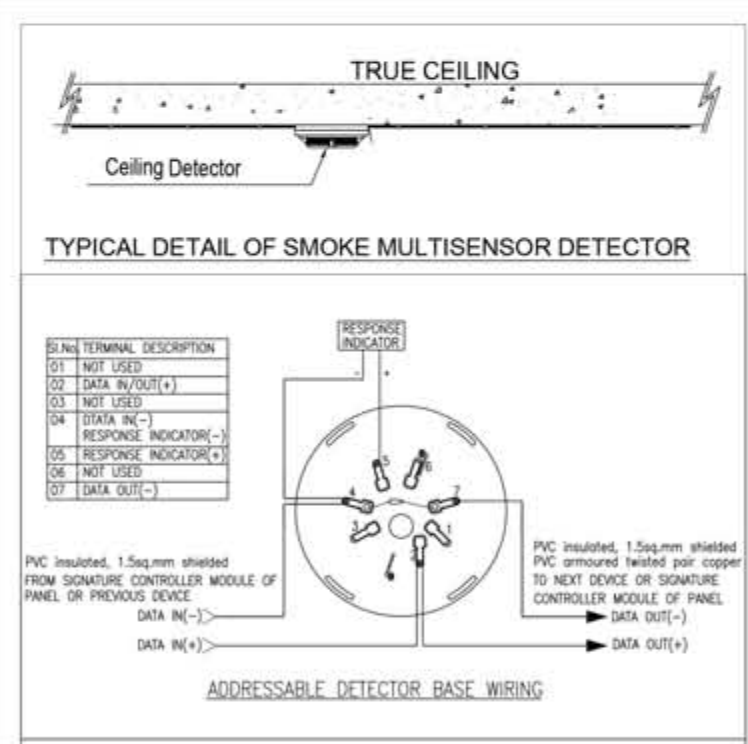
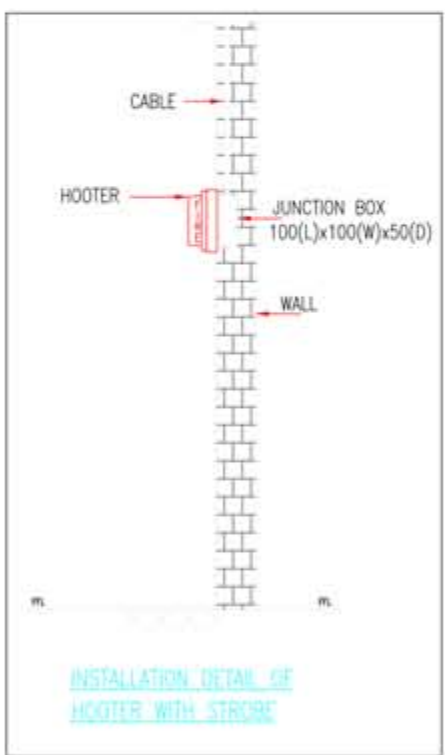
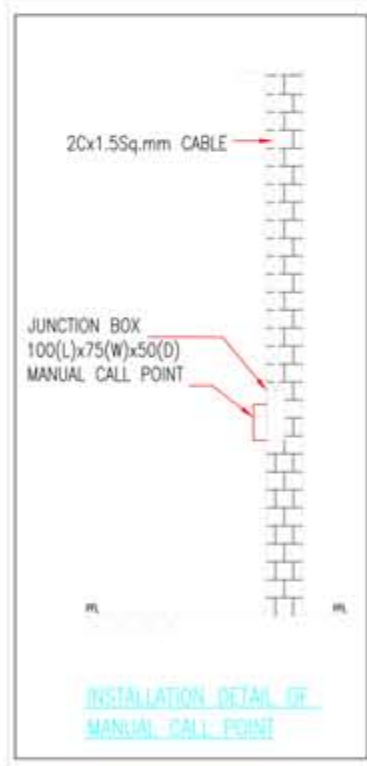
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**[U.P.]**

DWG. TITLE :  
**BASEMENT 1 & 2 PLAN FIRE**  
**ALARM LAYOUT**



LOWER GROUND PLAN



LEGEND	
(S)	SMOKE DETECTOR
(M)	MULTI CRITERIA DETECTOR
(H)	HEAT DETECTOR
(C)	AUTOMATIC MODULAR TYPE EXTINGUISHER
(SPK)	CEILING SPEAKER
(WS)	WALL MOUNTED SPEAKER
(H)	HOOTER
(MCP)	MANUAL CALL POINT
(CM)	CONTROL MODULE
(TFJ)	TELEPHONE FIRE JACK
(MM)	MONITOR MODULE
(FAP)	FIRE ALARM PANEL

- NOTES:-
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED
  - 2) MANUAL CALL POINT HAS TO BE PROVIDED AT A HEIGHT OF 1.2 MTS. FROM FFL.
  - 3) HORN/STROBE HAS TO BE PROVIDED AT A HEIGHT OF 2.2 MTS. FROM FFL.
  - 4) 1 FAULT ISOLATOR HAS TO BE PROVIDED FOR EVERY 20 DETECTORS
  - 5) ALL CC1,CR & ISO TO BE INSTALL AT CEILING LEVEL.
  - 6) PA SPEAKER HAS TO BE PROVIDED AT A HEIGHT OF 1.4 MTS. FROM FFL.
  - 7) THE CABLE ROUTING INDICATING IN THE DRAWING IS REFERENCE THE EXACT ROUTING SHALL BE CARRIED OUT TO SUIT SITE CONDITION & CO-ORDINATED WITH OTHER SERVICES.

STAGE : **SUBMISSION**

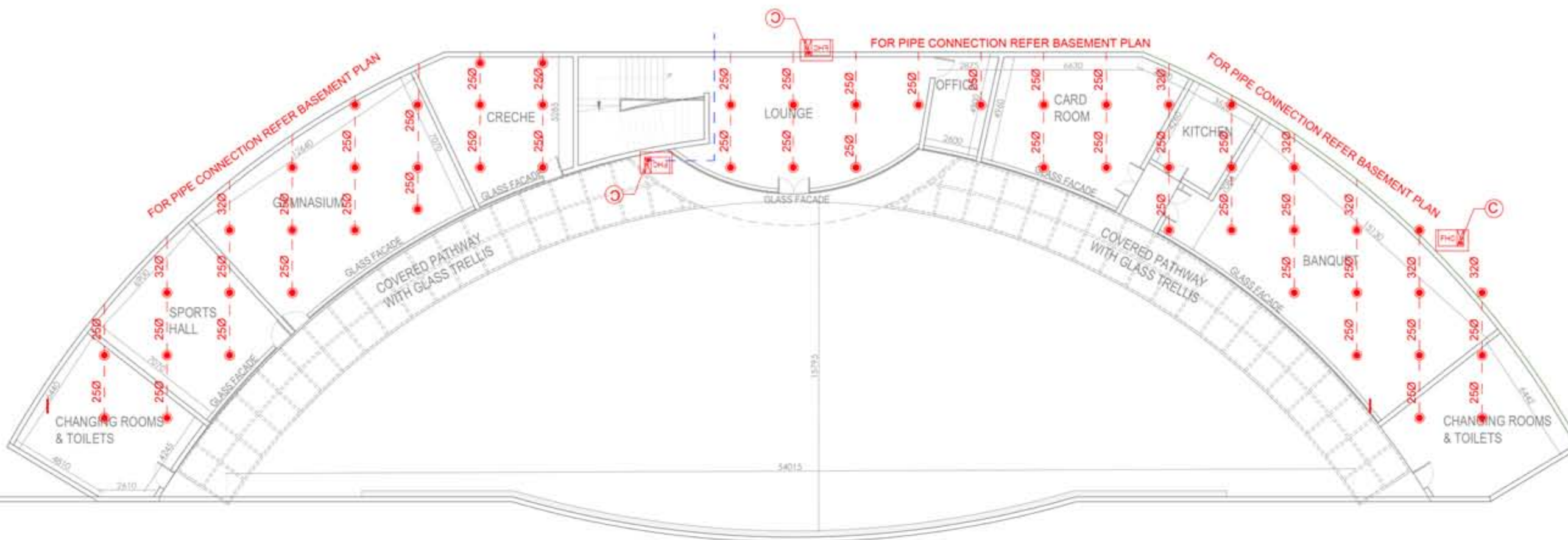
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**ORO INFRA DEVELOPERS LLP**  
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ARCHITECT:  
**K DESIGN**  
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PROJECT :  
**GROUP HOUSING -1, ITP - 2,**  
**SITUATED AT SECTOR -D IN**  
**SUSHANT GOLF CITY AT**  
**SULTANPUR ROAD , LUCKNOW**  
**[U.P.]**

DWG. TITLE :  
**FIRE ALARM LAYOUT**  
**LOWER GROUND PLAN**





**FIRE FIGHTING LEGEND:-**

SYMBOL	DESCRIPTION
Ⓢ	800 MS "C" CLASS SPRINKLER PIPE
FHC	FIRE HOSE CABINET
BFV	BUTTERFLY VALVE
NRV	NON RETURN VALVE
SWSP	SIDE WALL SPRINKLER
US	UPRIGHT SPRINKLER
FS	FLOW SWITCH
ARV	AIR RELEASE VALVE
ACT	AIR CUSHION TANK

**SPRINKLER DIAMETER SCHEDULE**

S.NO.	NO. OF SPR.	DIAMETER
1.	1-2	250
2.	3	320
3.	4-5	400
4.	5-10	500
5.	11-30	650
6.	31-60	800
7.	61-100	1000
8.	100 Above	1500

**NOTES :**

1. EVERY FHC CONTAIN FOLLOWING ITEMS:-
  - a.) SINGLE HEADED LANDING VALVE
  - b.) 2 Nos. 22.5m EACH LONG RRL HOSE.
  - c.) HOSE REEL DRUM WITH RUBBER HOSE.
  - d.) FIRE MAN AXE.
  - e.) BRANCH PIPE.
  - f.) 4.5 Kg. WATER CO2 TYPE FIRE EXTINGUISHER.
  - g.) 9 Ltr. WATER TYPE FIRE EXTINGUISHER

FOR OTHER DETAIL PLEASE REFER TYPICAL FHC DETAIL.

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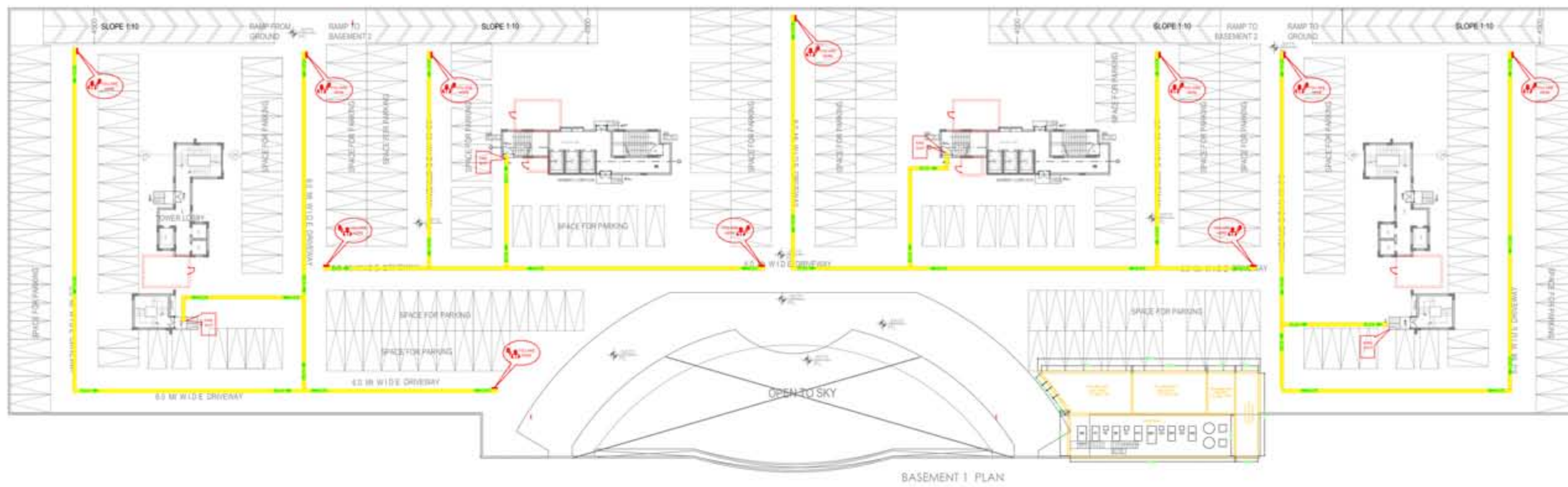
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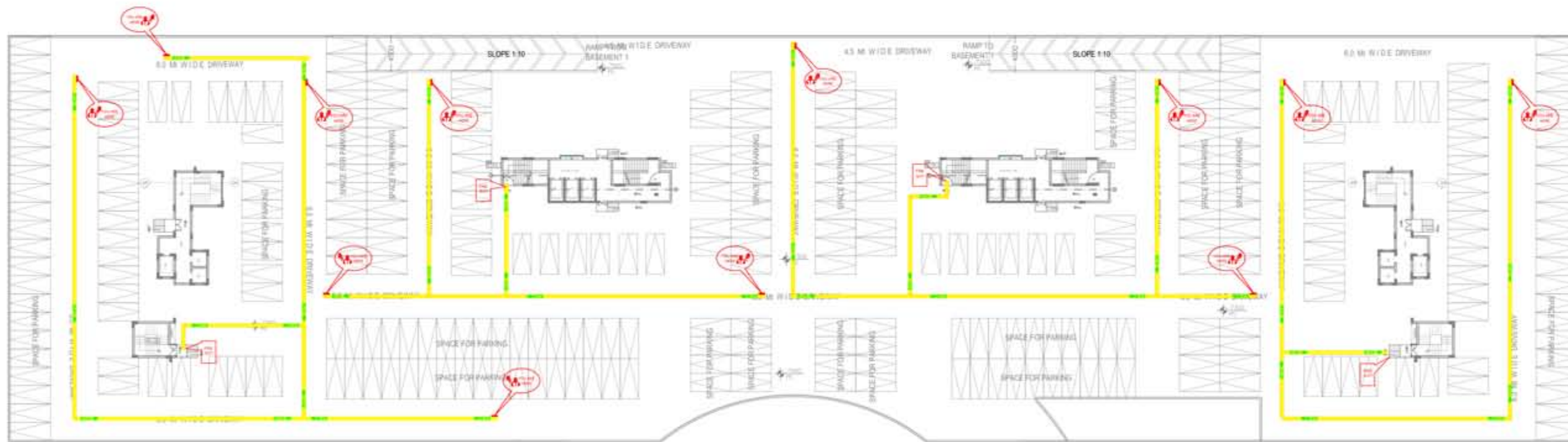
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DWG. TITLE :

**FIRE FIGHTING LAYOUT  
 LOWER GROUND PLAN**



BASEMENT 1 PLAN



BASEMENT 2 PLAN

LEGEND	
	EXIT SIGNAGE

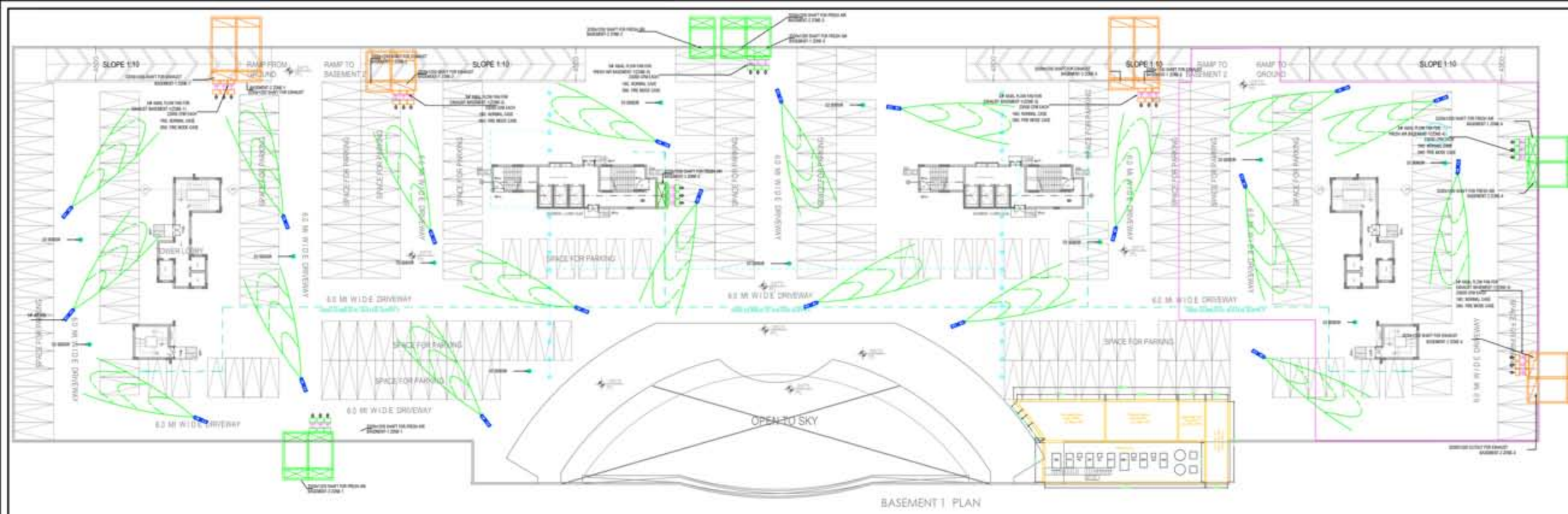
STAGE : FIRE SUBMISSION

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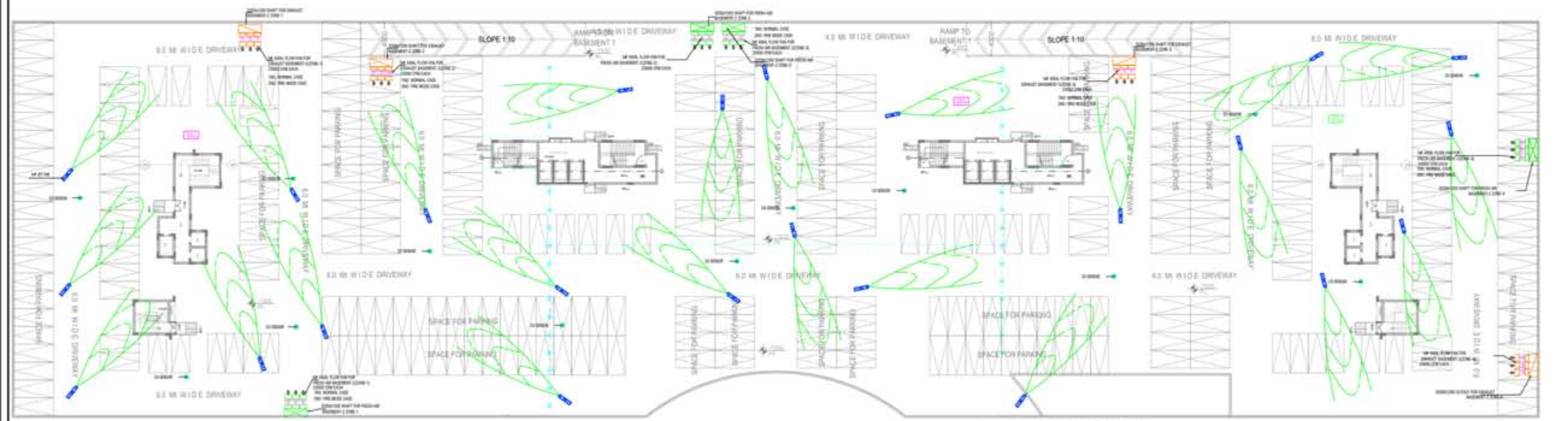
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 [U.P.]

DWG. TITLE :  
 FIRE SIGNAGE LAYOUT  
 BASEMENT 1 & 2 PLAN



BASEMENT 1 PLAN



BASEMENT 2 PLAN

Sl. No.	Description	Qty	Unit	Material	Remarks
1	...	...	...	...	...
2	...	...	...	...	...
3	...	...	...	...	...
4	...	...	...	...	...
5	...	...	...	...	...
6	...	...	...	...	...
7	...	...	...	...	...
8	...	...	...	...	...
9	...	...	...	...	...
10	...	...	...	...	...

- NOTES:**
- 1) ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED
  - 2) MINIMAL FALL POINT HAS TO BE PROVIDED AT A HEIGHT OF 1.2 MTS FROM PFL.
  - 3) VIBRATOR/CORNER HAS TO BE PROVIDED AT A HEIGHT OF 2.2 MTS FROM PFL.
  - 4) 1 FULLY ISOLATOR HAS TO BE PROVIDED FOR EVERY 20 DETECTORS
  - 5) ALL CABLE & ISO TO BE INSTALLED AT CEILING LEVEL.
  - 6) IN SPREADER HAS TO BE PROVIDED AT A HEIGHT OF 1.4 MTS FROM PFL.
  - 7) THE CABLE ROUTING INDICATED IN THE DRAWING IS REFERENCE THE EXACT ROUTING SHALL BE CARRIED OUT TO SUIT SITE CONDITION & CO-ORDINATED WITH OTHER SERVICES.

**STAGE :** FIRE SUBMISSION

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**DWG. TITLE :**  
 FIRE SUBMISSION HVAC  
 LAYOUT  
 BASEMENT 1 & 2 PLAN