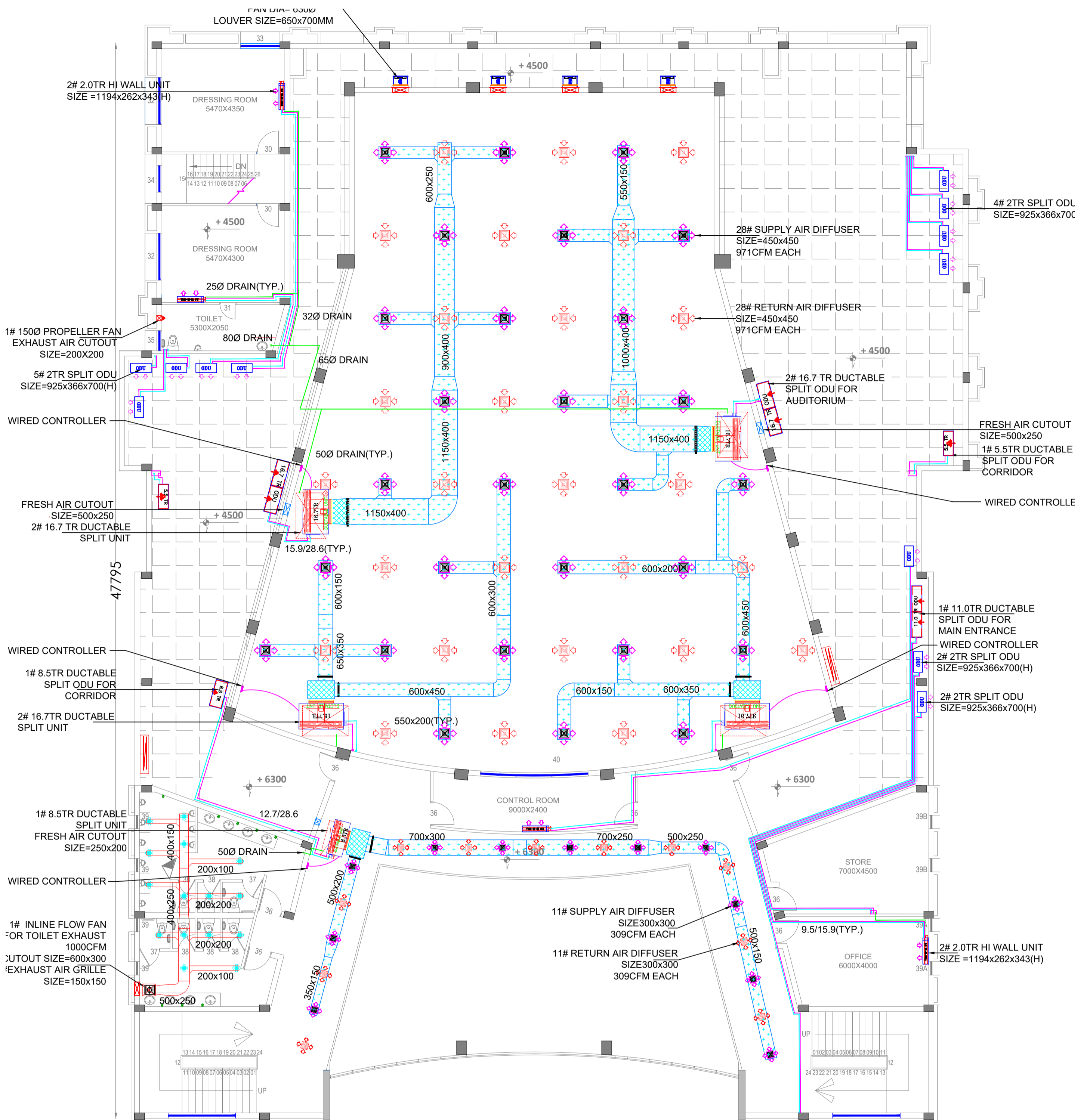


## GROUND FLOOR HVAC LAYOUT PLAN

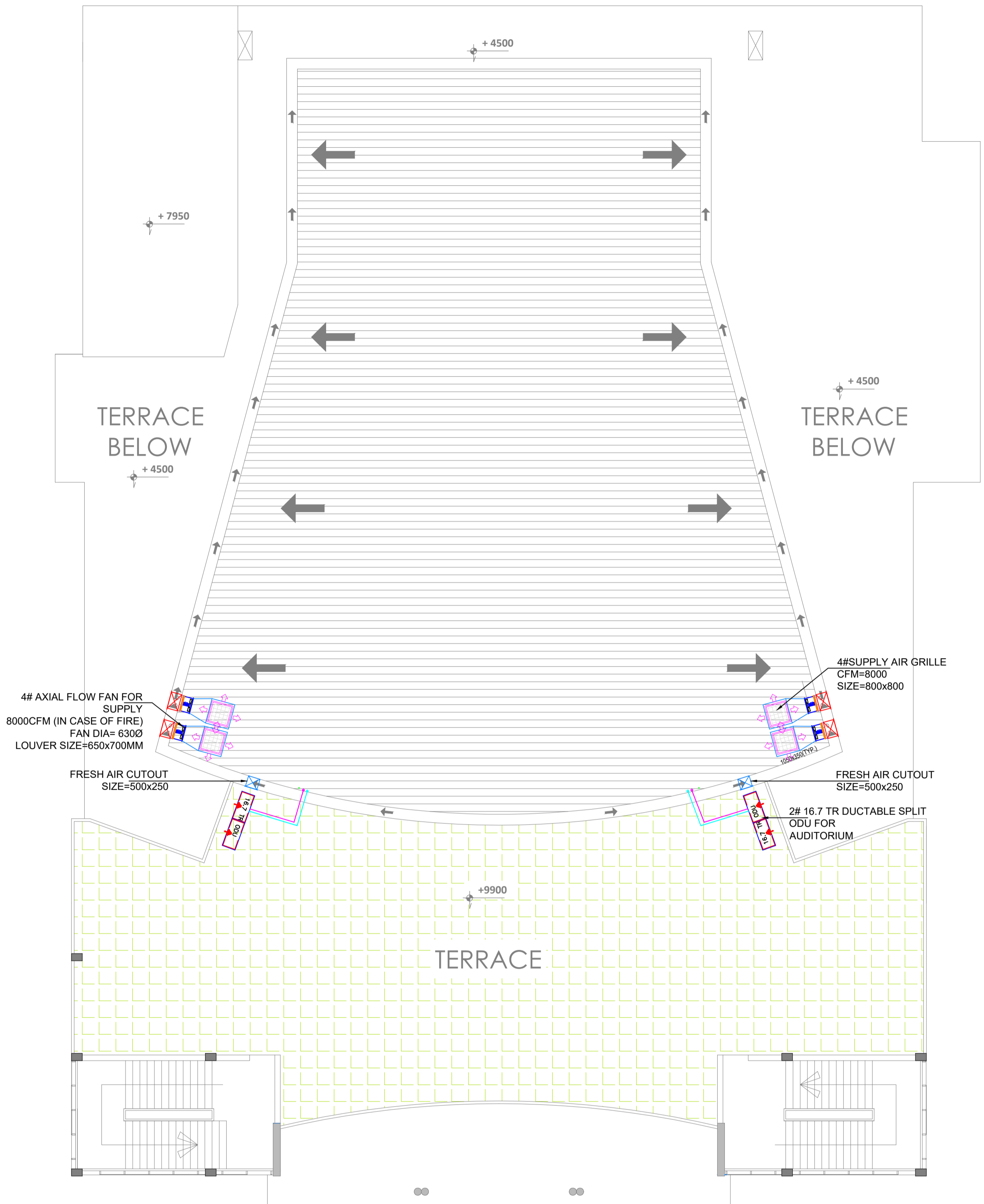
G. F. COVERED AREA	= 1644.00 Sq.Mt.
F. F. COVERED AREA	560.00 Sq.Mt.





FIRST FLOOR HVAC LAYOUT PLAN

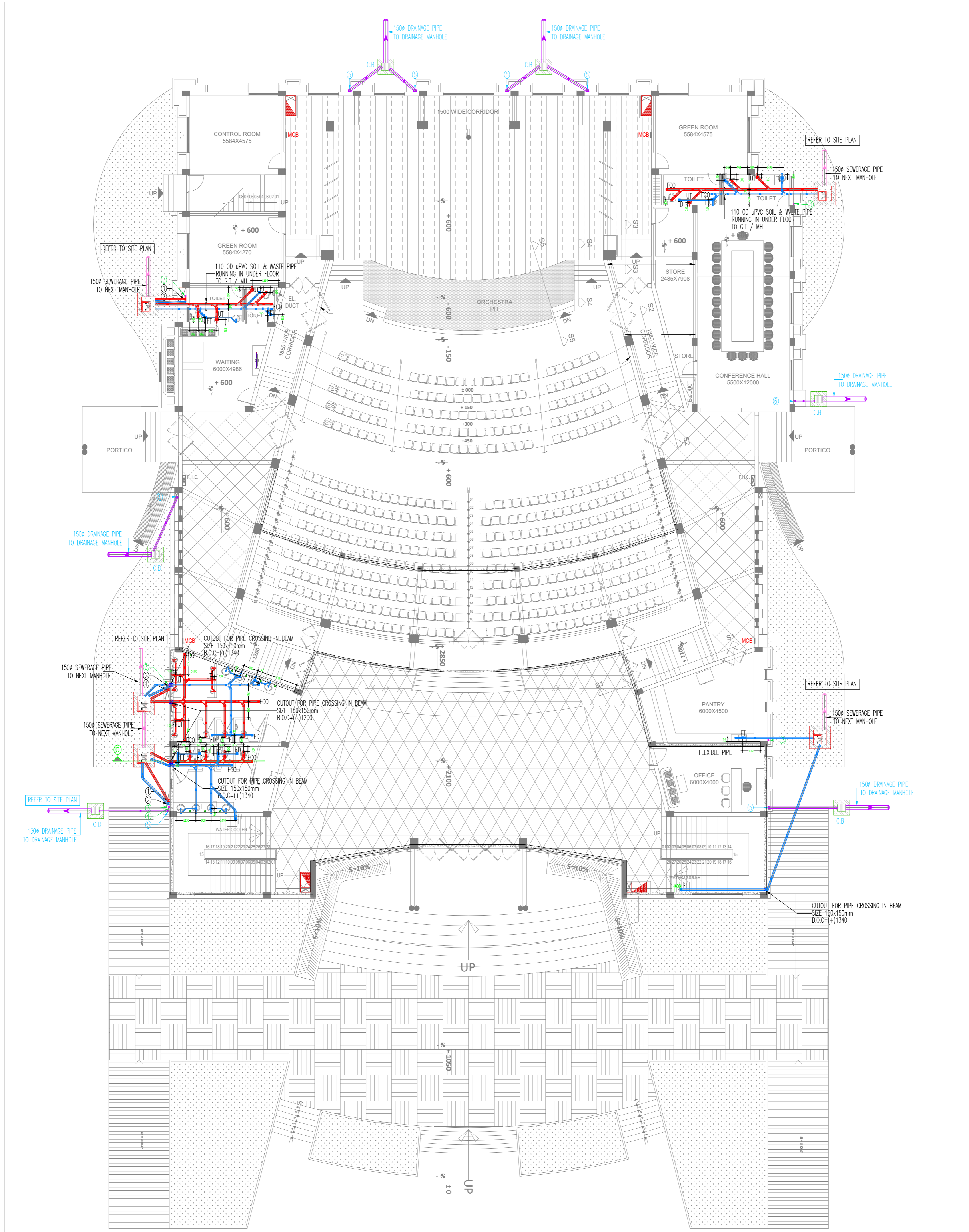




## TERRACE FLOOR HVAC LAYOUT PLAN

G. F. COVERED AREA	= 1644.00 Sq.Mt.
F. F. COVERED AREA	560.00 Sq.Mt.



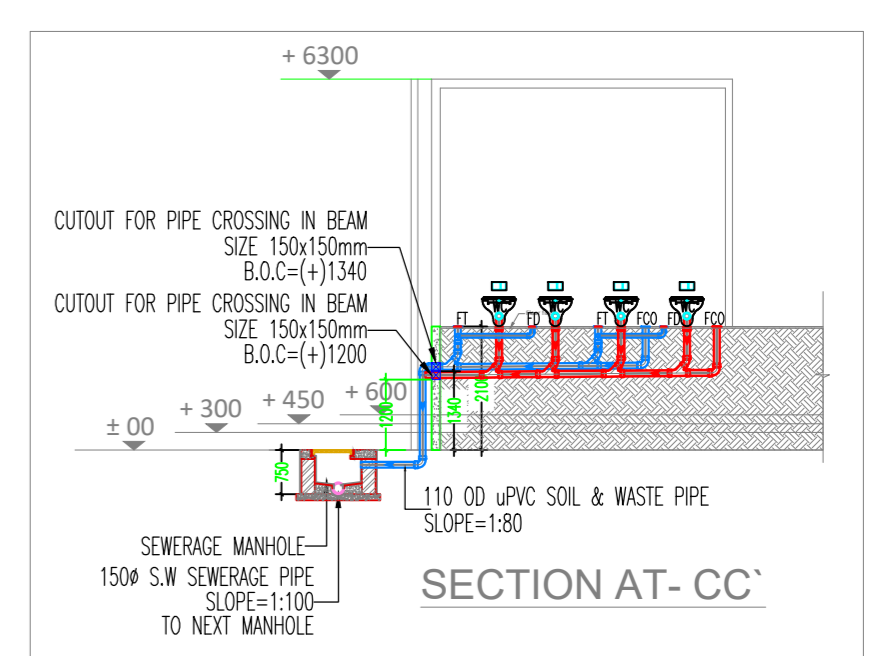


## GROUND FLOOR PLUMBING LAYOUT PLAN

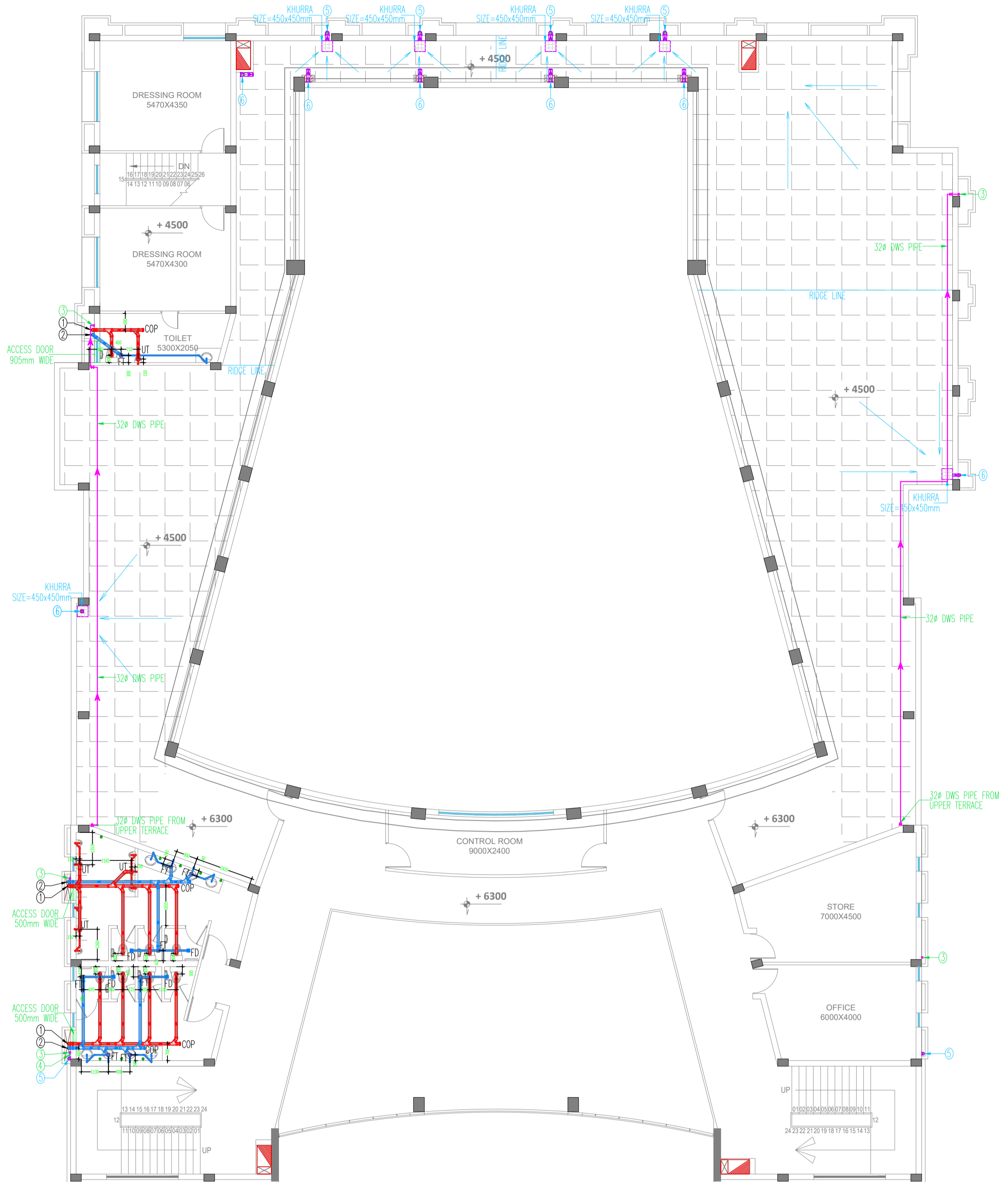
LEGENDS FOR PLUMBING:-	
①	110 OD uPVC SOIL & VENT PIPE
②	110 OD uPVC WASTE & VENT PIPE
③	COLD WATER DOWN TAKE PIPE
④	DOMESTIC WATER RISER PIPE
⑤	160 OD uPVC RAIN WATER PIPE
⑥	110 OD uPVC RAIN WATER PIPE
CB	CATCH BASIN
MH	MANHOLE FOR SEWERAGE (SIZE 800 X 900)
MH	MANHOLE FOR DRAINAGE (SIZE 800 X 900)
→	DOMESTIC WATER SUPPLY RISER PIPE
→	DOMESTIC WATER SUPPLY PIPE
→	SEWERAGE LINE
→	DRAINAGE LINE
⊗	CUTOUT SIZE 150 X 150MM FOR WASTE PIPE
⊗	CUTOUT SIZE 150 X 150MM FOR SOIL PIPE

PLUMBING NOTE:-	
*	WASH BASIN TO FLOOR TRAP 40 OD uPVC WASTE PIPE
*	FLOOR DRAIN TO FLOOR TRAP 63 OD uPVC WASTE PIPE
*	FLOOR TRAP TO VERTICAL WASTE STACK 110 OD uPVC WASTE PIPE
*	WC TO VERTICAL SOIL STACK 110 OD uPVC SOIL PIPE
*	URINAL TO URINAL TRAP 40 OD uPVC SOIL PIPE
*	URINAL TRAP TO VERTICAL SOIL STACK 110 OD uPVC SOIL PIPE
*	HORIZONTAL SOIL PIPE TO MANHOLE 110 OD uPVC SOIL PIPE
*	HORIZONTAL WASTE PIPE TO GULLY TRAP 110 OD uPVC WASTE PIPE
*	VERTICAL WASTE PIPE TO GULLY TRAP 110 OD uPVC WASTE PIPE
*	VERTICAL SOIL PIPE TO MANHOLE 110 OD uPVC SOIL PIPE

**G. F. COVERED AREA = 1644.00 Sq.Mt.**  
**F. F. COVERED AREA = 560.00 Sq.Mt.**







## FIRST FLOOR PLUMBING LAYOUT PLAN

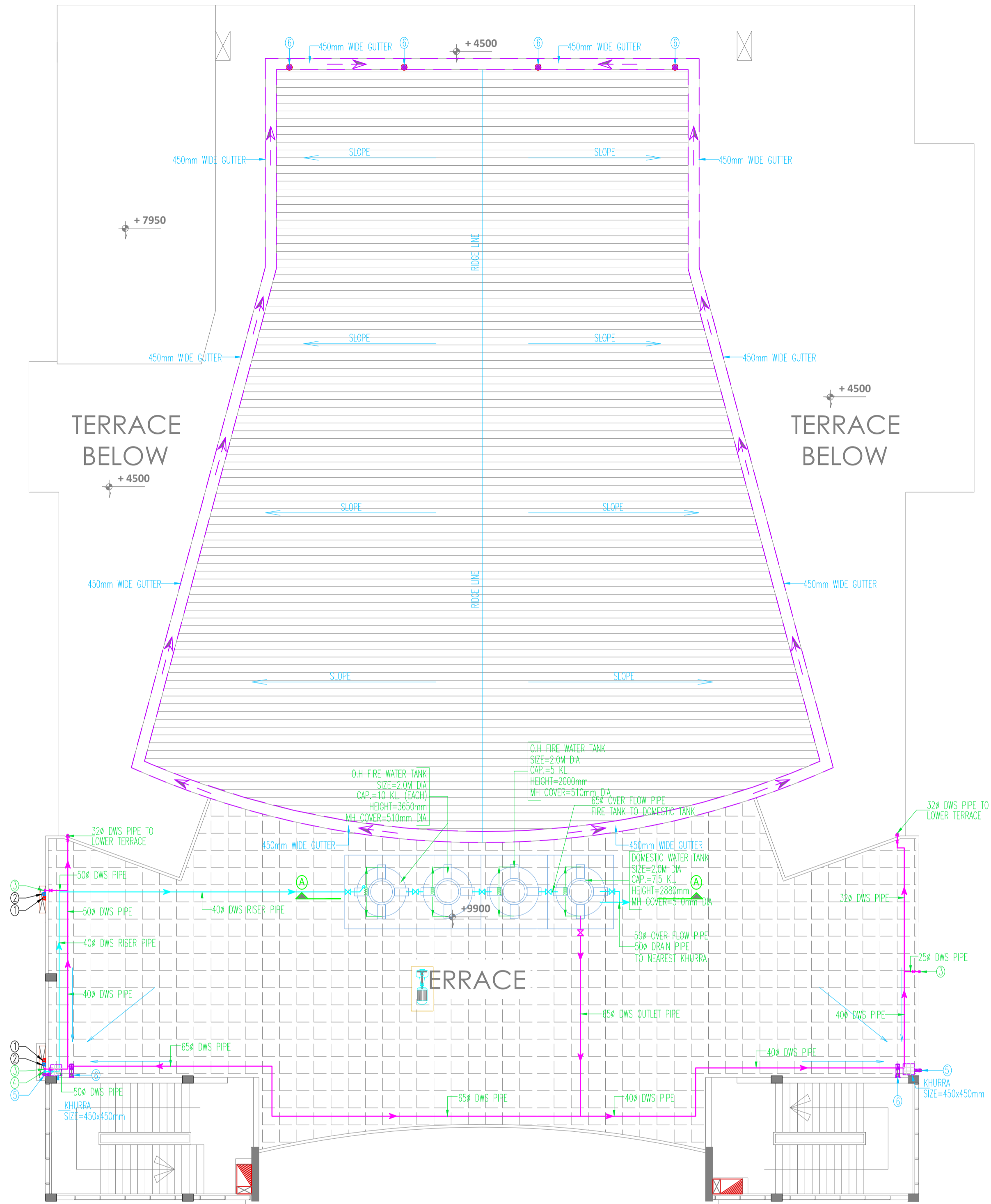
### LEGENDS FOR PLUMBING:-

①	110 OD uPVC SOIL & VENT PIPE
②	110 OD uPVC WASTE & VENT PIPE
③	COLD WATER DOWN TAKE PIPE
④	DOMESTIC WATER RISER PIPE
⑤	160 OD uPVC RAIN WATER PIPE
⑥	110 OD uPVC RAIN WATER PIPE
CB	CATCH BASIN
MH	MANHOLE FOR SEWERAGE (SIZE 800 X 900)
MH	MANHOLE FOR DRAINAGE (SIZE 800 X 900)
→	DOMESTIC WATER SUPPLY RISER PIPE
→	DOMESTIC WATER SUPPLY PIPE
→	SEWERAGE LINE
→	DRAINAGE LINE
⊗	CUTOUT SIZE 150 X 150MM FOR WASTE PIPE
⊗	CUTOUT SIZE 150 X 150MM FOR SOIL PIPE

### PLUMBING NOTE:-

* WASH BASIN TO FLOOR TRAP 40 OD uPVC WASTE PIPE
* FLOOR DRAIN TO FLOOR TRAP 63 OD uPVC WASTE PIPE
* FLOOR TRAP TO VERTICAL WASTE STACK 110 OD uPVC WASTE PIPE
* WC TO VERTICAL SOIL STACK 110 OD uPVC SOIL PIPE
* URINAL TO URINAL TRAP 40 OD uPVC SOIL PIPE
* URINAL TRAP TO VERTICAL SOIL STACK 110 OD uPVC SOIL PIPE
* HORIZONTAL SOIL PIPE TO MANHOLE 110 OD uPVC SOIL PIPE
* HORIZONTAL WASTE PIPE TO GULLY TRAP 110 OD uPVC WASTE PIPE
* VERTICAL WASTE PIPE TO GULLY TRAP 110 OD uPVC WASTE PIPE
* VERTICAL SOIL PIPE TO MANHOLE 110 OD uPVC SOIL PIPE

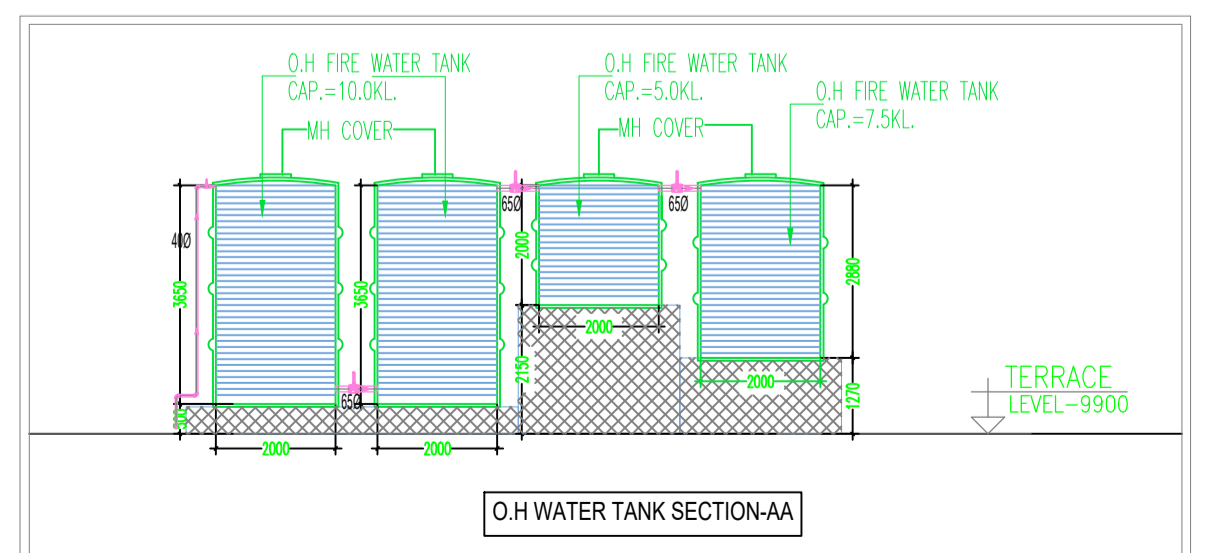


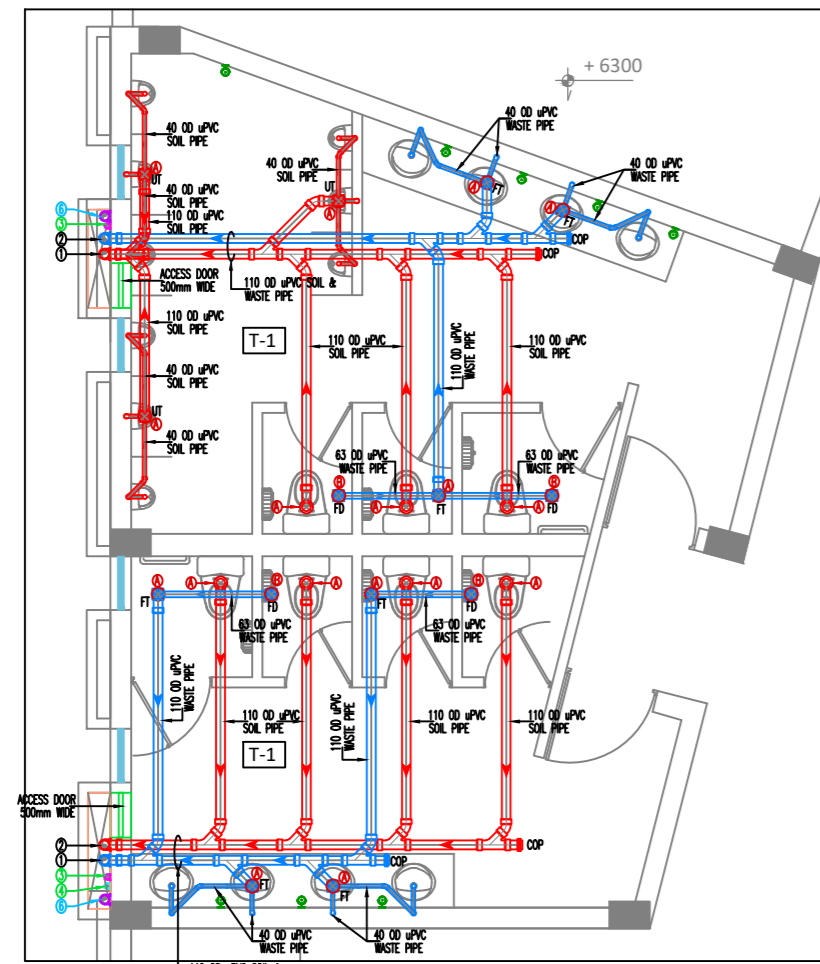


## TERRACE FLOOR PLUMBING LAYOUT PLAN

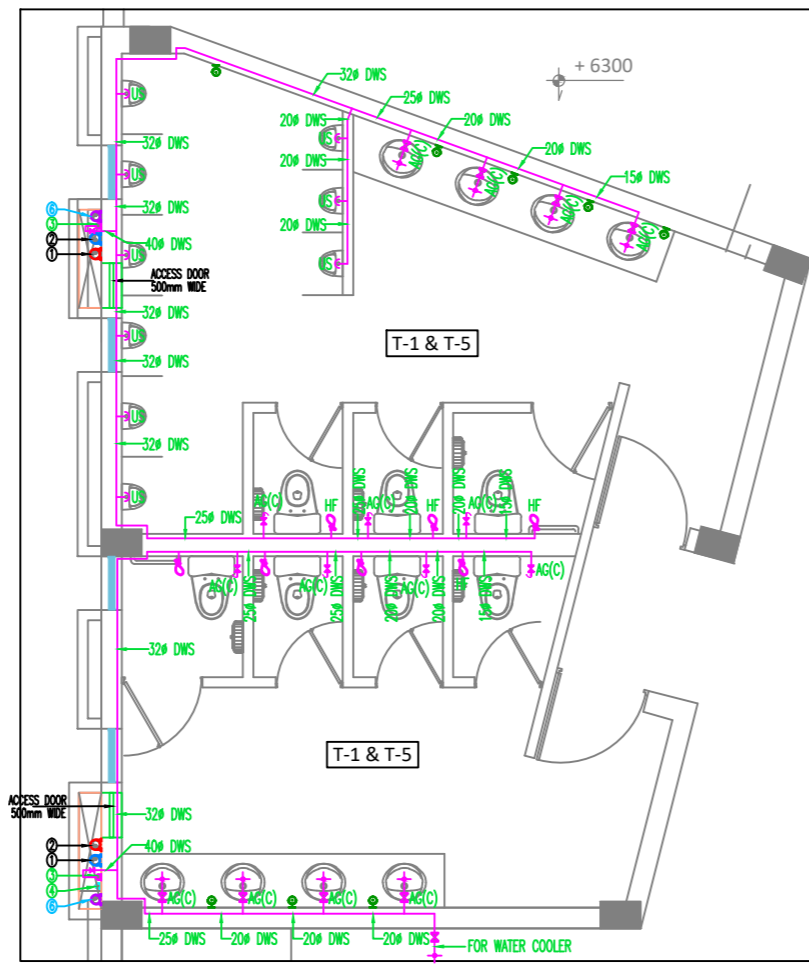
LEGENDS FOR PLUMBING:-	
①	110 OD uPVC SOIL & VENT PIPE
②	110 OD uPVC WASTE & VENT PIPE
③	COLD WATER DOWN TAKE PIPE
④	DOMESTIC WATER RISER PIPE
⑤	160 OD uPVC RAIN WATER PIPE
⑥	110 OD uPVC RAIN WATER PIPE

G. F. COVERED AREA = 1644.00 Sq.Mt.  
 F. F. COVERED AREA = 560.00 Sq.Mt.

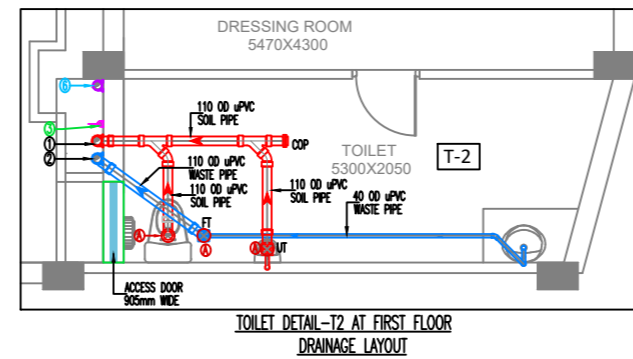




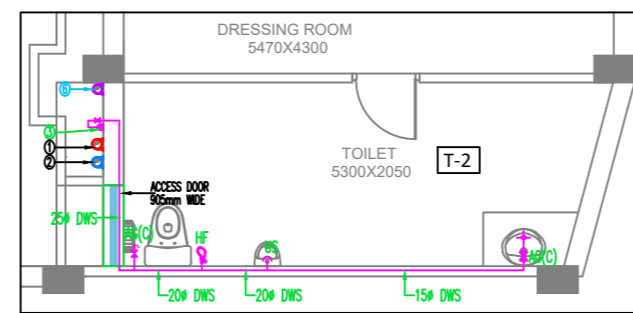
TOILET DETAIL-T1 AT FIRST FLOOR DRAINAGE LAYOUT



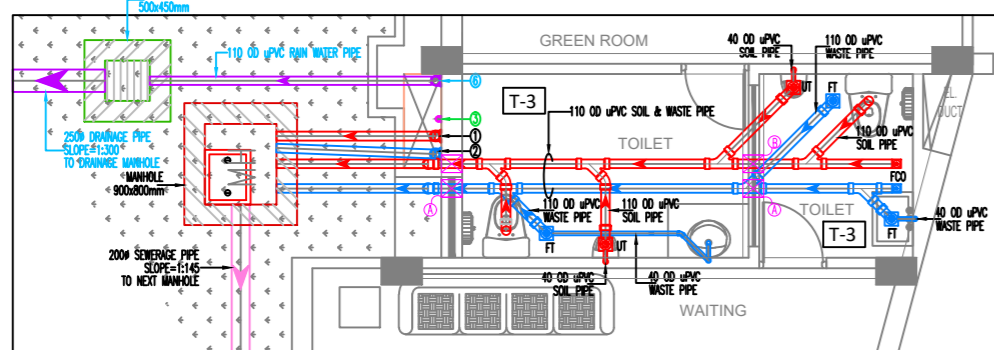
TYPICAL TOILET DETAIL-T1 & T5 AT GROUND & 1st FLOOR LVL WATER SUPPLY LAYOUT



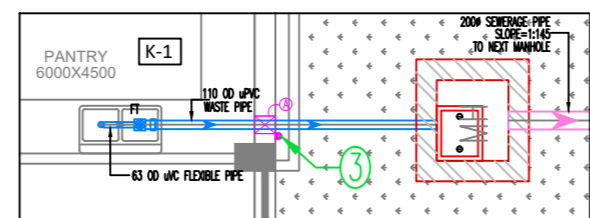
TOILET DETAIL-T2 AT FIRST FLOOR DRAINAGE LAYOUT



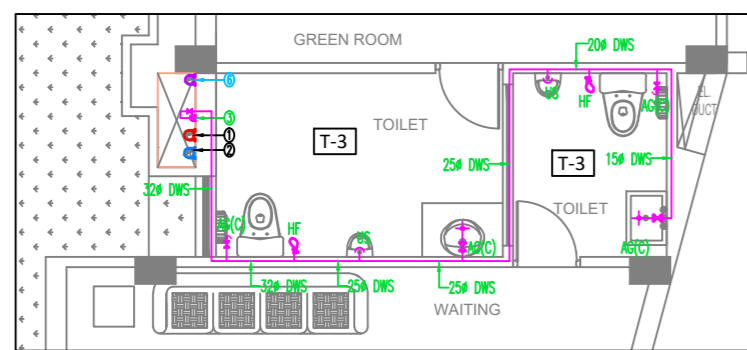
TOILET DETAIL-T2 AT FIRST FLOOR WATER SUPPLY LAYOUT



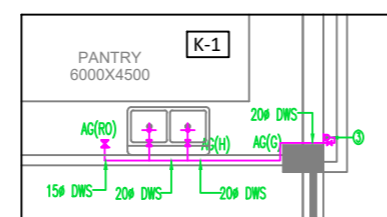
TOILET DETAIL-T3 AT GROUND FLOOR DRAINAGE LAYOUT



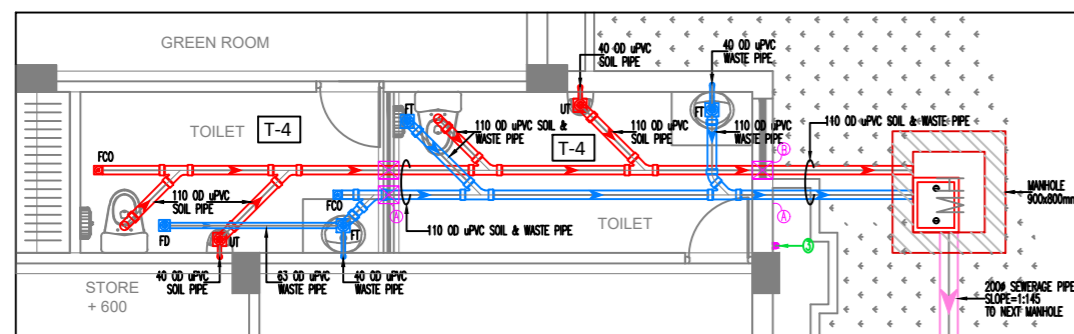
PANTRY DETAIL-K1 AT GROUND FLOOR DRAINAGE LAYOUT



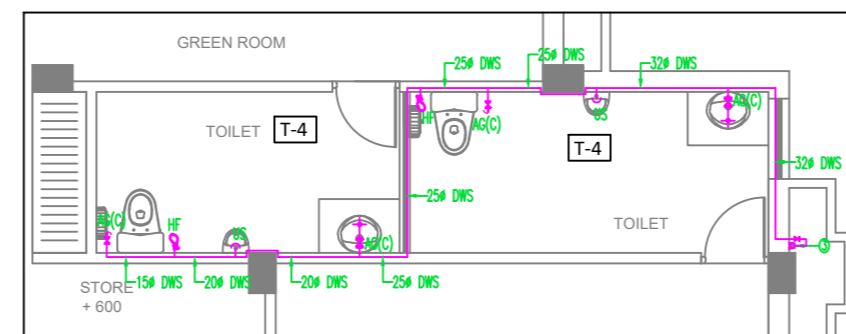
TOILET DETAIL-T3 AT GROUND FLOOR WATER SUPPLY LAYOUT



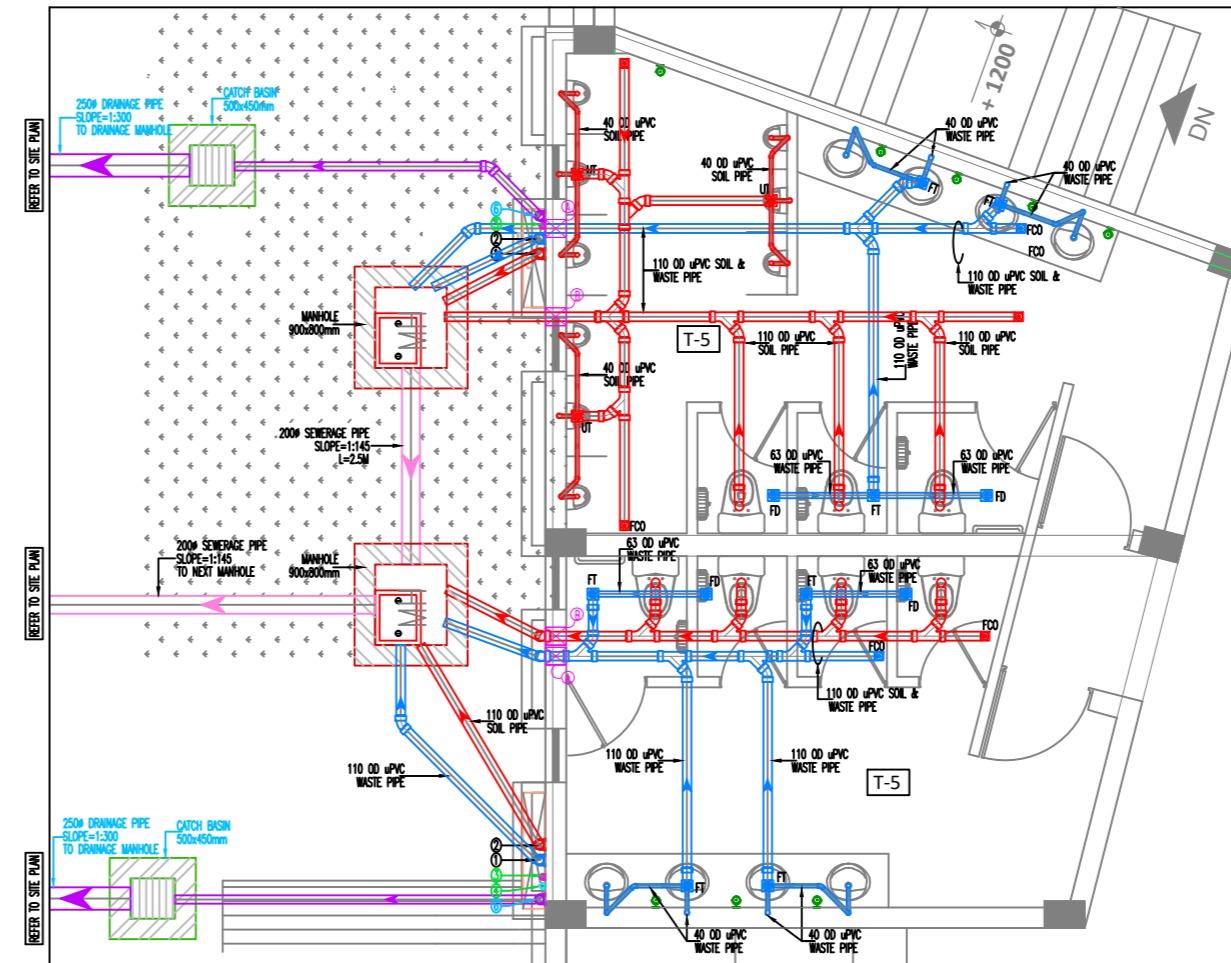
PANTRY DETAIL-K1 AT GROUND FLOOR WATER SUPPLY LAYOUT



TOILET DETAIL-T4 AT GROUND FLOOR DRAINAGE LAYOUT



TOILET DETAIL-T4 AT GROUND FLOOR WATER SUPPLY LAYOUT



TOILET DETAIL-T5 AT GROUND FLOOR DRAINAGE LAYOUT

**PLUMBING NOTE:-**

- \* WASH BASIN TO FLOOR TRAP 40 OD uPVC WASTE PIPE
- \* FLOOR DRAIN TO FLOOR TRAP 63 OD uPVC WASTE PIPE
- \* FLOOR TRAP TO VERTICAL WASTE STACK 110 OD uPVC WASTE PIPE
- \* WC TO VERTICAL SOIL STACK 110 OD uPVC SOIL PIPE
- \* URINAL TO URINAL TRAP 40 OD uPVC SOIL PIPE
- \* URINAL TRAP TO VERTICAL SOIL STACK 110 OD uPVC SOIL PIPE
- \* BALCONY DRAIN TO VERTICAL RAIN WATER PIPE 75 OD uPVC RWP PIPE
- \* HORIZONTAL SOIL PIPE TO MANHOLE 110 OD uPVC SOIL PIPE
- \* HORIZONTAL WASTE PIPE TO GULLY TRAP 110 OD uPVC WASTE PIPE
- \* VERTICAL WASTE PIPE TO GULLY TRAP 110 OD uPVC WASTE PIPE
- \* VERTICAL SOIL PIPE TO MANHOLE 110 OD uPVC SOIL PIPE

**DETAILS OF SANITARY FIXTURES TO BE INSTALLED**

SYMBOL	DESCRIPTION	HEIGHT(mm) (FROM TOILET F.F.L.)
HF	BIB TAP TWO WAY WALL FLANGE	450
AG(C)	CONCEALED STOP COCK FOR CISTERN	1200
AG(B)	ANGLE VALVE FOR WASH BASIN	450
US	URINAL SENSOR	1200
CWS	COLD WATER SUPPLY PIPE	300
C(P)	COLD WATER FOR PANTRY	1100
RO	REVERSE OSMOSIS	1500

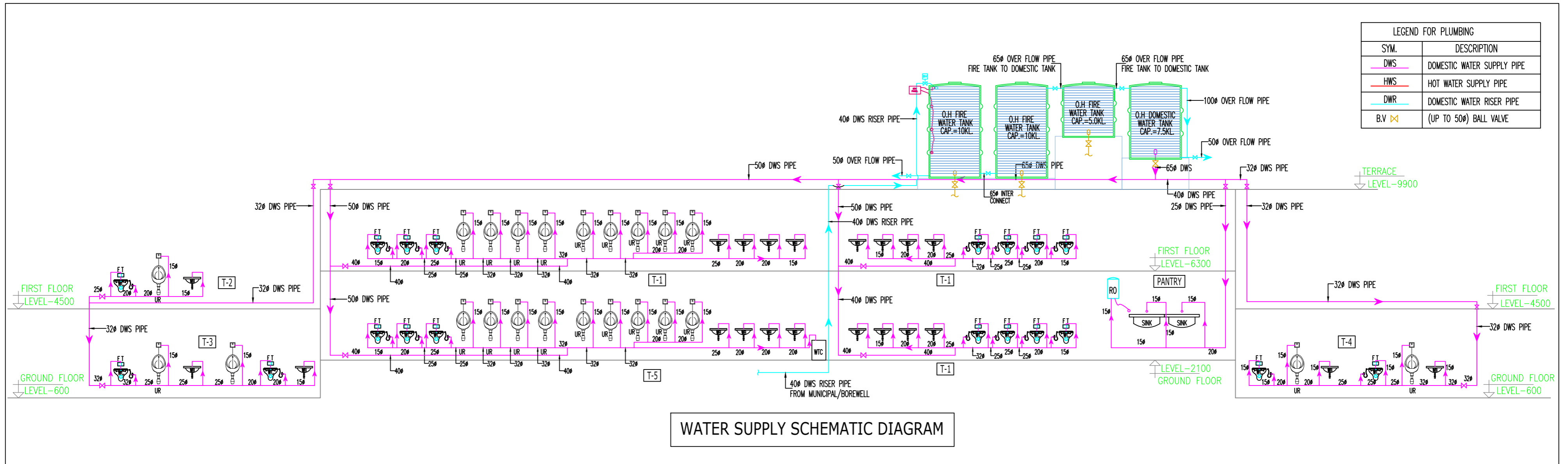
OR AS DIRECTED BY ARCHITECTS.

**LEGENDS FOR PLUMBING:-**

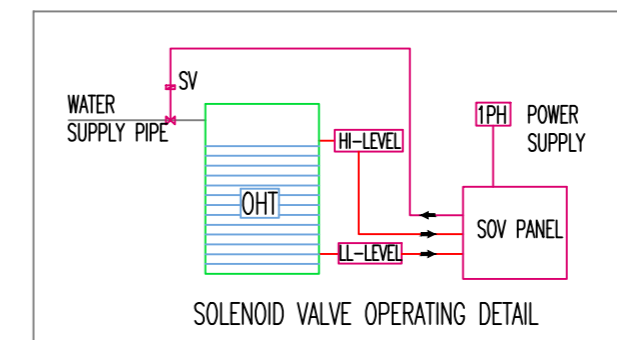
①	110 OD uPVC SOIL & VENT PIPE
②	110 OD uPVC WASTE & VENT PIPE
③	COLD WATER DOWN TAKE PIPE
④	DOMESTIC WATER RISER PIPE
⑥	110 OD uPVC RAIN WATER PIPE
⊗	150mm CORE CUT IN SLAB FOR WC, UT & FT
⊗	100mm CORE CUT IN SLAB FOR F.D
⊗	FLOOR TRAP
⊗	FLOOR DRAIN
⊗	URINAL TRAP
⊗	CLEAN OUT PLUG
⊗	FLOOR CLEAN OUT
⊗	CATCH BASIN
⊗	GULLY TRAP
⊗	MANHOLE FOR SEWERAGE
→	DOMESTIC WATER SUPPLY RISER PIPE
→	DOMESTIC WATER SUPPLY PIPE
→	SEWERAGE LINE
→	DRAINAGE LINE
⊗	CUTOUT SIZE 150 X 150MM FOR WASTE PIPE
⊗	CUTOUT SIZE 150 X 150MM FOR SOIL PIPE

**GROUND FLOOR & FIRST FLOOR PLUMBING TOILET & PANTRY LAYOUT PLAN**



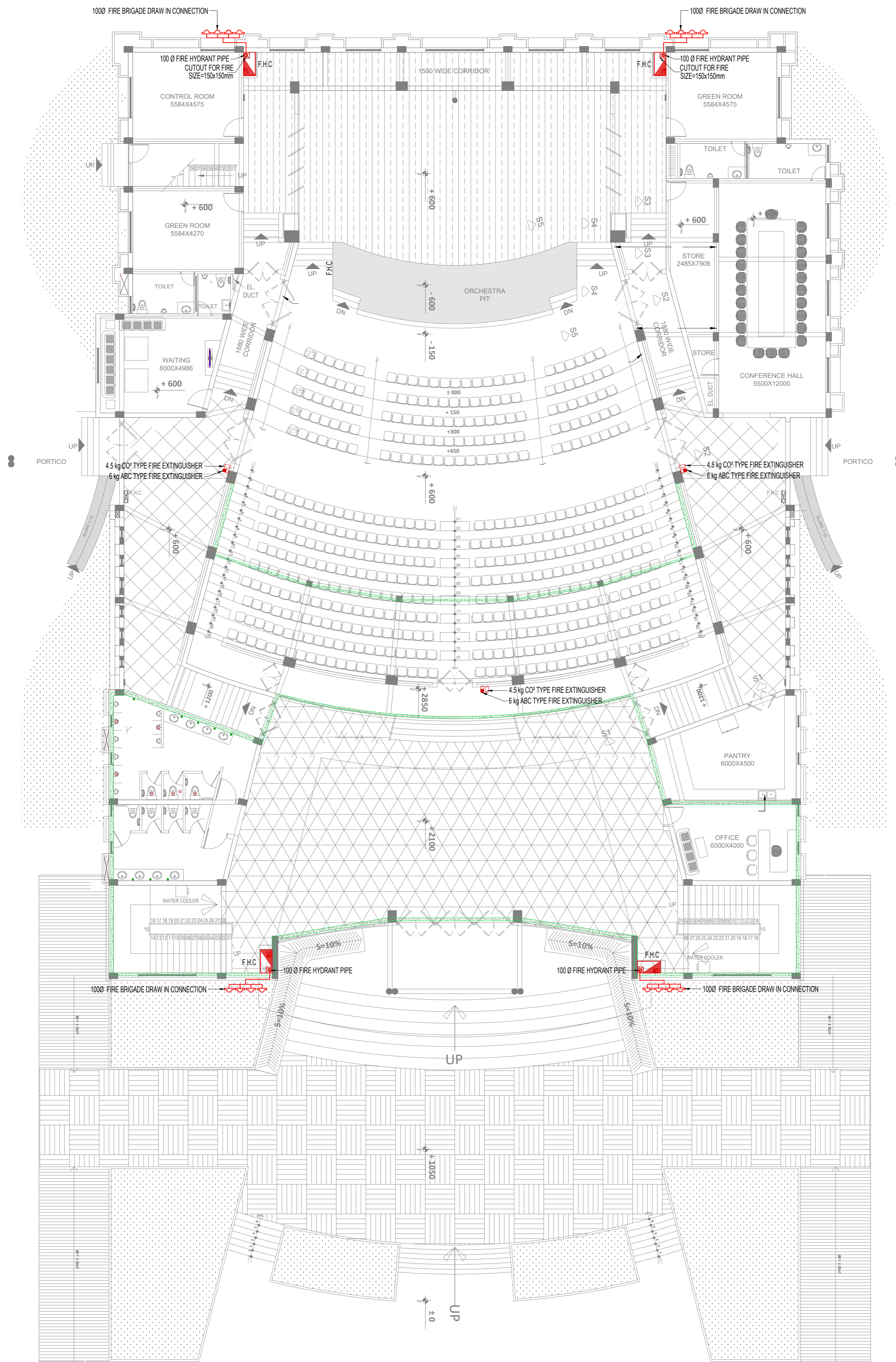


## PLUMBING WATER SUPPLY SCHEMATIC DIAGRAM LAYOUT PLAN



LEGEND:-		
	FT	FLUSHING TANK
	HF	HEALTH FAUCET
	WB	WASH BASIN
	KS	KITCHEN SINK
	WC	WATER CLOSET
	G	GEYSER
	RO	REVERES OSMOSIS
	FT	FLOAT VALVE
	SV	SOLENOID VALVE
	BV	BALL VALVE





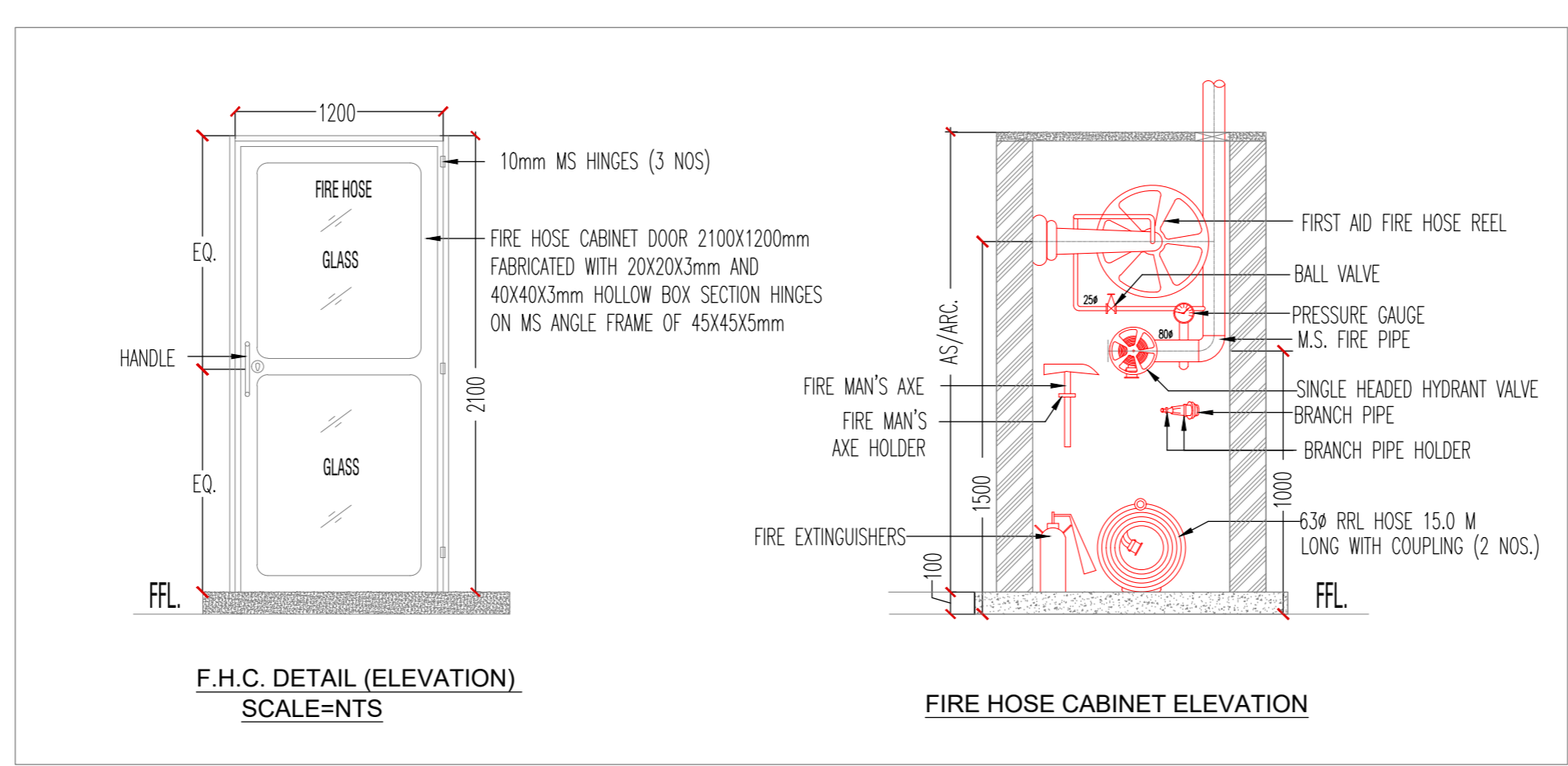
**GROUND FLOOR FIRE FIGHTING LAYOUT PLAN**

**NOTE:-**

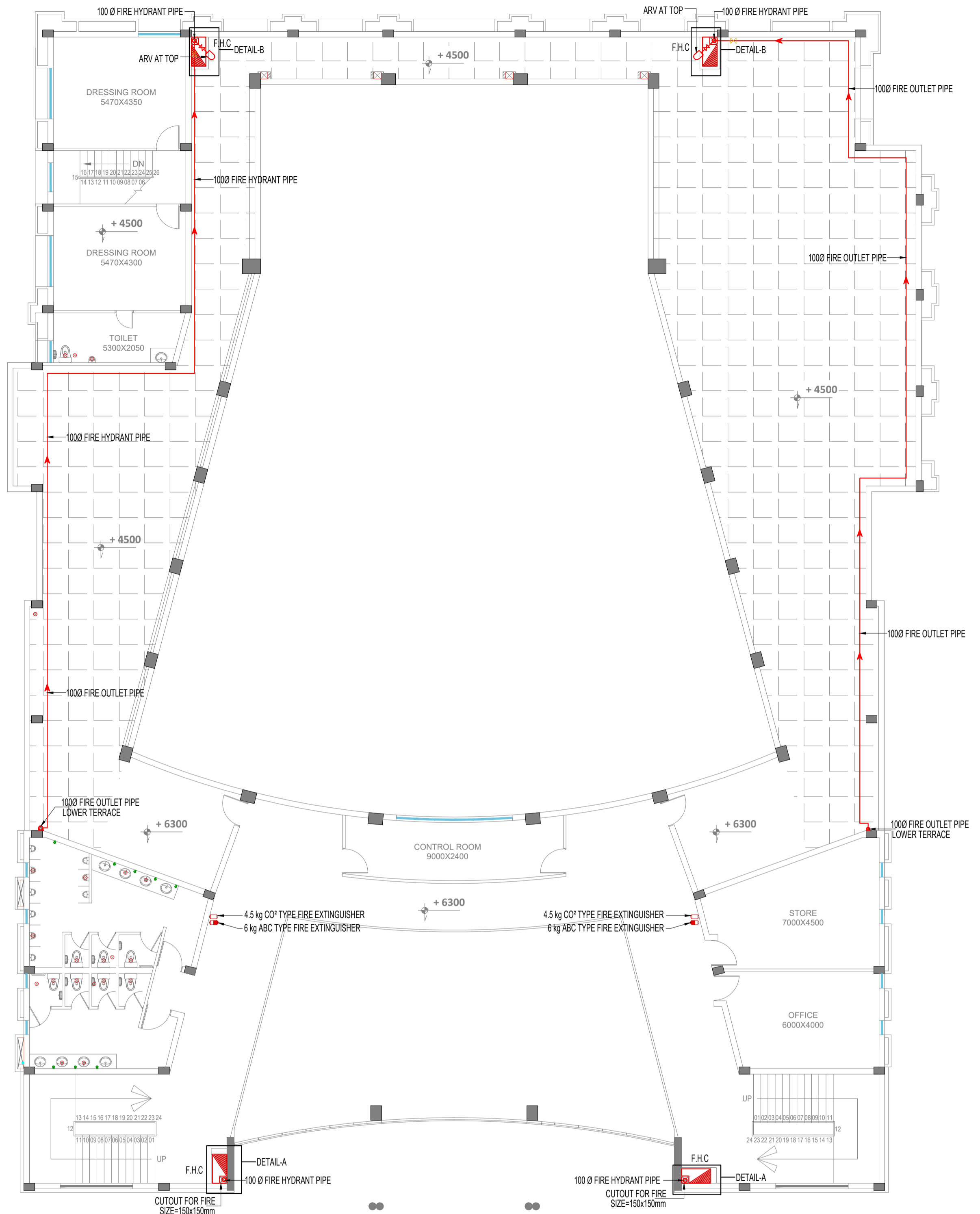
- EACH FIRE HOSE CABINET SHALL CONSIST OF
- 1 No. - SS SINGLE HEADED HYDRANT VALVE (63mm)
- 2 Nos. - FIRE HOSES 63mm 15M LONG WITH ACCESSORIES.
- 1 No - SHORT BRANCH
- 1 No - FIRST AID HOSE REEL
- 2 Nos - FIRE EXTINGUISHERS
- 1 No - FIRE MAN'S AXE.

**LEGEND FOR FIRE FIGHTING:-**

F.H.C.		FIRE HOSE CABINET
		6 kg ABC TYPE FIRE EXTINGUISHER
		4.5 kg CO <sup>2</sup> TYPE FIRE EXTINGUISHER
		BUTTER FLY VALVE
		FIRE HYDRANT PIPE







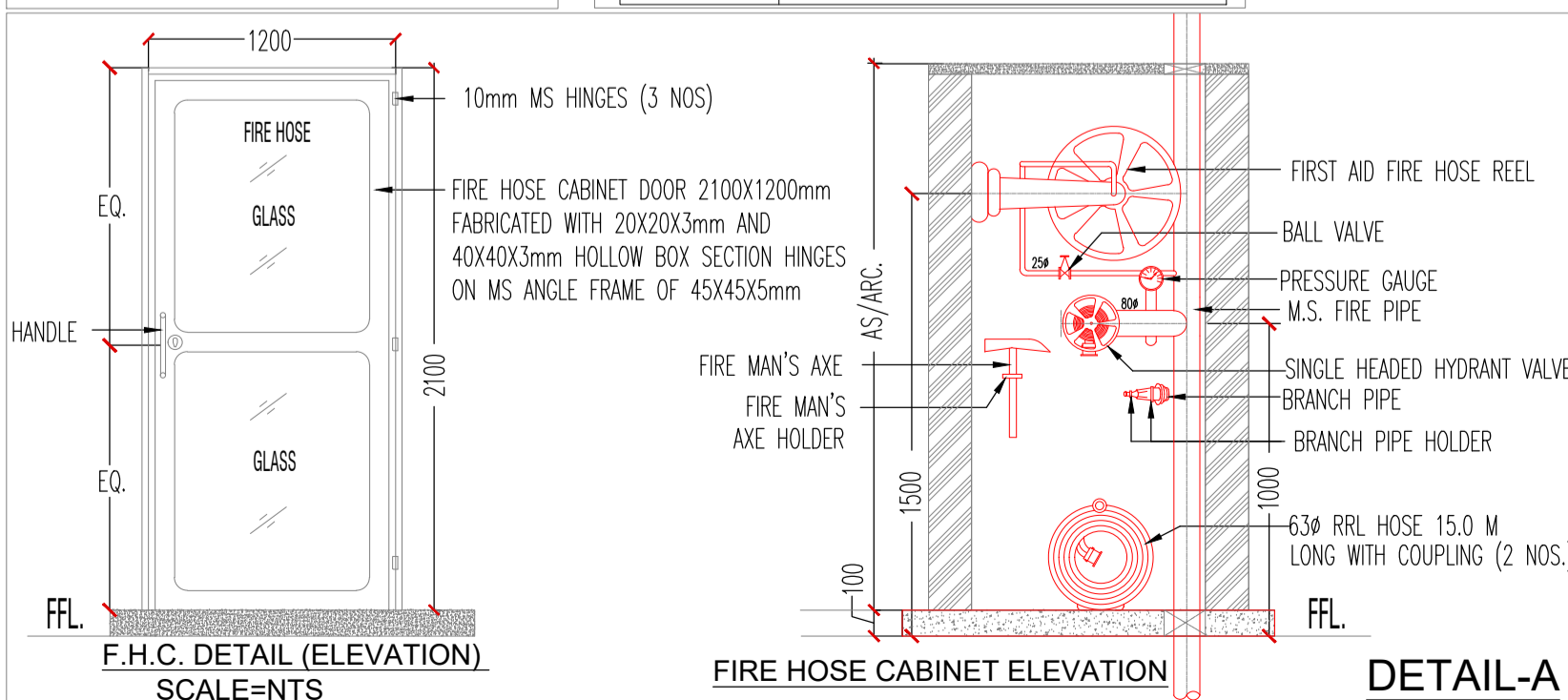
# FIRST FLOOR FIRE FIGHTING LAYOUT PLAN

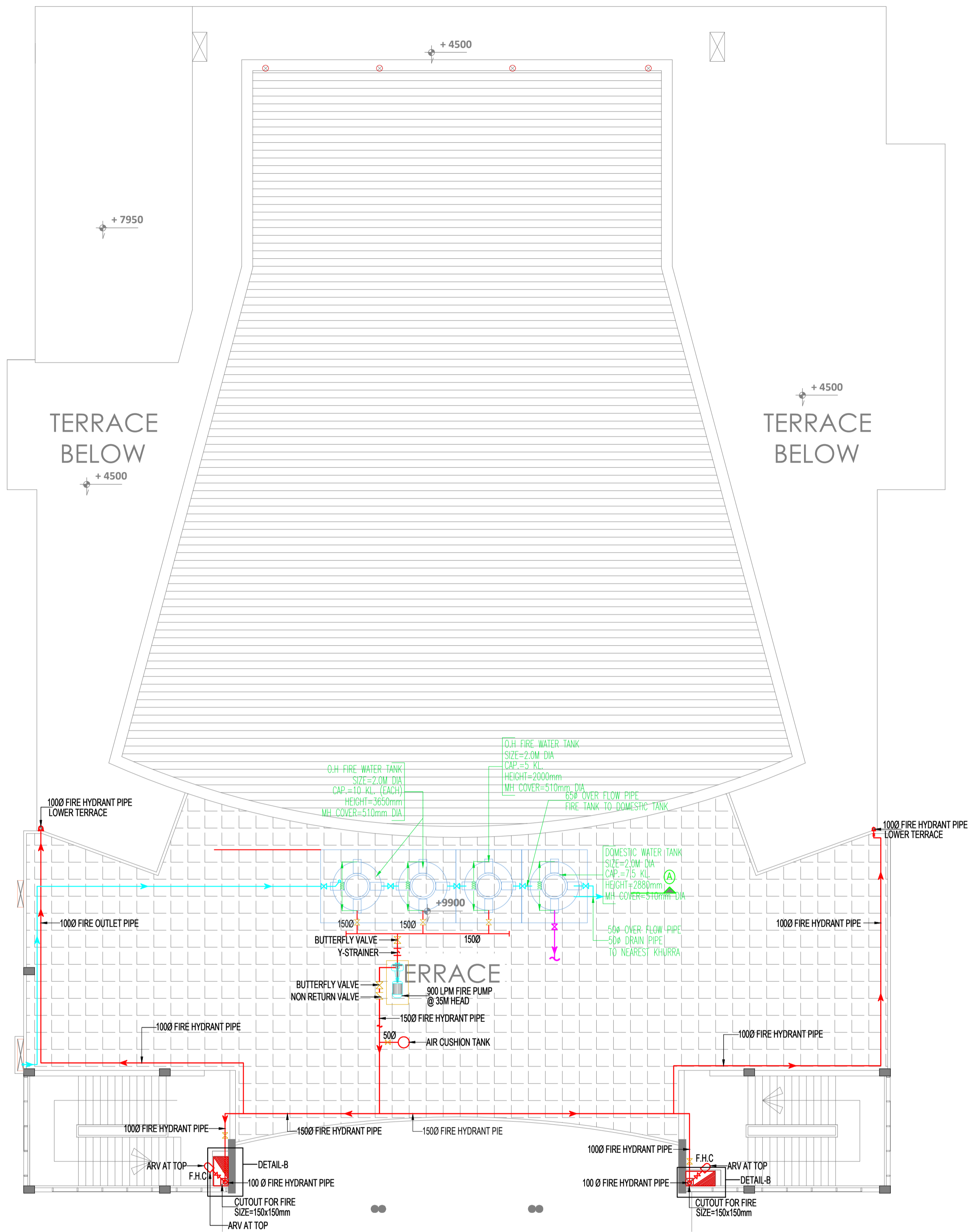
**NOTE:-**

- EACH FIRE HOSE CABINET SHALL CONSIST OF
- 1 NO. - SS SINGLE HEADED HYDRANT VALVE (63mm)
- 2 Nos. - FIRE HOSES 63mm 15M LONG WITH ACCESSORIES.
- 1 No - SHORT BRANCH
- 1 No - FIRST AID HOSE REEL
- 2 Nos - FIRE EXTINGUISHERS
- 1 No - FIRE MAN'S AXE.

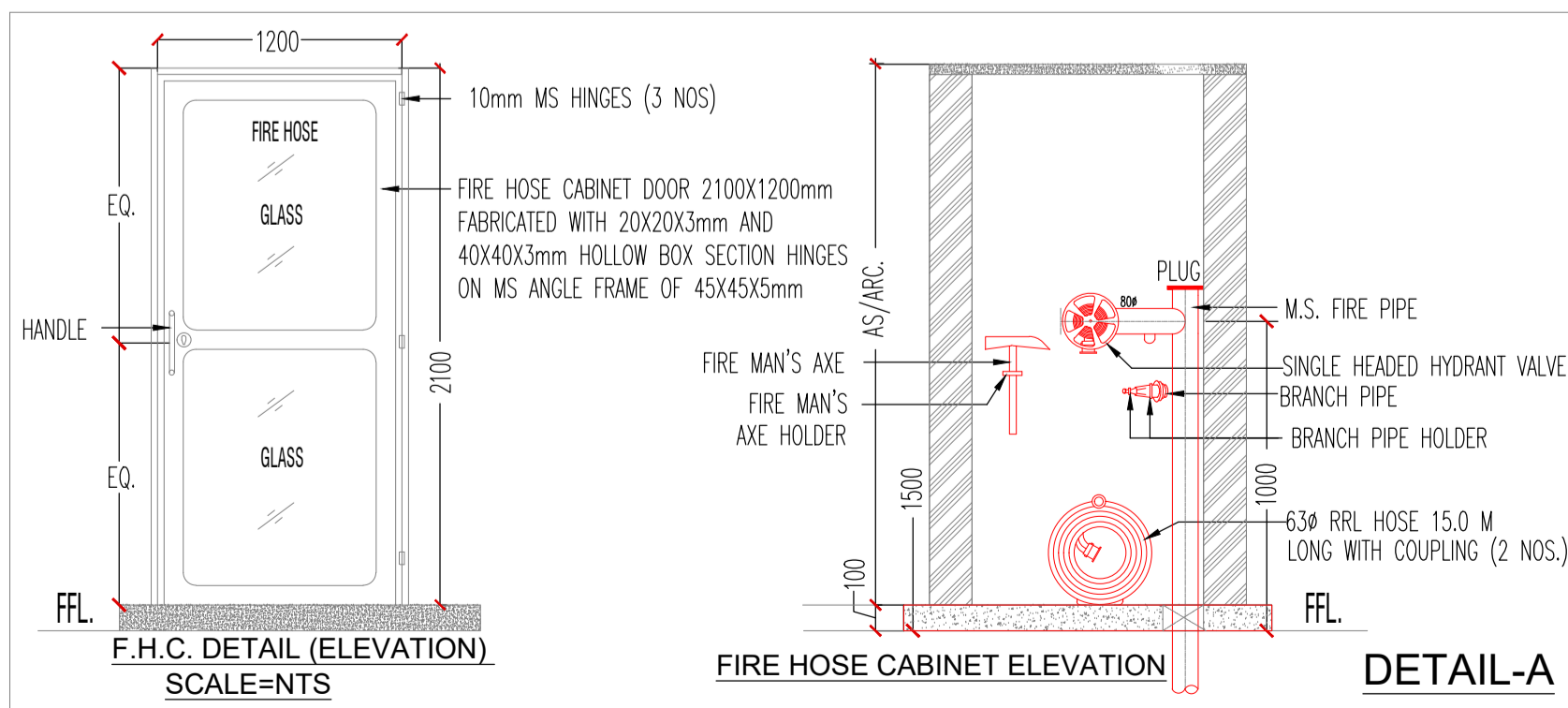
**LEGEND FOR FIRE FIGHTING:-**

F.H.C.		FIRE HOSE CABINET
		6 kg ABC TYPE FIRE EXTINGUISHER
		4.5 kg CO <sub>2</sub> TYPE FIRE EXTINGUISHER
		BUTTER FLY VALVE
		FIRE HYDRANT PIPE

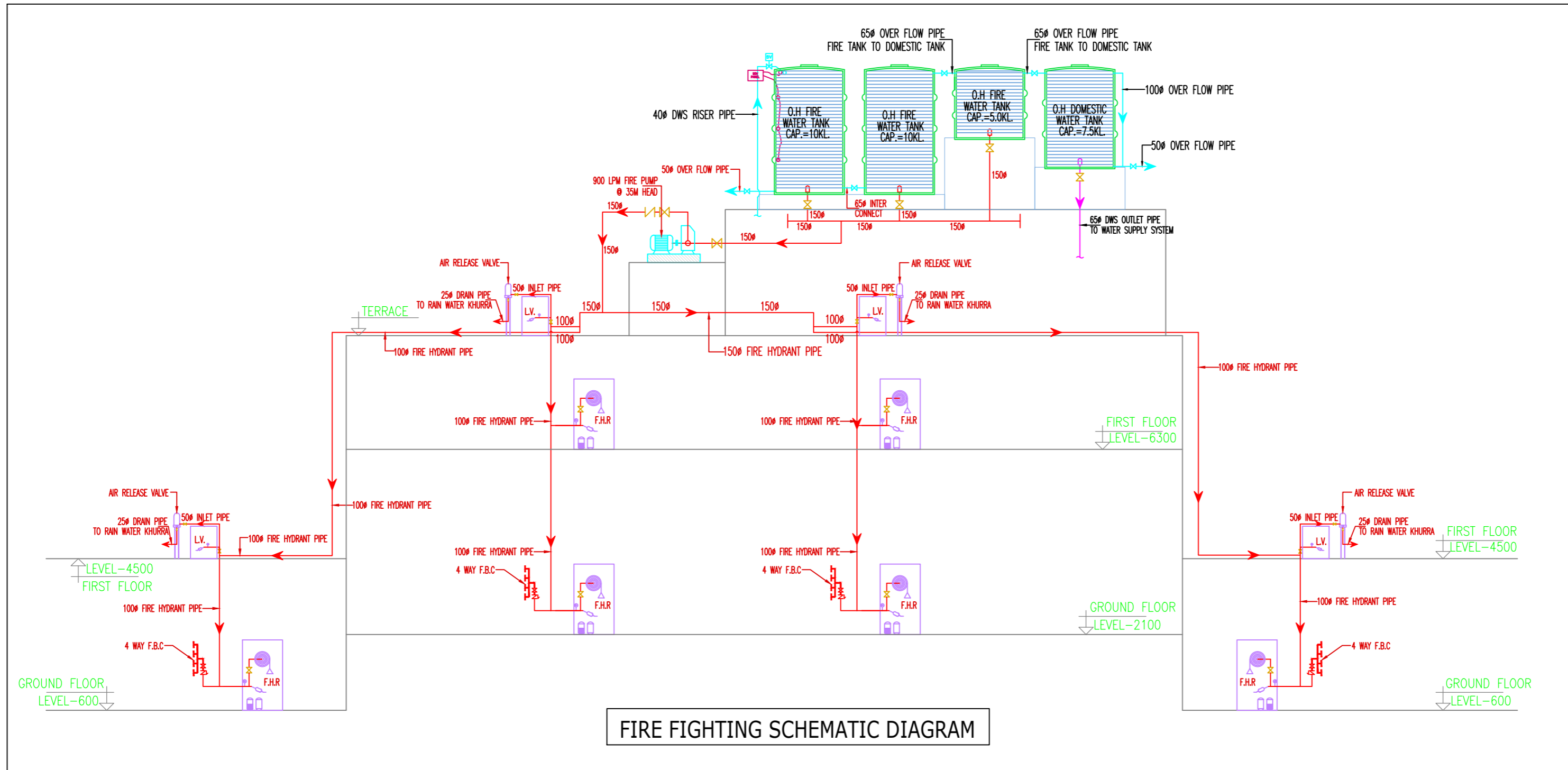




TERRACE FLOOR FIRE FIGHTING LAYOUT PLAN





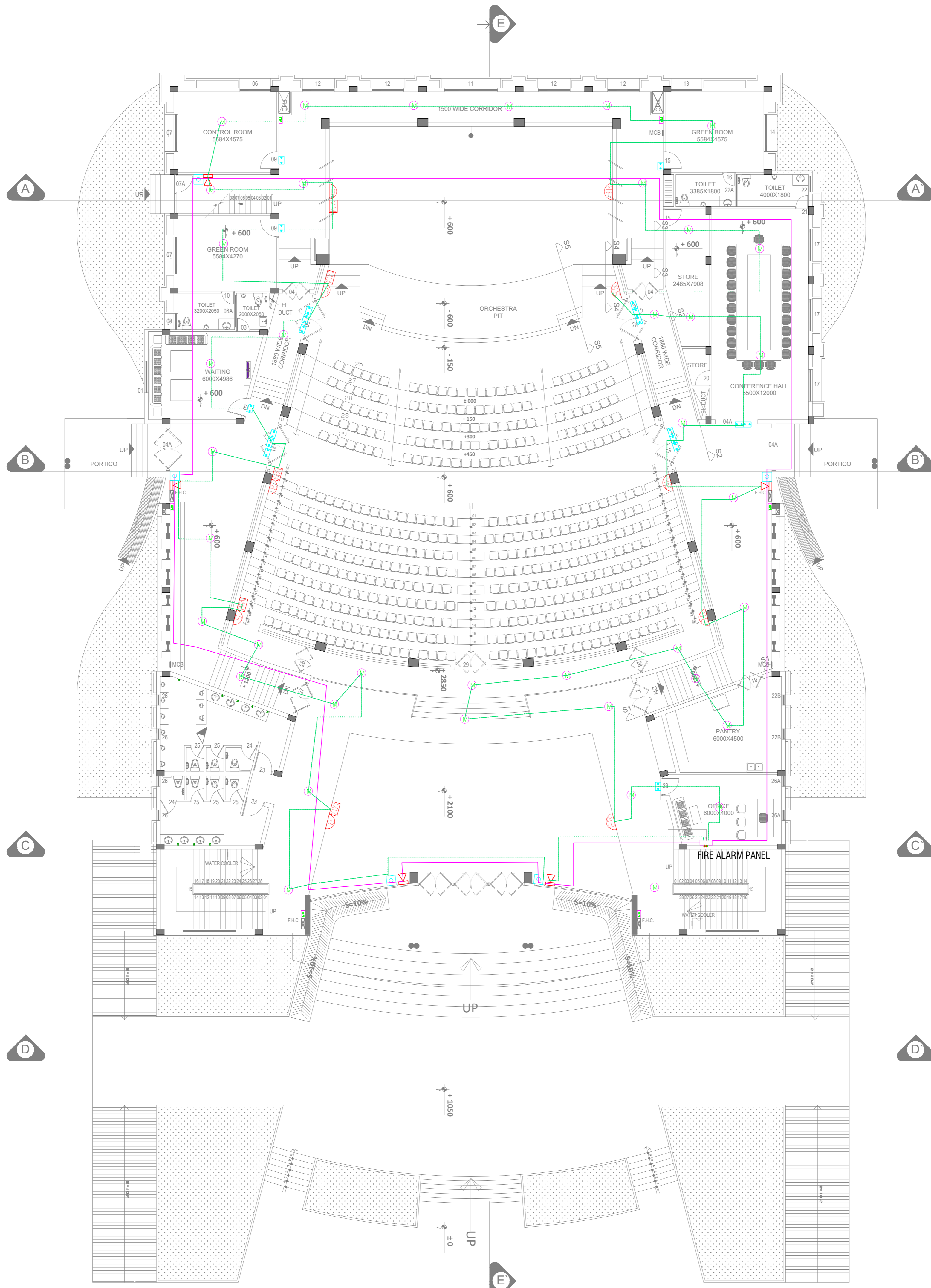


FIRE FIGHTING SCHEMATIC DIAGRAM

## FIRE FIGHTING SCHEMATIC DIAGRAM LAYOUT PLAN

LEGEND FOR FIRE FIGHTING	
	FIRE HOSE REEL
	9 Ltr. WATER GAS PRESSURE TYPE FIRE EXTINGUISHER
	4.5 kg CO <sup>2</sup> TYPE FIRE EXTINGUISHER
	BUTTER FLY VALVE
	NON-RETURN VALVE
	FIRE BRIGADE CONNECTION
	FIRE HYDRANT PIPE
	SINGLE LADING VALVE

**NOTE:-**  
 EACH FIRE HOSE CABINET SHALL CONSIST OF  
 1 No. - GUNMETAL SINGLE HEADED HYDRANT VALVE (63mm).  
 2 Nos. - FIRE HOSES 63mm 15M LONG WITH ACCESSORIES.  
 1 No - SHORT BRANCH  
 1 No - FIRST AID HOSE REEL  
 2 Nos - FIRE EXTINGUISHERS  
 1 No - FIRE MAN'S AXE.

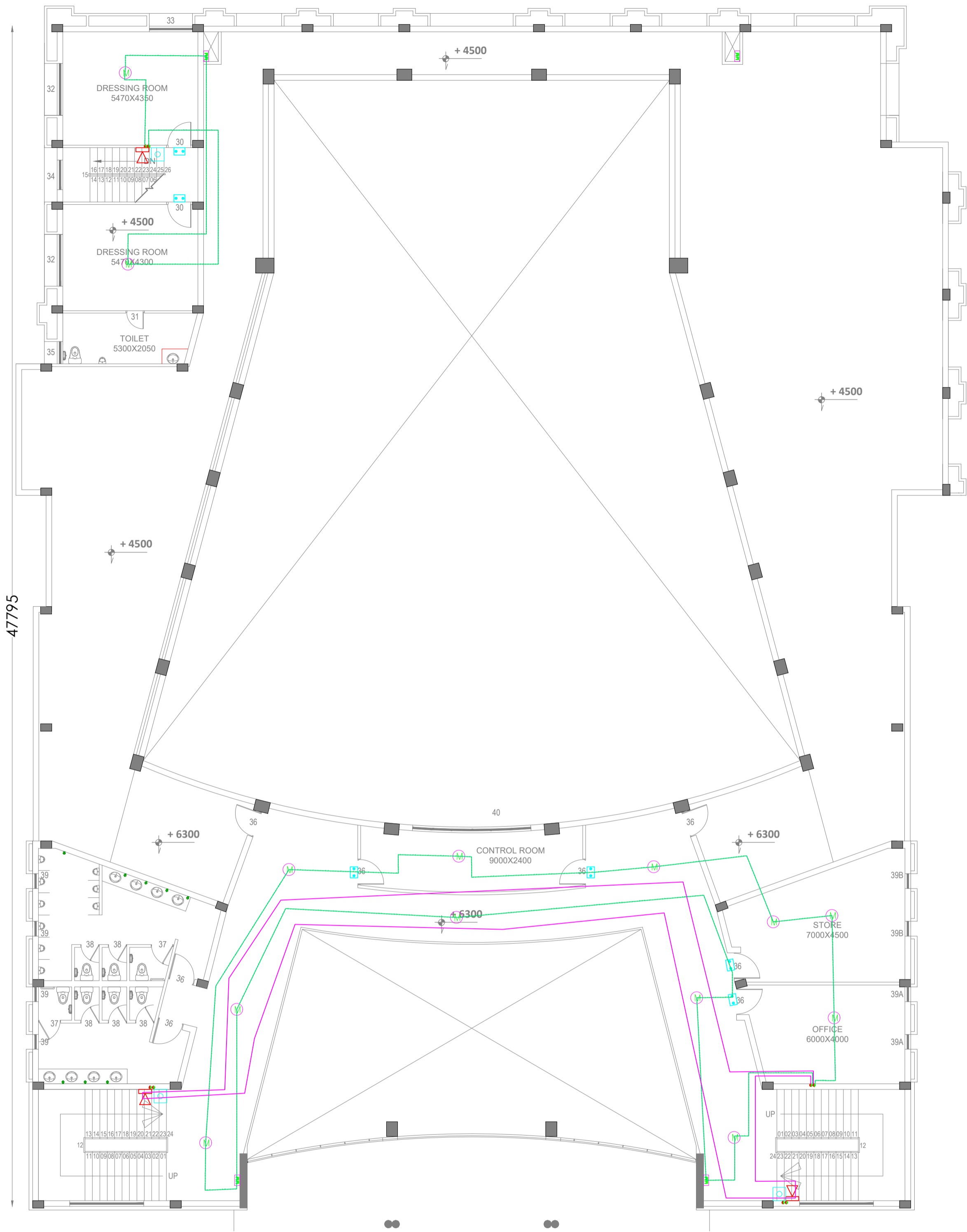


## GROUND FLOOR FIRE ALARM LAYOUT PLAN

G. F. COVERED AREA = 1644.00 Sq.Mt.  
 F. F. COVERED AREA = 560.00 Sq.Mt.

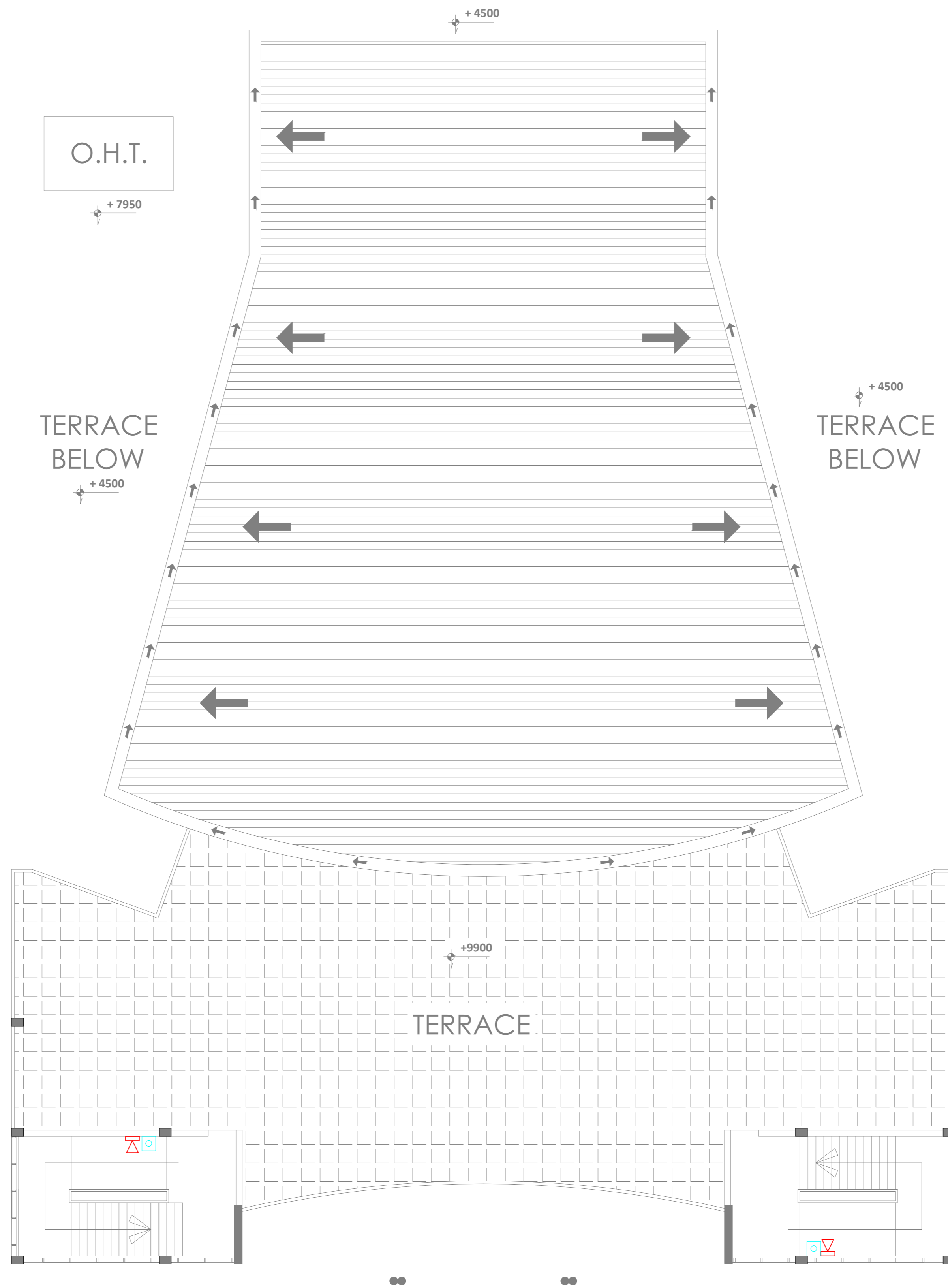
LEGEND :-		
S. No.	SYMBOL	DESCRIPTION
1.		MULTI DETECTOR
2.		BEAM DETECTOR TRANSMITTER
3.		BEAM DETECTOR RECEIVER
4.		MONITOR MODULE
5.		RI (RESPONSE INDICATOR)
6.		HOOTER
7.		CONTROL MODULE
8.		MANUAL CALL POINT
9.		FIRE CONDUIT
10.		HOOTER CONDUIT
11.		VERTICAL CONDUIT





FIRST FLOOR FIRE ALARM LAYOUT PLAN

LEGEND :-		
S. No.	SYMBOL	DESCRIPTION
1.		MULTI DETECTOR
2.		BEAM DETECTOR TRANSMITTER
3.		BEAM DETECTOR RECEIVER
4.		MONITOR MODULE
5.		RI (RESPONSE INDICATOR)
6.		HOOTER
7.		CONTROL MODULE
8.		MANUAL CALL POINT
9.		FIRE CONDUIT
10.		HOOTER CONDUIT
11.		VERTICAL CONDUIT

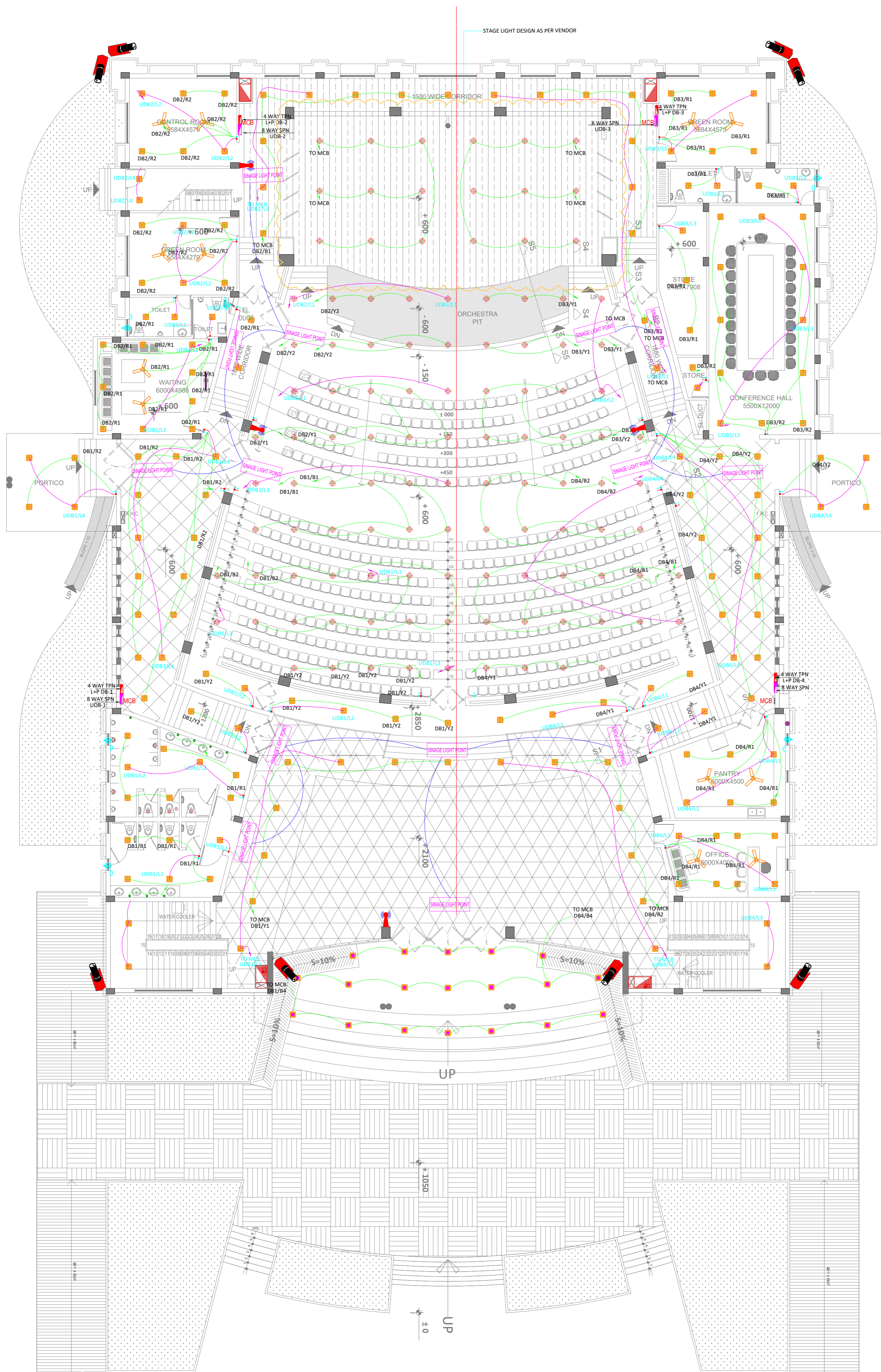


TERRACE FLOOR FIRE ALARM LAYOUT PLAN

G. F. COVERED AREA = 1644.00 Sq.Mt.  
 F. F. COVERED AREA = 560.00 Sq.Mt.

LEGEND :-		
S. No.	SYMBOL	DESCRIPTION
1.		MULTI DETECTOR
2.		BEAM DETECTOR TRANSMITTER
3.		BEAM DETECTOR RECEIVER
4.		MONITOR MODULE
5.		RI (RESPONSE INDICATOR)
6.		HOOTER
7.		CONTROL MODULE
8.		MANUAL CALL POINT
9.		FIRE CONDUIT
10.		HOOTER CONDUIT
11.		VERTICAL CONDUIT





## GROUND FLOOR LIGHTING LAYOUT PLAN

G. F. COVERED AREA = 1644.00 Sq.Mt.  
F. F. COVERED AREA = 560.00 Sq.Mt.

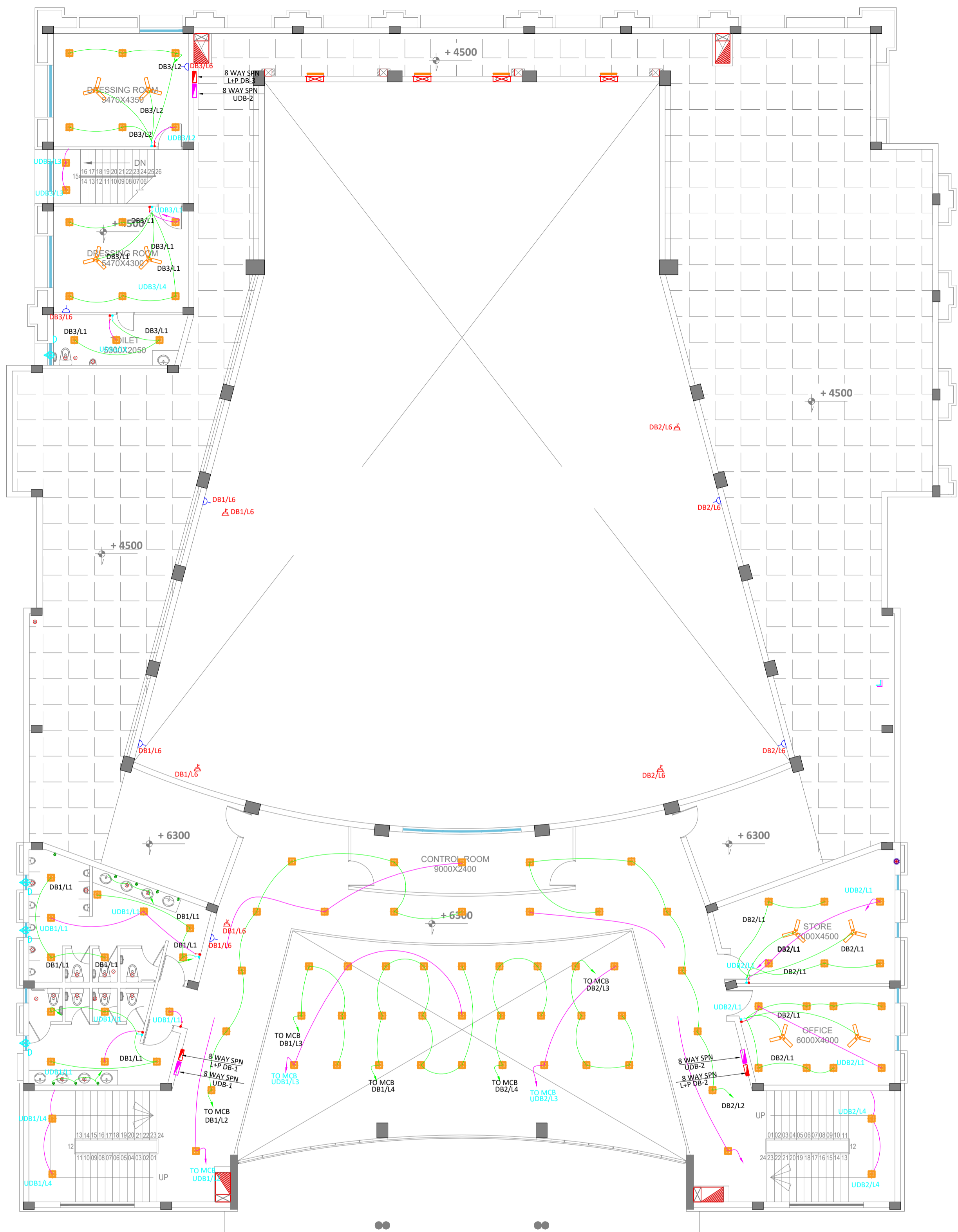
LEGEND		
S.NO.	SYMBOL	DESCRIPTION
1		20W SURFACE LED LIGHT
2		12 W LED LIGHT
3		18 W CEILING LIGHT
4		FAN POINT
5		MIRROR LIGHT
6		EM SWITCH BOARD
7		NORMAL SWITCH BOARD
8		LP DB
9		EM DB
10		LOOPING
11		EM LOOPING
12		VERTICAL CONDUIT

**UDB1/L2**  
 LIGHT CKT NO.  
 1 NO. DISTRIBUTION BOARD  
 UPS

**DB1/Y2**  
 LIGHT CKT NO.  
 1 NO. DISTRIBUTION BOARD

1. 2.5 SQMM CU FRLS WIRE FOR LIGHT CIRCUITS  
 2. 2.5 SQMM CU FRLS WIRE FOR INDOOR AC  
 3. 2.5 SQMM CU FRLS WIRE FOR LIGHTS CIRCUITS  
 4. 1.5 SQMM CU FRLS WIRE FOR LIGHT POINT  
 5. 4.0 SQMM CU FRLS WIRE FOR POWER POINT





# FIRST FLOOR LIGHTING LAYOUT PLAN

LEGEND		
S.NO.	SYMBOL	DESCRIPTION
1		20W SURFACE LED LIGHT
2		12 W LED LIGHT
3		18 W CEILING LIGHT
4		FAN POINT
5		MIRROR LIGHT
6		EM SWITCH BOARD
7		NORMAL SWITCH BOARD
8		LP DB
9		EM DB
10		LOOPING
11		EM LOOPING
12		VERTICAL CONDUIT

**UDB1/L2**

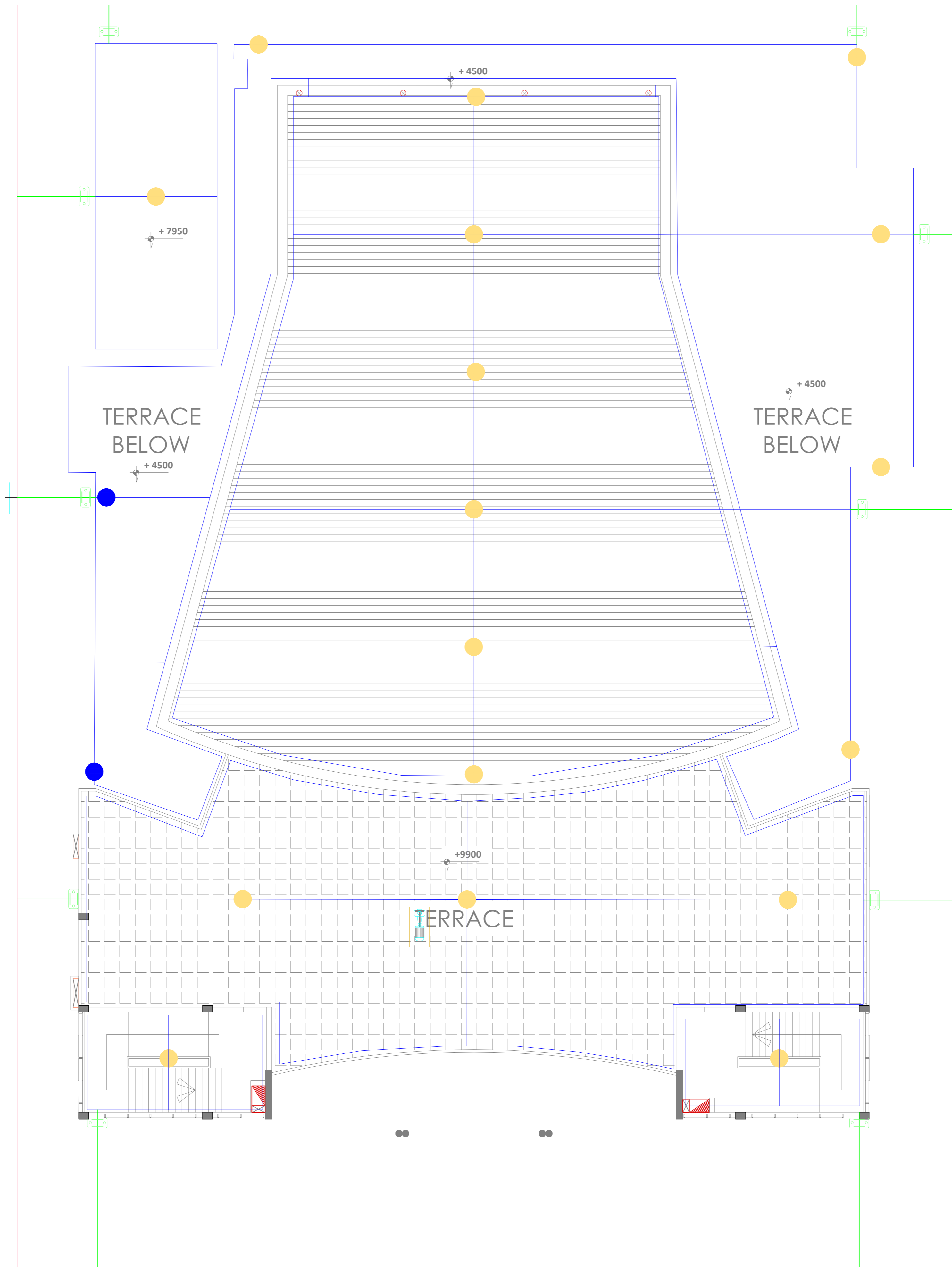
LIGHT CKT NO.  
1 NO.  
DISTRIBUTION BORAD  
UPS

**DB1/Y2**

LIGHT CKT NO.  
1 NO.  
DISTRIBUTION BORAD

1. 2.5 SQMM CU FRLS WIRE FOR LIGHT CIRCUITS  
2. 2.5 SQMM CU FRLS WIRE FOR INDOOR AC  
3. 2.5 SQMM CU FRLS WIRE FOR UPS CIRCUITS  
4. 1.5 SQMM CU FRLS WIRE FOR LIGHT POINT  
5. 4.0 SQMM CU FRLS WIRE FOR POWER POINT











## TERRACE FLOOR LIGHTING PLAN

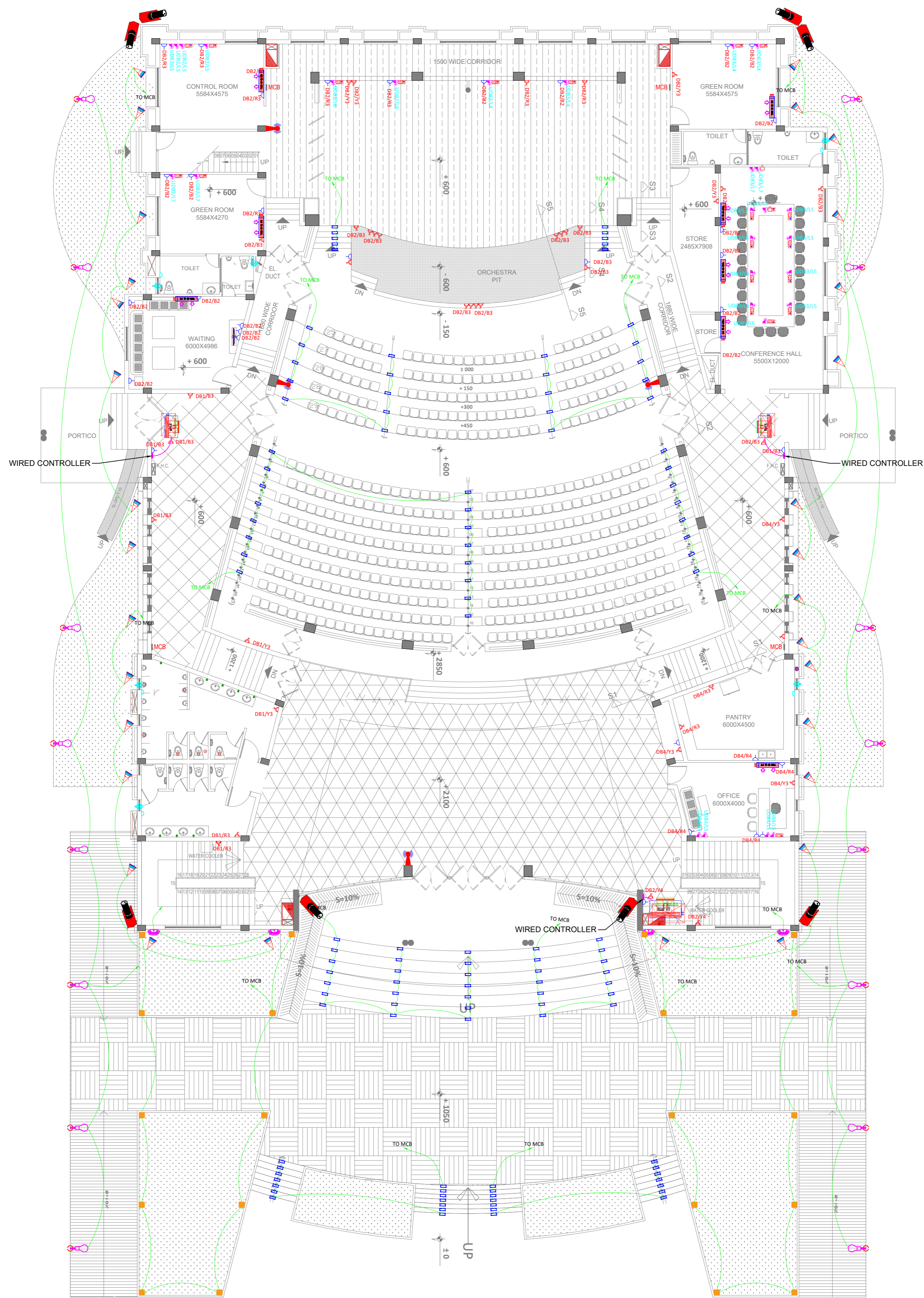
G. F. COVERED AREA = 1644.00 Sq.Mt.  
 F. F. COVERED AREA = 560.00 Sq.Mt.

### NOTES

- 1) THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS
  - 2) ROOF CONDUCTOR TO TEST LINK 8mm CONDUCTOR.
  - 3) TEST LINK TO EARTHING GRID 25x6 mm G.I STRIP.
  - 4) EARTHING RING TO EARTH PIT 32x6 mm G.I STRIP.
- BEFORE COMMENCEMENT OF WORK CONTRACTOR SHALL PREPARE SHOP DWG. & GET IT APPROVED BY CONCERNED AUTHORITY.

### LEGENDS:

	AIR-TERMINATION ROD 1500 HEIGHT
	TEST CLAMP
	EARTHING MAINTENANCE FREE
	32x6 mm G.I STRIP.
	ALUMINUM ROUND CONDUCTOR(Ø 8MM)
	25x6 mm G.I STRIP DOWN CONDUCTOR



## GROUND FLOOR POWER LAYOUT PLAN

G. F. COVERED AREA = 1644.00 Sq.Mt.  
 F. F. COVERED AREA = 560.00 Sq.Mt.

LEGEND		
S.NO.	SYMBOL	DESCRIPTION
1		2 X 6 amp. RAW POWER
2		1X 6 amp. UPS POINT
3		DATA POINT
4		2X 6 amp. UPS POINT
5		DATA RETARDANT
6		16 A SWITCH SOCKET
7		LP DB
8		EM DB
9		90 W FLOOD LIGHT
10		90 W STREET LIGHT WITH 8 MTR. POLE
11		11W BOLLARD LIGHT
12		25 W WALL FOCUS LIGHT
12		5 W STEP LIGHT

**UDB1/L2**

LIGHT CKT NO. 1 NO. DISTRIBUTION BOARD UPS

**DB1/Y2**

LIGHT CKT NO. 1 NO. DISTRIBUTION BOARD

1. 2.5 SQMM CU FRLS WIRE FOR LIGHT CIRCUITS

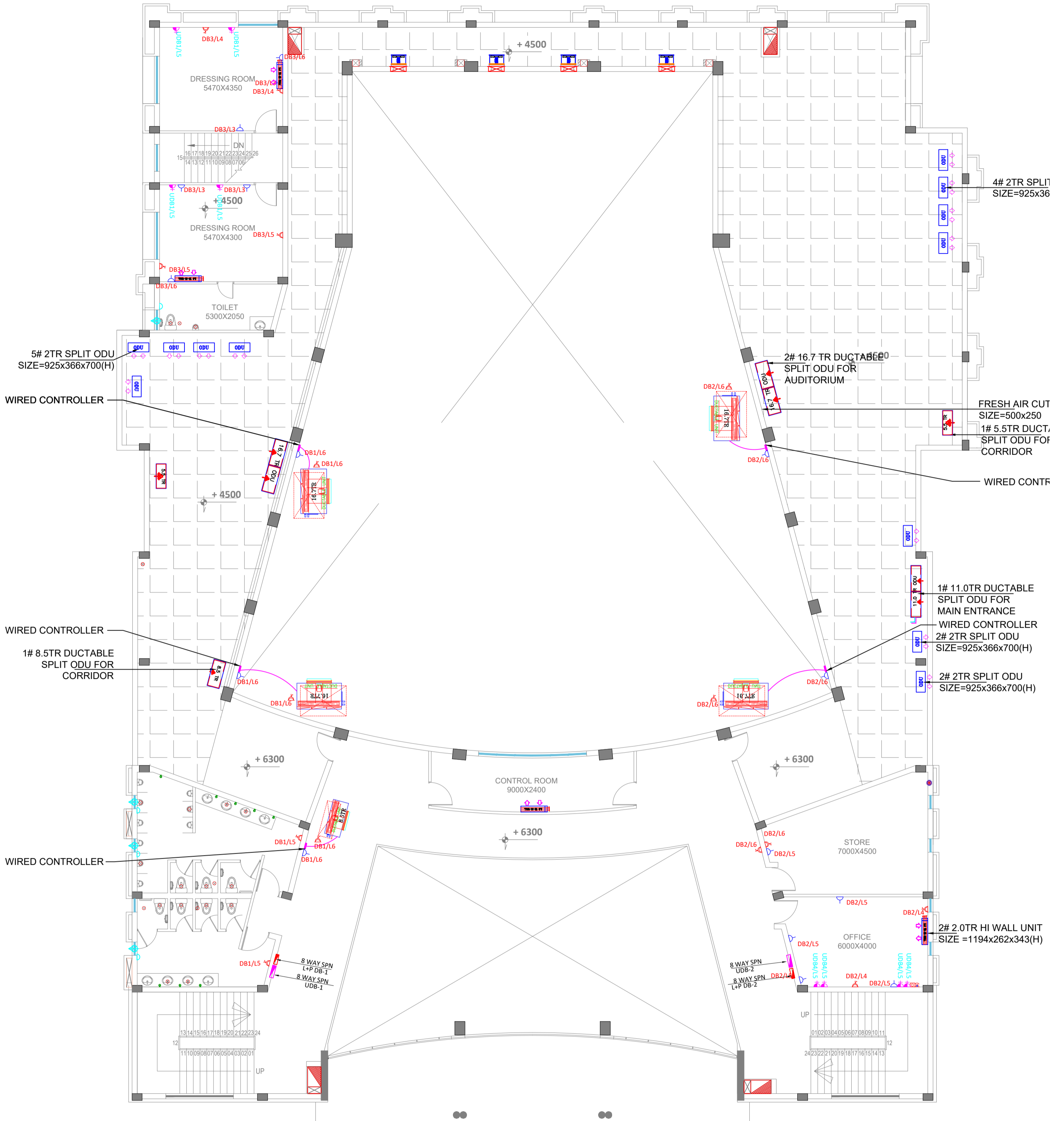
2. 2.5 SQMM CU FRLS WIRE FOR INDOOR AC

3. 2.5 SQMM CU FRLS WIRE FOR UPS CIRCUITS

4. 1.5 SQMM CU FRLS WIRE FOR LIGHT POINT

5. 4.0 SQMM CU FRLS WIRE FOR POWER POINT





# FIRST FLOOR POWER LAYOUT PLAN

LEGEND		
S.NO.	SYMBOL	DESCRIPTION
1		2 X6 amp. RAW POWER
2		1X 6 amp. UPS POINT
3		DATA POINT
4		2X 6 amp. UPS POINT
5		DATA RETARDANT
6		16 A SWITCH SOCKET
7		LP DB
8		EM DB

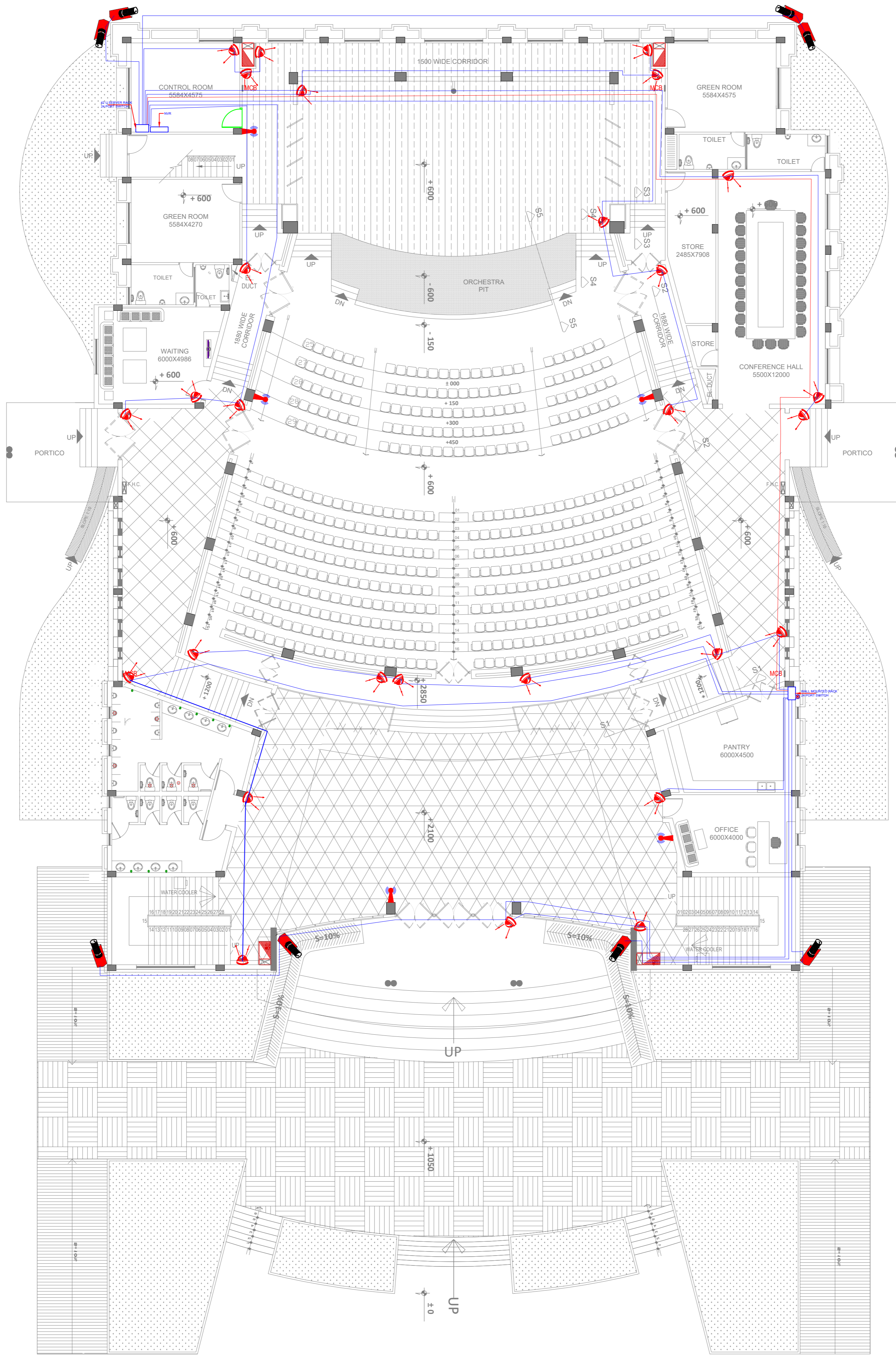
  

	UDB1/L2	LIGHT CKT NO.
		1 NO.
		DISTRIBUTION BORAD
		UPS

	DB1/Y2	LIGHT CKT NO.
		1 NO.
		DISTRIBUTION BORAD





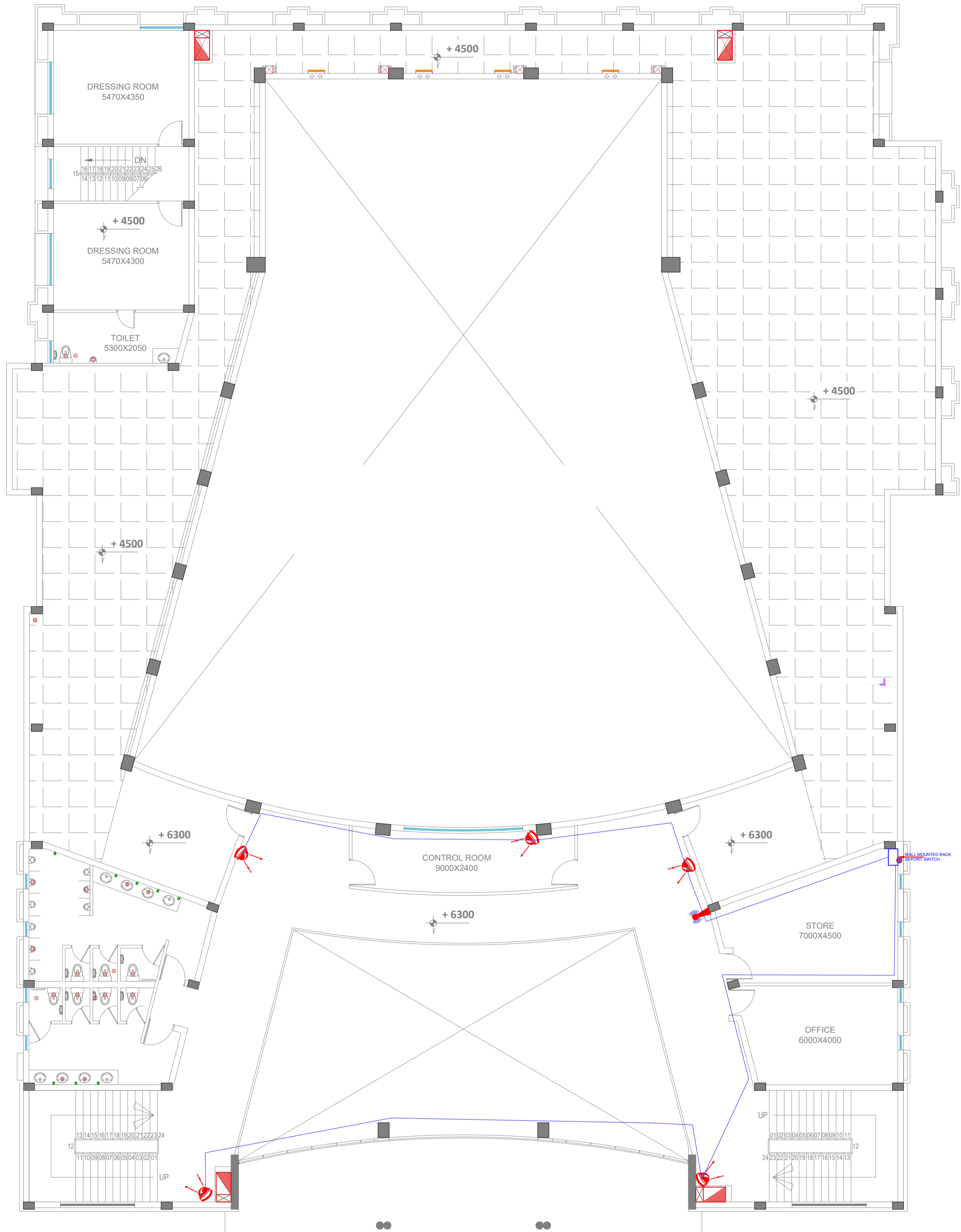
### GROUND FLOOR CCTV LAYOUT PLAN

G. F. COVERED AREA = 1644.00 Sq.Mt.  
 F. F. COVERED AREA = 560.00 Sq.Mt.

LEGEND		
S.NO.	SYMBOL	DESCRIPTION
1	—	SWITCH TO NVR/SERVER
2	—	CCTV CABLE ROUTE
3	—	Dome Camera-FALSE CEILING
4	—	BULLET CAMER -WALL MOUNTED
5	—	WIRE LESS ACCESS CONTROL DATA POINT
6	—	FIELD RACK -WALL MOUNT RACK
7	—	SERVER RACK-FLOOR RACK
8	—	NVR
9	—	VERTICAL CONDUIT

CAT -6 CABLE FOR CAMERA





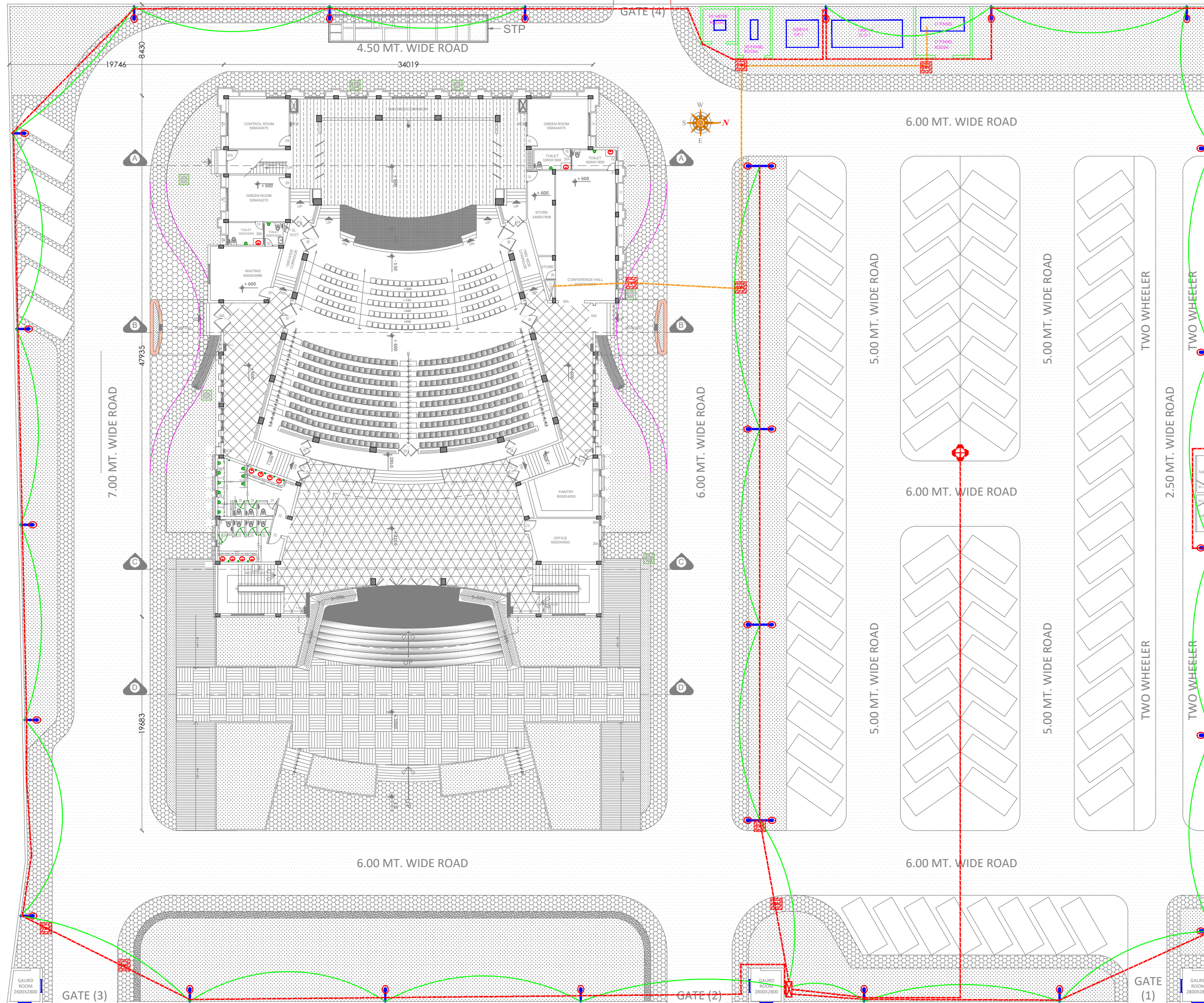
## FIRST FLOOR CCTV LAYOUT PLAN

LEGEND		
S.NO.	SYMBOL	DESCRIPTION
1	—	SWITCH TO NVR/SERVER
2	—	CCTV CABLE ROUTE
3		Dome Camera-FALSE CEILING
4		BULLET CAMER -WALL MOUNTED
5		WIRE LESS ACCESS CONTROL DATA POINT
6		FIELD RACK -WALL MOUNT RACK
7		SERVER RACK-FLOOR RACK
8		NVR
9		VERTICAL CONDUIT

CAT -6 CABLE FOR CAMERA







DETAILS OF LIGHTING FIXTURES			
S.N.	SYMBOL	DESCRIPTION	MOUNTING
1.		90W LED WITH 9.0 METER POLE	
2.		90W LED WITH 9.0 METER POLE	
3.		EXT. LIGHT FEEDER PILLER	
4.		HIGH MAST WITH 6 NO. 90W LED	
5.		LT CABLE ROUTE	
6.		EXTERNAL LIGHTING CABLE ROUTE	
7.		LIGHT LOOPING	