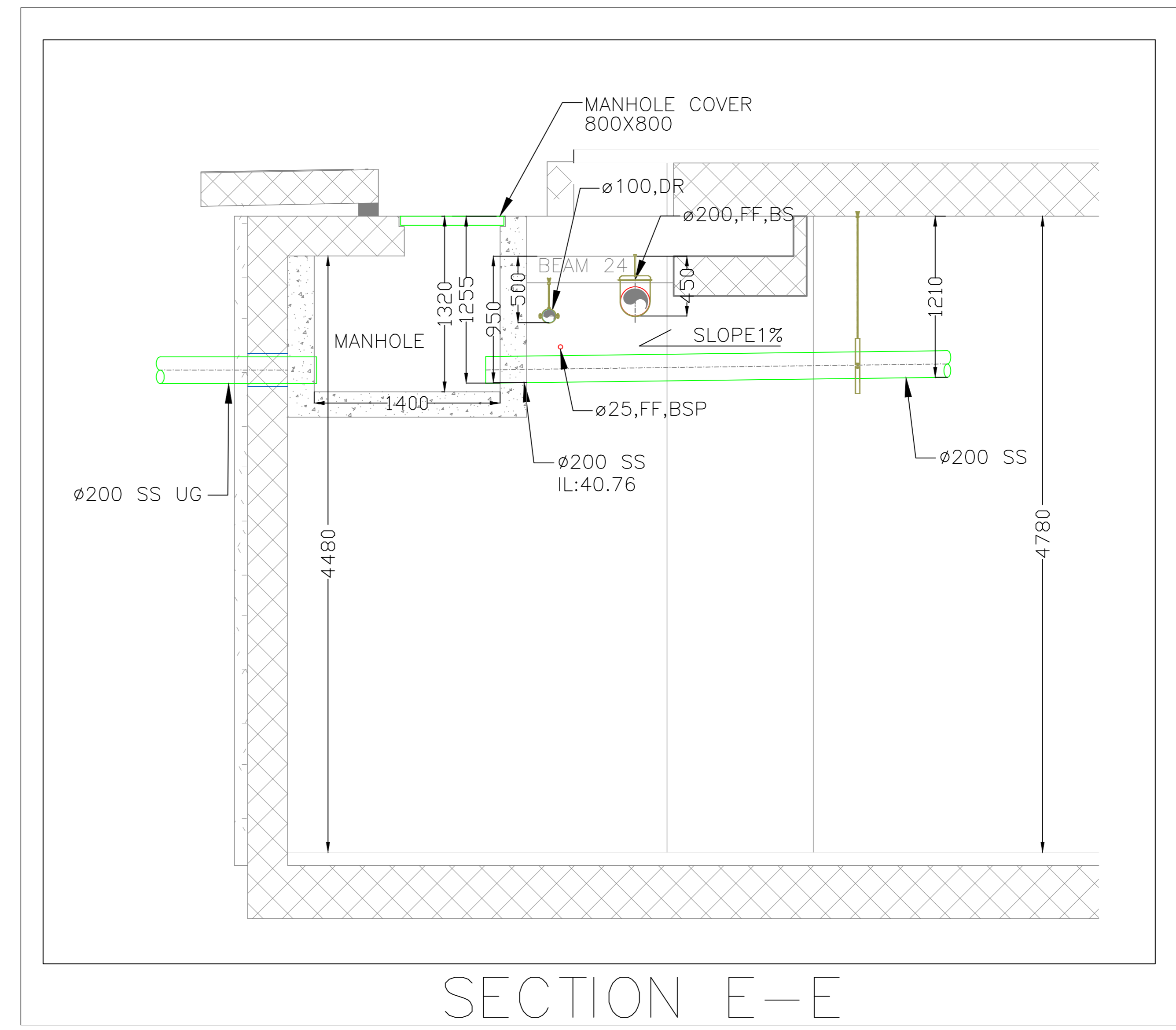
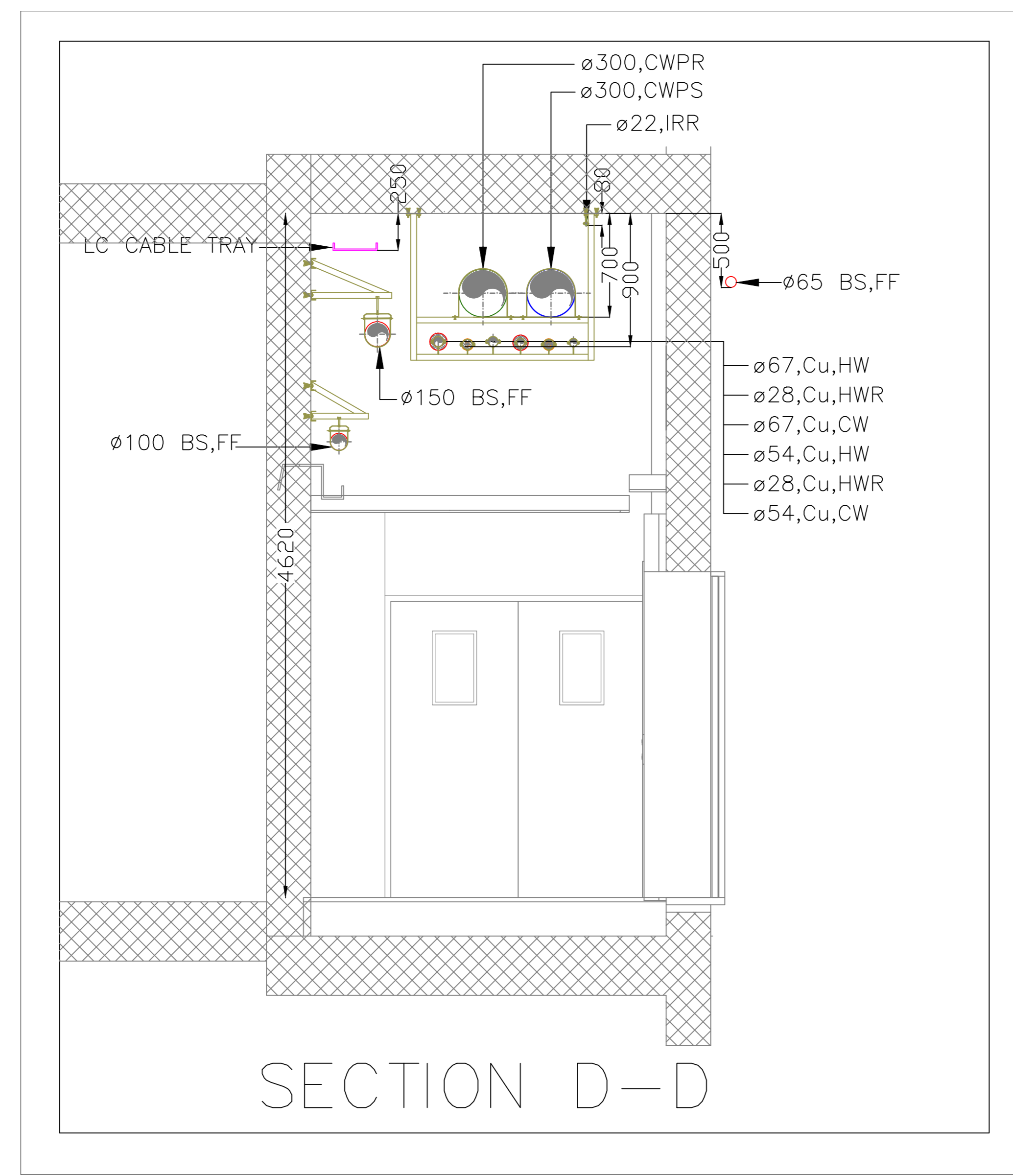
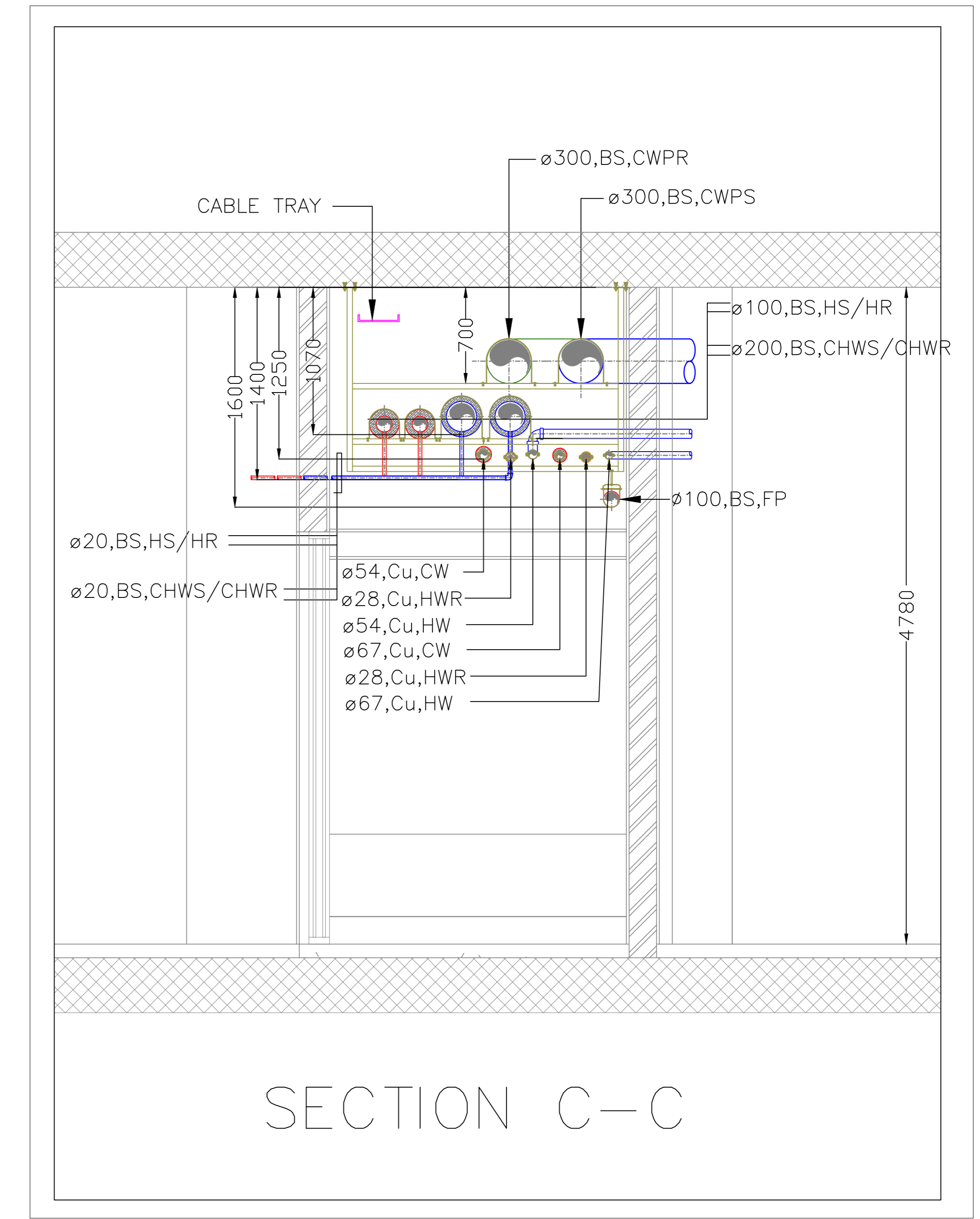
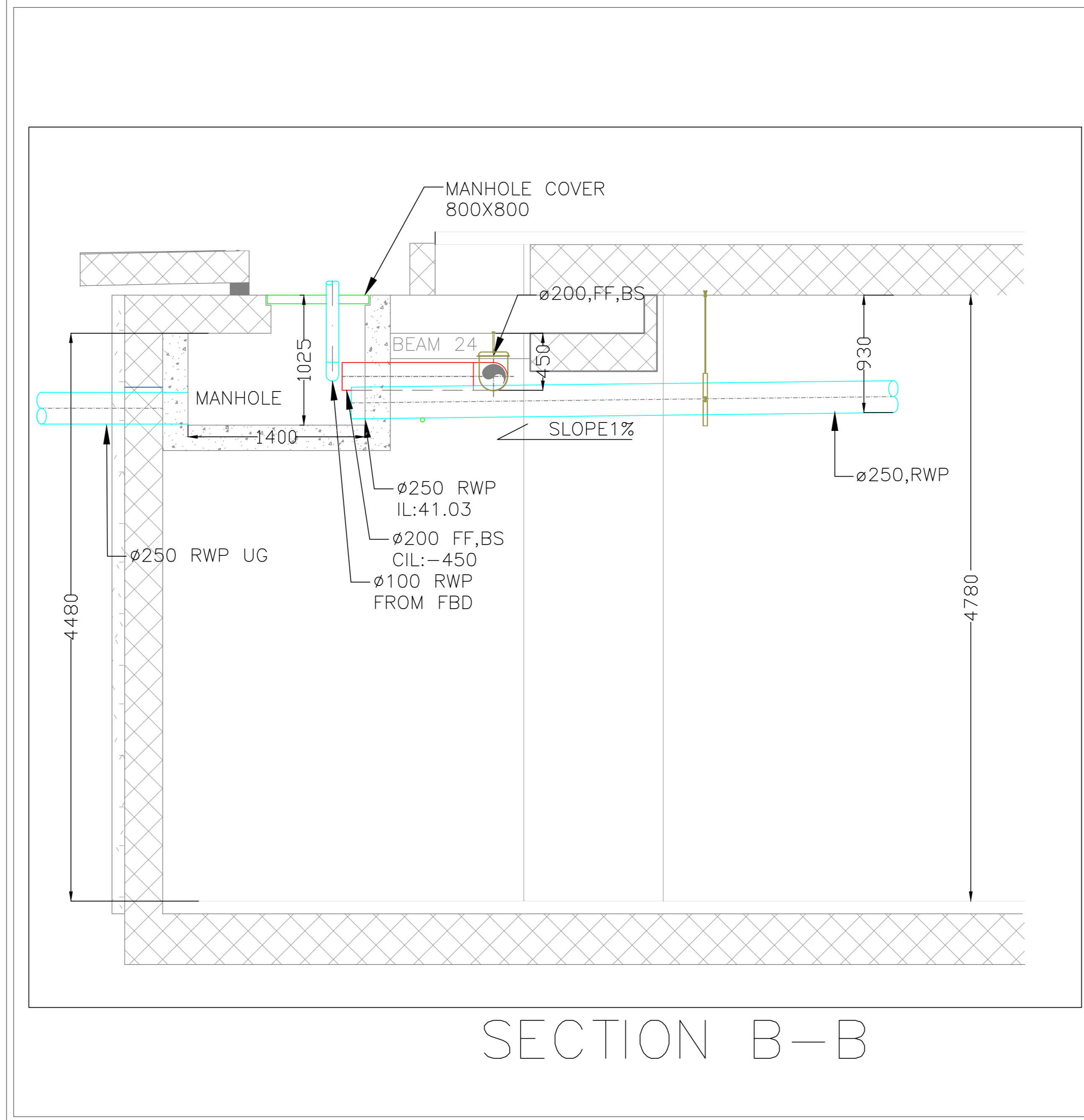
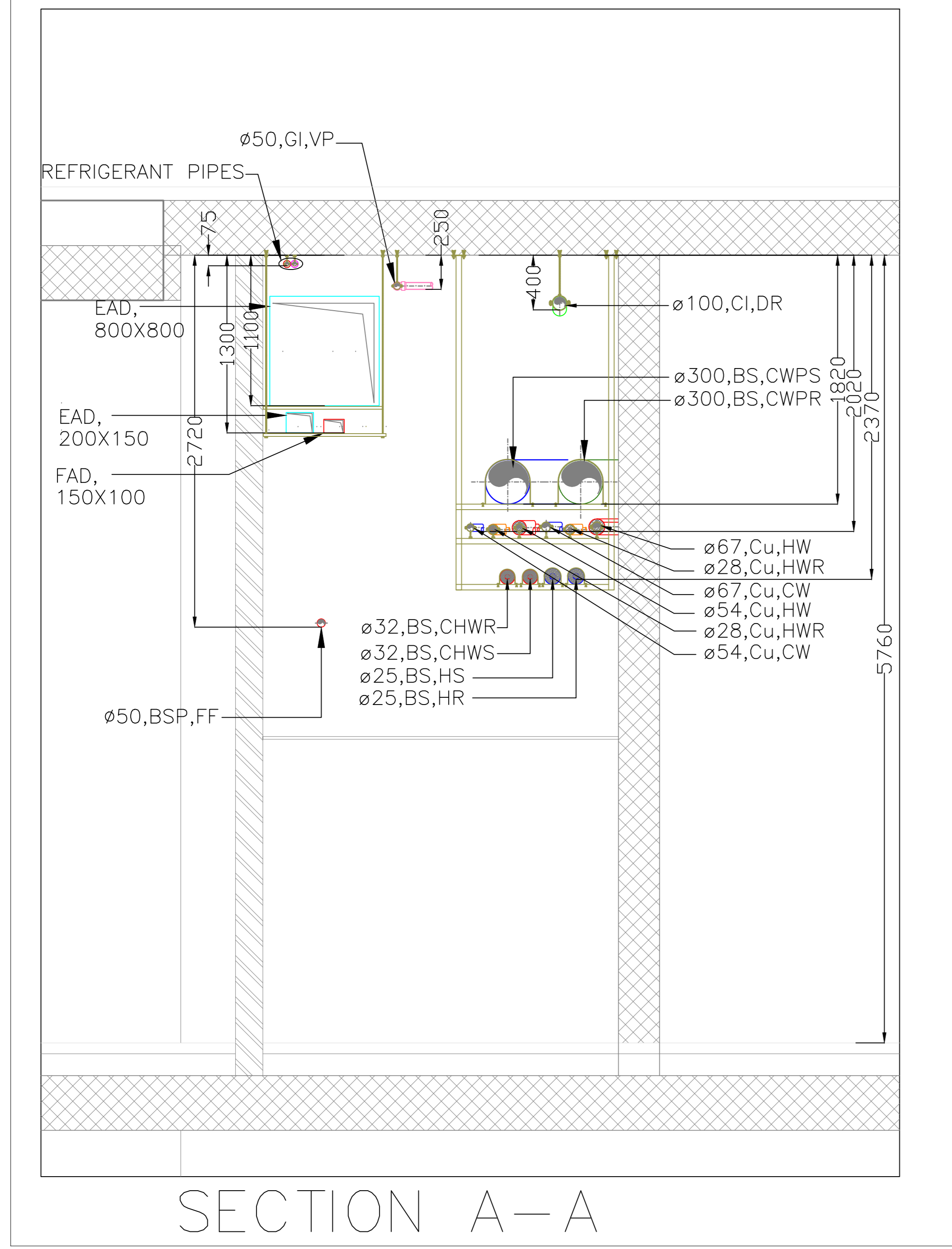
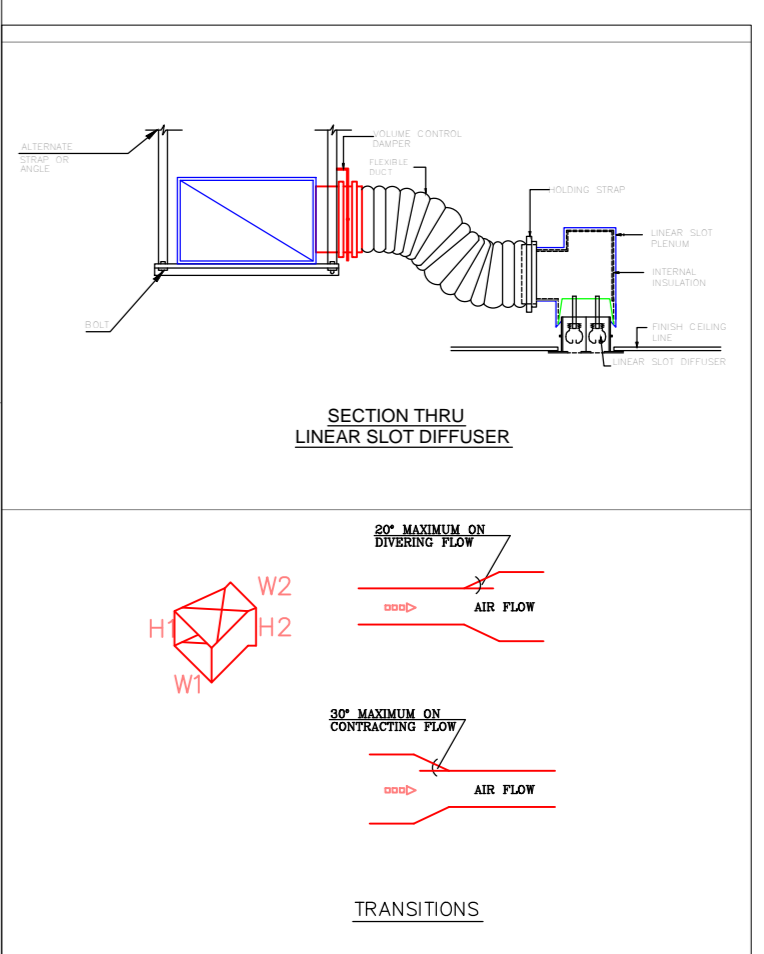
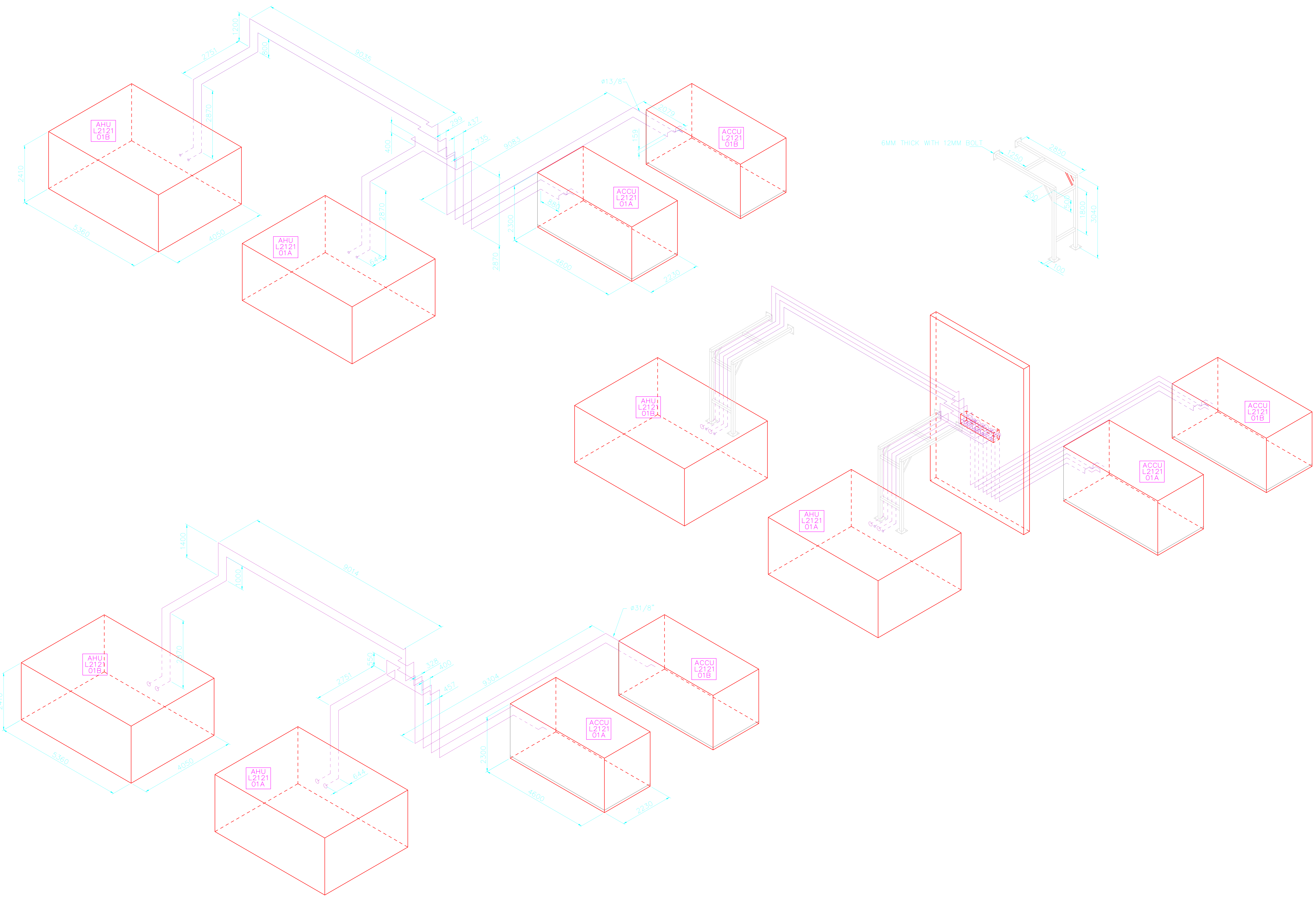


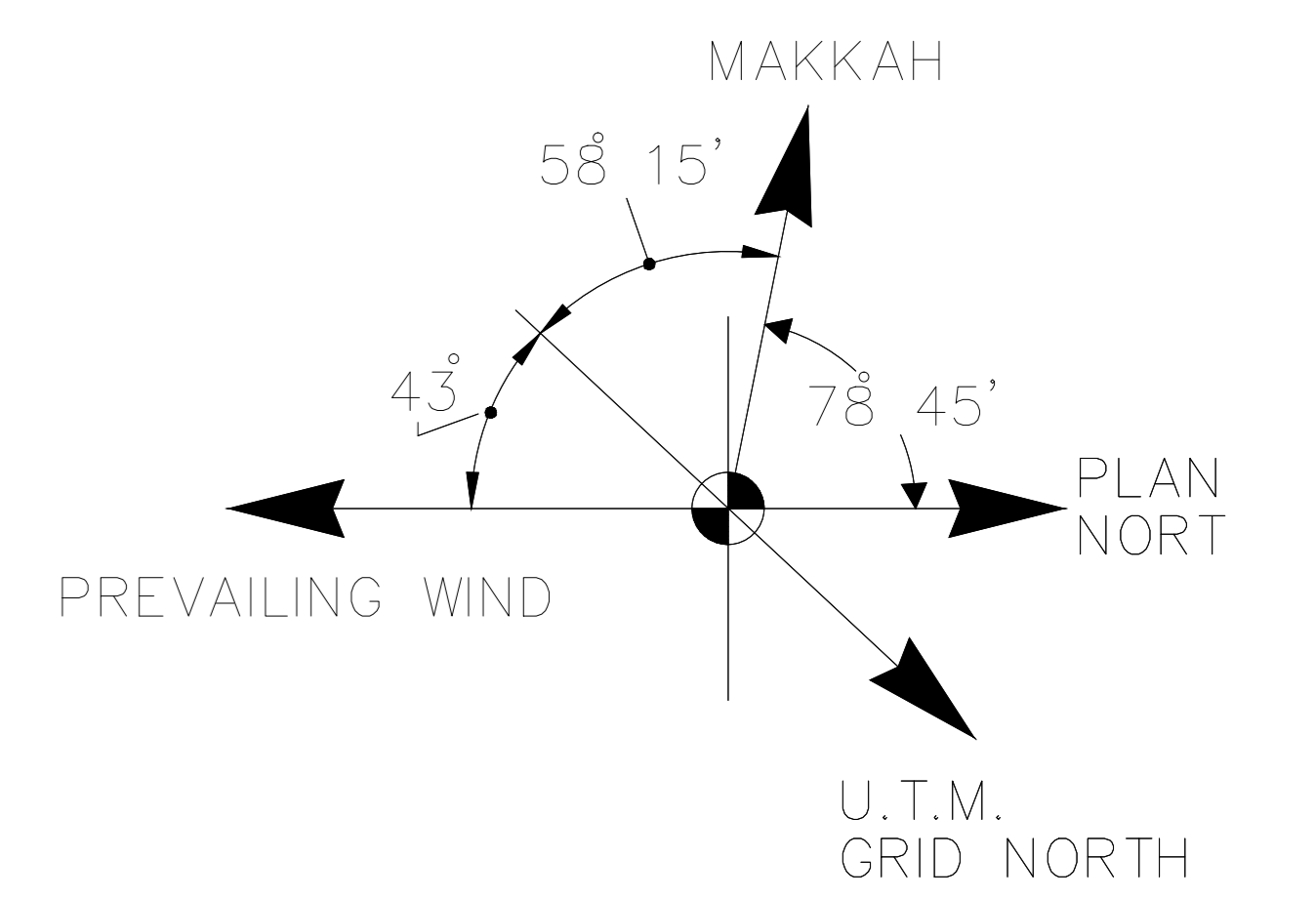
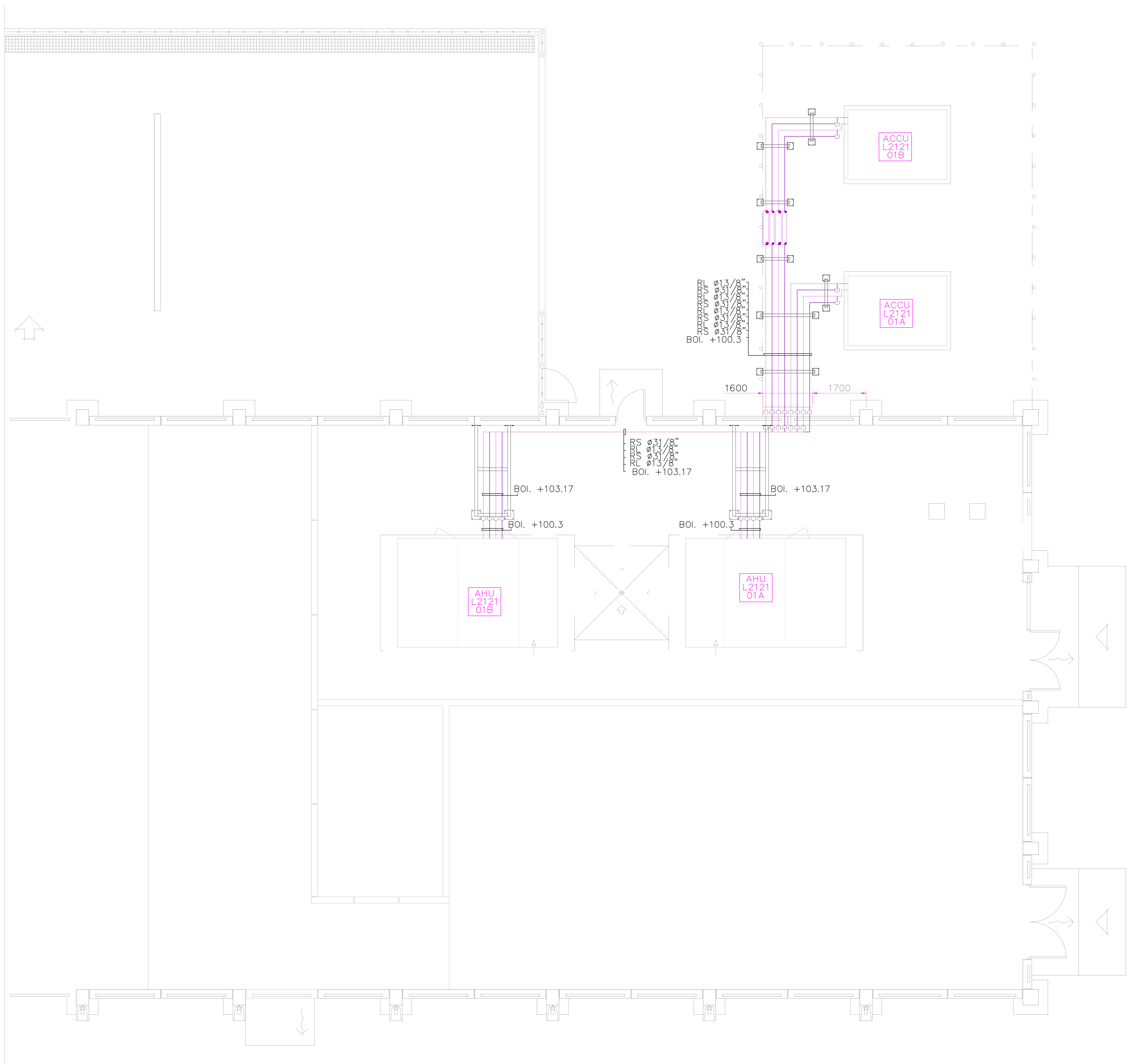
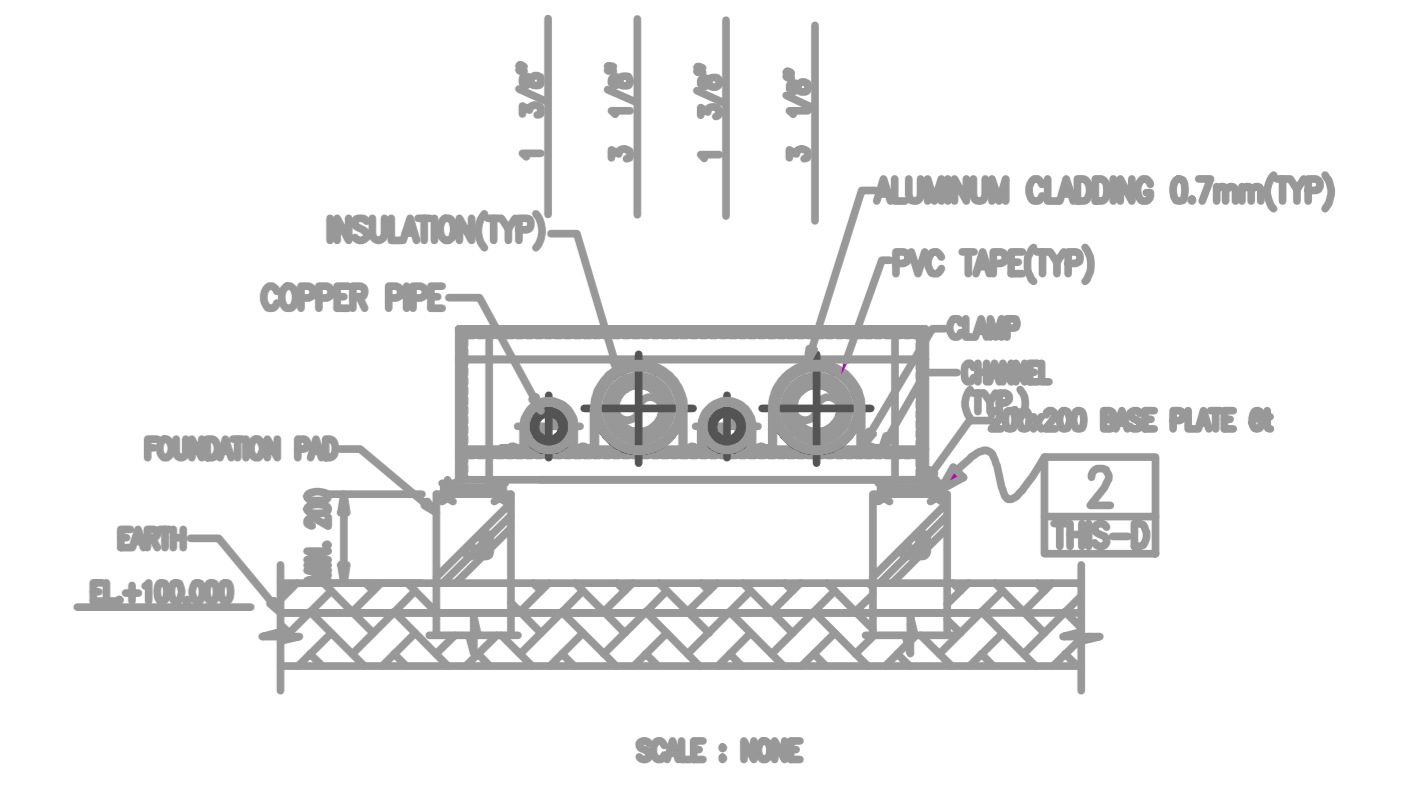
FOR BENCH DET. REFER TO LANDSCAPE DWG No. L-301





SYMBOL	DESCRIPTION
SLSD	SUPPLY LINEAR SLOT DIFFUSER
RLSD	RETURN LINEAR SLOT DIFFUSER
SLSD	SLIDING LINEAR SLOT DIFFUSER
MS	MECHANICAL STOP
CL	CLASH EVENT
DL	DOOR LOWER
EA	EXHAUST AIR
EAD	EXHAUST AIR DUCT
ES	EXHAUST grille
ER	EXHAUST REGISTER
FA	FRESH AIR
FAD	FRESH AIR DUCT
FAL	FRESH AIR LOWER
FAR	FRESH AIR REGISTER
FAS	FRESH AIR SLIT
AT	AT FAN
TR	TRANSFER
UPS	UPPER STAIR WALKIE
LSW	LOWER STAIR WALKIE
MFP	MULTIPOINT FLEXIBLE PLUMBING
MFD	MULTIPOINT FLEXIBLE DUCTWORK
MPF	MULTIPOINT FLEXIBLE PLUMBING
MPD	MULTIPOINT FLEXIBLE DUCTWORK
RF	REGISTER
RA	RETURN AIR
RAA	RETURN AIR AIR DUCT
RAF	RETURN AIR FAN
RAO	RETURN AIR REGISTER
RS	RETURN grille
RE	RETURN REGISTER
RAD	RETURN AIR DUCT
SA	SUPPLY AIR
SAD	SUPPLY AIR DUCT
SAT	SUPPLY AIR REGISTER
SD	SUPPLY DUCTWORK
SDR	SUPPLY REGISTER
SR	SUPPLY REGISTER
TIP	TYPICAL
TR	TO ABOVE
TD	TO BELOW
VO	VOLUME DAMPER
AD	ACCESS DOOR

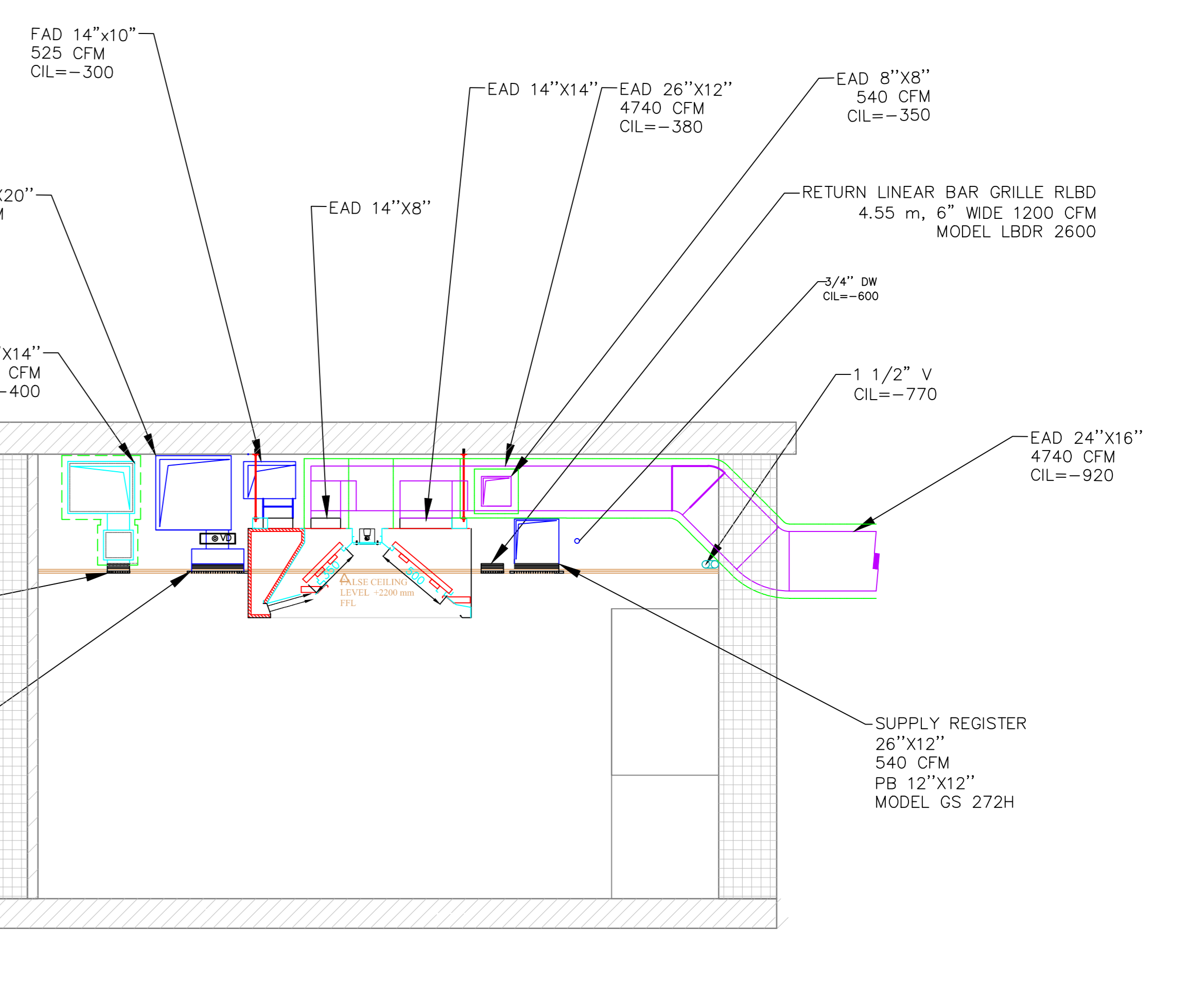
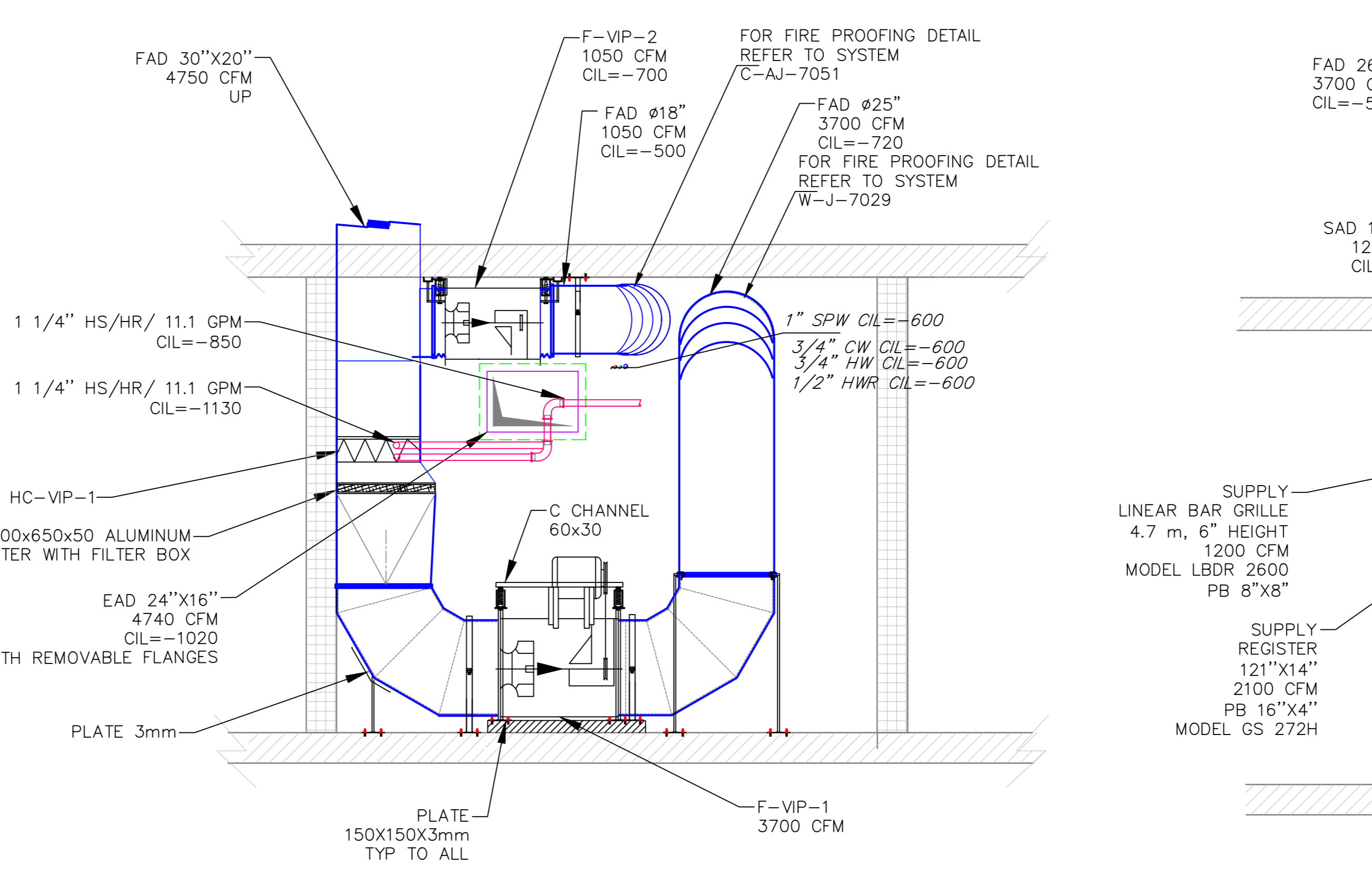
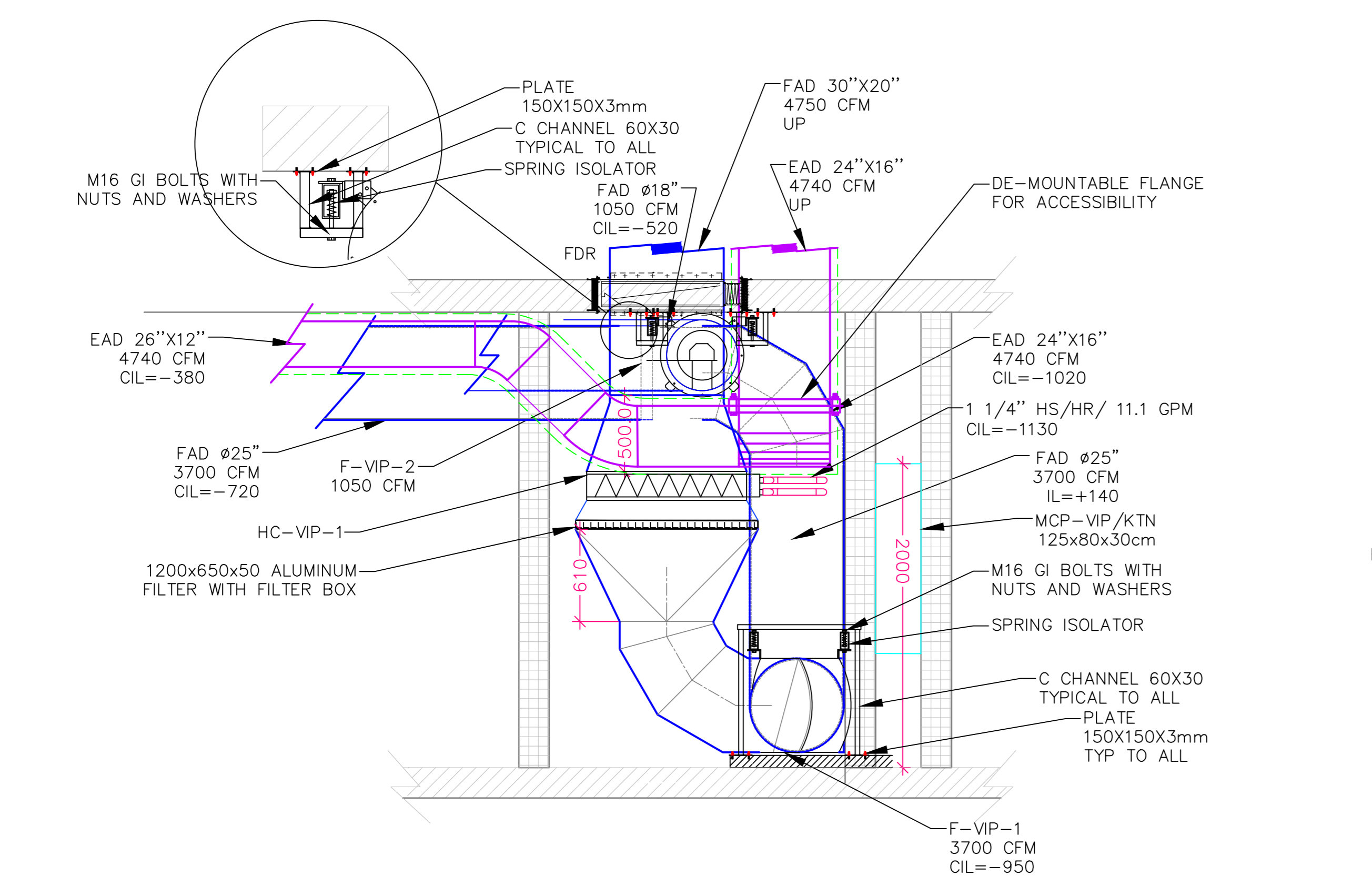
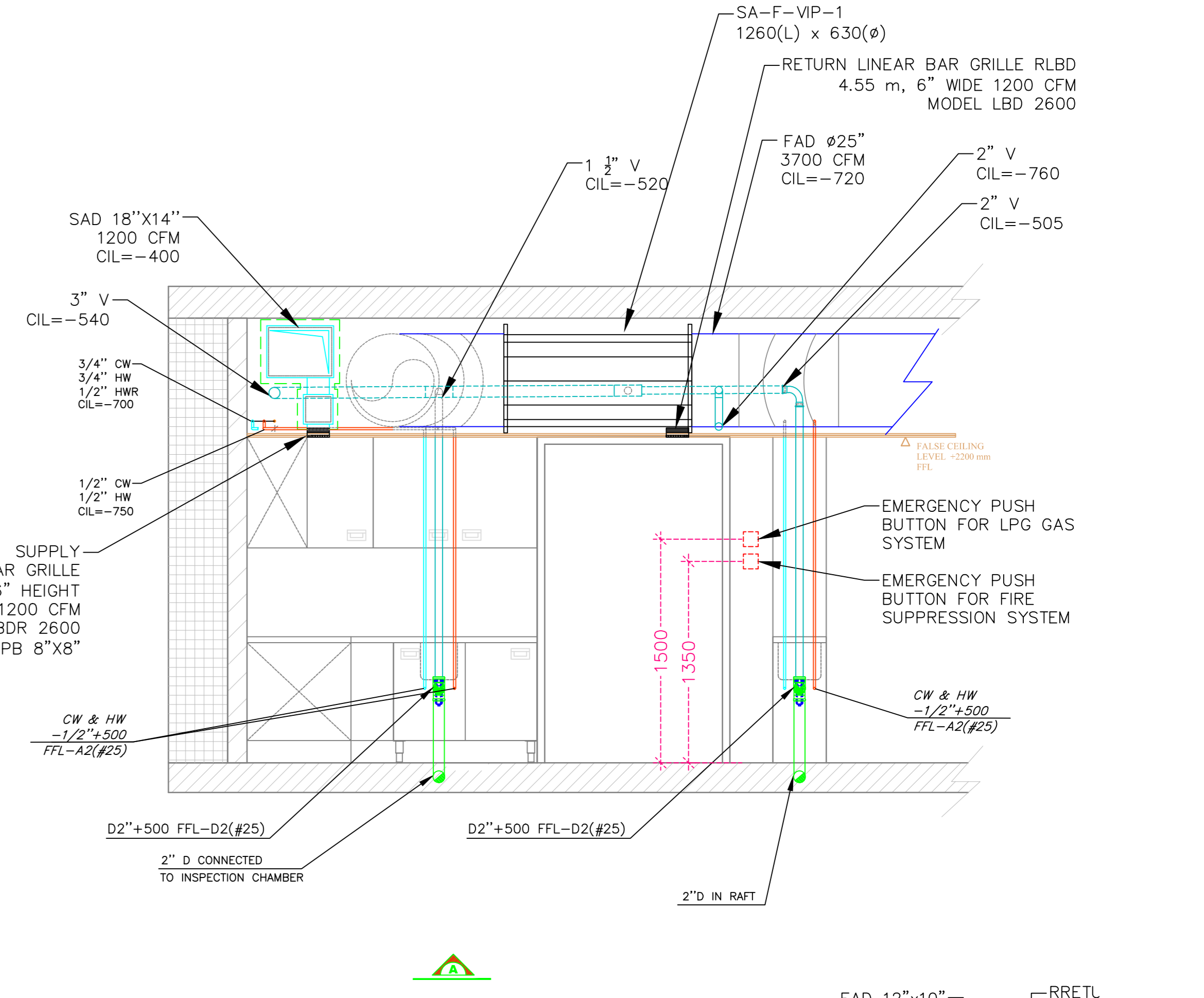
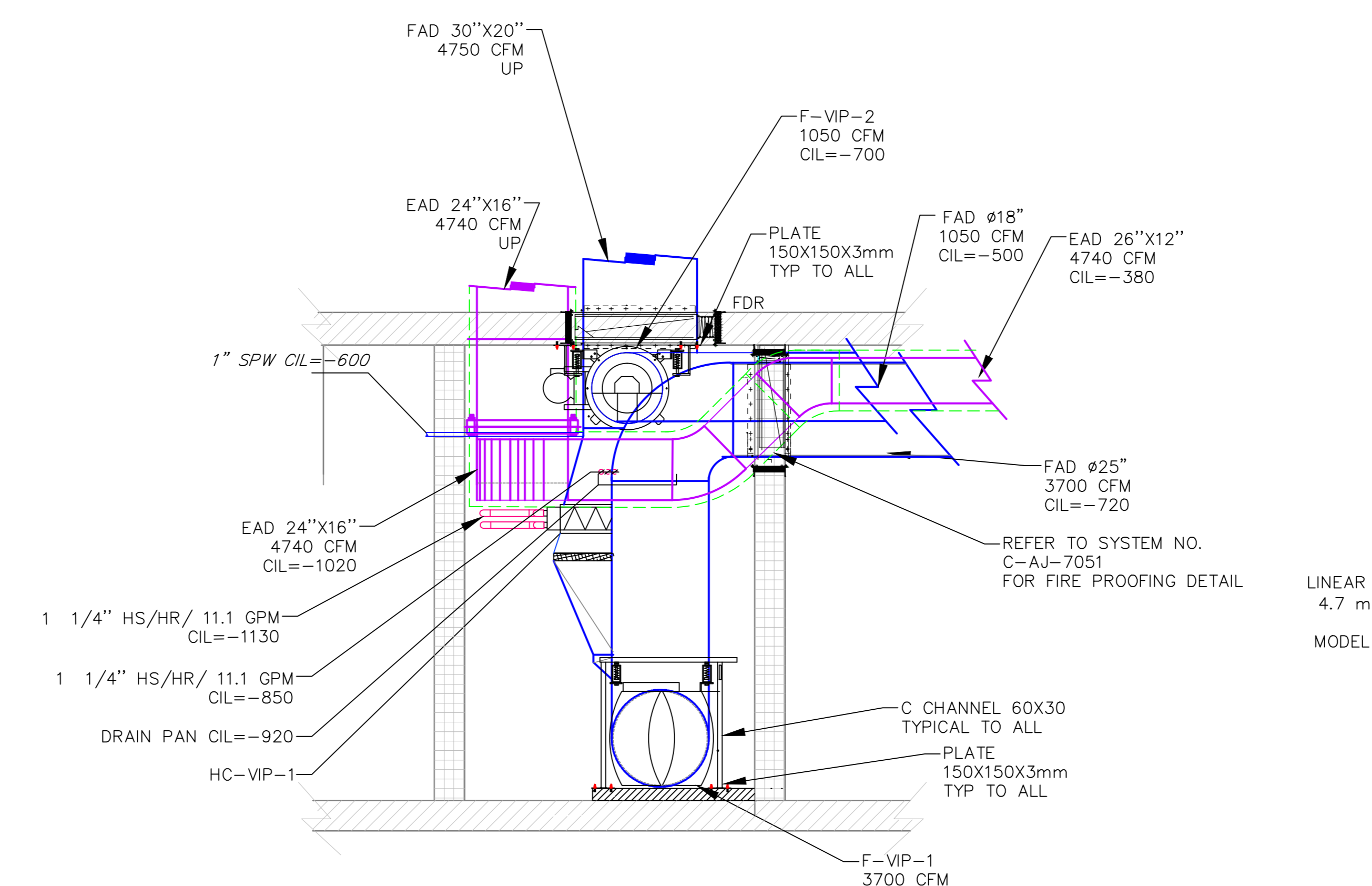
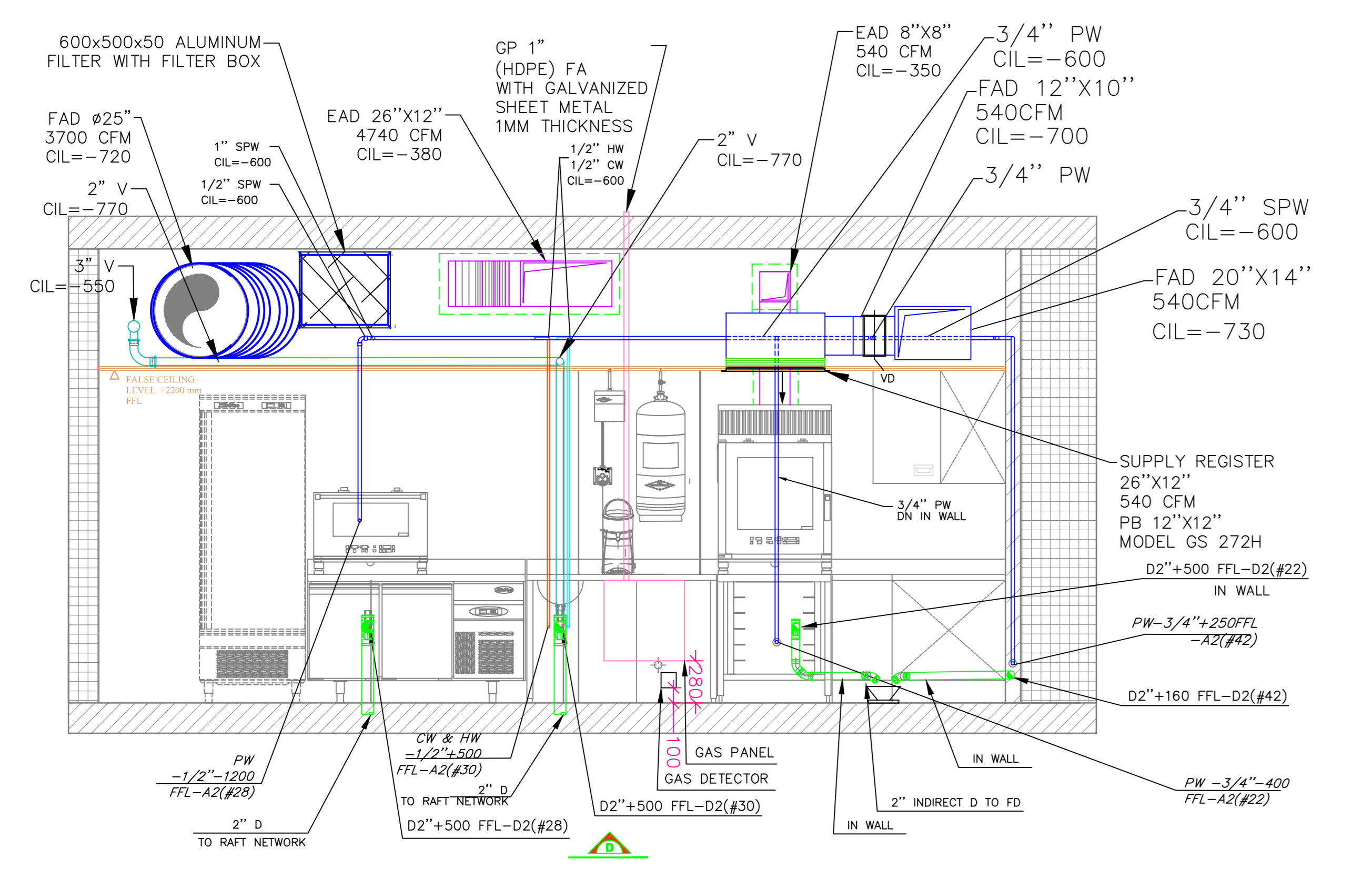
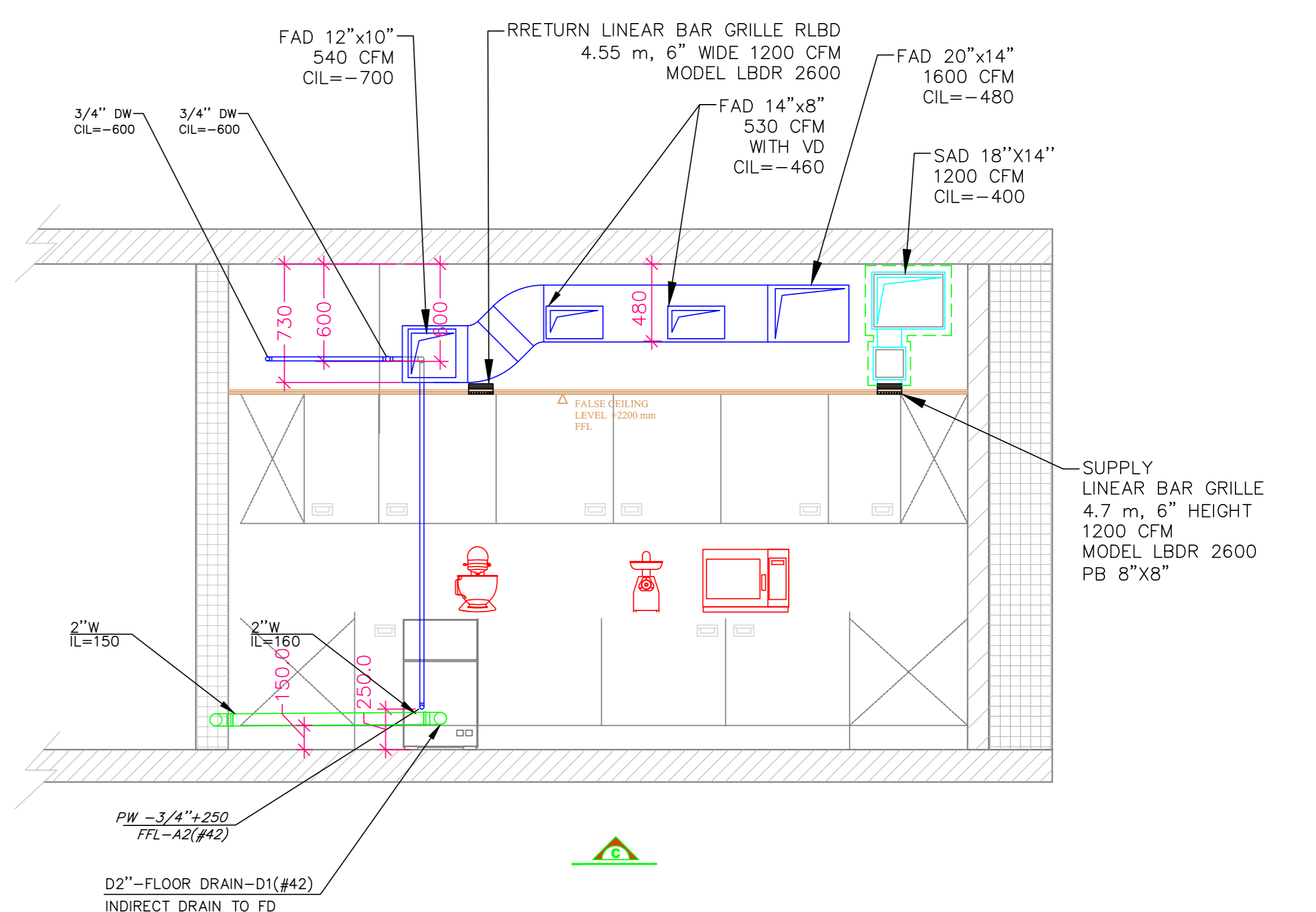
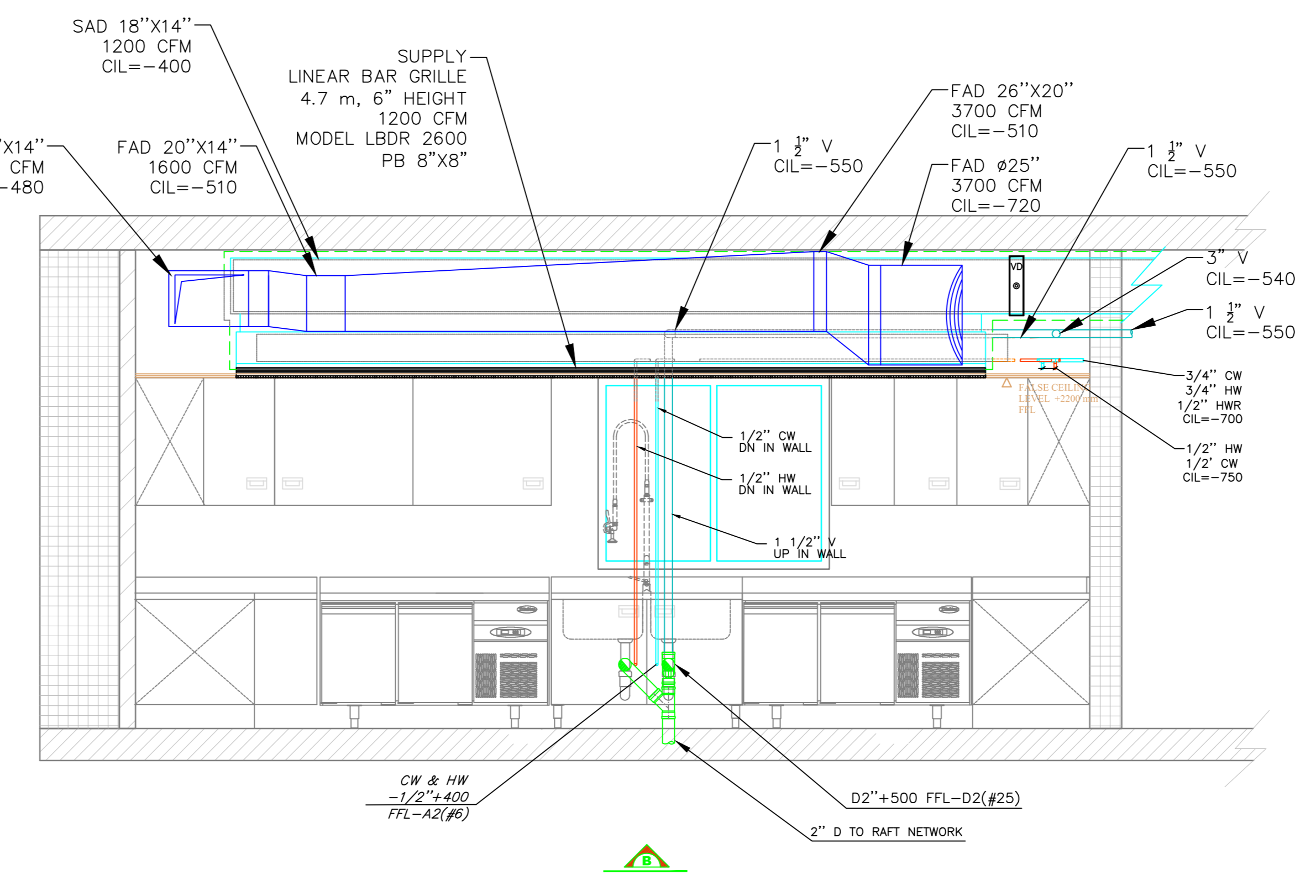
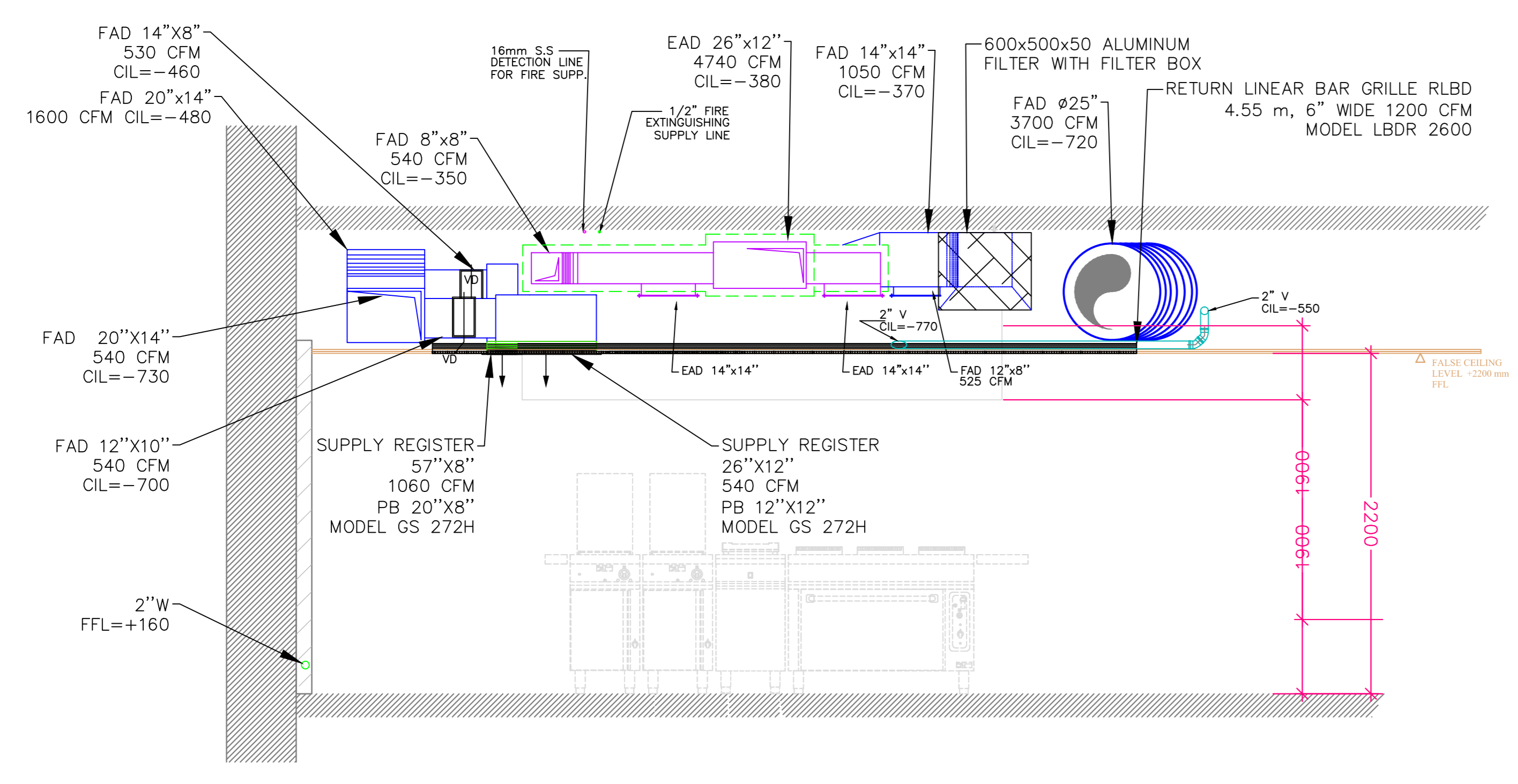






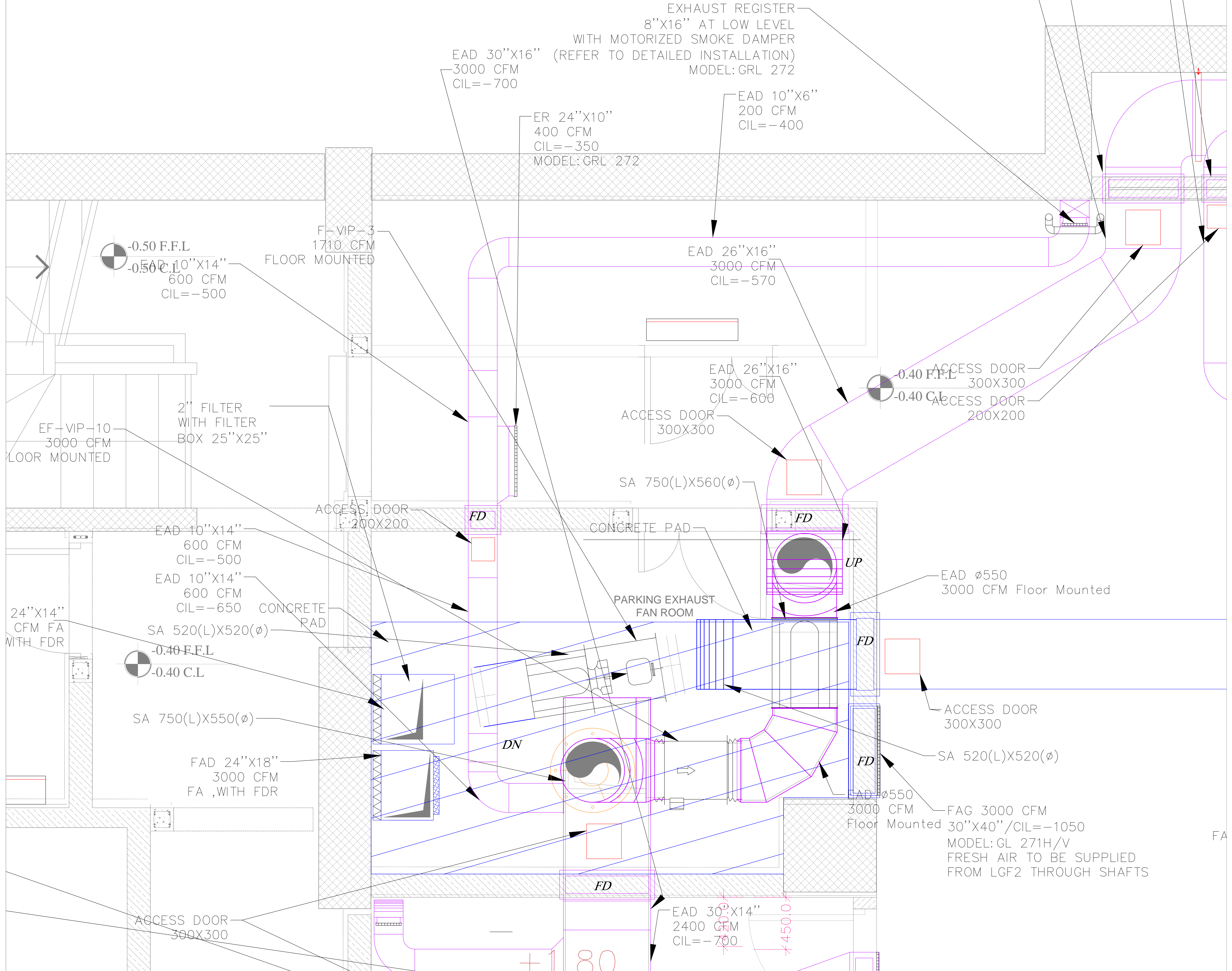
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

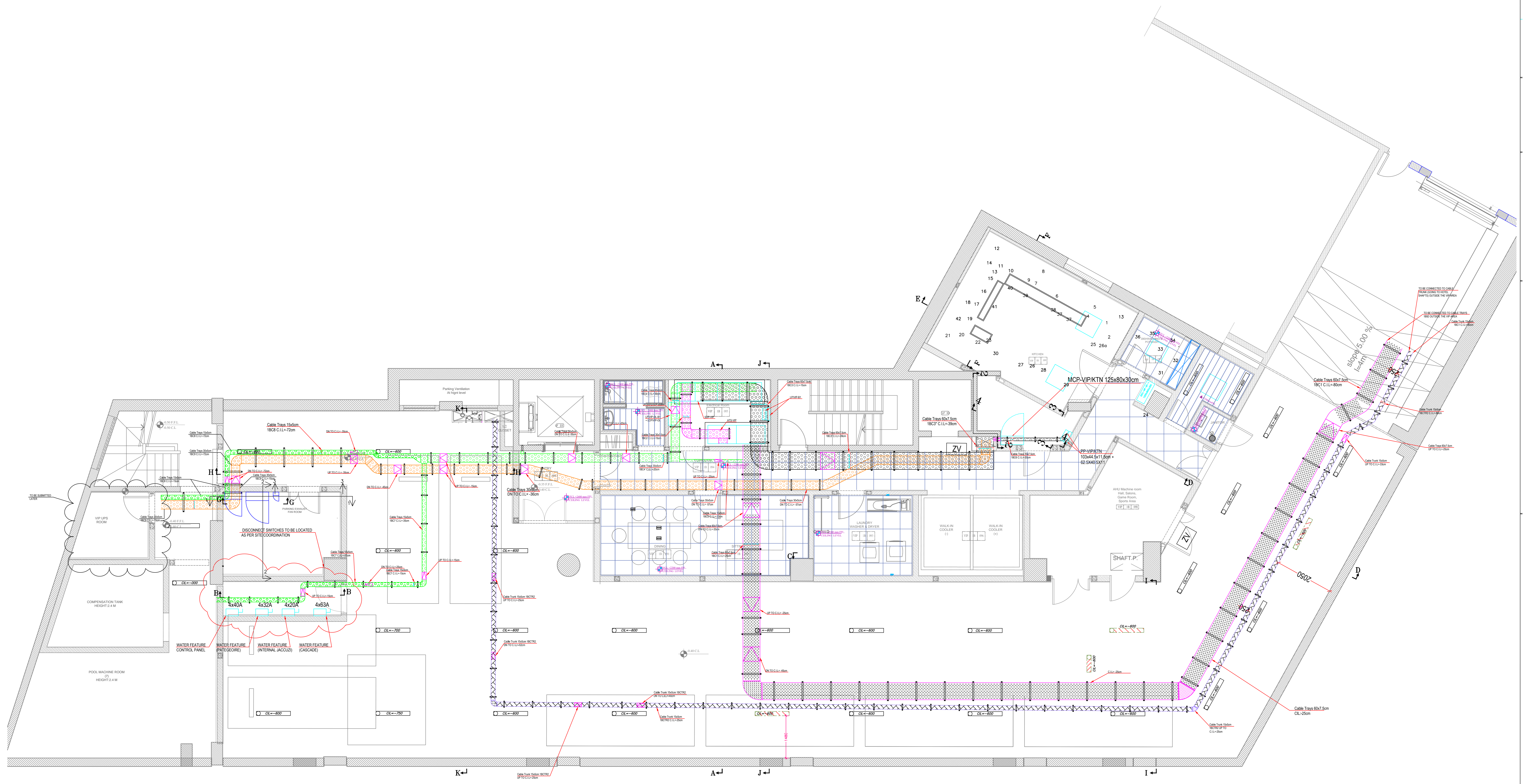
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

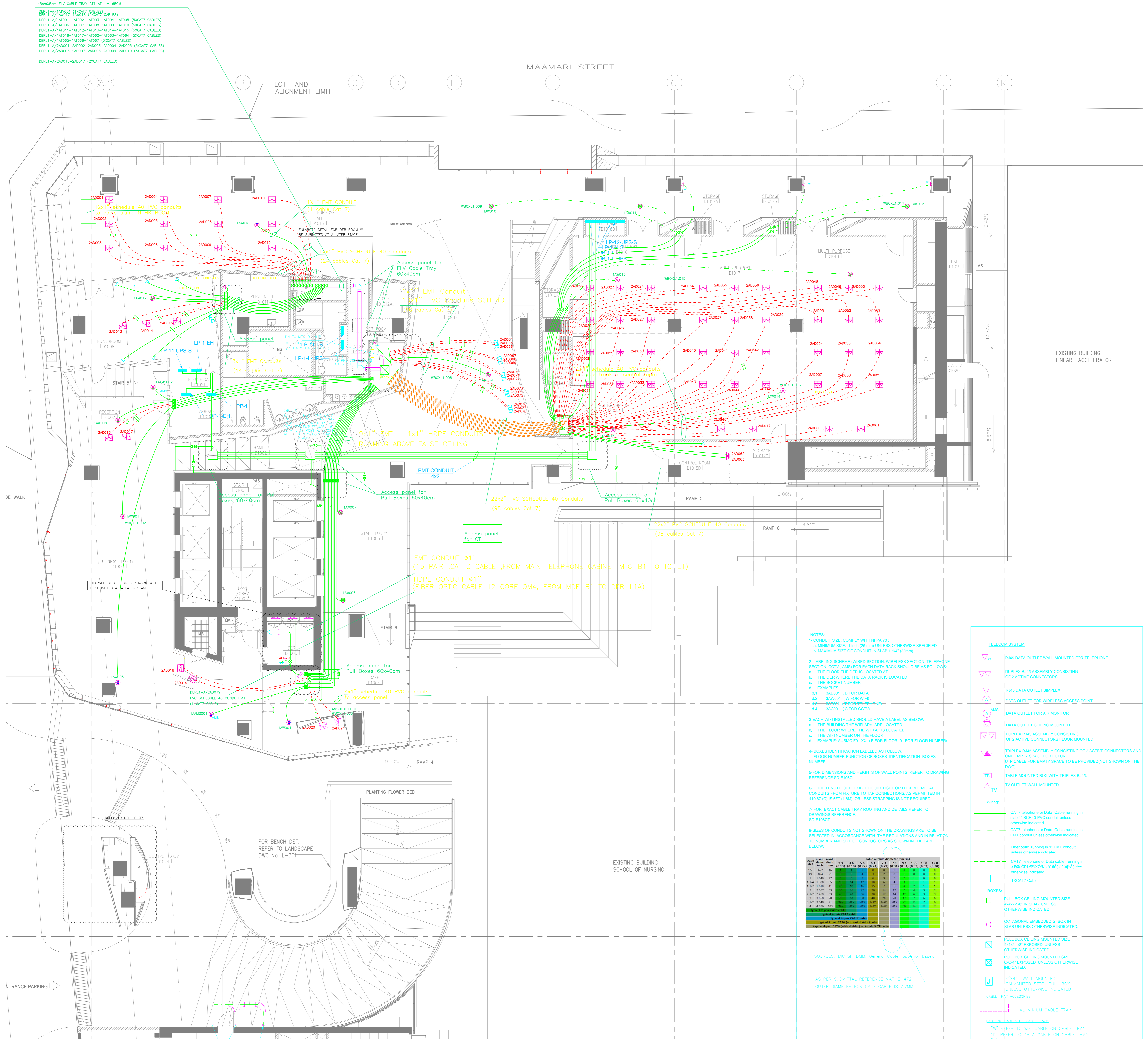












45mX30m EHV CABLE TRAY CTI AT IL=65CM  
 DERL1-A/1A7001 (1XCAT7 CABLES)  
 DERL1-A/1A7011-1A7012 (2XCAT7 CABLES)  
 DERL1-A/1A7001-1A7002-1A7003-1A7004-1A7005 (5XCAT7 CABLES)  
 DERL1-A/1A7006-1A7007-1A7008-1A7009-1A7010 (5XCAT7 CABLES)  
 DERL1-A/1A7011-1A7012-1A7013-1A7014-1A7015 (5XCAT7 CABLES)  
 DERL1-A/1A7016-1A7017-1A7018-1A7019-1A7020 (5XCAT7 CABLES)  
 DERL1-A/1A7005-1A7006-1A7007 (3XCAT7 CABLES)  
 DERL1-A/2A0001-2A0002-2A0003-2A0004-2A0005 (5XCAT7 CABLES)  
 DERL1-A/2A0006-2A0007-2A0008-2A0009-2A0010 (5XCAT7 CABLES)  
 DERL1-A/2A0016-2A0017 (2XCAT7 CABLES)

- NOTES:**
- CONDUIT SIZE: COMPLY WITH NFPA 70.
  - MINIMUM SIZE: 1.5" (38mm) UNLESS OTHERWISE SPECIFIED.
  - MAXIMUM SIZE OF CONDUIT IN SLAB: 1.5" (38mm).
- 2. LABELING SCHEME (WIRED SECTION):** WIRELESS SECTION: TELEPHONE SECTION: CTV, AMS) FOR EACH DATA RACK SHOULD BE AS FOLLOWS:
- THE FLOOR THE DER IS LOCATED AT
  - THE DER WHERE THE DATA RACKS IS LOCATED
  - THE SOCKET NUMBER
- 3. EXAMPLES:**
- 3A0001 (D FOR DATA)
  - 3A0001 (W FOR WIFI)
  - 3A0001 (T FOR TELEPHONE)
  - 3A0001 (C FOR CCTV)
- 3-EACH WIFI INSTALLED SHOULD HAVE A LABEL AS BELOW:**
- THE BUILDING THE WIFI AP IS LOCATED
  - THE FLOOR WHERE THE WIFI AP IS LOCATED
  - THE WIFI NUMBER ON THE FLOOR
  - EXAMPLE: AUBMCJ01.XX (F FOR FLOOR, 01 FOR FLOOR NUMBER)
- 4. BOXES IDENTIFICATION LABELED AS FOLLOWS:**
- FLOOR NUMBER-FUNCTION OF BOXES IDENTIFICATION-BOXES NUMBER
- 5-FOR DIMENSIONS AND HEIGHTS OF WALL POINTS: REFER TO DRAWING REFERENCE SD-E106/LL**
- 6-IF THE LENGTH OF FLEXIBLE LIQUID TIGHT OR FLEXIBLE METAL CONDUITS FROM FIXTURE TO TAP CONNECTIONS, AS PERMITTED IN 410.67 (C) IS 6FT (1.8M), OR LESS STRAPPING IS NOT REQUIRED**
- 7-FOR EXACT CABLE TRAY ROUTING AND DETAILS REFER TO DRAWINGS REFERENCE: SD-E106/CT**
- 8-SIZES OF CONDUITS NOT SHOWN ON THE DRAWINGS ARE TO BE SELECTED IN ACCORDANCE WITH THE REGULATIONS AND IN RELATION TO NUMBER AND SIZE OF CONDUCTORS AS SHOWN IN THE TABLE BELOW:**

Conduit Size (in)	Cable Number (Number of Cables)							
	1-3	4-6	7-9	10-12	13-15	16-18	19-21	22-24
1/2"	1	1	1	1	1	1	1	1
3/4"	1	1	1	1	1	1	1	1
1"	1	1	1	1	1	1	1	1
1 1/4"	1	1	1	1	1	1	1	1
1 1/2"	1	1	1	1	1	1	1	1
2"	1	1	1	1	1	1	1	1
2 1/2"	1	1	1	1	1	1	1	1
3"	1	1	1	1	1	1	1	1
3 1/2"	1	1	1	1	1	1	1	1
4"	1	1	1	1	1	1	1	1
4 1/2"	1	1	1	1	1	1	1	1
5"	1	1	1	1	1	1	1	1
6"	1	1	1	1	1	1	1	1
8"	1	1	1	1	1	1	1	1
10"	1	1	1	1	1	1	1	1

SOURCES: BIC SI TDMM, General Cable, Superior Essex

**TELECOM SYSTEM**

- DATA OUTLET WALL MOUNTED FOR TELEPHONE
- DUPLEX RJ45 ASSEMBLY CONSISTING OF 2 ACTIVE CONNECTORS
- RJ45 DATA OUTLET SIMPLE
- DATA OUTLET FOR WIRELESS ACCESS POINT
- DATA OUTLET CEILING MOUNTED
- DUPLEX RJ45 ASSEMBLY CONSISTING OF 2 ACTIVE CONNECTORS FLOOR MOUNTED
- TRIPLEX RJ45 ASSEMBLY CONSISTING OF 2 ACTIVE CONNECTORS AND ONE EMPTY SPACE FOR FUTURE (UTP CABLE FOR EMPTY SPACE TO BE PROVIDED NOT SHOWN ON THE DWG)
- TABLE MOUNTED BOX WITH TRIPLEX RJ45
- TV OUTLET WALL MOUNTED

**BOXES:**

- PULL BOX CEILING MOUNTED SIZE 4x4x2-1/8" IN SLAB UNLESS OTHERWISE INDICATED
- OCTAGONAL EMBEDDED GI BOX IN SLAB UNLESS OTHERWISE INDICATED
- PULL BOX CEILING MOUNTED SIZE 4x4x2-1/8" EXPOSED UNLESS OTHERWISE INDICATED
- PULL BOX CEILING MOUNTED SIZE 6x6x4" EXPOSED UNLESS OTHERWISE INDICATED
- 4"x4" WALL MOUNTED GALVANIZED STEEL PULL BOX UNLESS OTHERWISE INDICATED
- CABLE TRAY ACCESSORIES
- ALUMINUM CABLE TRAY

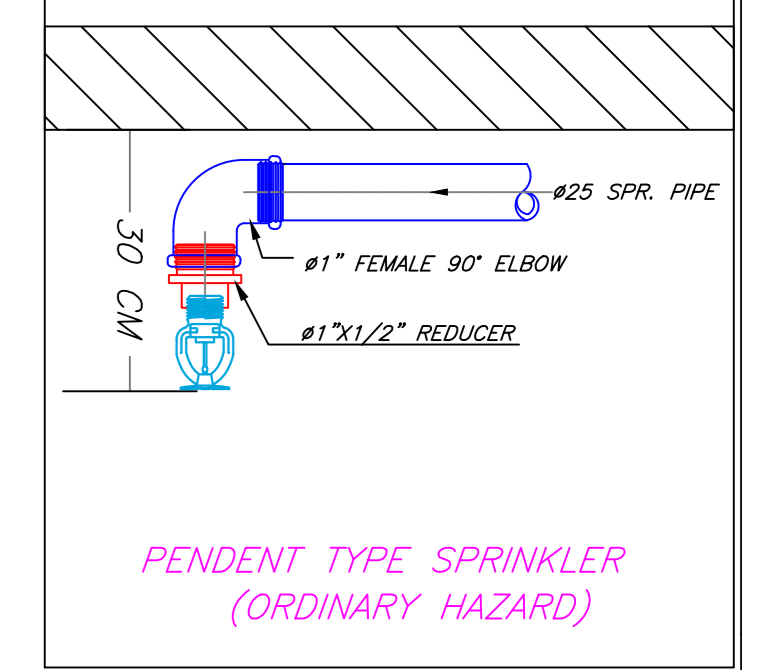
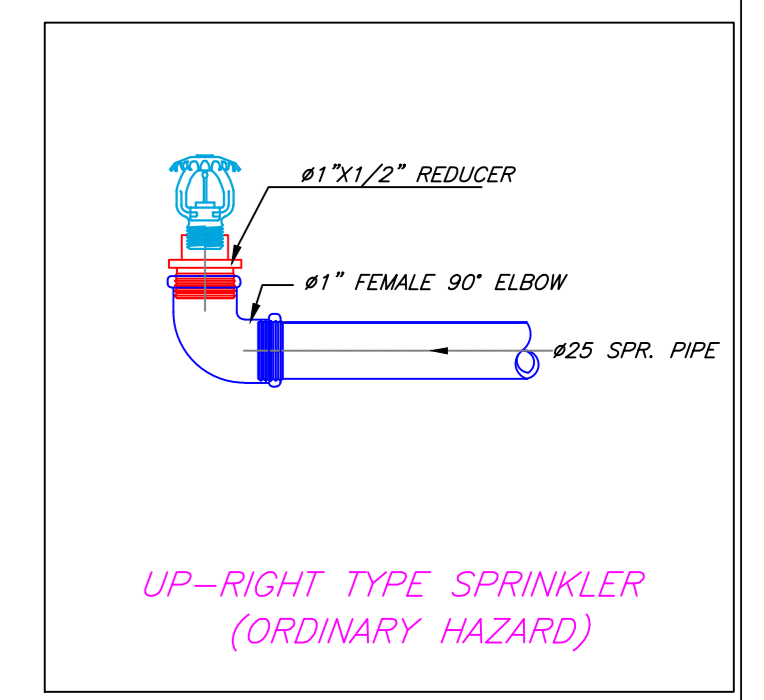
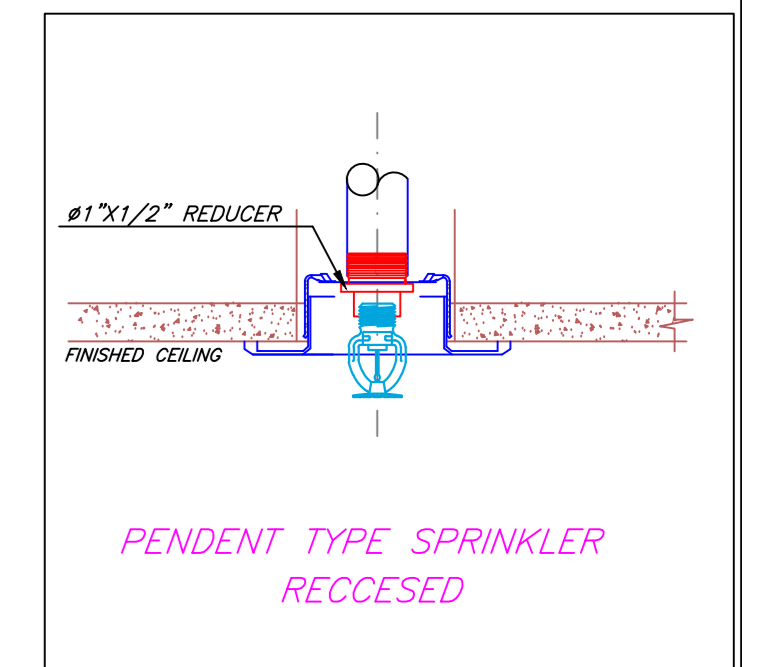
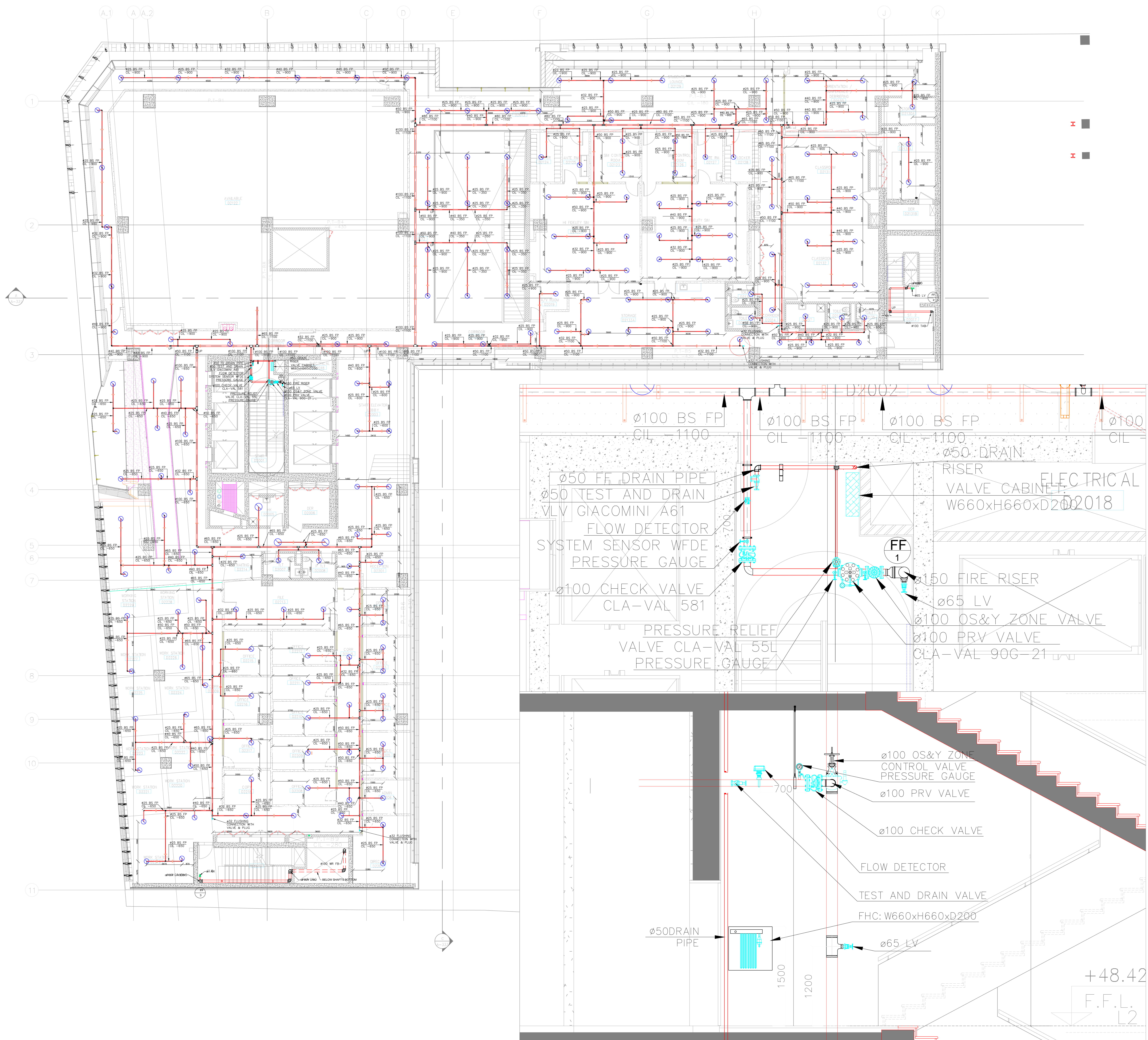
**LEGEND:**

- Wiring
- CAT7 telephone or Data Cable running in slab 1" SCHEDULE 40 PVC conduit unless otherwise indicated
- CAT7 telephone or Data Cable running in EMT conduit unless otherwise indicated
- Fiber optic running in 1" EMT conduit unless otherwise indicated
- CAT7 Telephone or Data Cable running in 1" HDPE (12 CORE OM4) unless otherwise indicated
- 1XCAT7 Cable

**AS PER SUBMITTAL REFERENCE MAT-E-472**  
 OUTER DIAMETER FOR CAT7 CABLE IS 7.7MM

**DRAWING NOTES**

- 1- ALL FIRE PIPES UP TO DN 50mm ARE OF BLACK STEEL PIPES WITH THREADED FITTINGS
- 2- ALL FIRE PIPES UP TO DN 65mm AND ABOVE ARE OF BLACK STEEL PIPES WITH WELDED JOINTS EXCEPT DRY PIPE BETWEEN CHECK VALVE AND SIAMESE CONNECTION
- 3- ALL DIMENSIONS ARE IN mm
- 4- ALL SUPPORTING DETAILS TO BE SUBMITTED SEPARATELY
- 5- ZONE CONTROL VALVE DETAILS WILL BE SUBMITTED SEPARATELY



SYMBOL	DESCRIPTION
CL	CEILING INVERT LEVEL
WR	WATER RISER
PRV	PRESSURE REDUCING VALVE
LV	LANDING VALVE
FP	FIRE PIPE
BS	BLACK STEEL PIPES
DN	DOWN
FAB	FROM ABOVE
TIP	TYPICAL
TAB	TO ABOVE
TB	TO BELOW
	UPRIGHT SPRINKLER
	PENDENT SPRINKLER
	RECESSED SPRINKLER

