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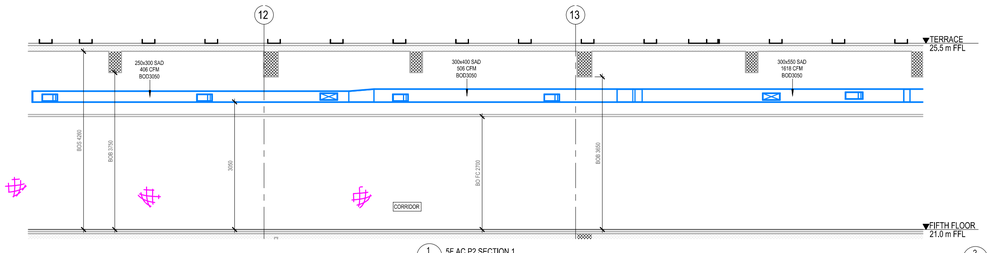
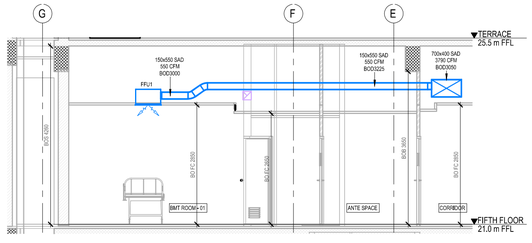
FOR CONTINUATION REFER DWG NO : O19035-V-HP-02-AC-0014 AC DUCTING LAYOUT PART - A



1 / 0015 5F AC P2 SECTION 1
1 : 50



2 / 0015 5F AC P2 SECTION 2
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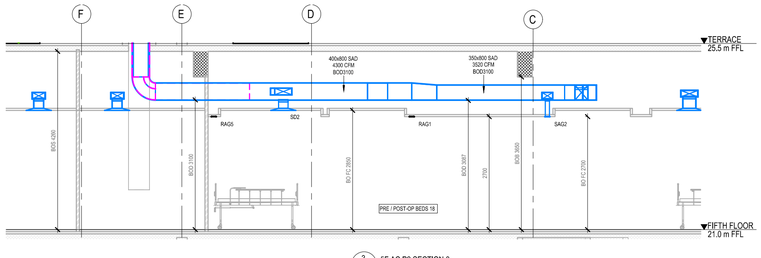

3 / 0015 5F AC P2 SECTION 3
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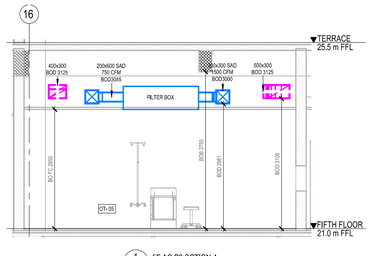
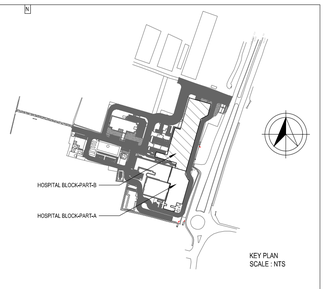


4 / 0015 5F AC P2 SECTION 4
1 : 50



KEY PLAN
SCALE : NTS

FIFTH FLOOR PART-B AHU SCHEDULE:

S.NO	TAG NO	AREA SERVED	TYPE OF UNIT	AHU CAPACITY		QUANTITY NOS.
				TR	CFM	
1	02-SF-AHU-04	OPERATION THEATER 1	FLOOR MOUNTED AIR HANDLING UNIT	10	3000	01
2	02-SF-AHU-05	OPERATION THEATER 2	FLOOR MOUNTED AIR HANDLING UNIT	10	3000	01
3	02-SF-AHU-06	OPERATION THEATER 3	FLOOR MOUNTED AIR HANDLING UNIT	10	3000	01
4	02-SF-AHU-07	OPERATION THEATER 4	FLOOR MOUNTED AIR HANDLING UNIT	10	3000	01
5	02-SF-AHU-08	OPERATION THEATER 5	FLOOR MOUNTED AIR HANDLING UNIT	10	3000	01
6	02-SF-AHU-09	OPERATION THEATER 6	FLOOR MOUNTED AIR HANDLING UNIT	10	3000	01
7	02-SF-AHU-10	OPERATION THEATER 7	FLOOR MOUNTED AIR HANDLING UNIT	10	3000	01
8	02-SF-AHU-11	BRAIN OT	FLOOR MOUNTED AIR HANDLING UNIT	10	3000	01
9	02-SF-AHU-12	CORRIDOR & CHANGE ROOM	FLOOR MOUNTED AIR HANDLING UNIT	30	7000	01
10	02-SF-AHU-13	PREPOST OP	FLOOR MOUNTED AIR HANDLING UNIT	19	4300	01
11	02-SF-AHU-14	BMT WARDS	FLOOR MOUNTED AIR HANDLING UNIT	27	9000	01
12	02-SF-AHU-15	STERILE CORRIDOR	FLOOR MOUNTED AIR HANDLING UNIT	18	7100	01

5F PART-B AC DAMPER SCHEDULE

TAG NO	WIDTH	HEIGHT	QTY
VCD1	900	400	1
VCD 2	550	300	1
VCD 3	850	350	1
VCD 4	300	200	1
VCD 5	350	300	1
VCD 6	700	350	1
VCD 7	300	350	1
VCD 8	300	400	1
VCD 9	850	300	1
VCD 10	300	150	1
VCD 11	800	400	1
VCD 12	950	400	1
VCD 13	850	400	1
VCD 14	300	300	1
VCD 15	650	350	1
VCD 16	450	300	1
VCD 17	300	200	1
VCD 19	300	200	1
VCD 20	300	200	1
VCD 21	200	200	1

5F-PART-B-AC GRILL & DIFFUSER SCHDULE

TAG NO	Size	QTY
FFU1	550x150	6
FFU2	550x200	2
RAG1	600x100	56
RAG2	1500x100	8
RAG3	1000x100	8
RAG4	200x600	32
RAG5	2000x100	1
RAG6	600x600	2
RD1	150x150	4
RD2	225x225	12
RD3	300x300	1
RD5	450x450	2
SAG1	200x200	9
SAG2	600x100	38
SAG3	600x600	2
SD1	150x150	4
SD2	225x225	28
SD3	300x300	9
SD5	450x450	2

LEGEND:

BM+WM	BELL MOUTH WITH WIRE MESH
FD	FUSIBLE LINK FIRE DAMPER
EAD	EXHAUST AIR DUCT
SAD	SUPPLY AIR DUCT
VCD	VOLUME CONTROL DAMPER
CFM	CUBIC FEET PER MINUTE
FFU	FAN FILTER UNIT
AHU	AIR HANDLING UNIT
BOD	BOTTOM OF DUCT
BOS	BOTTOM OF SLAB
SAG	SUPPLY AIR GRILLE
FAL	FRESH AIR LOUVER
DL	DOOR LOUVER
RAG	RETURN AIR GRILLE
SD	SUPPLY AIR DIFFUSER
RD	RETURN AIR DIFFUSER
BOFC	BOTTOM OF FALSE CEILING
COF	CENTER OF FAN
PF	PROPELLER FAN
	ACOUSTIC INSULATION
	THERMAL INSULATION
	ALUMINUM DUCTS

NOTES:

1. ALL DIMENSIONS ARE IN mm AND LEVELS ARE IN METERS UNLESS OTHERWISE STATED.
2. ALL DUCT JOINTS SHOULD BE AIR TIGHT.
3. ALL DUCTS SHALL HAVE SUITABLE SUPPORTS AS PER SITE CONDITION.
4. ALL REFERENCE DRAWINGS SHALL BE READ IN CONJUNCTION WITH LATEST REVISIONS
5. SPLITTERS/VANES SHALL BE PROVIDED IN THE MAIN BRANCH & BENDS TO REDUCE THE PRESSURE LOSS.
6. ALL FIRE DAMPERS SHALL BE OF FUSIBLE LINK TYPE.
7. ALL AIR CONDITIONED DUCTS SHALL BE OF LAMINATED ALUMINIUM FOIL MAT WINDOW CLOSED
8. CLEANOUTS SHALL BE PROVIDED IN DUCTS OF 1000 WIDTH AND 100MM THICKNESS FOR SUPPLY DUCT
9. CLEANOUTS FOR CLOSED ROOMS SHALL BE LOCATED NEAREST TO THE SUBSTATION BOX AS PER THE ARCHITECT REQUIREMENTS.
10. ALL SUPPLY DIFFUSERS/GRILLES SHALL BE PROVIDED WITH COLLAR DAMPER.
10. COLOR OF GRILLES AND DIFFUSERS SHALL BE AS PER ARCHITECT SAMPLE APPROVALS.
11. ALL SUPPLY DUCTS SHALL BE TIGHTLY CONNECTED WITH SUPPLY DIFFUSER / GRILLES WITHOUT ANY GAP AT JOINING LOCATION .
12. AHU / UAHU AND EXHAUST FAN SIZE SHALL BE CONFIRMED AFTER RECEIPT OF FINAL VENDOR GA DRAWING.
13. FOR DOOR LOUVER / UNDERCUT REFER CORRESPONDING ARCHITECTURAL DRAWING.
14. FOR RC WALL CUTOUT REFER CORRESPONDING STRUCTURAL DRAWING.
15. DUCT INSIDE AHU ROOM IF PROVIDED WITH ACOUSTIC INSULATION IT MUST HAVE ALSO THERMAL INSULATION.
16. FRESH AIR DUCT INSIDE CONDITIONED AREA SHALL HAVE 19mm NITRILE RUBBER INSULATION.

REFERENCE DRAWING:
1. O19035-V-HP-02-V5-0012 SCI PHASE-2 FIFTH FLOOR - VENTILATION LAYOUT PART B
2. O19035-V-HP-02-PL-0012 SCI PHASE-2 FIFTH FLOOR - CHILLED WATER PIPING LAYOUT PART B.

EQUIPMENT TAG DESCRIPTION
02 - XX - YY - ZZ
- EQUIPMENT NUMBER
- TYPE OF EQUIPMENT
- FLOOR LEVEL
- BUILDING NUMBER

1 AHU ROOM WALL ACOUSTIC INSULATION WITH 25mm THICKNESS GLASS WOOL BOARD, LAMINATED ONESIDE FSK& OTHER SIDE BLOCK GLASS CLOTH,

REV.NO.	DESCRIPTION	DESIGNED		DRAWN		CHECKED		APPROVED	
1	UPDATED AS PER RCP CHANGES	HSM	25.03.2021	GA	25.03.2021	SMRSKR	25.03.2021	SKRMG	25.03.2021
0	ISSUED AS GOOD FOR CONSTRUCTION	HSM	14.09.2020	GA	14.09.2020	SMRSKR	14.09.2020	SKRMG	14.09.2020
A	ISSUED FOR APPROVAL	HSMRAS	09.06.2020	GA	09.06.2020	SMRSKR	09.06.2020	SKRMG	09.06.2020

REVISIONS

CHECKED BY	SIGN	DATE	CHECKED BY	SIGN	DATE	CHECKED BY	SIGN	DATE
ARCHITECTURE			HVAC			GIS		
CIVIL & STRUCTURAL			FPS			GEOTECH		
ELECTRICAL			PIPING			VHT		
ELV SYSTEM			PHE					

CLIENT :

ASSAM CANCER CARE FOUNDATION

L&T Construction
Buildings & Factories

PROJECT : Proposed Cancer Centre At 19 Locations in Assam For Assam Cancer Care Foundation & M/s. Tata Trusts
STATE CANCER INSTITUTE-GUWAHATI
(A Government of Assam and Tata Trusts Initiative).

CONSULTANT: Engineering Design and Research Center (EDRC), L&T Construction - Buildings & Factories.
CONCEPT ARCHITECT: Engineering Design and Research Center (EDRC), L&T Construction - Buildings & Factories.

SUPPLIER / CONTRACTOR : Larsen & Toubro Limited, Construction, Buildings & Factories

JOB No : O19035

	NAME	SIGN	DATE
DSGN	HSMRAS	HSMRAS	09.06.2020
DRWN	GA	GA	09.06.2020
CHKD	SMRSKR	SMRSKR	09.06.2020
APPD	SKRMG	SKRMG	09.06.2020

TITLE:

SCI PHASE-2

FIFTH FLOOR AIR CONDITIONING LAYOUT PART B

SECTION ELEVATION MARKING
DRAWING NUMBER

SCALE
As indicated

DRAWING No. O19035 - V - HP - 02 - AC - 0015

PROJECTION

SIZE A0 | REV 1

RELEASED FOR ☐ PRELIMINARY ☐ TENDER ☐ INFORMATION ☐ APPROVAL ☑ CONSTRUCTION