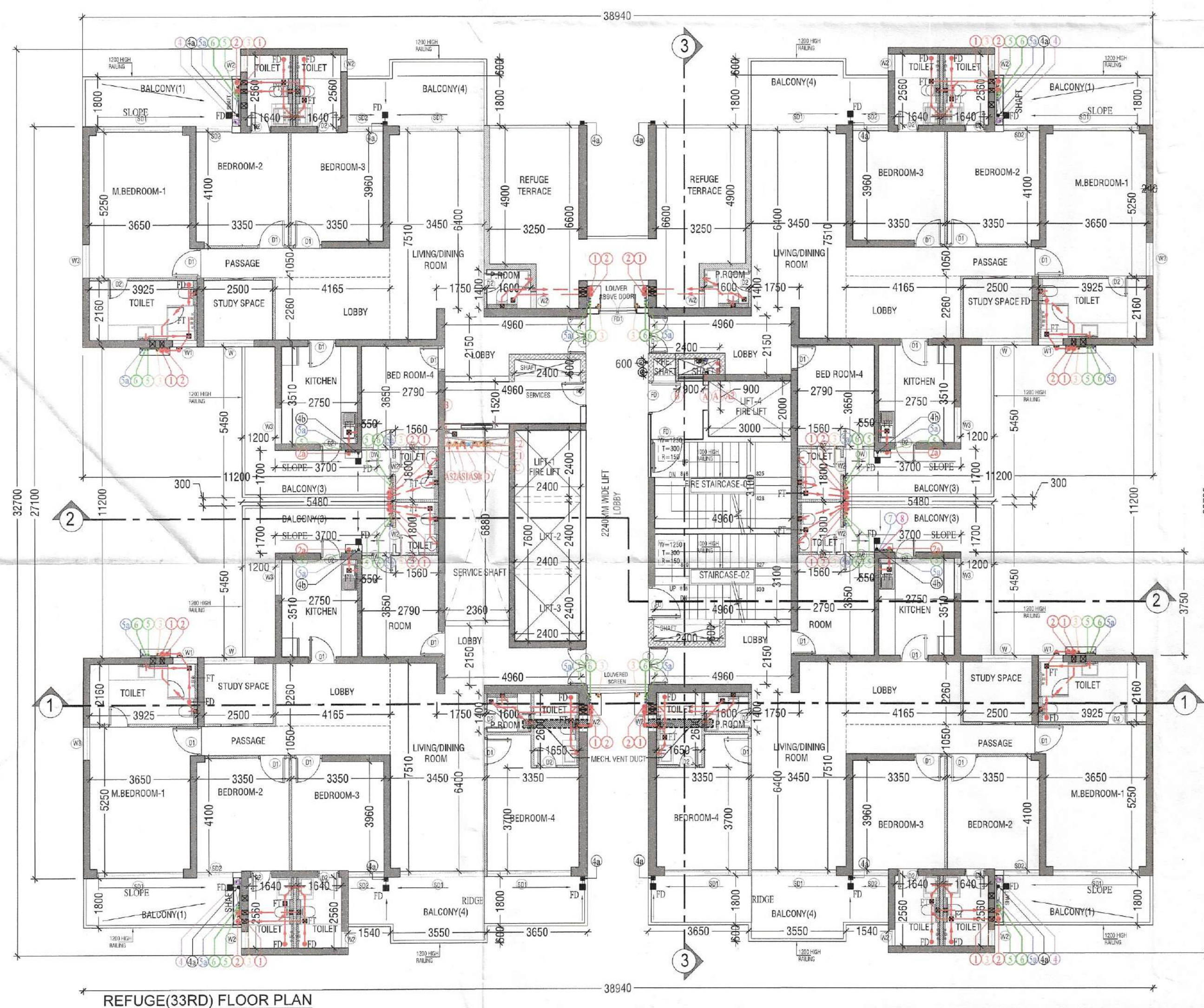
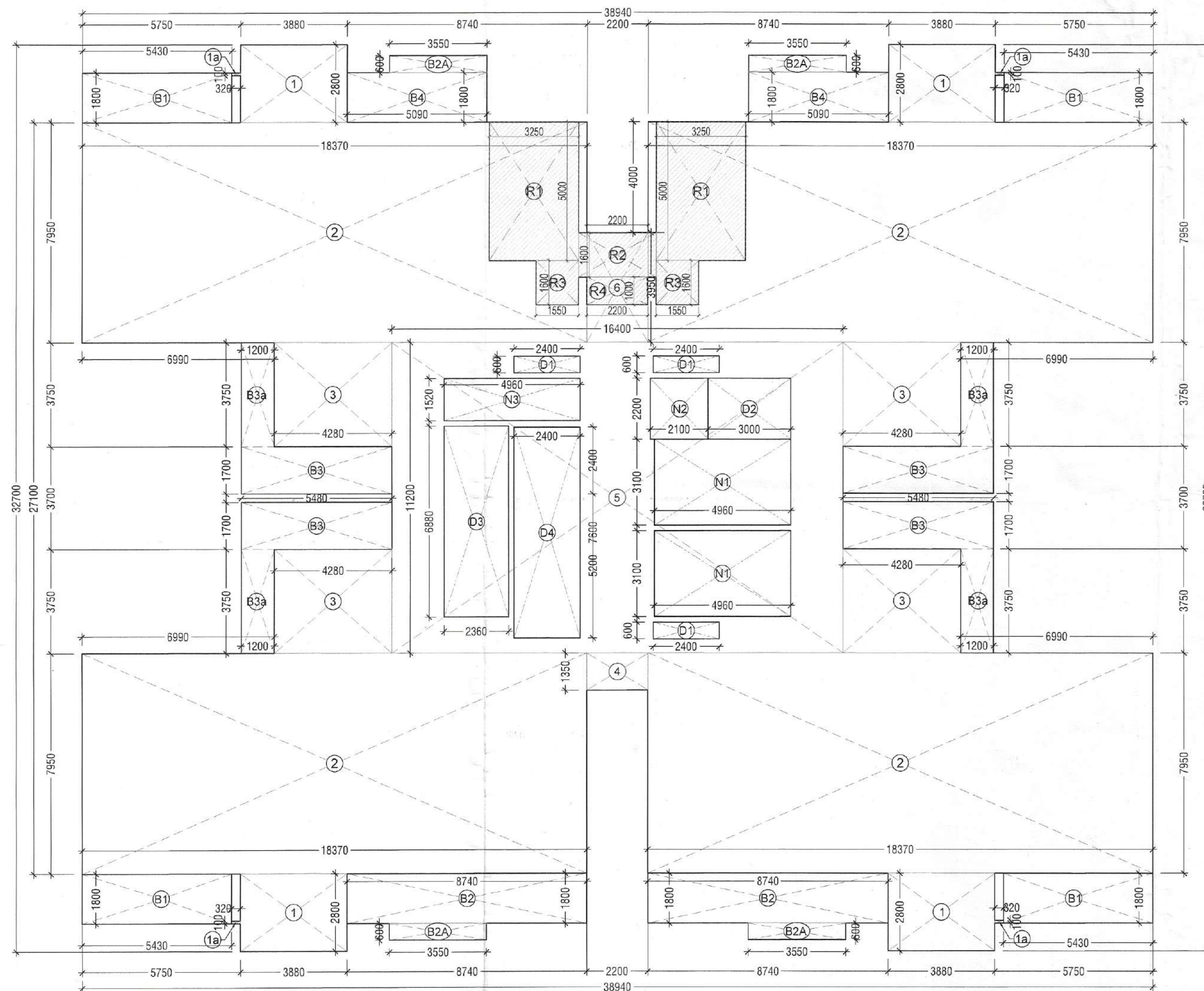
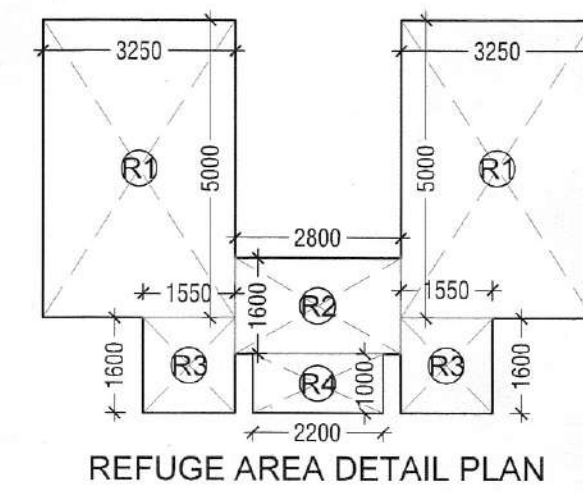


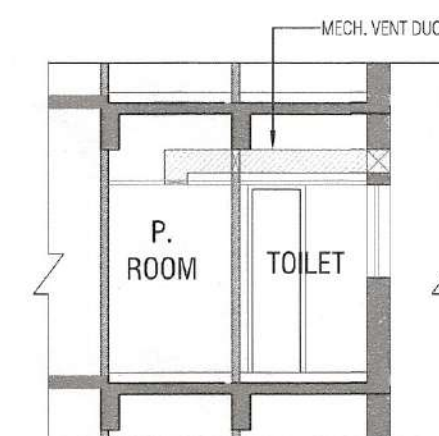
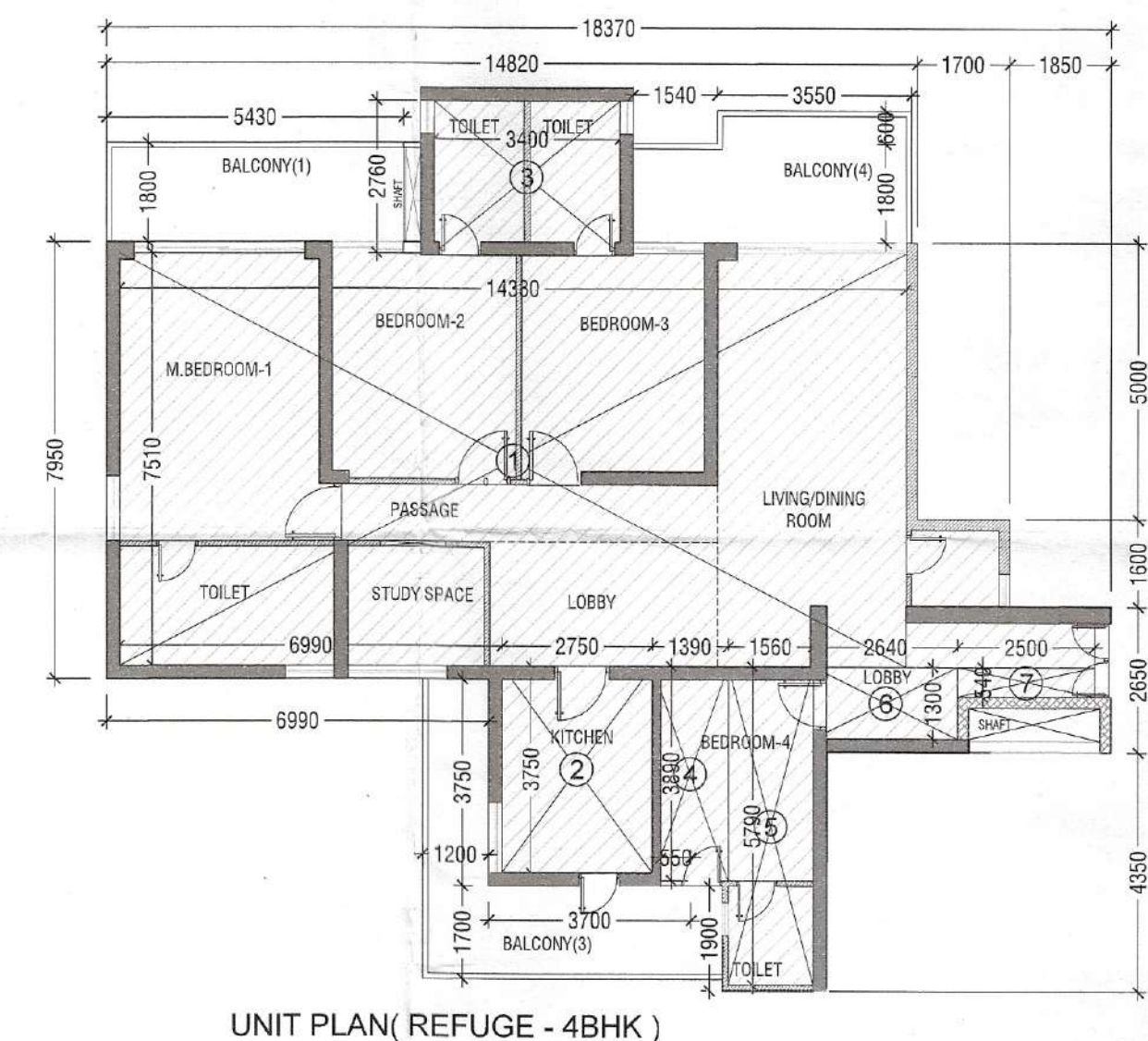


REFUGE FLOOR AREA CALCULATIONS (33RD)					
FLOOR PLATE AREA					
S. No.	COEFF.	WIDTH	LENGTH	NOS.	AREA IN SQMT
1	1	3.880	2.800	4	43.456
1a	1	0.320	0.100	4	0.128
2	1	18.370	7.950	4	584.166
3	1	4.280	3.750	4	64.200
4	1	2.200	1.350	1	2.970
5	1	16.400	11.200	1	183.680
6	1	2.200	3.950	1	8.690
TOTAL FLOOR PLATE AREA (X)					887.290
NON F.A.R. AREA					
D1	1	2.400	0.600	3	4.320
D2	1	3.000	2.200	1	6.600
D3	1	2.360	6.880	1	16.237
D4	1	2.400	7.600	1	18.240
N1	1	4.960	3.100	2	30.752
N2	1	2.100	2.200	1	4.620
N3	1	4.960	1.520	1	7.539
R1	1	3.200	5.000	2	32.000
R2	1	2.200	1.600	1	3.520
R3	1	1.550	1.600	2	4.960
R4	1	2.200	1.000	1	2.200
TOTAL NON F.A.R. AREA (Y)					130.988
BALCONY NON F.A.R. AREA					
B1	1	5.430	1.800	4	39.096
B2	1	8.740	1.800	2	31.464
B3	1	5.480	1.700	4	37.264
B3a	1	3.750	1.200	4	18.000
B4	1	5.090	1.800	2	18.324
TOTAL BALCONY NON F.A.R. AREA (BN)					144.148
BALCONY UNDER F.A.R. AREA					
B2A	1	3.550	0.600	4	8.520
TOTAL BALCONY NON F.A.R. AREA (BF)					8.520
TOTAL BALCONY AREA (BN+BF)					152.668
TOTAL F.A.R. = (X - Y) + BF					764.822
TOTAL NON F.A.R. = Y + BN					275.136



REFUGE AREA CALCULATIONS					
R1	1	3.250	5.000	2	32.500
R2	1	2.800	1.600	1	4.480
R3	1	1.550	1.600	2	4.960
R4	1	2.200	1.000	1	2.200
TOTAL REFUGE AREA (C1)					44.140

16th,24th,33rd Floor Refuge Area Calculations					
Floor Plate Area	x2	881.57	sqm		
Occupancy (Area/person)		1763.140	sqm		
Persons		141.051			
Refuge area required @0.3sqm/per.		42.315	sqm		
Area for wheel Chair @0.9/200per		0.900	sqm		
Total Refuge Area Required		43.215	sqm		
Refuge Area Provided		44.140	sqm		



BED ROOM/ROOM/ADJ. WITH KITCHEN VENTILATION OPENING CALCULATIONS					
S. No.	COEFF.	WIDTH	LENGTH	NOS.	AREA IN SQMT
1	1	2.750	3.650	1	10.164
REQUIRED ROOM VENTILATION OPENING					10.164
1	0.125	2.750	3.650	1	1.273
PROPOSED ROOM VENTILATION OPENING					1.273
1	1	2.550	2.400	1	1.330

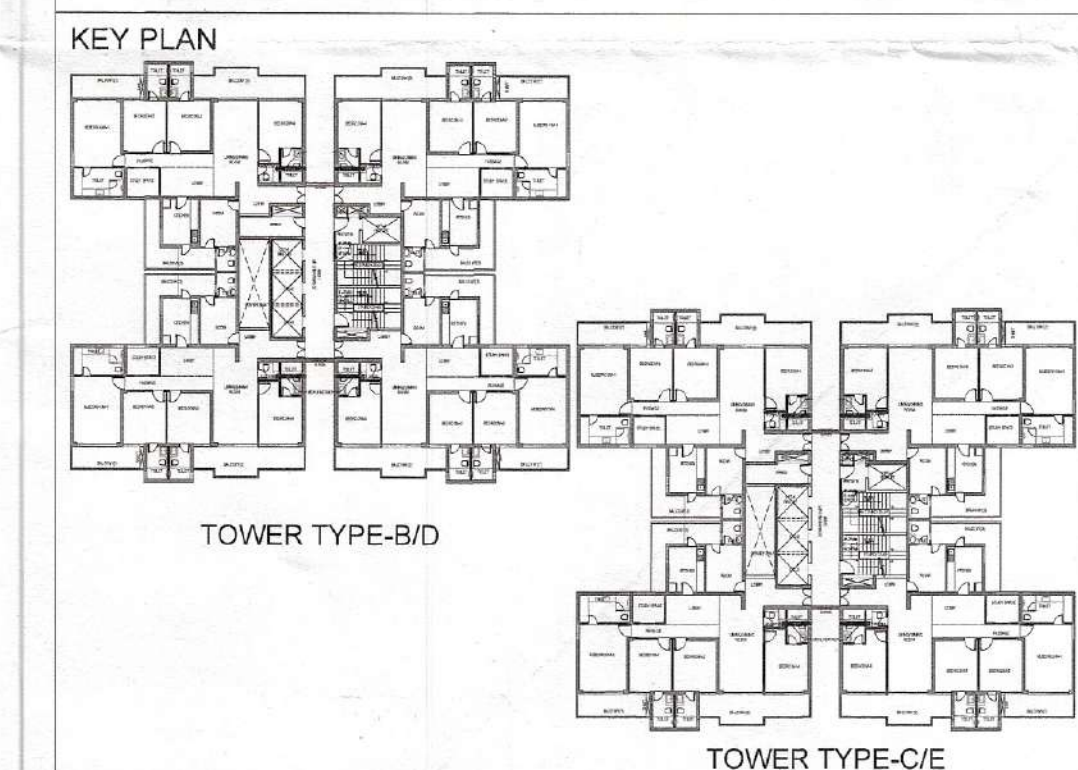
SCHEDULE OF OPENINGS					
S. No.	TYPE	WIDTH	HEIGHT	SL.	REMARK
1	FD	1200	2400	(0)	2 HOUR FIRE RATED
2	FD	1200	2400	(0)	2 HOUR FIRE RATED
3	D	1200	2400	(0)	1 HOUR FIRE RATED
4	D1	1200	2400	00	
5	D2	800	2400	00	
6	W	1825	1200	1200	
7	W	1200	1200	1200	
8	W2	600	1200	1200	
9	W3	1200	1200	1200	
10	W4	450	1200	1200	
11	SOT	3000	2400	00	
12	SOT	1200	2400	00	
13	DW	1100	2400	00	00

CARPET AREA DETAIL PLAN (REFUGE - 4BHK)

UNIT (REFUGE-4BHK) CARPET AREA CALCULATIONS					
S. No.	COEFF.	WIDTH	LENGTH	NOS.	AREA IN SQMT
1	1	14.380	7.510	1	107.694
2	1	2.750	3.750	1	10.313
3	1	3.400	2.740	1	9.316
4	1	1.390	3.890	1	5.407
5	1	1.560	5.790	1	9.032
6	1	2.640	1.300	1	3.432
7	1	2.800	0.540	1	1.560
8	1	1.750	0.810	1	1.418
9	1	1.700	2.510	1	4.267
TOTAL ADDITIONS					152.528
d1	1	0.300	0.120	1	0.036
d2	1	0.280	0.120	2	0.065
TOTAL DEDUCTIONS (D)					0.101
NET AREA = (A1-D1)					152.427

SANCTIONED TO BE READ WITH THIS OFFICE MEMO NO.: DATED: DRAWING TITLE: TOWER - B / D REFUGE FLOOR PLANS & AREA DETAILS (33TH) DRAWING NO.: S18

LEGEND:		FIRE LEGEND:	
DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
1000 UPVC SOIL & VENT PIPE	1	1000 FIRE HYDRANT PIPE LOW ZONE	A1
1000 UPVC WASTE & VENT PIPE	2	1000 FIRE HYDRANT PIPE MID ZONE	A2
1000 UPVC KITCHEN WASTE & VENT PIPE	2a	1000 FIRE HYDRANT PIPE HIGH ZONE	A3
1000 VENT PIPE (V.P.)	3	1000 FIRE SPRINKLER PIPE FOR LOW ZONE	C1
1000 UPVC RAIN WATER PIPE	4	1000 FIRE SPRINKLER PIPE FOR MID ZONE	C2
1000 UPVC RAIN WATER PIPE	4a	1000 FIRE SPRINKLER PIPE FOR HIGH ZONE	C3
1000 UPVC RAIN WATER PIPE	4b	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F1
1000 UPVC RAIN WATER PIPE FOR TERRACE	4c	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F2
DOMESTIC WATER SUPPLY DN. TAKE	5	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F3
FLUSHING WATER SUPPLY DN. TAKE	6	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F4
DOMESTIC WATER SUPPLY RISER	7	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F5
FLUSHING WATER SUPPLY RISER	8	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F6
DOMESTIC HYDRO-PNEUMATIC WATER SUPPLY PIPE DOWN TAKE UPPER 3 FLOORS	5a	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F7
DOMESTIC WATER SUPPLY RISER	5b	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F8
FLUSHING WATER SUPPLY RISER	6b	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F9
PIPE DROP	10	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F10
FLOOR DRAIN (FD)	11	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F11
FLOOR TRAP (FT)	12	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F12
ALUMINA 40x40x10mm WITH SLOTTED GRATING	13	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F13
BALCONY DRAIN PIPE	14	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F14
DOMESTIC WATER SUPPLY (DWS)	15	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F15
HYDRO-PNEUMATIC DOMESTIC WATER (HDMW)	16	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F16
FLUSHING WATER SUPPLY (FWS)	17	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F17
FLUSHING WATER SUPPLY RISER	18	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F18
DOMESTIC WATER SUPPLY RISER	19	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F19
1000 SOIL PIPE	20	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F20
1000 WASTE PIPE	21	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F21
1000 VENT PIPE	22	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F22
RAIN WATER PIPE	23	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F23
HEALTH FAUCET	24	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F24
ACCESS DOOR (AD)	25	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F25
BALL VALVE / BUTTERFLY VALVE	26	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F26
NON RETURN VALVE	27	1000 FIRE HYDRANT PIPE (BASEMENT FLOOR)	F27



PRINCIPAL ARCHITECT: ACPL Design Ltd. ISO 9001:2015 Architecture Management Planning

PROJECT: PROPOSED RESIDENTIAL GROUP HOUSING COLONY UNDER TOD SCHEME AREA MEASURING 9.18875 ACRE LAND AT SECTOR 70, GURGAON (HARYANA) UNDER LICENCE NO. 21 OF 2024 DATED 07.02.2024 BEING DEVELOPED BY M/S TULIP INFRATECH PVT. LTD.

For TULIP INFRATECH PVT. LTD. Authorised Signatory OWNER'S/AUTHORIZED SIGN. ARCHITECT'S SIGN.

DRAWING TITLE: TOWER - B / D REFUGE FLOOR PLANS & AREA DETAILS (33TH) DRAWING NO. S18 SCALE: 1:125