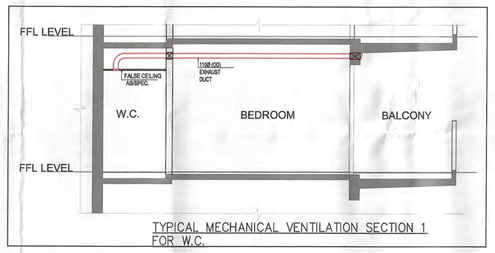
LEGEND:-

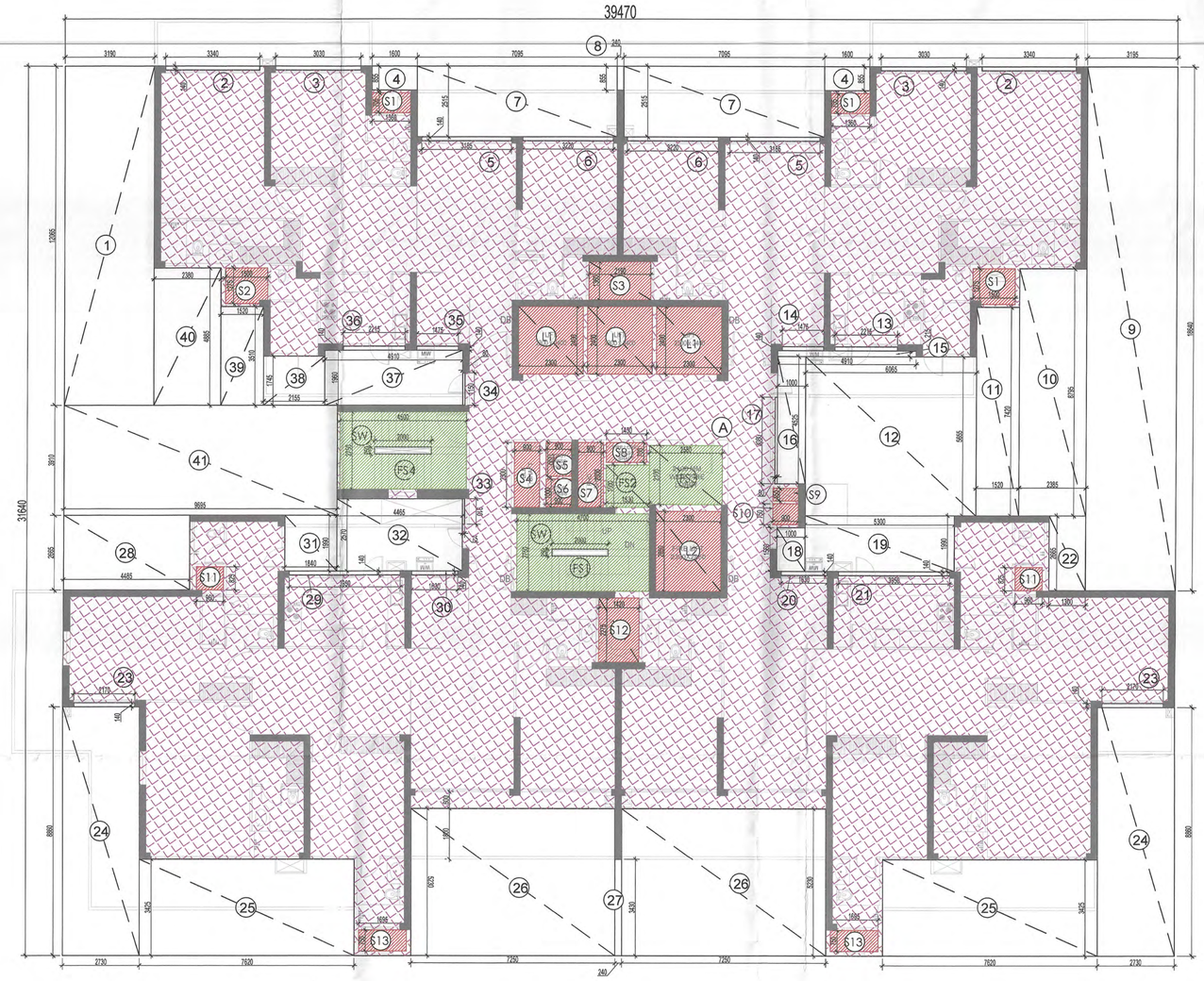
- AREA FAR
- AREA NON FAR
- SERVICE SHAFT (CUTOUT)
- 2 HRS. FIRE RATED FULL HEIGHT WALL



TYPICAL MECHANICAL VENTILATION SECTION 1 FOR W.C.

TYPICAL MECHANICAL VENTIALTION CALCULATION FOR W.C.

S.No.	Location	Area (Sq.Ft.)	Height (Ft.)	Volume (Cu.Ft.)	Design CFM	SELECTED EXHAUST FAN	FAN SIZE LXBXH (mm)	EXHAUST DUCT SIZE DIAMETER (mm)
1	TYPICAL MECHANICAL VENTIALTION FOR W.C.							
1.1	W.C.	43	9.2	395	79	1# 100 cfm cassette Inline fan	270X270X171	110 (OD)



FAR AREA AT TYPICAL FLOOR LVL -BLOCK - K
(All Distances are in Meter & Areas in Sqm)

ADDITIONS (A)

ITEM	NO.S	WIDTH (MTR.)	LENGTH (MTR.)	AREA(SQ.MT.) = NO.X LENGTH X WIDTH
A	1	39.470	31.640	1248.831
	TOTAL(A) =			1248.831

DEDUCTION (B)

ITEM	NO.S	WIDTH (MTR.)	LENGTH (MTR.)	AREA(SQ.MT.) = NO.X LENGTH X WIDTH
1	1	3.190	12.065	38.487
2	2	3.350	0.140	0.938
3	2	3.030	0.140	0.848
4	2	1.600	0.855	2.736
5	2	3.185	0.140	0.892
6	2	3.220	0.140	0.902
7	2	7.095	2.515	35.688
8	1	0.200	0.855	0.171
9	1	3.195	18.640	59.555
10	1	2.385	8.795	20.976
11	1	1.520	7.420	11.278
12	1	6.065	5.655	34.298
13	1	2.215	0.140	0.310
14	1	1.475	0.140	0.207
15	1	4.910	0.215	1.056
16	1	1.000	4.525	4.525
17	1	0.080	3.080	0.246
18	1	1.000	1.560	1.560
19	1	5.300	1.990	10.547
20	1	1.630	0.140	0.228
21	1	3.950	0.140	0.553
22	1	1.300	2.665	3.465
23	2	2.170	0.140	0.608
24	2	2.730	8.860	48.376
25	2	7.620	3.425	52.197
26	2	7.250	5.230	75.835
27	1	0.240	3.430	0.823
28	1	4.485	2.665	11.953
29	1	3.950	0.140	0.553
30	1	1.630	0.140	0.228
31	1	1.840	1.990	3.662
32	1	4.465	2.570	11.475
33	1	0.075	0.910	0.068
34	1	1.080	1.150	0.092
35	1	1.475	0.140	0.207
36	1	2.215	0.140	0.310
37	1	4.910	1.960	9.624
38	1	2.155	1.745	3.760
39	1	1.520	3.510	5.335
40	1	2.380	4.885	11.626
41	1	9.695	3.910	37.907
	TOTAL			504.104

SERVICE SHAFT & LIFT (C)

ITEM	NO.S	WIDTH (MTR.)	LENGTH (MTR.)	AREA(SQ.MT.) = NO.X LENGTH X WIDTH
L1	3	2.300	2.400	16.560
L2	1	2.300	2.850	6.555
S1	2	1.360	0.705	1.918
S2	2	1.500	1.275	3.825
S3	1	2.190	1.360	2.978
S4	1	0.900	2.300	2.070
S5	1	0.900	1.200	1.080
S6	1	0.900	1.000	0.900
S7	1	0.900	2.300	2.070
S8	1	1.430	0.700	1.001
S9	1	0.900	0.450	0.405
S10	1	0.900	0.750	0.675
S11	2	0.960	0.825	1.584
S12	1	1.420	2.275	3.231
S13	2	1.695	0.750	2.543
TOTAL SERVICES AREA				47.394

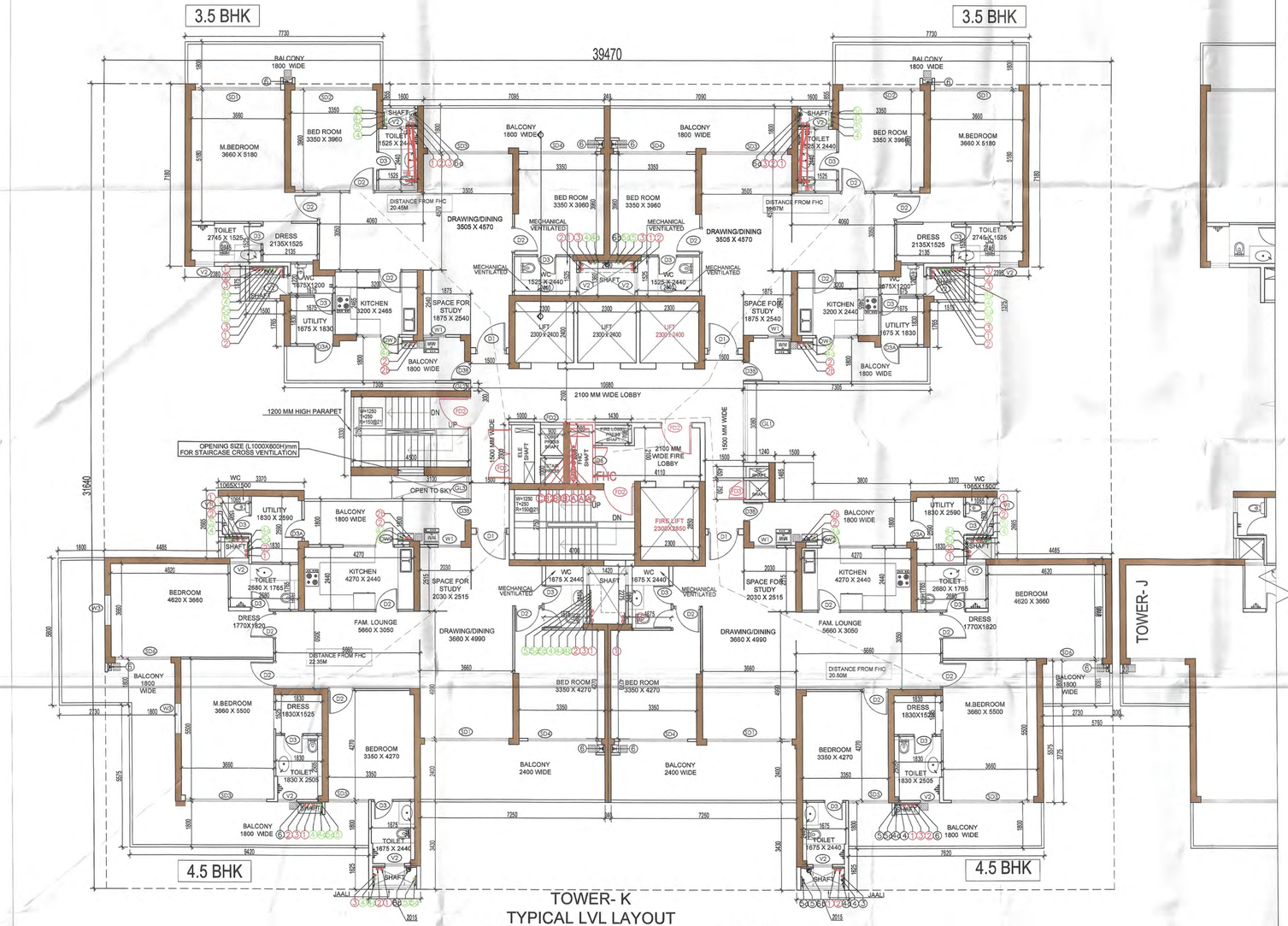
NON FAR/ STAIRCASE (D)

ITEM	NO.S	WIDTH (MTR.)	LENGTH (MTR.)	AREA(SQ.MT.) = NO.X LENGTH X WIDTH
FS1	1	4.700	2.750	12.925
FS2	1	1.530	1.500	2.295
FS3	1	2.580	2.100	5.418
FS4	1	4.500	2.750	12.375
TOTAL NON FAR AREA				33.013

DEDUCTION (E)

ITEM	NO.S	WIDTH (MTR.)	LENGTH (MTR.)	AREA(SQ.MT.) = NO.X LENGTH X WIDTH
SW1	2	2.000	0.250	1.000
TOTAL=				1.000
TOTAL NON FAR AREA (F) = (D-E)				
33.013	-	1.000	=	32.013

TOTAL FAR AREA AT TYPICAL LVL. = ADDITION(A) - DEDUCTION (B+C+D)=				
1248.831	-	504.104	-	47.394
-	33.013	=	664.320	SQ.MT



STP (HQ) — S.T.P. (HQ) Member Secretary B.P.A.C. — S.T.P.(G) Member B.P.A.C. — ATP(HQ)

Consultant Architect

Checked and found ok for Public Health (Internal) Service only subject to comments in forwarding letter No. 25169 5/1/23

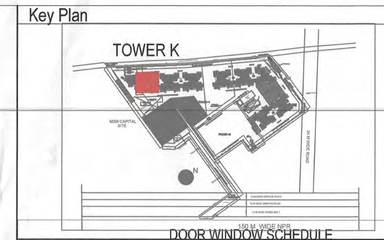
Superintending Engineer (HQ) for Chief Engineer-I HSVP, Panchkula

DTP (T) MEMBER BPAC

SANCTIONED TO BE READ WITH THIS OFFICE MEMO NO. 25314 DATED 24/12/2024

Rajeev Dutt JD(HQ)

Key Plan



DOOR WINDOW SCHEDULE

TYPE	WIDTH	HEIGHT	SILL LVL	LINTEL LVL	REMARKS
D1	1200	2400	± 00	2400	ENTRANCE (ONE HOUR FIRE RATED DOOR)
D1A	1200	2400	± 00	2400	ENTRANCE REFUGE FLOOR (TWO HOUR FIRE RATED DOOR)
D2	900	2250	± 00	2250	BEDROOMS/ KITCHEN ENTRY
D3	750	2250	± 00	2250	TOILETS
D3A	750	2500	± 00	2500	UTILITY BALCONY DOOR
D3B	750	2400	± 00	2400	UTILITY ENTRANCE (ONE HOUR FIRE RATED DOOR)
D3C	750	2400	± 00	2400	UTILITY ENTRANCE REFUGE LVL (ONE HOUR FIRE RATED DOOR)
D4	1200	2400	± 00	2100	COORIDOR STAIRCASE DOOR
D5	1250	2400	± 00	2400	STILT LOBBY ENTRANCE
D6	1200	2000	+100	2100	FHC
SD1	3340	2400	± 00	2500	DRAWING/M.BEDROOM
SD2	3030	2400	± 00	2500	BEDROOM
SD3	3185	2400	± 00	2500	DRAWING ROOM
SD3A	4400	2400	± 00	2500	BEDROOM
SD3B	3195	2400	± 00	2500	BEDROOM
SD3C	2770	2400	± 00	2500	FAMILY LOUNGE
SD4	2650	2400	± 00	2500	BEDROOM
SD4A	3000	2400	± 00	2500	DRAWING ROOM
SD5	1575	2400	± 00	2500	BEDROOM
SD6	2170	2400	± 00	2500	BEDROOM
DW1	1675	1450	+1050	2500	KITCHEN
DW2	2000	1450	+1050	2500	KITCHEN
V1	600	1450	+1050	2500	TOILETS
V2	750	1450	+1050	2500	TOILETS
W1	900	1600	900	2500	SPACE FOR STUDY
W2	800	1600	900	2500	UTILITY
FD1	2000	2000	+100	2100	FIRE RATED DOOR
FD2	1250	2400	± 00	2400	FIRE RATED DOOR
FD3	750	2000	100	2100	FIRE RATED DOOR
FD4	1000	2000	100	2100	FIRE RATED DOOR
GL1	1200	2400	100	2500	CORRIDOOR
GL2	300	2400	100	2500	CORRIDOOR
GL3	910	2400	±0.0	2500	SHOP FRONT DOOR
GL4	2000	2400	±0.0	2400	ENTRANCE LOBBY DOOR

LEGEND FOR PLUMBING:-

1	100Ø SOIL & VENT PIPE
1a	150Ø SOIL & VENT PIPE
2	100Ø WASTE & VENT PIPE
2a	150Ø WASTE & VENT PIPE
2b	75Ø WASTE PIPE FOR UTILITY BALCONY
3	75Ø ANTI-SYPHONAGE PIPE
4	DOMESTIC WATER SUPPLY PIPE
4a	DOMESTIC WATER SUPPLY PIPE FOR TOP 5 FLOOR FROM BOOSTER LINE
5	FLUSHING WATER SUPPLY PIPE FOR LOW RISE
5a	FLUSHING WATER SUPPLY PIPE FOR HIGH RISE
6	75Ø RAIN WATER PIPE FOR BALCONY
6a	100Ø RAIN WATER PIPE
6b	150Ø RAIN WATER PIPE
6c	200Ø RAIN WATER PIPE
7	DOMESTIC WATER TANK FILLING PIPE
8	FLUSHING WATER TANK FILLING PIPE
	110Ø PVC PIPE
	EXHAUST AIR GRILLE

FIRE FIGHTING LEGEND:-

(A)	150Ø FIRE PIPE FOR LOW RISE
(A1)	150Ø FIRE PIPE FOR MID RISE
(A2)	150Ø FIRE PIPE FOR HIGH RISE
(S)	150Ø SPRINKLER PIPE FOR LOW RISE
(S1)	150Ø SPRINKLER PIPE FOR MID RISE
(S2)	150Ø SPRINKLER PIPE FOR HIGH RISE
	80Ø SPRINKLER DRAIN PIPE

Owner:

Union Buildmart Pvt.Ldt, Vibrant infratech Pvt. Ltd, Targe Buildcon Pvt in Collaboration with Union Buildmart Pvt. Ltd

Architect:

GIAN P. MATHUR AND ASSOCIATES (P) LTD.
C - 55, East Of Kailash, New Delhi-110065
T : 011-46599599 / F 011-46599512
E : info@gpmindia.com / W : www.gpmindia.com

Project Title:
GROUP HOUSING COLONY (MIX LAND USE RESIDENTIAL 99.5% AND 0.5% COMMERCIAL) ON THE AREA MEASURING 10.225 ACRES **(LICENCE NO. ~~229 OF 2023 DATED 02-11-2023) IN~~** SECTOR -113, GURUGRAM

Status: SUBMISSION DRAWING

Sheet Title:
RESIDENTIAL TOWER- K
TYPICAL FLOOR LVL LAYOUT & AREA DETAILS

Owner's Sign

Union Buildmart Pvt. Ltd. Authorised Signatory

Architect's Sign

GIAN P. MATHUR ARCHITECT B. Arch., M.C.P., F.I.A. CA No. 4047/5769

SCALE: 1: 100

DATE:

DWG. No.
SD/AR/M3M-113A/T-K-104