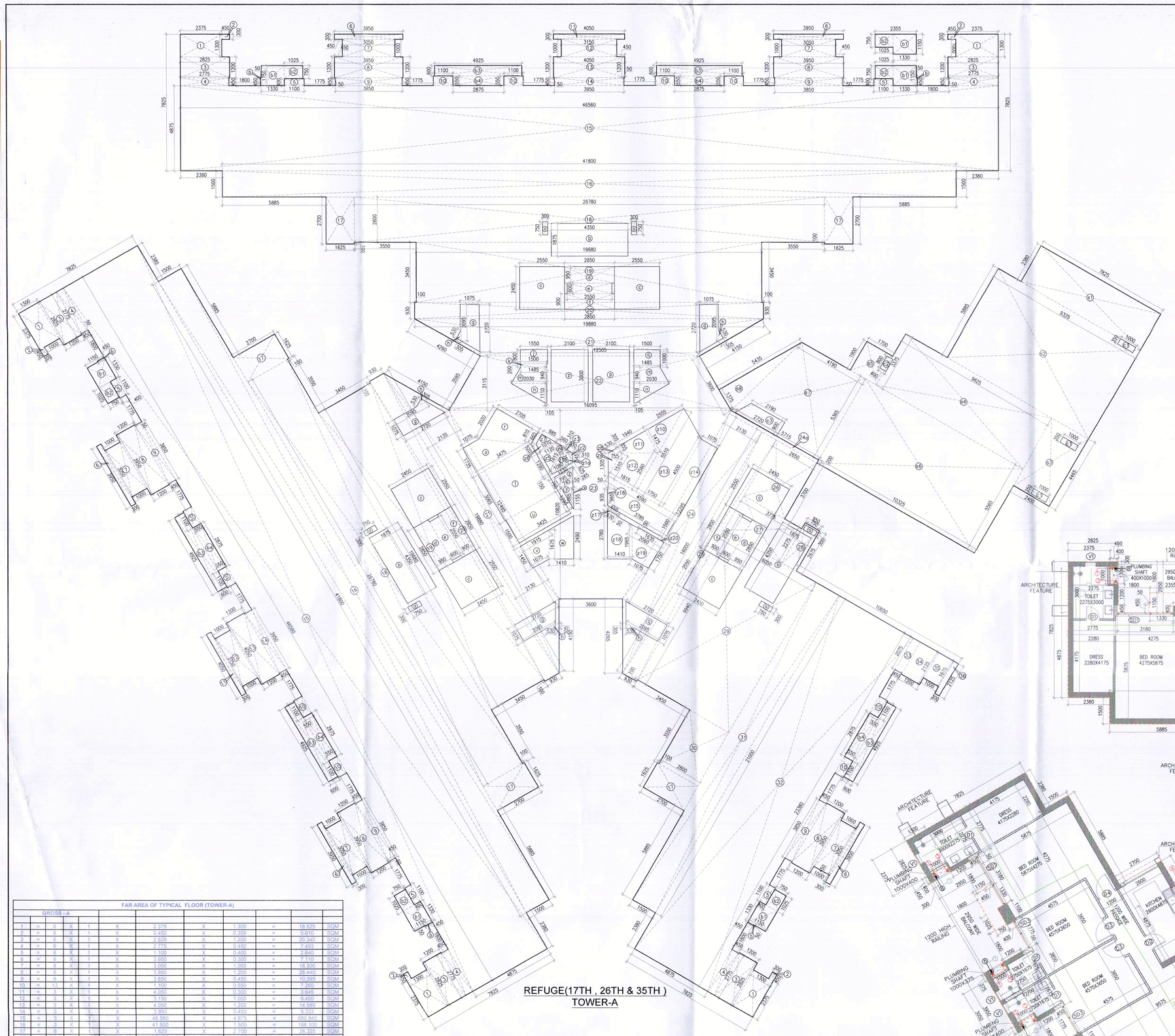
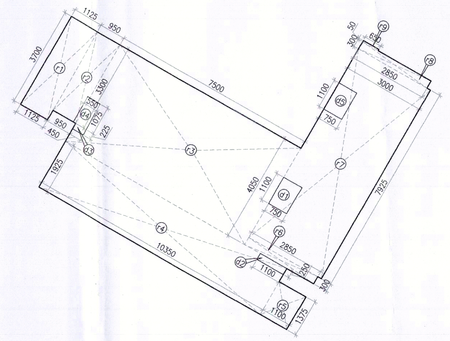


REFUGE(17TH , 26TH & 35TH)
TOWER-A



REFUGE AREA CALCULATION OF 17TH , 26TH & 35TH FLOOR
(TOWER-A)

REFUGE AREA CALCULATION - 17TH ,26TH & 35TH REFUGEFLOOR (TOWER-A)

GROSS – A									
r1	=	1	X	1.125	X	3.700	=	4.163	SQM
r2	=	1	X	0.950	X	3.300	=	3.135	SQM
r3	=	1	X	7.900	X	4.050	=	30.375	SQM
r4	=	1	X	1.525	X	9.250	=	17.806	SQM
r5	=	1	X	1.100	X	1.375	=	1.813	SQM
r6	=	1	X	2.850	X	5.300	=	0.855	SQM
r7	=	1	X	7.925	X	3.000	=	23.775	SQM
r8	=	1	X	0.300	X	2.850	=	0.855	SQM
r9	=	1	X	0.550	X	0.650	=	0.033	SQM
						TOTAL	=	82.509	SQM
GROSS – B									
r1	=	1	X	0.750	X	1.100	=	0.825	SQM
r2	=	1	X	0.250	X	1.100	=	0.275	SQM
r3	=	1	X	0.450	X	0.225	=	0.101	SQM
r4	=	1	X	0.500	X	1.075	=	0.591	SQM
r5	=	1	X	0.750	X	1.100	=	0.825	SQM
						TOTAL	=	2.618	SQM
TOTAL REFUGE AREA	=	GROSS – A	-	GROSS – B					
	=	82.509		2.618	SQM				
TOTAL	=	79.891	SQM						
GROSS AREA OF REFUGE 17TH,26TH,35TH FLOOR (TOWER - A)	=	1626.225	SQM						
GROSS AREA OF TYPICAL FLOOR 18TH,27TH,36TH (TOWER - A)	=	1647.004	SQM						
TOTAL	=	3273.229	SQM						
REFUGE AREA REQUIRED	=	(3273.229X0.3)/12.5	+	0.99(ADDITIONAL SPACE TO ACCOMMODATE WHEEL CHAIR SPACE @0.9 SQM PER 200 POPULATION)					
	=	78.557	+	0.9					
	=	79.457	SQM						
REFUGE AREA PROVIDED	=	79.891	SQM						

REFUGE TYPICAL FLOOR PLAN
17th,26th & 35th FLOOR PLAN
(TOWER-A)

(TOWER-A)		
TYPICAL FLOOR	FLOOR LEVEL	UNITS
17th FLOOR	+61500	5
26th FLOOR	+92000	5
35th FLOOR	+122800	5
	TOTAL UNITS =	15

FAR AREA OF TYPICAL FLOOR (TOWER-A)

GROSS – A									
r1	=	8	X	1	X	2.375	X	1.300	=	18.525	SQM
r2	=	8	X	1	X	2.450	X	1.300	=	19.110	SQM
r3	=	8	X	1	X	2.825	X	1.300	=	29.342	SQM
r4	=	8	X	1	X	2.775	X	1.300	=	28.899	SQM
r5	=	8	X	1	X	1.100	X	0.400	=	3.840	SQM
r6	=	8	X	1	X	2.950	X	1.000	=	23.600	SQM
r7	=	8	X	1	X	3.050	X	1.000	=	24.400	SQM
r8	=	8	X	1	X	3.850	X	0.450	=	13.860	SQM
r9	=	8	X	1	X	2.950	X	0.800	=	18.880	SQM
r10	=	8	X	1	X	4.050	X	0.300	=	9.840	SQM
r11	=	8	X	1	X	3.400	X	0.450	=	12.240	SQM
r12	=	8	X	1	X	4.050	X	1.200	=	38.880	SQM
r13	=	8	X	1	X	1.200	X	0.200	=	1.920	SQM
r14	=	8	X	1	X	46.560	X	4.875	=	1814.640	SQM
r15	=	8	X	1	X	41.800	X	4.875	=	1629.150	SQM
r16	=	8	X	1	X	1.625	X	3.700	=	24.235	SQM
r17	=	8	X	1	X	26.780	X	4.875	=	1044.882	SQM
r18	=	8	X	1	X	19.880	X	0.450	=	214.704	SQM
r19	=	8	X	1	X	19.880	X	1.700	=	45.492	SQM
r20	=	8	X	0.5	X	(19.880+12.925)	X	1.125	=	183.713	SQM
r21	=	8	X	0.5	X	(19.880+11.000)	X	1.125	=	178.848	SQM
r22	=	8	X	0.5	X	(19.880+3.600)	X	1.125	=	90.180	SQM
r23	=	8	X	1	X	1.700	X	0.450	=	6.120	SQM
r24	=	8	X	1	X	1.050	X	0.450	=	3.780	SQM
r25	=	8	X	1	X	1.150	X	0.450	=	4.140	SQM
r26	=	8	X	1	X	4.050	X	0.450	=	14.580	SQM
r27	=	8	X	1	X	2.875	X	0.700	=	16.100	SQM
								TOTAL	=	5913.870	SQM
GROSS – C									
r1	=	8	X	1	X	6.300	X	0.750	=	3.150	SQM
r2	=	8	X	1	X	4.350	X	0.850	=	29.469	SQM
r3	=	8	X	1	X	2.550	X	0.450	=	57.485	SQM
r4	=	8	X	1	X	2.550	X	0.600	=	8.123	SQM
r5	=	8	X	1	X	2.550	X	0.600	=	7.650	SQM
r6	=	8	X	0.5	X	(2.050+2.750)	X	1.075	=	12.525	SQM
r7	=	8	X	0.5	X	6.300	X	0.750	=	12.600	SQM
r8	=	8	X	0.5	X	1.550	X	0.600	=	3.240	SQM
r9	=	8	X	0.5	X	4.350	X	0.600	=	9.300	SQM
r10	=	8	X	0.5	X	(1.488+2.030)	X	0.900	=	7.301	SQM
r11	=	8	X	0.5	X	(0.169+2.030)	X	1.125	=	9.315	SQM
r12	=	8	X	0.5	X	2.100	X	1.000	=	12.600	SQM
r13	=	8	X	0.5	X	1.500	X	0.800	=	4.800	SQM
r14	=	8	X	0.5	X	(2.020+2.830)	X	0.700	=	6.678	SQM
r15	=	8	X	0.5	X	(1.070+1.625)	X	1.125	=	9.847	SQM
r16	=	8	X	1	X	5.475	X	0.950	=	10.661	SQM
r17	=	8	X	0.5	X	(1.625+1.625)	X	1.125	=	8.100	SQM
r18	=	8	X	0.5	X	(1.915+1.075)	X	1.450	=	8.588	SQM
r19	=	8	X	0.5	X	(1.070+2.400)	X	1.410	=	8.856	SQM
r20	=	8	X	0.5	X	(1.065+1.195)	X	0.950	=	5.006	SQM
r21	=	8	X	0.5	X	6.975	X	0.750	=	15.694	SQM
r22	=	8	X	0.5	X	(1.230+0.750)	X	0.750	=	1.170	SQM
r23	=	8	X	0.5	X	(0.150+0.750)	X	0.600	=	1.620	SQM
r24	=	8	X	0.5	X	(0.620+0.750)	X	0.250	=	0.188	SQM
r25	=	8	X	0.5	X	0.550	X	0.600	=	1.320	SQM
r26	=	8	X	0.5	X	5.700	X	0.550	=	8.588	SQM
r27	=	8	X	0.5	X	1.150	X	0.500	=	2.415	SQM
r28	=	8	X	0.5	X	1.700	X	1.700	=	9.826	SQM
r29	=	8	X	0.5	X	5.950	X	0.700	=	9.478	SQM
r30	=	8	X	0.5	X	5.950	X	0.650	=	8.806	SQM
r31	=	8	X	0.5	X	5.700	X	1.300	=	18.564	SQM
r32	=	8	X	0.5	X	5.700	X	1.300	=	18.564	SQM
r33	=	8	X	0.5	X	(1.475+0.350)	X	1.900	=	6.460	SQM
r34	=	8	X	0.5	X	(1.515+0.800)	X	1.150	=	7.705	SQM
r35	=	8	X	0.5	X	(0.515+0.800)	X	1.750	=	8.758	SQM
r36	=	8	X	0.5	X	5.700	X	1.475	=	16.872	SQM
r37	=	8	X	0.5	X	(1.150+0.350)	X	1.500	=	6.000	SQM
r38	=	8	X	0.5	X	(0.850+0.950)	X	0.900	=	6.120	SQM
r39	=	8	X	0.5	X	(0.850+0.850)	X	0.900	=	6.120	SQM
r40	=	8	X	0.5	X	(2.750+1.950)	X	1.410	=	9.306	SQM
r41	=	8	X	0.5	X	(2.050+1.950)	X	1.410	=	8.742	SQM
r42	=	8	X	0.5	X	1.830	X	0.500	=	3.660	SQM
								TOTAL	=	367.634	SQM

TOTAL FAR AREA OF TYPICAL FLOOR (TOWER-A)	=	GROSS – A	-	GROSS – B	
	=	1813.672		187.634	
	=	TOTAL	+	1626.037	SQM

GROSS – E									
r1	=	1	X	0.5	X	(2.025+0.875)	X	3.705	=	3.629	SQM
r2	=	1	X	0.5	X	(1.075+3.425)	X	4.725	=	3.947	SQM
r3	=	1	X	0.5	X	3.425	X	3.565	=	12.551	SQM
r4	=	1	X	0.5	X	3.425	X	3.565	=	6.136	SQM
r5	=	1	X	0.5	X	0.650	X	0.905	=	0.681	SQM
r6	=	1	X	0.5	X	0.700	X	1.205	=	0.883	SQM
r7	=	1	X	0.5	X	2.555	X	1.475	=	1.884	SQM
r8	=	1	X	0.5	X	(1.475+0.350)	X	1.900	=	2.763	SQM
r9	=	1	X	0.5	X	(1.515+2.585)	X	1.815	=	3.864	SQM
r10	=	1	X	0.5	X	(1.515+4.585)	X	1.760	=	5.198	SQM
r11	=	1	X	0.5	X	5.475	X	4.500	=	6.838	SQM
r12	=	1	X	0.5	X	(2.550+3.750)	X	1.500	=	6.281	SQM
r13	=	1	X	0.5	X	(2.850+2.985)	X	0.950	=	3.648	SQM
								TOTAL	=	61.414	SQM

TOTAL BUILT UP AREA OF TYPICAL FLOOR (TOWER-A)	=	FAR AREA	+	GROSS – E	
	=	1626.037	+	51.414	
	=	TOTAL	=	1677.452	SQM

SCHEDULE OF OPENINGS ON FLOOR

S.No.	TYPE	WIDTH	HEIGHT	SILL HT	PER FLOOR	FIRE RATING	MATERIAL
1.	DW	2875	5000	–		–	ALUMINIUM GLASS
2.	DW1	19280	5000	–		–	ALUMINIUM GLASS
3.	D1	900	2400	–		–	WOODEN
4.	D2	1050	2400	–		–	WOODEN
5.	D3	1200	2400	–		–	WOODEN
6.	D4	1250	2400	–		–	WOODEN
7.	D5	1500	2400	–		–	WOODEN
8.	D6	1800	2400	–		–	WOODEN
9.	D7	2000	2400	–		–	WOODEN
10.	GL	1500	4800	–		–	ALUMINUM GLASS
11.	GL1	1550	4800	–		–	ALUMINUM GLASS
12.	GL2	1725	5000	–		–	ALUMINUM GLASS
13.	GL3	1775	5000	–		–	ALUMINUM GLASS
14.	GL4	2400	5000	–		–	ALUMINUM GLASS
15.	GL5	2875	5700	–		–	ALUMINUM GLASS
16.	GL6	3050	5700	–		–	ALUMINUM GLASS
17.	GL7	4000	5000	–		–	ALUMINUM GLASS
18.	GL8	4680	5700	–		–	ALUMINUM GLASS
19.	GL9	5655	5000	–		–	ALUMINUM GLASS
20.	GL10	5875	5700	–		–	ALUMINUM GLASS
21.	W1	750	2400	900		–	–
1.	FD	1200	2400	–		2 HRS	AS SPECIFIED
2.	FD1	1200	2400	–		2 HRS	AS SPECIFIED FIRE TOWER
3.	FD2	1250	2100	–		2 HRS	AS SPECIFIED FIRE TOWER
4.	FD3	1200	2100	–		2 HRS	AS SPECIFIED FIRE TOWER
5.	FD4	1500	2400	–		2 HRS	AS SPECIFIED FIRE TOWER

LEGEND :-

	1	160Ø uPVC SOIL /V.T. PIPE
	2	110Ø uPVC WASTE /V.T PIPE
	3	110Ø uPVC ANTISYPHONE PIPE
	4	110Ø uPVC KITCHEN WASTE PIPE
	5	160Ø uPVC RAIN WATER DOWNTAKE PIPE
	6	DOMESTIC WATER SUPPLY /DOWNTAKE PIPE
	7	FLUSHING WATER SUPPLY /DOWNTAKE PIPE
	8	110Ø uPVC BALCONY DRAIN PIPE
	9	110Ø uPVC CONDENSATE DRAIN PIPE
P.T.		9" TRAP
M.N.T.		MULTI NAHANI TRAP
		BASIN OUTLET
	A	110Ø uPVC SOIL PIPE
	B	110Ø uPVC WASTE PIPE
	C	50Ø uPVC WASTE PIPE
	D	40Ø uPVC KITCHEN SINK & WASH BASIN OUTLET PIPE

PIPE SLEEVE LEGEND :-

S1	150Ø SLEEVE FOR SOIL & WASTE PIPE AT 50MM ABOVE FROM TOILET SUNK
S2	50Ø SLEEVE FOR WATER SUPPLY PIPE AT 50MM ABOVE FROM TOILET SUNK

Note :-

1. BUILDING WILL BE DESIGNED (STRUCTURES) AS PER RELEVENT IS CODES FOR EARTH QUAKE RESISTANCE.
2. THE BUILDING IS ARTIFICALLY LIT AND MECHANICALLY VENTILATED.

LEGEND: –

PROJECT :

REVISED BUILDING PLANS OF GROUP HOUSING COLONY AREA MEASURING 25.087 ACRES (LICENCE NO. 123 OF 2012 DATED 20-12-2012 IN SECTOR-63, GURGAON BEING DEVELOPED BY ARLIE BUILDERS & DEVELOPERS PVT. LTD. AND OTHERS IN COLLABORATION WITH DLF HOME DEVELOPERS LTD(EARLIER KNOWN AS DLF NEW GURGAON HOME DEVELOPERS PVT.LTD)

ARCHITECTURE:
ARCOP
ARCOP ASSOCIATES PVT LTD
Plot No. 36B, Sector-32, Intitutional Area,
Gurugram. Haryana. 122001. India
Tel.: 91-124-4595500
91-124-4595550
Fax: 91-124-4595550

TO BE READ WITH THIS OFFICE MEMO NO. 2079 DATED: 20-4-2023

ATP(HQ) Ram Avtar Bassi JD(HQ)

Building plans have been checked and found in order as per Public Health Services point of view.

ARCHITECT'S SEAL & SIGNATURE

PRATEEK BHATNAGAR
ARCHITECT
M.C.A., A.I.I.A.
Registration No.: CA/2003/32077
A-11258

OWNER'S SEAL & SIGNATURE

DLF Home Developers Limited
Authorised Signatory

JAN.–2023. Scale : 1:100

Drawing Title: –
REFUGE FLOOR PLAN & AREA CALCULATION TOWER-A

Drawing No: –
TA-04