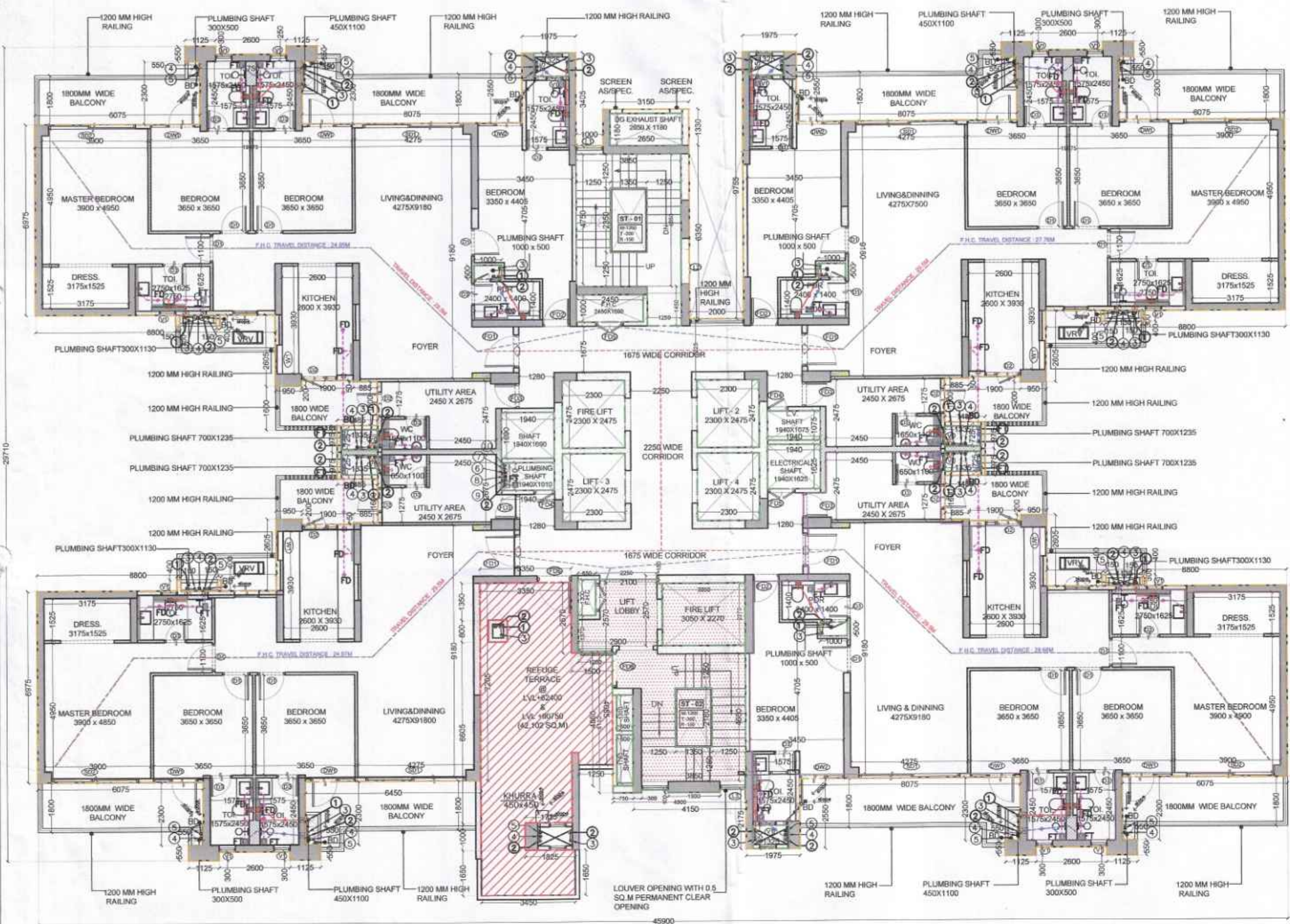
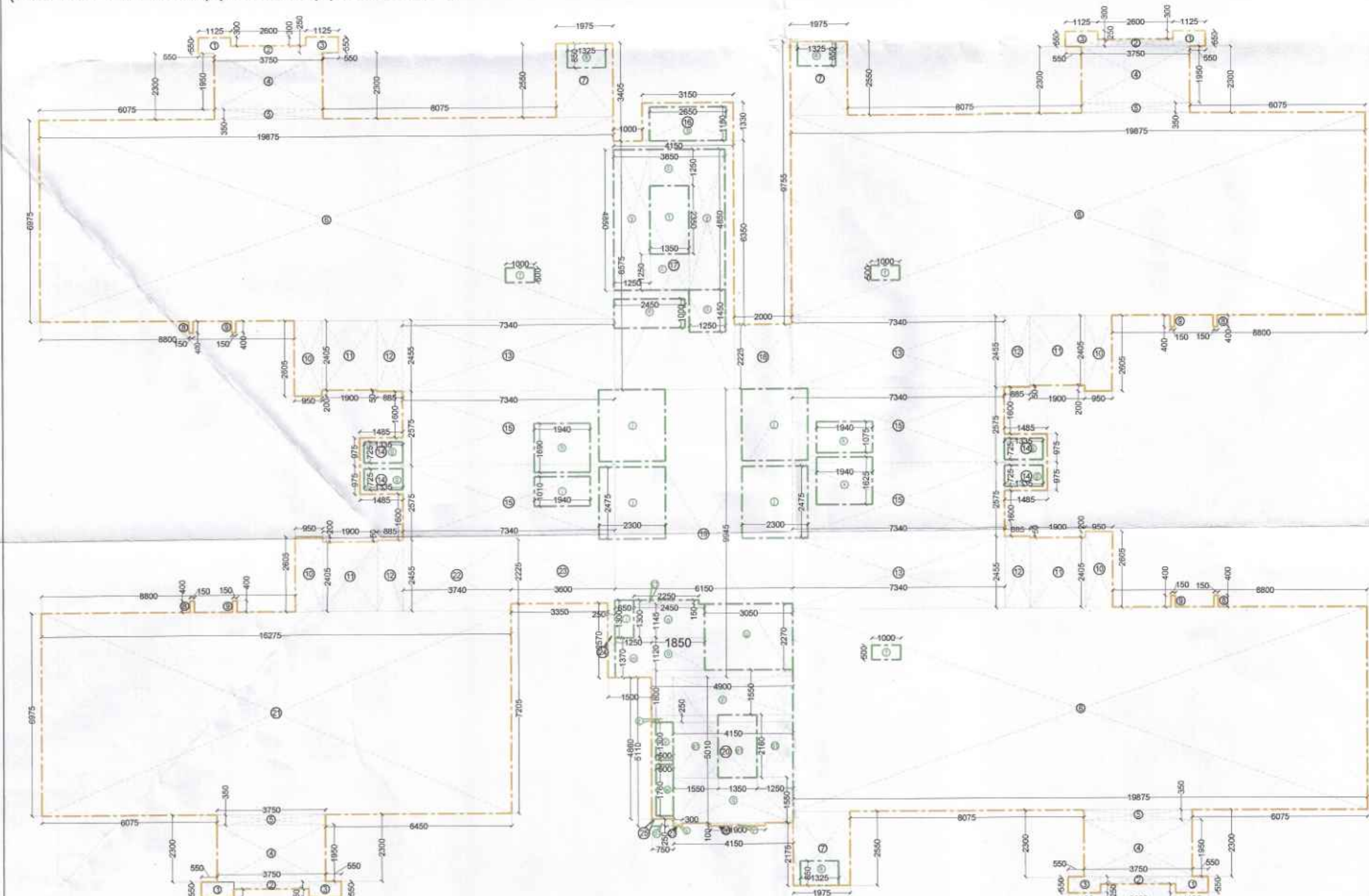




REFUGE FLOOR PLAN  
(19TH & 28TH FLOOR) (TOWER-E) (SCALE 1:120)



REFUGE FLOOR FAR AREA DIAGRAM  
(19TH & 28TH FLOOR) (TOWER-E) (SCALE 1:120)

| DOOR NO. | DOOR TAGS | WIDTH    | UNITS | CLL    | LOCATION                   | FIRE RATING |
|----------|-----------|----------|-------|--------|----------------------------|-------------|
| 1        | D1        | 1000     | 2400  | 0      | Bedroom                    |             |
| 2        | D2        | 900      | 2400  | 0      | Servant Room               |             |
| 3        | D3        | 800      | 2400  | 0      | Toilet                     |             |
| 4        | D4        | 1200     | 2400  | 0      | Meeting room               |             |
| 5        | D5        | 2875     | 2400  | 0      | Living/Dining              |             |
| 6        | SD2       | 1825     | 2400  | 0      | Master bedroom             |             |
| 7        | DW1       | 1000/325 | 2400  | 0/1100 | Bedroom                    |             |
| 8        | DW2       | 900/900  | 2400  | 0/1100 | Kitchen                    |             |
| 9        | GD3       | 3250     | 2400  | 0      | Entrance lobby             | 1hrs        |
| 10       | FD1       | 1200     | 2400  | 0      | Bedroom                    | 1hrs        |
| 11       | FD2       | 1000     | 2400  | 0      | Entrance From Lobby        | 1hrs        |
| 12       | FD3       | 900      | 2400  | 0      | Entrance                   | 1hrs        |
| 13       | FD4       | 750      | 2400  | 100    | Plumbing Shaft/LV Shaft    | 1hrs        |
| 14       | FD5       | 1000     | 2400  | 100    | Electrical Shaft/PHC Shaft | 1hrs        |
| 15       | FD6       | 1250     | 2400  | 100    | Refuge Terrace             | 1hrs        |
| 16       |           |          |       |        |                            |             |
| 17       | W1        | 1075     | 2400  | 1100   | Kitchen                    |             |
| 18       | W1        | 600      | 2400  | 1350   | Toilet                     |             |
| 19       | V2        | 300      | 2400  | 1350   | Servant Toilet             |             |
| 20       | L1        | 1000     | BOB   |        | Staircase-01               |             |
| 21       | L2        | 1250     | BOB   |        | Staircase-01               |             |
| 22       | L3        | 975      | BOB   |        | Staircase-02               |             |
| 23       | G3        | 1250     | 2400  | 0      | Fire Tower                 |             |
| 24       | G8        | 1425     | 2400  | 0      | Meeting Room               |             |

#### PLUMBING NOTES

1. WASH BASIN TO FLOOR TRAP (FT) 40 UP PVC PIPE.
2. KITCHEN SINK TO FLOOR TRAP (FT) UPVC FLEXIBLE PIPE.
3. P.D. TO F.T. 63 OD PP WASTE PIPE.
4. 110 OD PP PIPE USED FOR SOIL & WASTE.
5. 110 OD UPVC PIPE USED FOR TERRACE RAIN WATER.
6. 90 OD UPVC PIPE USED FOR BALCONY.

#### SCHEDULE OF LEGEND

| SYMBOL | DESCRIPTION                                                                            |
|--------|----------------------------------------------------------------------------------------|
| ①      | 110 OD PP SOIL & WASTE PIPE                                                            |
| ②      | 110 OD PP WASTE & VENT PIPE                                                            |
| ③      | 75 OD UPVC ANTI-SIPHONAGE PIPE                                                         |
| ④      | 110 OD UPVC TERRACE RAIN WATER PIPE                                                    |
| ⑤      | 90 OD UPVC BALCONY / CORRIDOR RAIN WATER PIPE                                          |
| ⑥      | DOMESTIC WATER SUPPLY D/N TAKE PIPE *                                                  |
| ⑦      | FLUSHING WATER SUPPLY D/N TAKE PIPE *                                                  |
| ⑧      | DOMESTIC WATER SUPPLY RISER *                                                          |
| ⑨      | FLUSHING WATER SUPPLY RISER *                                                          |
| ⑩      | HYDRO-PNEUMATIC DOMESTIC WATER SUPPLY D/N TAKE PIPE FOR TOP 4 FLOORS *                 |
| ⑪      | LEFT FLOOR TRAP (110 x 110) MM, WATER SEAL : 50 MM, OUTLET SIZE IN S.W. = 100 x 150 MM |
| ⑫      | WT. MATH TRAP (110 x 70) MM                                                            |
| ⑬      | 75 OD FLOOR DRAIN (110 x 110) MM                                                       |
| ⑭      | 90 OD BALCONY DRAIN (110 x 63) MM                                                      |
| ⑮      | 63 OD PP WASTE PIPE                                                                    |
| ⑯      | 75 OD PP ANTI-SIPHONAGE PIPE                                                           |
| ⑰      | 110 OD PP SOIL PIPE                                                                    |
| ⑱      | 110 OD PP WASTE PIPE                                                                   |

#### TYPICAL CONNECTION PLAN



| REFUGE AREA CALCULATION - 19TH REFUGE FLOOR (TOWER-E) |   |             |                                                                                        |
|-------------------------------------------------------|---|-------------|----------------------------------------------------------------------------------------|
| GROSS AREA OF 19TH FLOOR (REFUGE) (TOWER - E)         | = | 838.014     | SQM                                                                                    |
| GROSS AREA OF 18TH FLOOR (TOWER - E)                  | = | 867.717     | SQM                                                                                    |
| TOTAL                                                 | = | 1705.731    | SQM                                                                                    |
| REFUGE AREA REQUIRED                                  | = | 136.458/0.3 | + 0.9% ADDITIONAL SPACE TO ACCOMMODATE WHEEL CHAIR SPACE (@0.9 SQM PER 200 POPULATION) |
| REFUGE AREA PROVIDED                                  | = | 42.192      | SQM                                                                                    |
| 19TH REFUGE FLOOR (GROSS - A)                         |   |             |                                                                                        |
| R1                                                    | = | 1           | X 3.350 X 1.350 = 4.523 SQM                                                            |
| R2                                                    | = | 1           | X 0.300 X 0.800 = 0.240 SQM                                                            |
| R3                                                    | = | 1           | X 1.000 X 8.605 = 8.605 SQM                                                            |
| R4                                                    | = | 1           | X 2.350 X 7.405 = 17.402 SQM                                                           |
| R5                                                    | = | 1           | X 1.625 X 1.000 = 1.625 SQM                                                            |
| R6                                                    | = | 1           | X 3.450 X 1.650 = 5.693 SQM                                                            |
| R7                                                    | = | 1           | X 1.250 X 4.085 = 5.106 SQM                                                            |
| R8                                                    | = | 1           | X 3.635 X 0.250 = 0.909 SQM                                                            |
| TOTAL REFUGE AREA PROVIDED                            | = | 42.192      | SQM                                                                                    |

| REFUGE AREA CALCULATION - 28TH REFUGE FLOOR (TOWER-E) |   |             |                                                                                        |
|-------------------------------------------------------|---|-------------|----------------------------------------------------------------------------------------|
| GROSS AREA OF 28TH FLOOR (REFUGE) (TOWER - E)         | = | 838.014     | SQM                                                                                    |
| GROSS AREA OF 27TH FLOOR (TOWER - E)                  | = | 867.717     | SQM                                                                                    |
| TOTAL                                                 | = | 1705.731    | SQM                                                                                    |
| REFUGE AREA REQUIRED                                  | = | 136.458/0.3 | + 0.9% ADDITIONAL SPACE TO ACCOMMODATE WHEEL CHAIR SPACE (@0.9 SQM PER 200 POPULATION) |
| REFUGE AREA PROVIDED                                  | = | 42.192      | SQM                                                                                    |
| 28TH REFUGE FLOOR (GROSS - A)                         |   |             |                                                                                        |
| R1                                                    | = | 1           | X 3.350 X 1.350 = 4.523 SQM                                                            |
| R2                                                    | = | 1           | X 0.300 X 0.800 = 0.240 SQM                                                            |
| R3                                                    | = | 1           | X 1.000 X 8.605 = 8.605 SQM                                                            |
| R4                                                    | = | 1           | X 2.350 X 7.405 = 17.402 SQM                                                           |
| R5                                                    | = | 1           | X 1.625 X 1.000 = 1.625 SQM                                                            |
| R6                                                    | = | 1           | X 3.450 X 1.650 = 5.693 SQM                                                            |
| R7                                                    | = | 1           | X 1.250 X 4.085 = 5.106 SQM                                                            |
| R8                                                    | = | 1           | X 3.635 X 0.250 = 0.909 SQM                                                            |
| TOTAL REFUGE AREA PROVIDED                            | = | 42.192      | SQM                                                                                    |

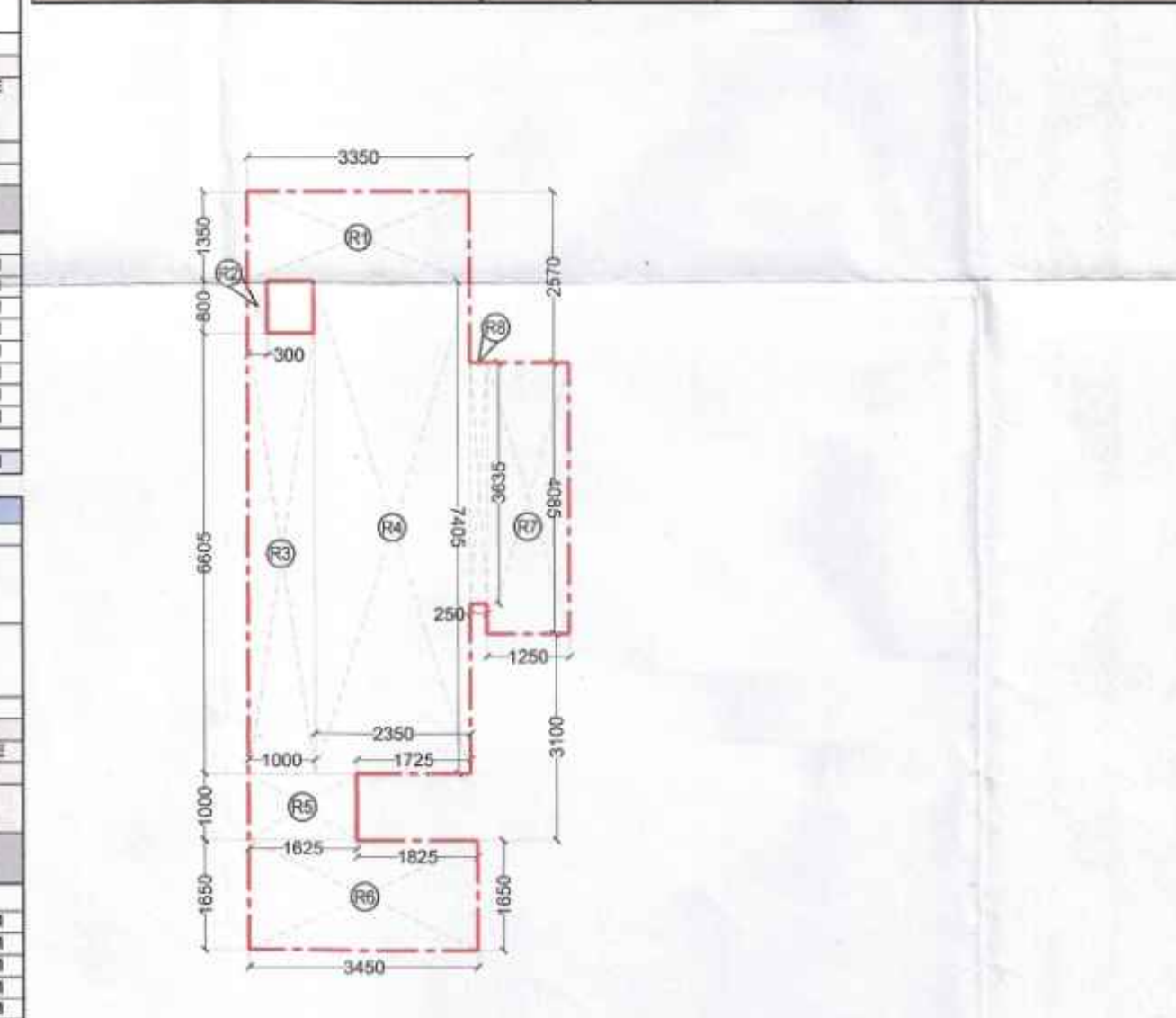
| FAR AREA OF REFUGE (19TH / 28TH) FLOOR (TOWER-E) |   |   |   |        |   |       |   |         |     |
|--------------------------------------------------|---|---|---|--------|---|-------|---|---------|-----|
| GROSS - A                                        |   |   |   |        |   |       |   |         |     |
| 1                                                | = | 4 | X | 1.125  | X | 0.550 | = | 2.475   | SQM |
| 2                                                | = | 4 | X | 0.250  | X | 2.600 | = | 2.600   | SQM |
| 3                                                | = | 4 | X | 1.125  | X | 0.550 | = | 2.475   | SQM |
| 4                                                | = | 4 | X | 1.950  | X | 3.750 | = | 29.250  | SQM |
| 5                                                | = | 4 | X | 3.750  | X | 0.350 | = | 5.250   | SQM |
| 6                                                | = | 3 | X | 19.875 | X | 6.975 | = | 415.884 | SQM |
| 7                                                | = | 3 | X | 1.975  | X | 2.550 | = | 15.109  | SQM |
| 8                                                | = | 4 | X | 0.150  | X | 0.400 | = | 0.240   | SQM |
| 9                                                | = | 4 | X | 0.150  | X | 0.400 | = | 0.240   | SQM |
| 10                                               | = | 4 | X | 0.950  | X | 2.605 | = | 9.899   | SQM |
| 11                                               | = | 4 | X | 1.900  | X | 2.455 | = | 18.278  | SQM |
| 12                                               | = | 4 | X | 0.885  | X | 2.455 | = | 8.691   | SQM |
| 13                                               | = | 3 | X | 7.340  | X | 2.455 | = | 54.059  | SQM |
| 14                                               | = | 4 | X | 1.485  | X | 0.975 | = | 5.792   | SQM |
| 15                                               | = | 4 | X | 7.340  | X | 2.575 | = | 75.602  | SQM |
| 16                                               | = | 1 | X | 3.150  | X | 1.330 | = | 4.190   | SQM |
| 17                                               | = | 1 | X | 4.150  | X | 8.575 | = | 35.588  | SQM |
| 18                                               | = | 1 | X | 2.000  | X | 2.225 | = | 4.450   | SQM |
| 19                                               | = | 1 | X | 6.150  | X | 9.945 | = | 61.162  | SQM |
| 20                                               | = | 1 | X | 4.150  | X | 5.010 | = | 20.792  | SQM |
| 21                                               | = | 1 | X | 16.275 | X | 6.975 | = | 113.518 | SQM |
| 22                                               | = | 1 | X | 3.740  | X | 2.455 | = | 9.182   | SQM |
| 23                                               | = | 1 | X | 3.600  | X | 2.225 | = | 8.010   | SQM |
| 24                                               | = | 1 | X | 0.250  | X | 2.570 | = | 0.643   | SQM |
| 25                                               | = | 1 | X | 4.860  | X | 0.750 | = | 3.645   | SQM |
| 26                                               | = | 1 | X | 1.900  | X | 0.100 | = | 0.190   | SQM |
| 27                                               | = | 1 | X | 0.300  | X | 0.100 | = | 0.030   | SQM |
| TOTAL                                            | = |   |   |        |   |       | = | 907.240 | SQM |

| GROSS - B |   |   |   |       |   |       |   |         |     |
|-----------|---|---|---|-------|---|-------|---|---------|-----|
| a         | = | 3 | X | 1.325 | X | 0.850 | = | 3.379   | SQM |
| b         | = | 1 | X | 2.650 | X | 1.180 | = | 3.127   | SQM |
| c         | = | 2 | X | 1.350 | X | 1.250 | = | 3.375   | SQM |
| d         | = | 1 | X | 1.250 | X | 1.450 | = | 1.813   | SQM |
| e         | = | 1 | X | 2.450 | X | 1.000 | = | 2.450   | SQM |
| f         | = | 3 | X | 1.000 | X | 0.500 | = | 1.500   | SQM |
| g         | = | 4 | X | 1.335 | X | 0.725 | = | 3.872   | SQM |
| h         | = | 1 | X | 1.940 | X | 1.690 | = | 3.279   | SQM |
| i         | = | 1 | X | 1.940 | X | 1.010 | = | 1.959   | SQM |
| j         | = | 4 | X | 2.300 | X | 2.475 | = | 22.770  | SQM |
| k         | = | 1 | X | 1.940 | X | 1.075 | = | 2.086   | SQM |
| l         | = | 1 | X | 0.650 | X | 1.300 | = | 0.845   | SQM |
| m         | = | 1 | X | 1.250 | X | 1.370 | = | 1.713   | SQM |
| n         | = | 1 | X | 2.450 | X | 1.145 | = | 2.805   | SQM |
| o         | = | 1 | X | 1.850 | X | 1.120 | = | 2.072   | SQM |
| p         | = | 1 | X | 4.900 | X | 1.550 | = | 7.595   | SQM |
| q         | = | 1 | X | 4.150 | X | 1.550 | = | 6.433   | SQM |
| r         | = | 1 | X | 1.900 | X | 0.100 | = | 0.190   | SQM |
| s         | = | 1 | X | 0.300 | X | 0.100 | = | 0.030   | SQM |
| t         | = | 1 | X | 1.350 | X | 2.350 | = | 3.173   | SQM |
| u         | = | 1 | X | 3.050 | X | 2.270 | = | 6.924   | SQM |
| v         | = | 1 | X | 0.600 | X | 1.300 | = | 0.780   | SQM |
| w         | = | 1 | X | 0.600 | X | 1.760 | = | 1.056   | SQM |
| x         | = | 1 | X | 1.940 | X | 1.625 | = | 3.153   | SQM |
| y         | = | 2 | X | 1.250 | X | 4.850 | = | 12.125  | SQM |
| z         | = | 1 | X | 0.750 | X | 0.250 | = | 0.188   | SQM |
| a1        | = | 1 | X | 1.550 | X | 2.160 | = | 3.348   | SQM |
| b1        | = | 1 | X | 1.250 | X | 2.160 | = | 2.700   | SQM |
| c1        | = | 1 | X | 2.250 | X | 0.150 | = | 0.338   | SQM |
| d1        | = | 1 | X | 0.750 | X | 0.250 | = | 0.188   | SQM |
| e1        | = | 1 | X | 1.350 | X | 2.160 | = | 2.916   | SQM |
| TOTAL     | = |   |   |       |   |       | = | 108.177 | SQM |

| TOTAL FAR AREA OF REFUGE (19TH/28TH) FLOOR (TOWER-E) |               |
|------------------------------------------------------|---------------|
| GROSS - A                                            | = 907.240     |
| GROSS - B                                            | = 108.177     |
| TOTAL                                                | = 799.063 SQM |

| STAIRCASE NON FAR AREA OF TYPICAL (1ST TO 18TH, 20TH TO 27TH, 29TH TO 34TH) FLOOR (TOWER-E) |   |   |   |       |   |       |   |        |     |
|---------------------------------------------------------------------------------------------|---|---|---|-------|---|-------|---|--------|-----|
| GROSS - C                                                                                   |   |   |   |       |   |       |   |        |     |
| c                                                                                           | = | 2 | X | 1.350 | X | 1.250 | = | 3.375  | SQM |
| d                                                                                           | = | 1 | X | 1.250 | X | 1.450 | = | 1.813  | SQM |
| m                                                                                           | = | 1 | X | 1.250 | X | 1.370 | = | 1.713  | SQM |
| n                                                                                           | = | 1 | X | 2.450 | X | 1.145 | = | 2.805  | SQM |
| o                                                                                           | = | 1 | X | 1.850 | X | 1.120 | = | 2.072  | SQM |
| p                                                                                           | = | 1 | X | 4.950 | X | 1.550 | = | 7.673  | SQM |
| q                                                                                           | = | 1 | X | 4.150 | X | 1.550 | = | 6.433  | SQM |
| r                                                                                           | = | 1 | X | 1.900 | X | 0.100 | = | 0.190  | SQM |
| s                                                                                           | = | 1 | X | 0.300 | X | 0.100 | = | 0.030  | SQM |
| y                                                                                           | = | 2 | X | 1.250 | X | 4.850 | = | 12.125 | SQM |
| z                                                                                           | = | 1 | X | 0.750 | X | 0.250 | = | 0.188  | SQM |
| a1                                                                                          | = | 1 | X | 1.550 | X | 2.160 | = | 3.348  | SQM |
| b1                                                                                          | = | 1 | X | 1.250 | X | 2.160 | = | 2.700  | SQM |
| c1                                                                                          | = | 1 | X | 2.250 | X | 0.150 | = | 0.338  | SQM |
| d1                                                                                          | = | 1 | X | 0.750 | X | 0.250 | = | 0.188  | SQM |
| TOTAL                                                                                       | = |   |   |       |   |       | = | 44.988 | SQM |

| TOTAL BUILT UP AREA OF REFUGE (19TH/28TH) FLOOR (TOWER-E) |               |
|-----------------------------------------------------------|---------------|
| FAR AREA                                                  | = 799.063     |
| GROSS - C                                                 | = 44.988      |
| TOTAL                                                     | = 844.051 SQM |



REFUGE FLOOR AREA DIAGRAM  
(19TH & 28TH FLOOR) (SCALE 1:120)

**NOTE :-**

This is a "PROVISIONAL BUILDING PLAN" approved only for the purpose of inviting objections from the general public.

S.T.P. (HQ) Member Secretary B.P.A.C.  
S.T.P. (G) Member B.P.A.C.  
C.T.A. (HR) Chairman B.P.A.C.

AD  
PA  
ATP

**LEGEND :-**

Sound book for Public Health  
Services only subject to comments in  
the form of a letter No. 25.12.14...DW.1.12.14

DDA (T) MEMBER BPAC  
Rajesh Dutt SD(HQ)

**PROJECT :-**

Revised Building Plans for TOD Group Housing Colony Measuring 10.744 acres Land (Licence no. 4 of 2013 dated 18-02-2013 in Sector 112, Gurgaon, Manesar, Urban Complex, Gurgaon, Haryana, being developed by Sh. Ajit Singh and Others in Collaboration with EMAAR INDIA LTD.

**STRUCTURE :-**

DUCON CONSULTANTS PRIVATE LIMITED  
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W-20, Sector-14, Gurgaon, Haryana-122001  
E-mail: contact@duciconsultants.com  
PH:40073196,65410630,65410631

**MEP :-**

PARADISE CONSULTANTS  
PLOT NO. 129, POCKET-2, BASEMENT  
JASOLA VIHAR, NEW DELHI-110025  
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**ARCHITECTS :-**

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

**ARCHITECT'S SEAL & SIGNATURE**

**OWNER'S SEAL & SIGNATURE**

DATE:- 27-09-2024  
SCALE:- 1:120  
DRAWING TITLE:- REFUGE FLOOR PLAN AND FAR CALCULATION TOWER E-4BHK TYPE 5  
DRAWING NO. TE-15-REF-01