

PLAN SHOWING THE PROPOSED CONSTRUCTION OF
STILT FLOOR + 3 FLOORS - RESIDENTIAL BUILDING
WITH 16 DWELLING UNITS AT PLOT NO. 1, CMDA
APPROVED LAYOUT ROAD, GERUGAMBAKKAM,
CHENNAI. COMPRISED IN OLD S.No.363/2A1 PART,
363/2A2 PART & NEWS No.363/2A1B, & 363/2A2B OF
GERUGAMBAKKAM VILLAGE, KUNDRATHUR
PANCHAYAT UNION.

- SPECIFICATIONS :**
- FOUNDATION : IN RCC FOOTING M25
 - WALLS : IN CONCRETE IN C.M:1.5 FOR 20 TH WALL & IN CM 1:4 FOR 10TH WALL
 - PLASTERING : IN CM 1:3 FOR CEILING & CM 1:5 FOR WALLS
 - JOINERY : IN WELL SEASONED WOOD
 - RCC M25 : FOR COLUMNS, BEAMS, SLABS, SUNSHADE & LINTELS
 - PAINTING : TWO COATS OF CEMENT PAINT, OVER ONE COAT OF PRIMER FOR ALL PLASTERED SURFACE, TWO COATS ENAMEL PAINT FOR JOINERIES
 - FLOORING : CERAMIC TILES.

AREA STATEMENT :

EXTENT AS PER PATTA : 406.00 Sq.m.

FLOOR	FSI AREA IN Sq.M
STILT FLOOR	-
FIRST FLOOR	270.65
SECOND FLOOR	270.65
THIRD FLOOR	269.21
TOTAL	810.51
ACHIEVED FSI :	$\frac{810.51}{406.00} = 1.996$

COLOR INDEX :

ROAD SITE PROPOSAL

PARKING DETAILS :

CAR PARKING PROVIDED : 4 NOS
TWO WHEELER PARKING PROVIDED : 31 NOS

SCALE : 1 IN 100 (1" = 8'-0")

NOTE : ALL DIMENSIONS ARE IN METRES ("M")

APPLICANT SIGNATURE :

Director

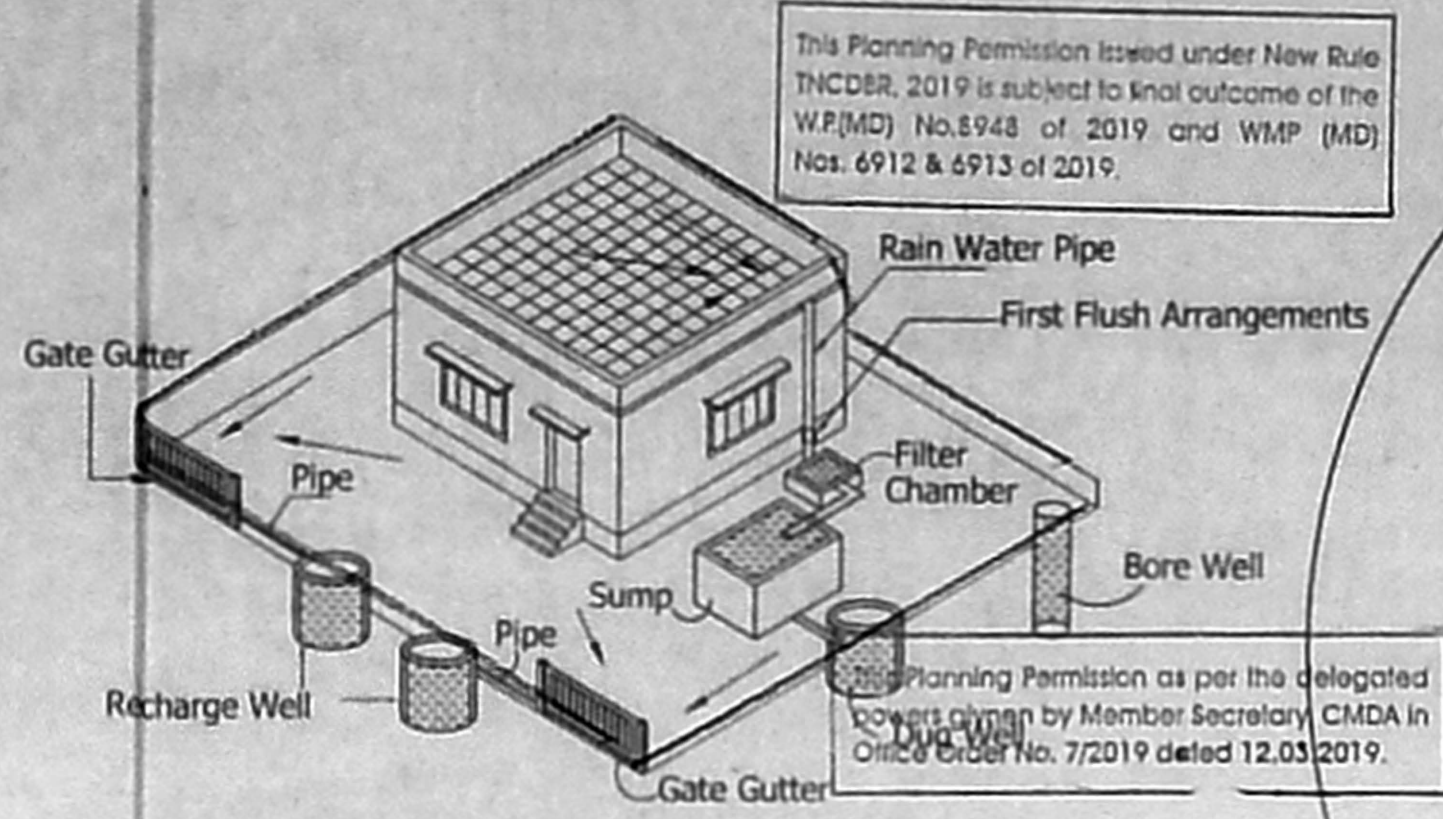
STRUCTURAL ENGINEER :

Er. K. YENGALS, B.E. M.T.
STRUCTURAL ENGINEER
No. RA/CR/119/02/009
Consulting Civil Engineer, Structural Engineer,
M/s. Teamwork Developers Pvt. Ltd.
174, NSK Road, E-Block, Basement B, Doshi Garden,
Vadapalani, Chennai - 600 028.

ARCHITECT SIGNATURE :

Ar. D. RAJASIVASUNDAR, B.Arc.
REGISTERED ARCHITECT
No. RA/CR/119/02/010
M/s. Teamwork Developers Pvt. Ltd.
174, NSK Road, E-Block, Basement B, Doshi Garden,
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அலுவலகப் படி



Proposed Rain Water Harvesting System
Provided as per CBR Norms Drawing No:1A
Not To Scale

Planning Permission No.
PP/NHRB/211/2021/A/B
Subject to conditions mentioned in this office
Letter No. PP/NHRB/C/35/2021/04-07-2021.

APPROVED

DESIGN OF SEPTIC WITH UPFLOW FILTER FOR THE PROPOSED RESIDENTIAL AT SURVEY NO. 363/2A1B, 363/2A2B OF GERUGAMBAKKAM VILLAGE, PLOT NO : 1, KUNDRATHUR PANCHAYAT UNIONR, CHENNAI .

TOTAL FSI AREA : 810.51 Sq.m.
No. of Persons :
(a) Assuming one dwelling unit for every 50 Sq.m. = $\frac{810.51}{50} = 16.21$ Say 20 Nos.
(b) Assuming 5 members per Dwelling unit = $16 \times 5 = 80$ Persons

Rate of water supply : 150 Litres/Head/Day
Flow of sewage per day : $80 \times 150 = 12000$ Litres/day
Assumed detention period : 18 Hours
Tank Capacity : $(12000 \times 18) = 216000$ Litres

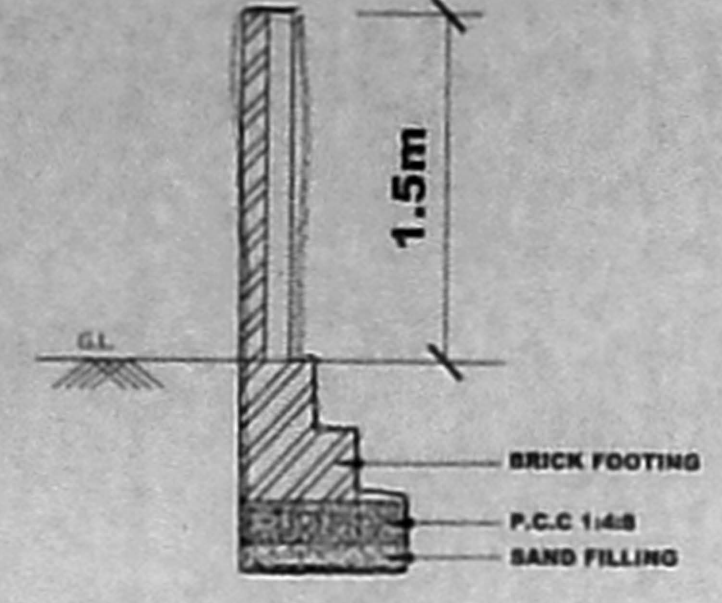
The tank will be cleaned every year.
So the sludge storage capacity at the rate of 50 litres per year = $80 \times 50 = 4000$ Litres

Total volume of sludge : $12000 \text{ Lts} + 4000 \text{ Lts} = 16000$ Litres

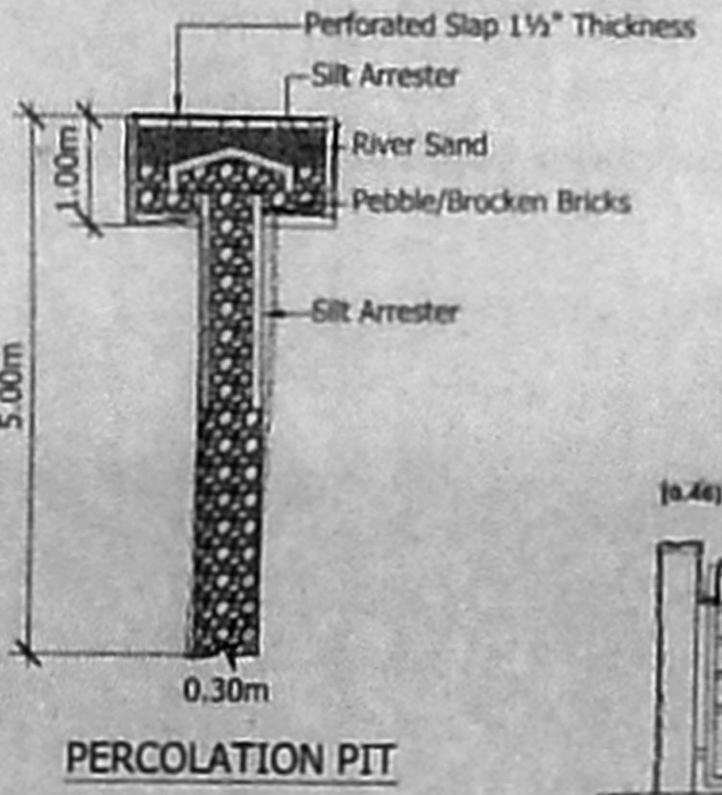
With provision for future expansion ADD 25% Extra
Let the tank capacity be : 8 Cu.m.
Assuming Depth of flow as : 2.00 m (Average)
Plan area of the tank : $\frac{8 \text{ Cu.m.}}{2.00 \text{ m}} = 4 \text{ Sq.m.}$
Rate of L : B : 3 : 1
Breadth $B = \sqrt{\frac{4}{3}}$: 1.15 m
 $L = 3 \times 1.15$: 3.45 m
Free board of the tank : 0.69m
Total depth of the tank : $2.00 \text{ m} + 0.69 \text{ m} = 2.69 \text{ m}$
Required size of septic tank : $3.45 \text{ m} \times 1.15 \text{ m} \times 2.69 \text{ m} = 10.67 \text{ Cu.m.}$
Size of Septic tank provided : $8.10 \text{ m} \times 1.80 \text{ m} \times 2.05 \text{ m} = 29.88 \text{ Cu.m.}$
Hence the Septic tank provided is sufficient.

Design of Upflow filter:

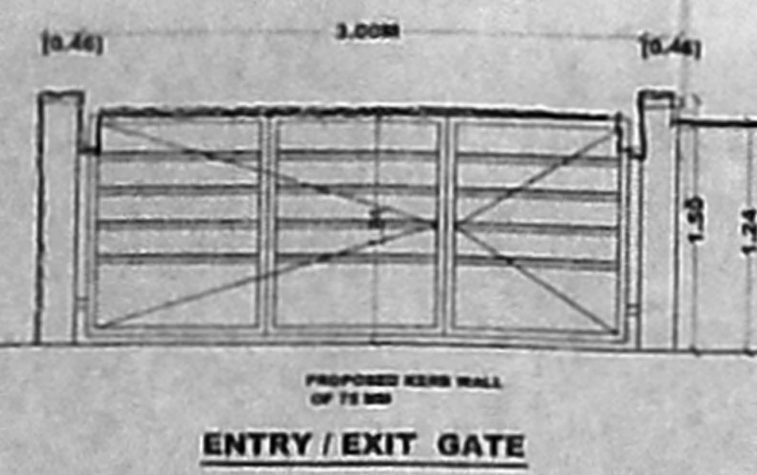
Total discharge including extra = 30,000 Litres
flow taken for future extension (ADD 50%)
Assuming the percolation capacity of filter media of the upflow filter pit as 1.25 Cu.m. (1250 Litres/Sq.m./Day)
Volume of upflow filter pit required : $\frac{30,000}{1.25} = 24,000 \text{ Cu.m.}$
Depth of upflow filter pit plan area required : 2.00m
 $\frac{24,000}{2.00} = 12,000 \text{ Sq.m.}$
2 Nos. of upflow filter are provided each of size : $3.50 \text{ m} \times 0.91 \text{ m} \times 3.00 \text{ m}$
Hence the 2 upflow filter tank each of size 3.50M x 0.91M x 3.00M is sufficient.



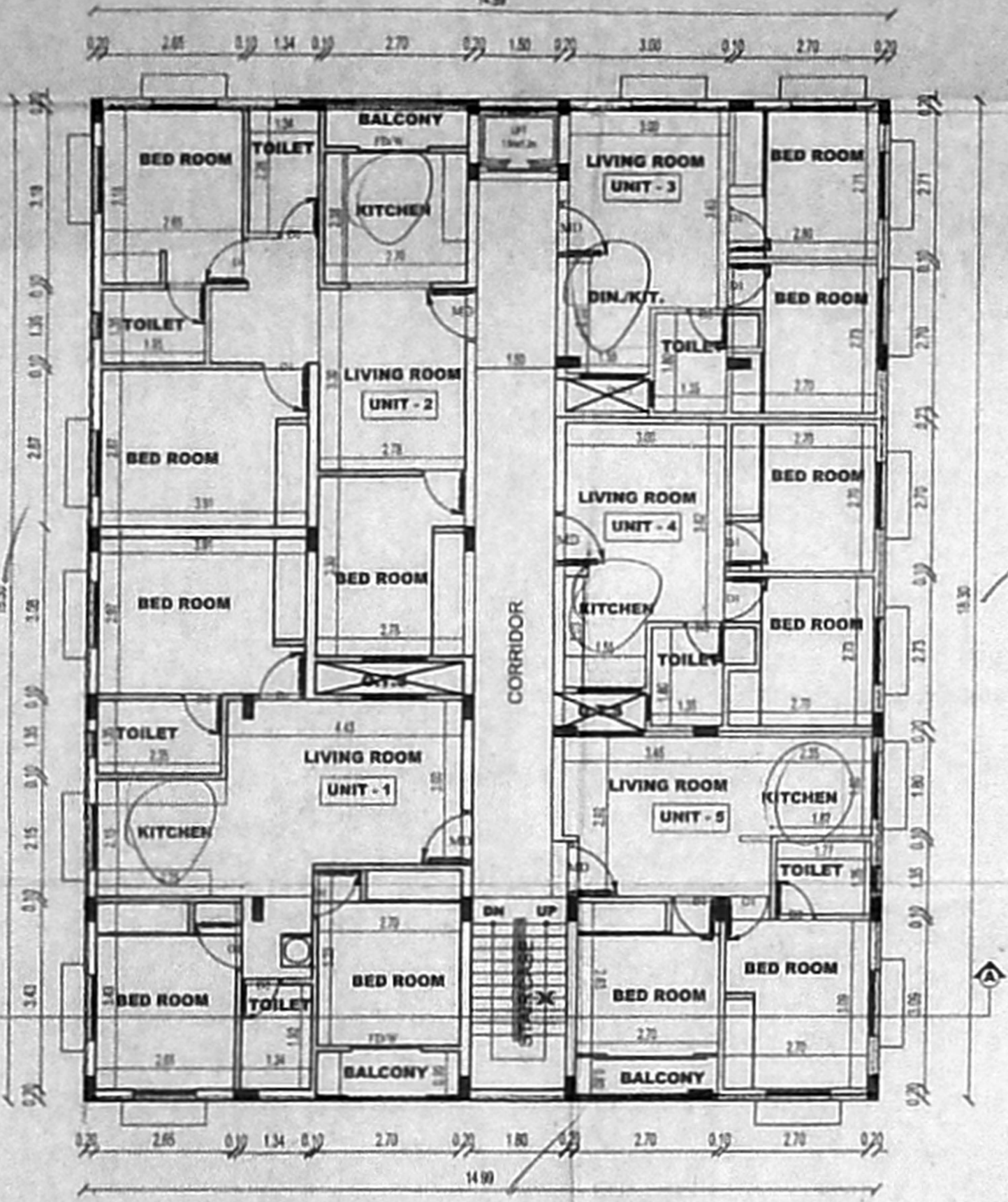
SECTION OF COMPOUND WALL



PERCOLATION PIT

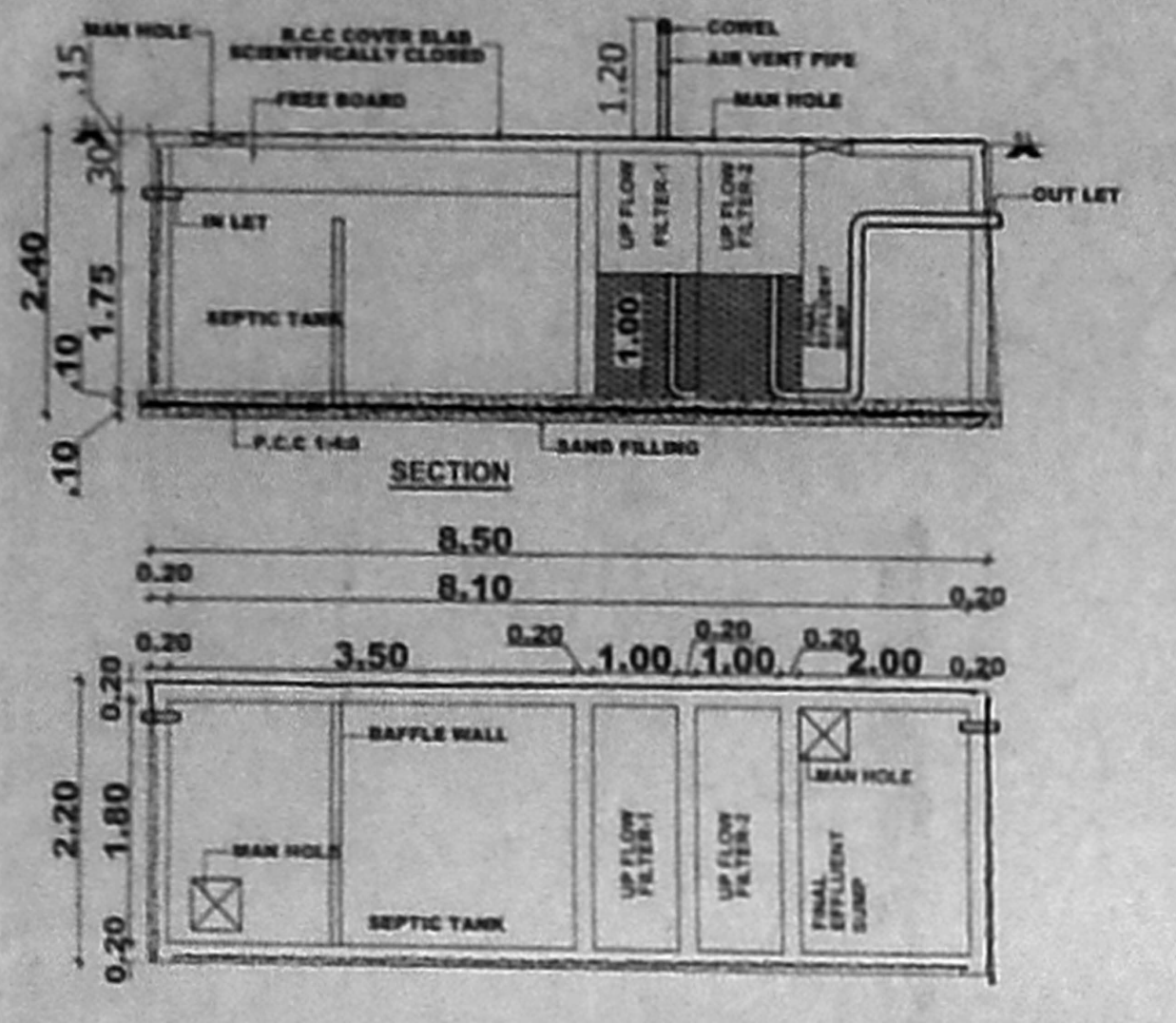


ENTRY / EXIT GATE

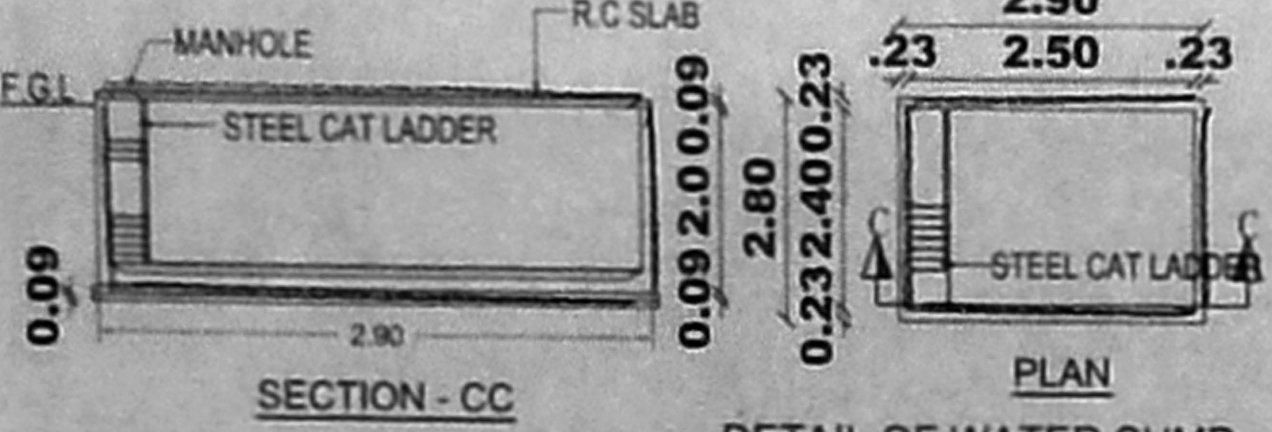


TYPICAL - 1- 2 FLOOR PLAN

5x2=10 dus.

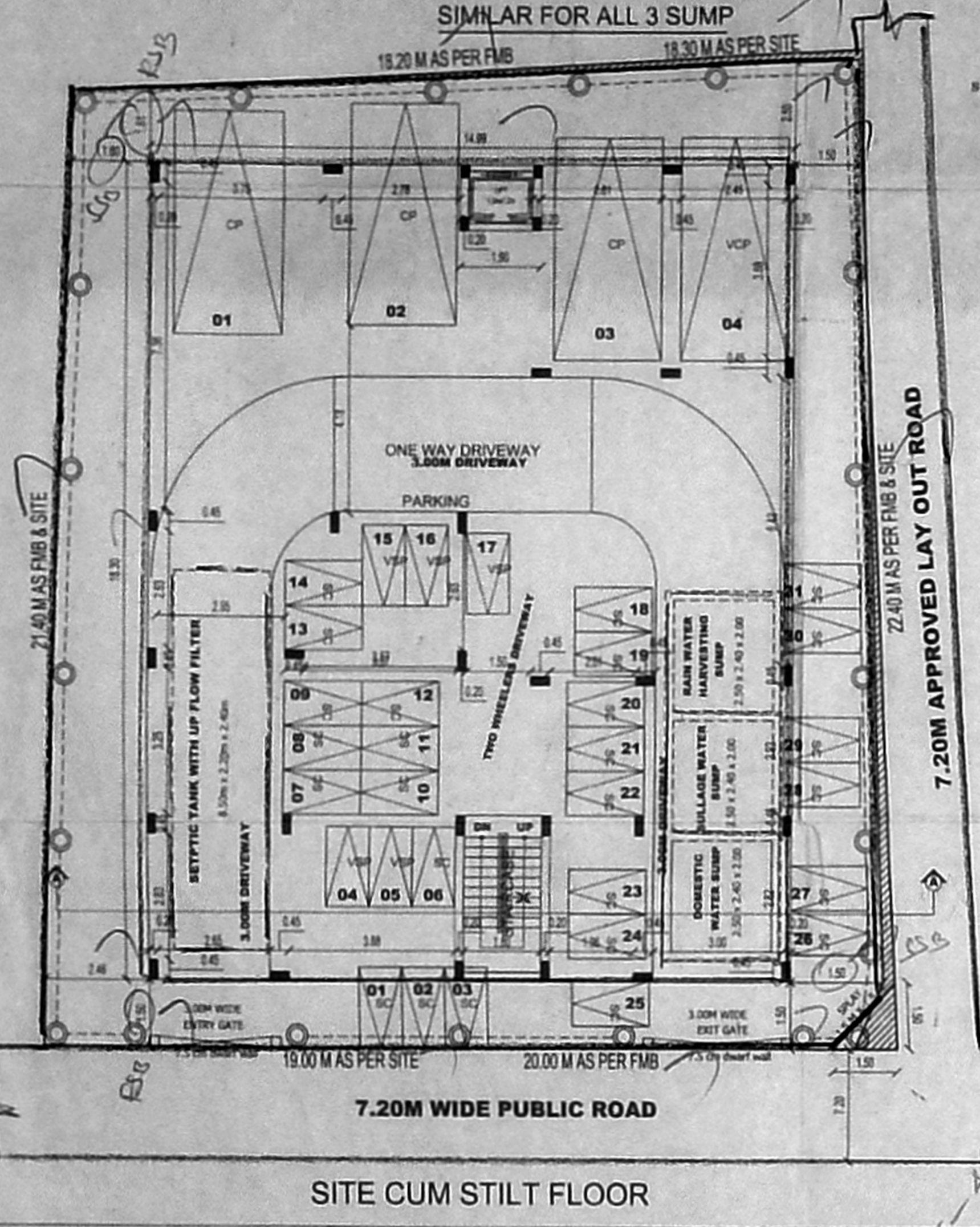


PLAN OF SEPTIC TANK WITH UP FLOW FILTER



SECTION - CC

DETAIL OF WATER SUMP
(DOMESTIC WATER & SULLAGE WATER)
RAIN WATER HARVESTING
SIMILAR FOR ALL 3 SUMP



SITE CUM STILT FLOOR

Car - 4
Two - 310

This Planning Permission as per the delegated powers given by Member Secretary, CMDA in Office Order No. 7/2019 dated 12.03.2019.

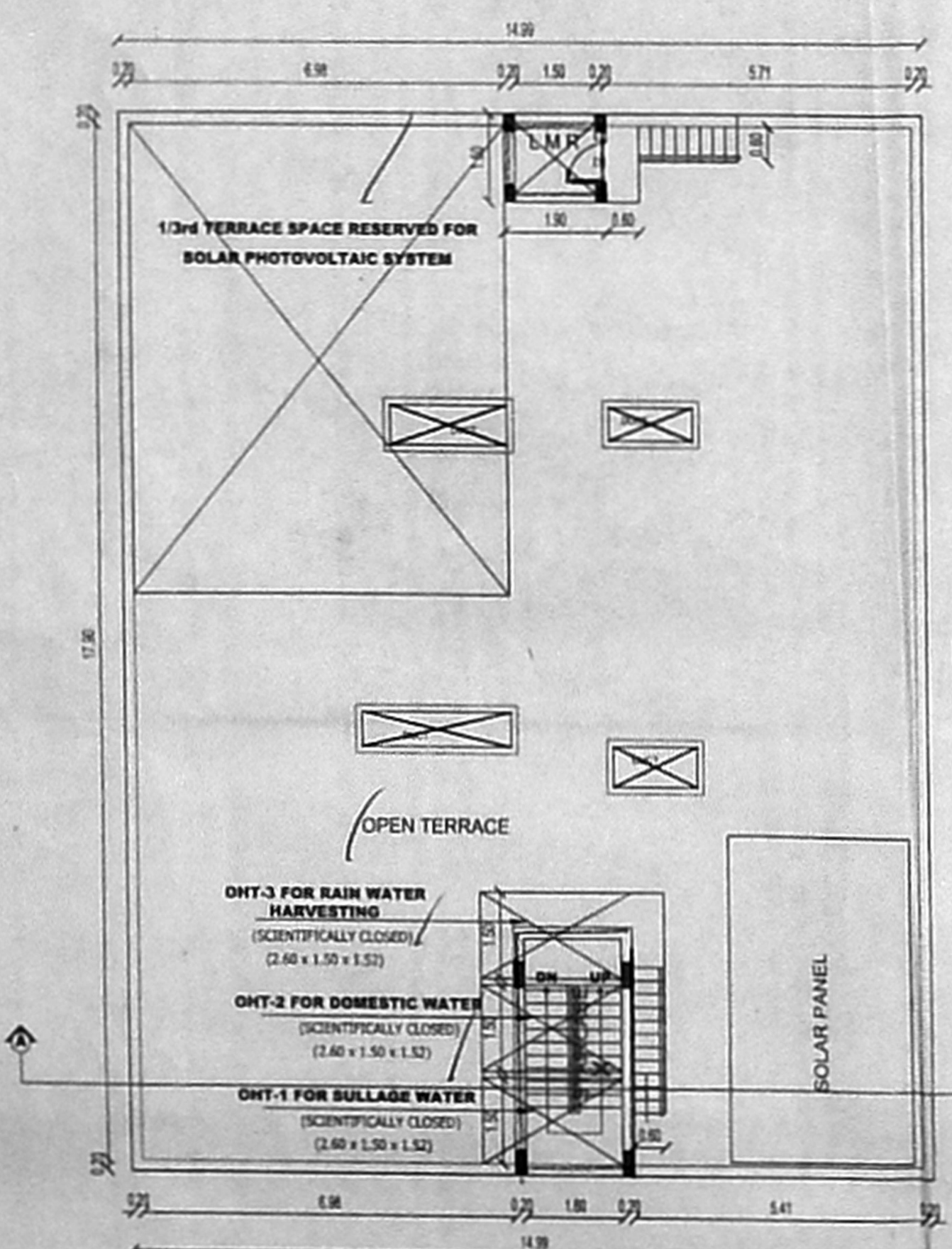
This Planning Permission issued under New Rule TNCDR, 2019 is subject to final outcome of the W.P(MD) No.8948 of 2019 and WMP (MD) Nos. 6912 & 6913 of 2019.

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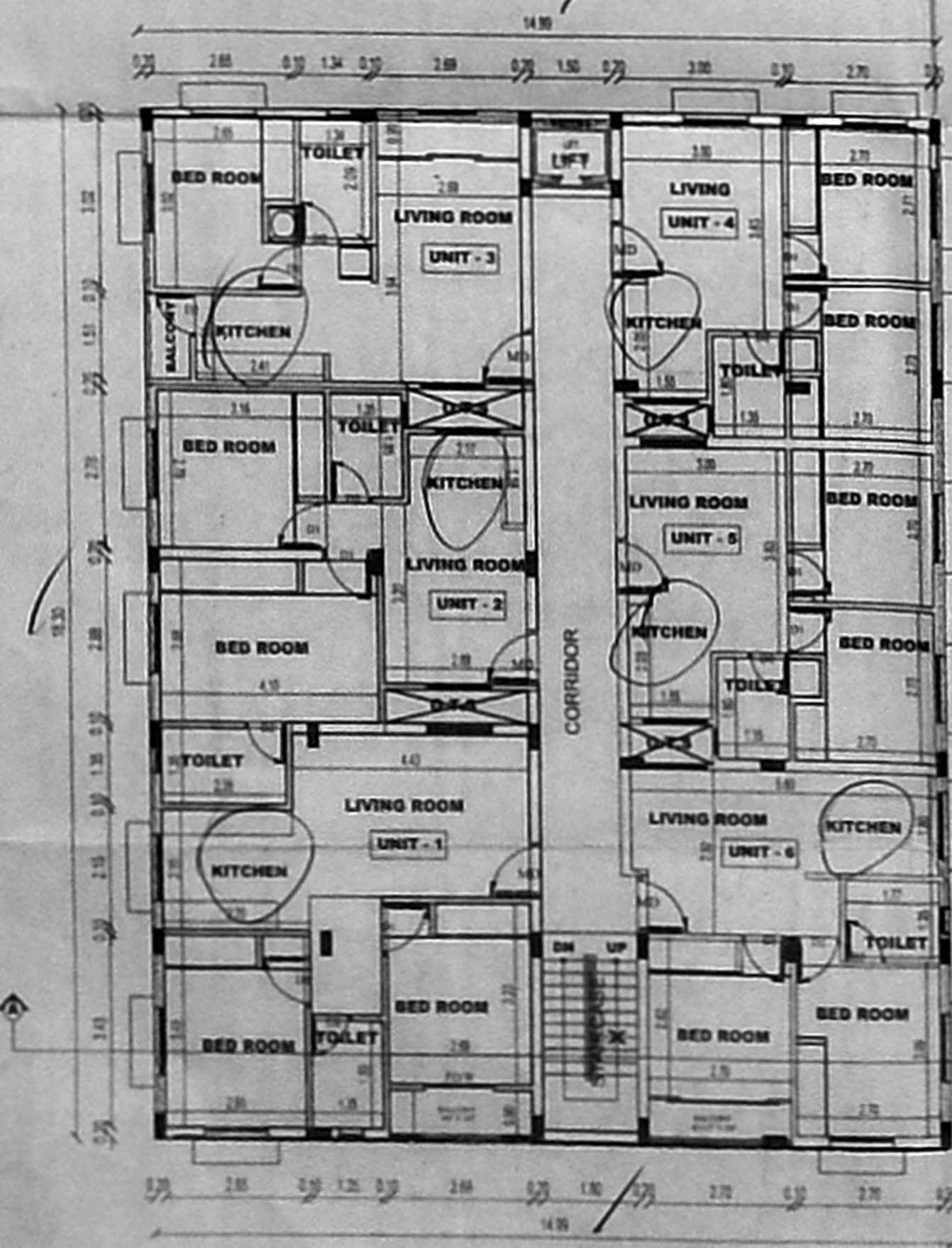
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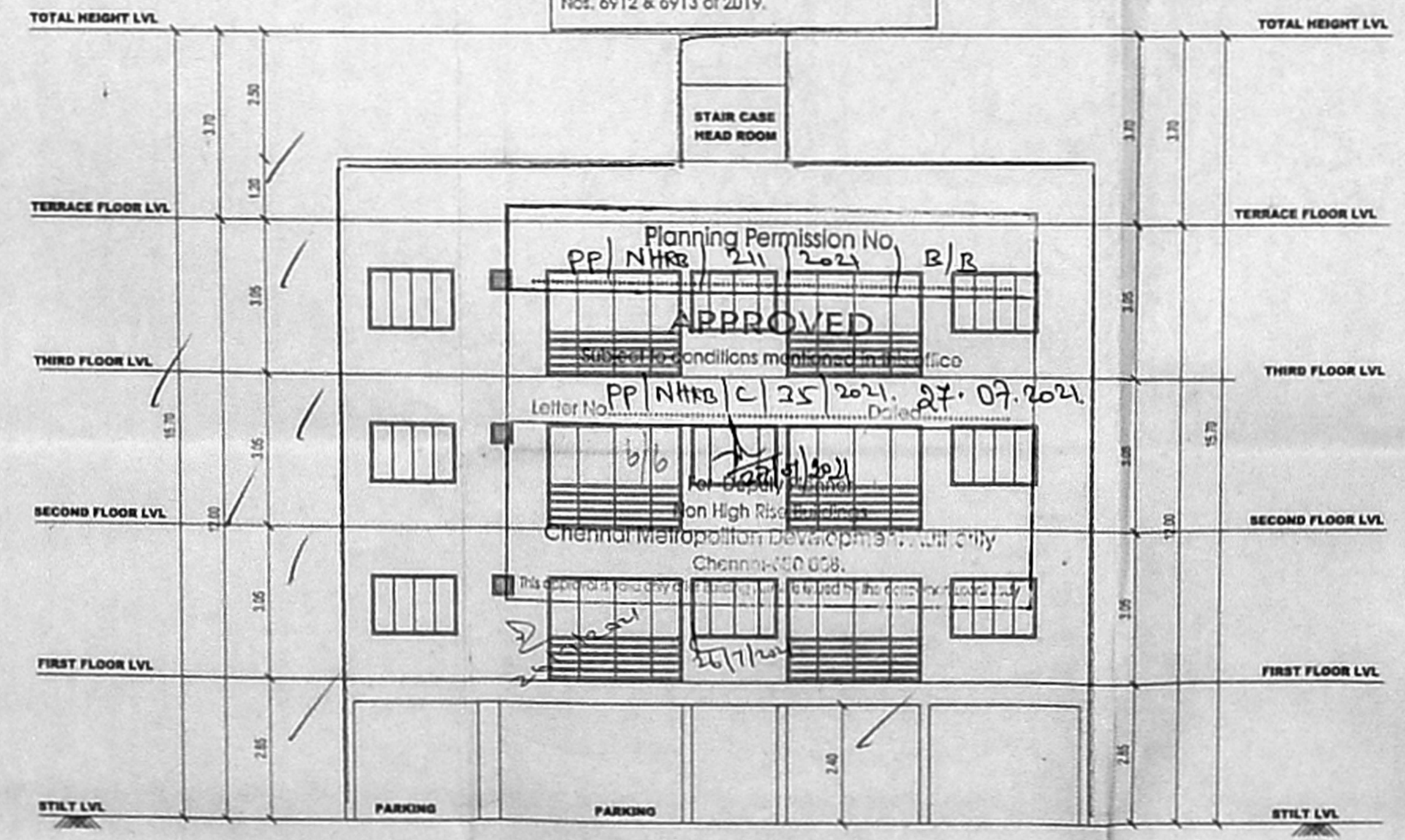
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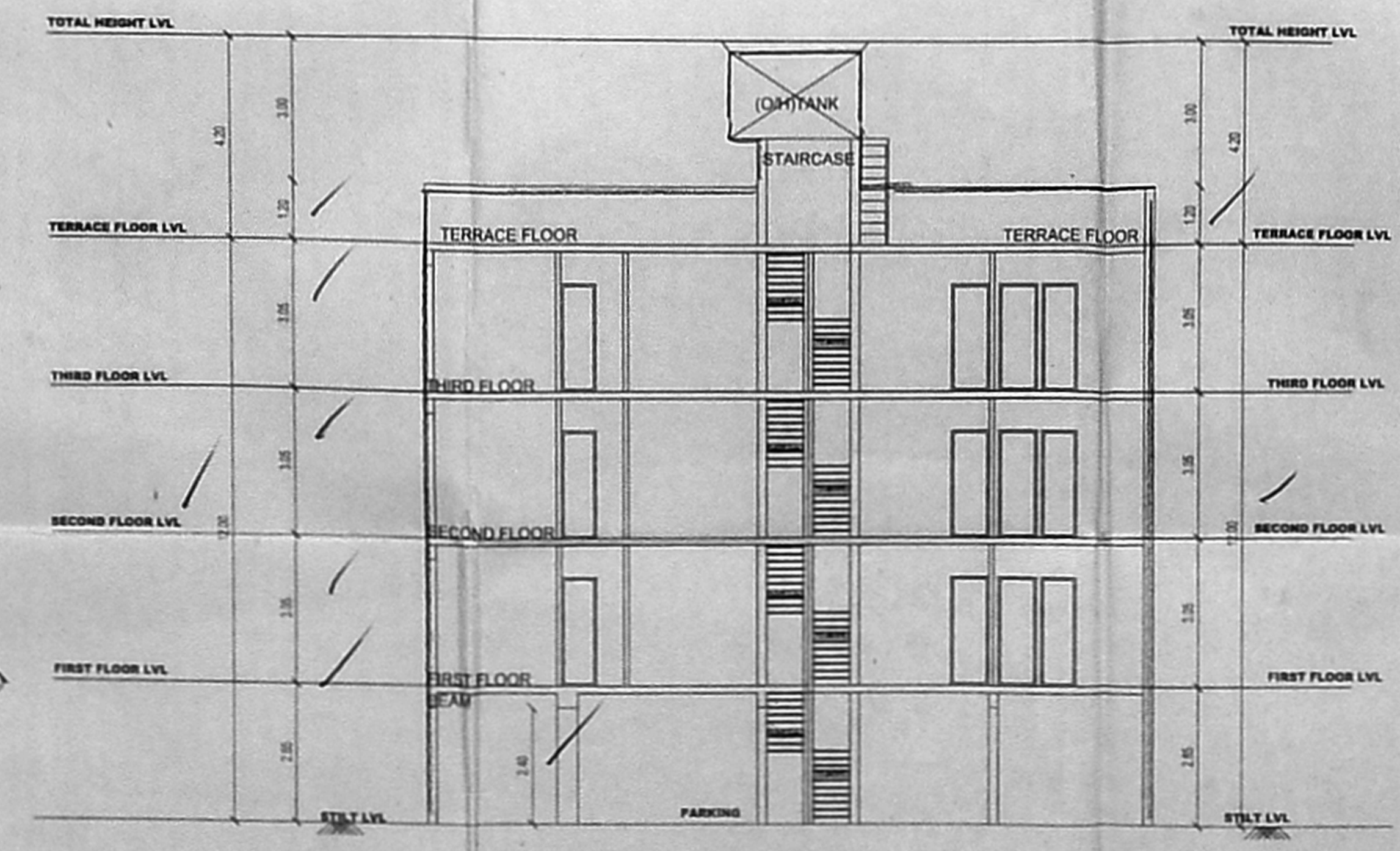
TERRACE FLOOR PLAN



THIRD FLOOR PLAN



FRONT ELEVATION



SECTION A - A

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- COLOR INDEX: ROAD, SITE, PROPOSAL

SCALE: 1 IN 100 (1" = 8'-0")

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For MANAGER COMMUNICATION PVT LTD
Director

STRUCTURAL ENGINEER:

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No. P/E / 011-01 / 19 / 02 / 009
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