

PLAN SHOWING THE PROPOSED CONSTRUCTION OF THE RESIDENTIAL BUILDING AT  
 PLOT NO: 5/ 1 & 5/ 2, 5TH MAIN ROAD  
 BHĒL NAGAR, MEDAVAKKAM, CHENNAI-600100  
 COMPRISED IN S.NO: 256/ 6A & 256/ 6B OF MEDAVAKKAM VILLAGE, SHOLINGANALLUR TALUK, KANCHIPURAM DISTRICT, ST.THOMAS MOUNT PANCHAYAT UNION

செ.செ.வ.சு.(பி) எண்  
 ந. எண்: 82/218/2019  
 உதவியாளர்  
 கவர்ந்தாய்வு  
 தி.உ. 10/10/2019

JDNERY DETAILS

MD	DOOR	1.00 x 2.10
D	DOOR	1.20 x 2.10
D1	DOOR	0.90 x 2.10
D2	DOOR	0.76 x 2.10
O	OPENING	0.90 x 2.10
DW	DOOR/WINDOW	1.20 x 2.10
W3	WINDOW	1.07 x 1.20
W4	WINDOW	0.55 x 1.20
W5	WINDOW	1.50 x 1.20
V	VENTILIATOR	0.60 x 0.60
RS	ROLLING SHUTTER	3.00 x 2.10

SPECIFICATION :

- BRICK WORK : SUPER STRUCTURE WITH MAIN WALL USING CM 1:5 MORTAR PARAPET WALL CM 1:4 MORTAR.
- WOOD WORK : MAIN DOOR TEAK, AND OTHER DOORS KONGU WOOD
- RCC WORK : MINIMUM GRADE OF CONCRETE M25 (1:1:2)
- FLOORING : ALL ROOM CERAMICS TILES FLOORING.
- PLASTERING WORK : PLASTERING WORK IN C.M. 1:4.
- WEATHERING COURSE : WEATHERING COURSE IN BRICK JELLY CONCRETE IN C.M. WITH TWO COURSES OF FLAT TILES LAID TO DETAIL.

AREA DETAILS

S.NO.	PLOT AREA DETAILS IN SQ.M
1	AS PER PATTI 700.00 sq.m
2	AS PER DOC. 674.38 sq.m

FSI AREA DETAILS IN SQ.M

S.NO.	FLOOR	F.S.I AREA
1	STILT FLOOR	28.68
2	FIRST FLOOR	320.83
3	SECOND FLOOR	320.83
4	THIRD FLOOR	320.83
5	FOURTH FLOOR	320.83
6	TOTAL	1312.00
7	F.S.I	1.945

COLOR INDEX

PROPOSED [Symbol] ROAD [Symbol] BOUNDARY [Symbol]

SCALE 1: 100  
 REF : PWD NOC Obtained Vide Letter no: DB/TS(3)/F-NOC-007830-Medavakkam/2019, Dated : 23.09.2019

M. Marudbal  
 M. Shanmugapriya

OWNER

M. S. NANDA KUMAR  
 CMAA Regn. No. RA/Gr.1/19/02/015  
 nunesquares@gmail.com

LICENSED SURVEYOR

G. SELVAM, M.E(STRUCT), AMIE, FIV.,  
 Registered Structural Engineer  
 Reg. No: SE/GR-1/19/04/079  
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 Karayan Chavadi, Poonamallee,  
 Chennai - 56. Mob: 9940271970

STRUCTURAL ENGINEER

Septic Tank With Up Flow Filter Calculation For Residential Apartment

No. of Flats : 12 Nos.  
 No. of users : 40 Nos.  
 Total No. of users : 40 Nos.  
 assume a standard users : 25 Nos.  
 Total no. of fixture units assume a peaking factor of 6 lpm/fixture unit : 25 x 6 liters = 150 liter per minutes

SEPTIC TANK

Surface area required for the septic tank :  $150 \times 0.92 = 13.8$  sq.m Say 14 sq.m

Volume of free board :  $14.00 \times 0.30m = 4.2$  cu.m  
 Volume of sedimentation :  $14.00 \times 0.30m = 4.2$  cu.m  
 Volume of digestion :  $40 \times 0.033 = 1.32$  cu.m  
 Volume of sludge :  $40 \times 365 \times 0.0002 = 4.38$  cu.m  
 Total volume : 14.76 cu.m

Depth of septic tank : 1.47m  
 Surface area : 14.00

intel pipe invert level assuming a Gradient of 1 in 8 starting from first chamber : 0.61m

Total Liquid Depth : 1.05m + 0.61m

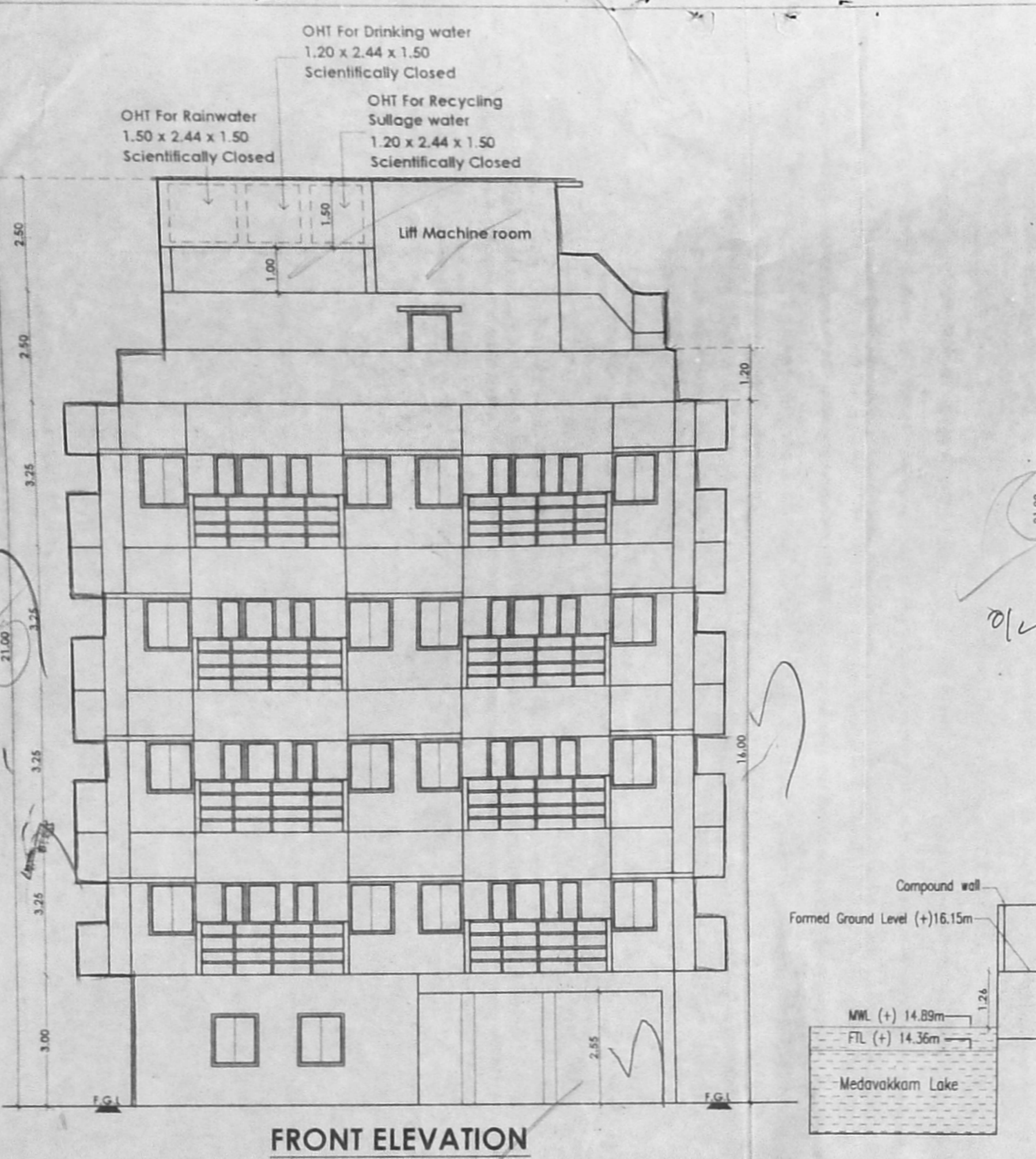
Required size of septic tank : 3.50m x 4.00m x 2.59m

UPFLOW FILTERS

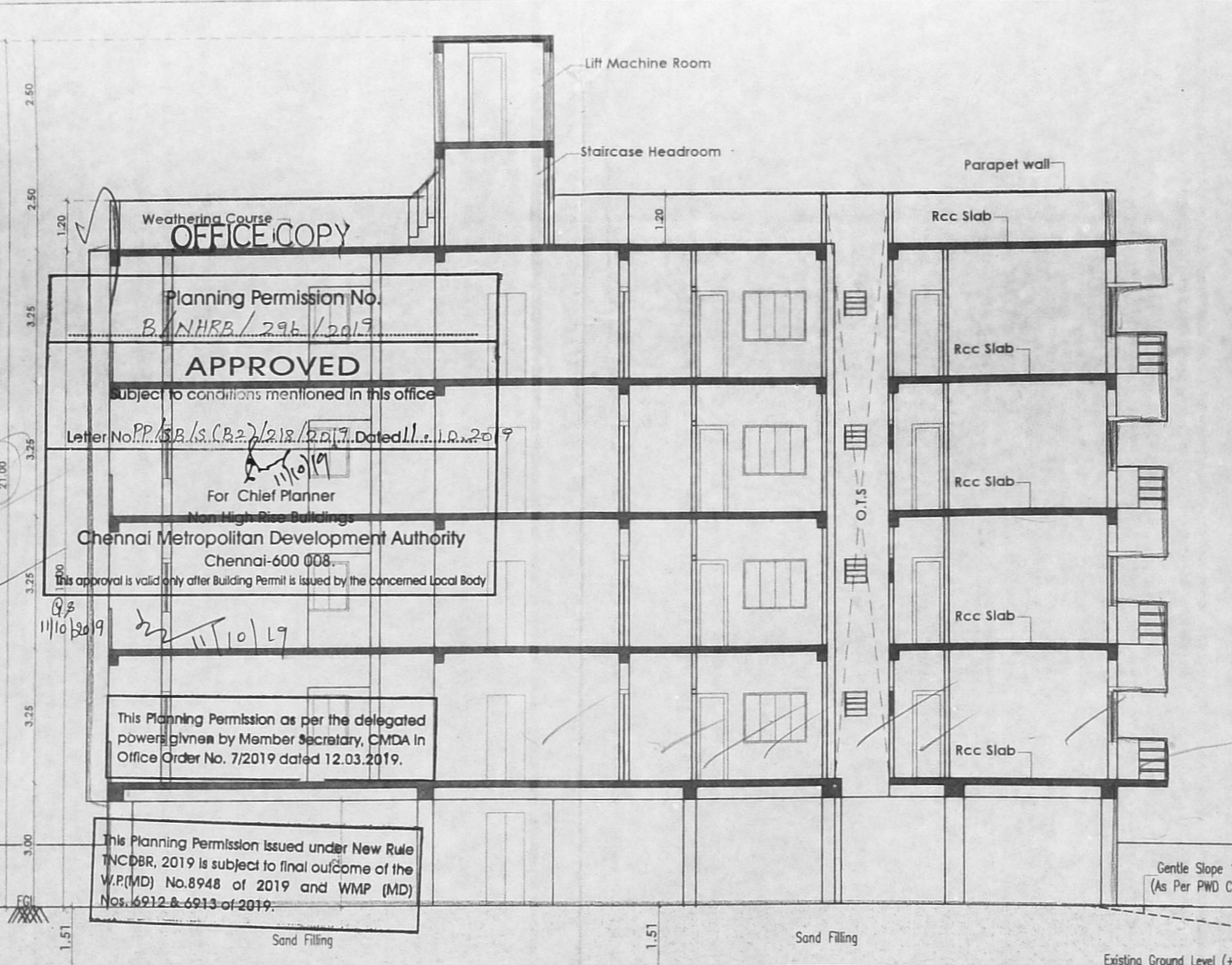
Capacity for 60 users :  $60 \times 0.045 = 2.70$  cu.m  
 Depth (assumed) : 0.8 (minimum)

Hence area of final effluent sump :  $2.70 = 3.37$  sq.m

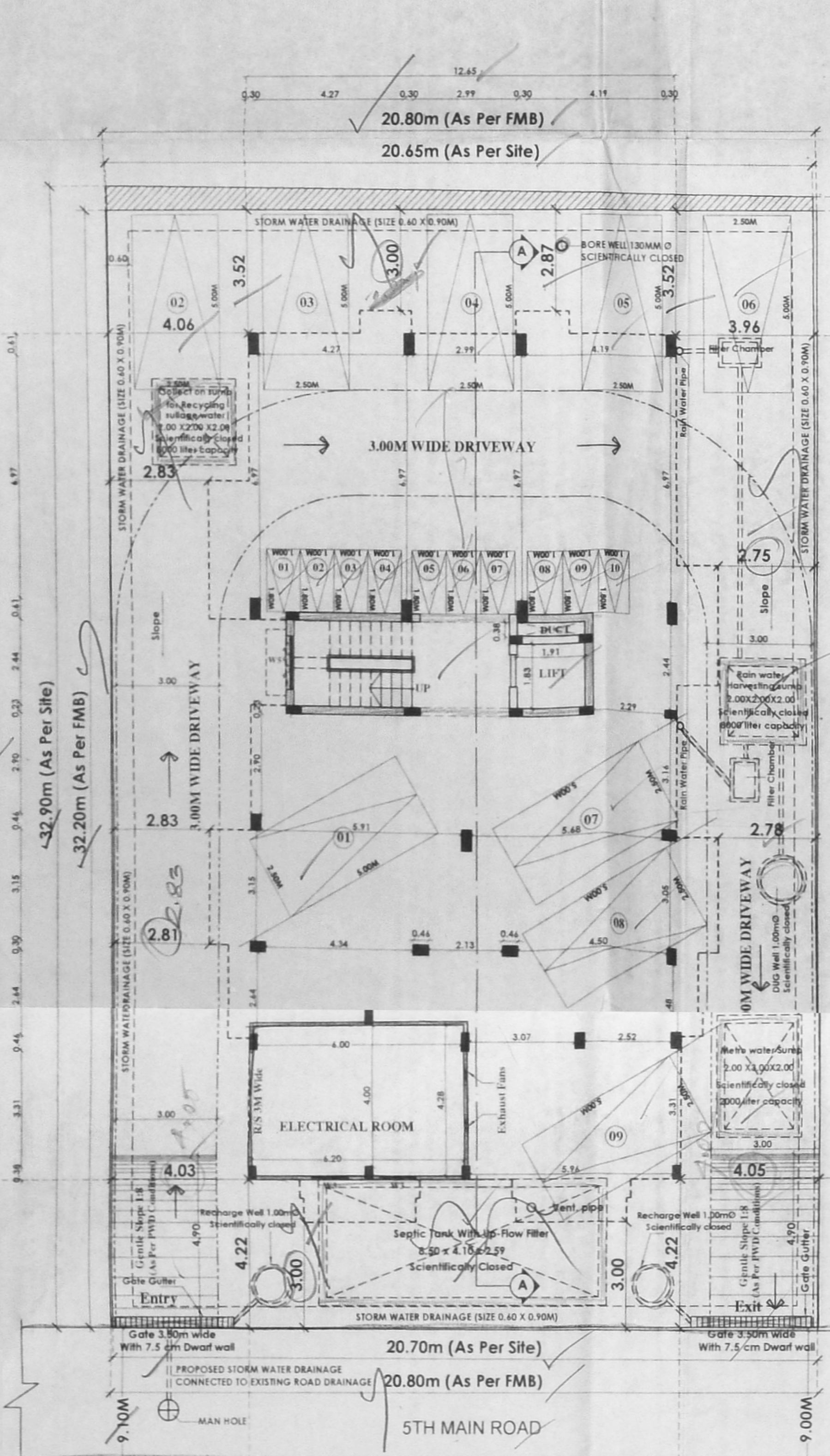
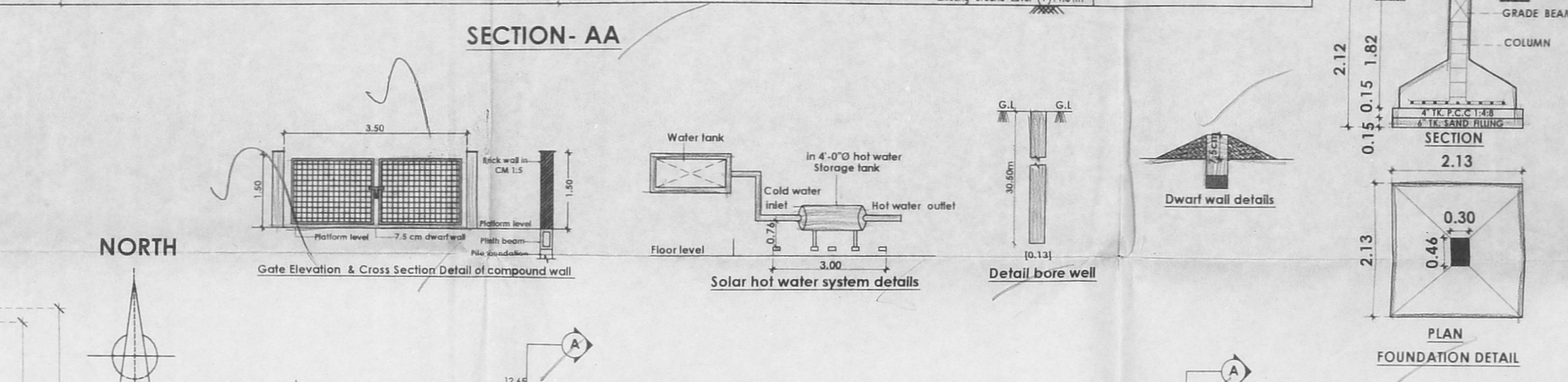
Size of final effluent sump :  $3.50 \times 1.00 \times 0.80m$   
 Size of up flow filter (1) :  $3.50 \times 1.00 \times 0.75m$   
 Size of up flow filter (2) :  $3.50 \times 1.00 \times 0.65m$



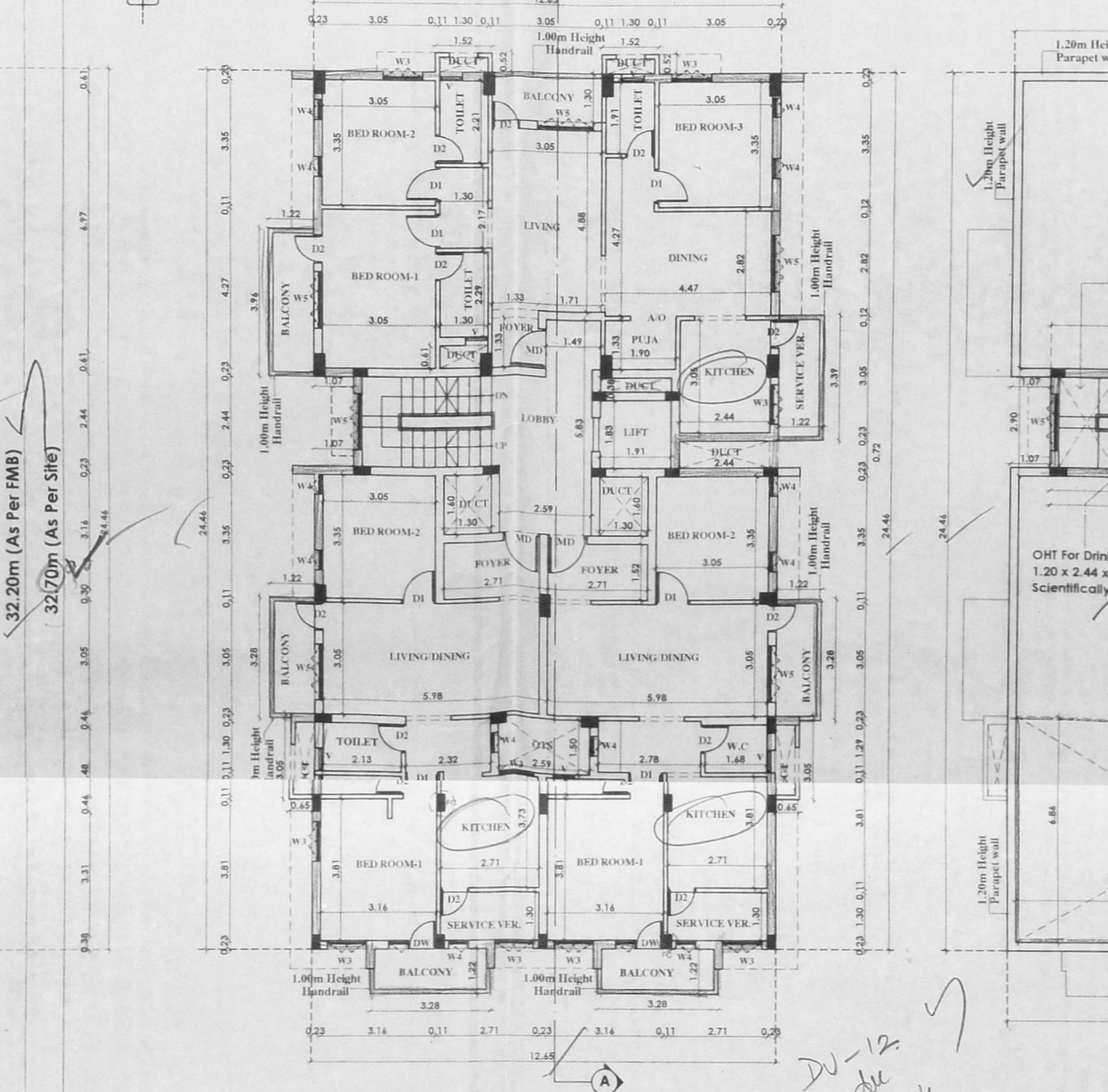
FRONT ELEVATION



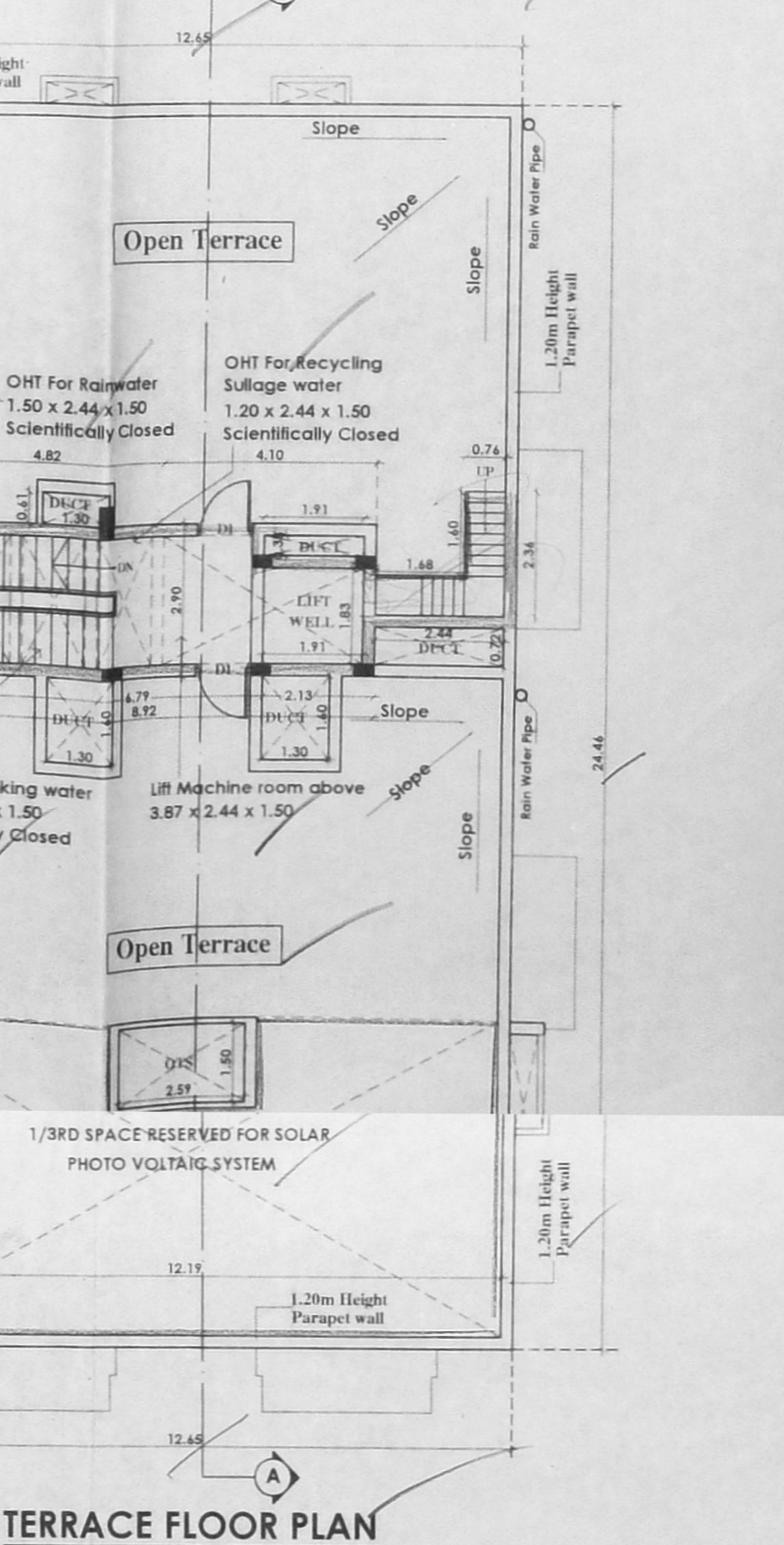
SECTION-AA



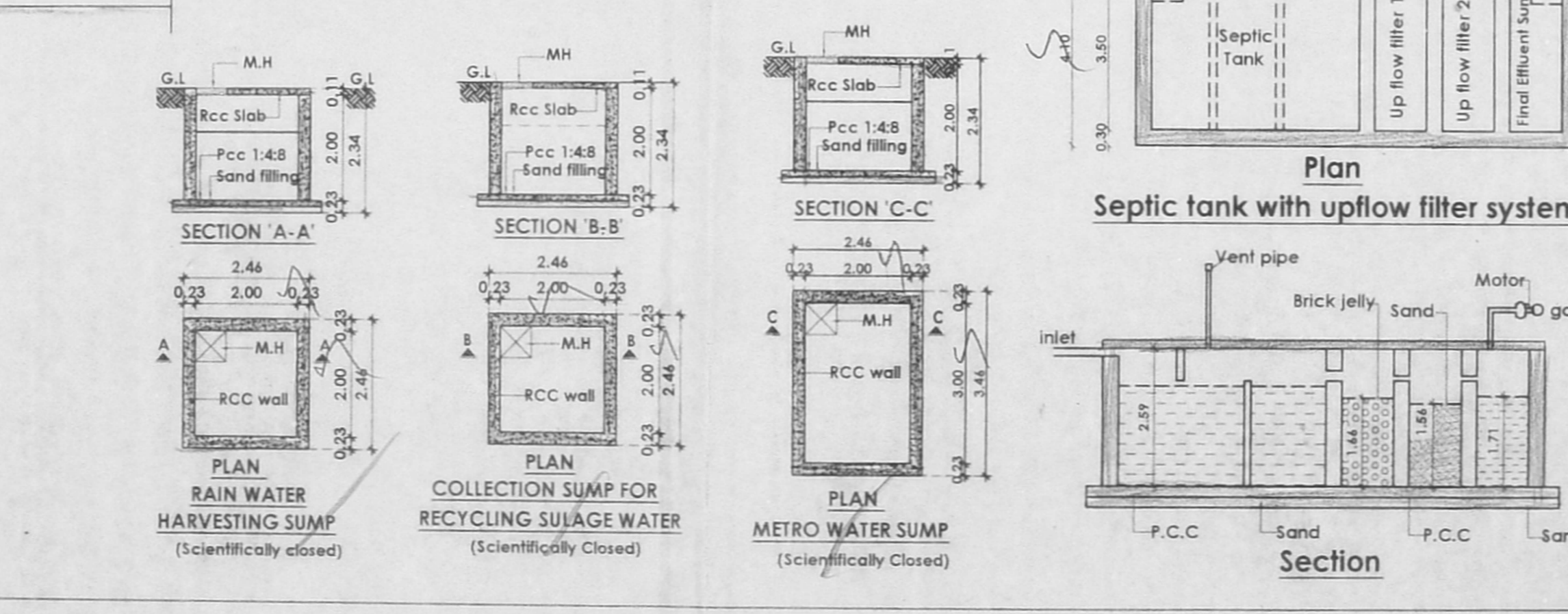
SITE CUM STILT FLOOR PLAN



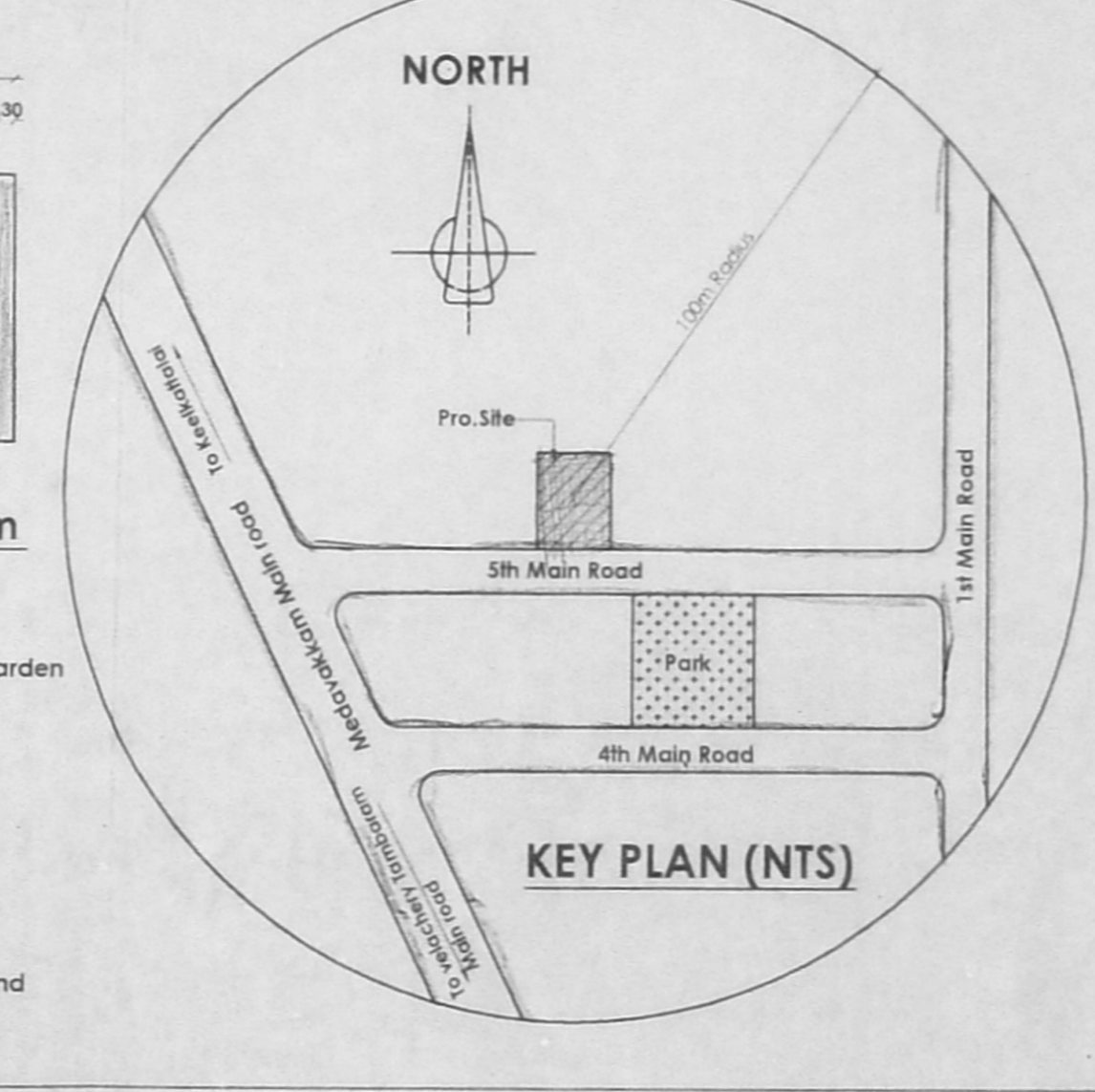
TYPICAL 1ST,2ND,3RD & 4TH FLOOR PLAN



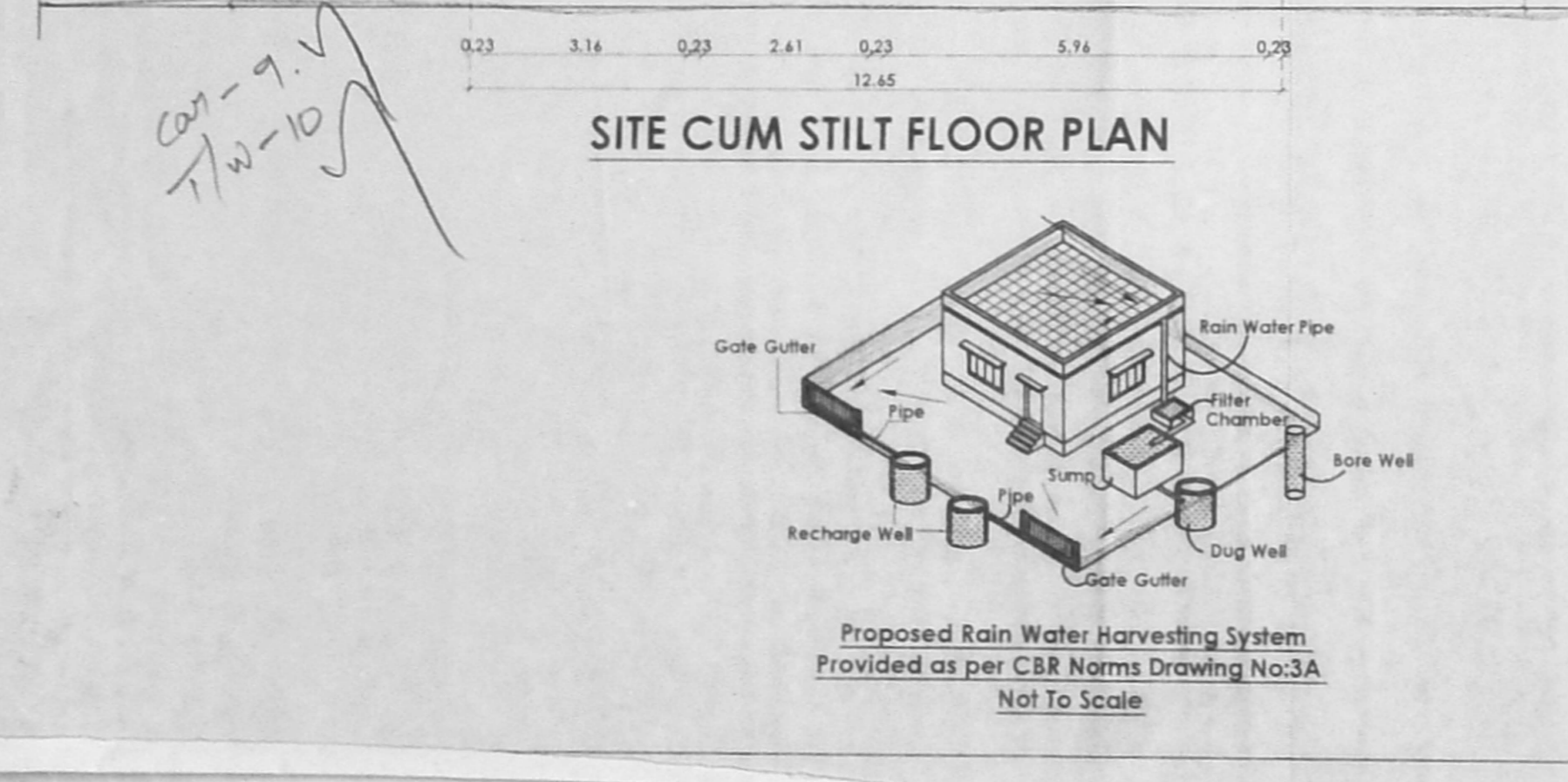
TERRACE FLOOR PLAN



Plan Septic tank with upflow filter system



KEY PLAN (NTS)



Proposed Rain Water Harvesting System Provided as per CB&R Norms Drawing No:3A Not To Scale