

DESIGN OF SEPTIC TANK WITH UPFLOW FILTER FOR 15 DWELLINGS

NO. OF FLATS OR DWELLINGS > 03 + (Commercial)
 ASSUMING 5 PERSONS FOR FLATS > 15X5=75
 NO. OF PERSONS > 75
 NO. OF USERS ASSUMING > 75X2=150 UNITS.
 2 FIXTURES PER FLAT > 150X2=300 LPM.
 PER HOUR DISCHARGE > 150X2=300 LPM.

SEPTIC TANK
 SURFACE AREA NEEDED > 900X3.50/10 = 82.80 SAY 9.00M

VOLUME OF SEDIMENTATION
 ASSUMING 0.30M DEPTH FOR DIGESTION
 900.3M x 3.50M x 0.30M = 1135.50 M³
 FOR SLUDGE STORAGE
 0.002X300X5X75 = 5.47M³
 FREE BOARD FOR SLUDGE
 5X0.3M = 1.50M³

DEPTH = $\frac{VOLUME}{AREA} = \frac{1135.50}{900 \times 3.50} = 0.36M$

SIZE OF SEPTIC TANK 8.50X3.00X2.00

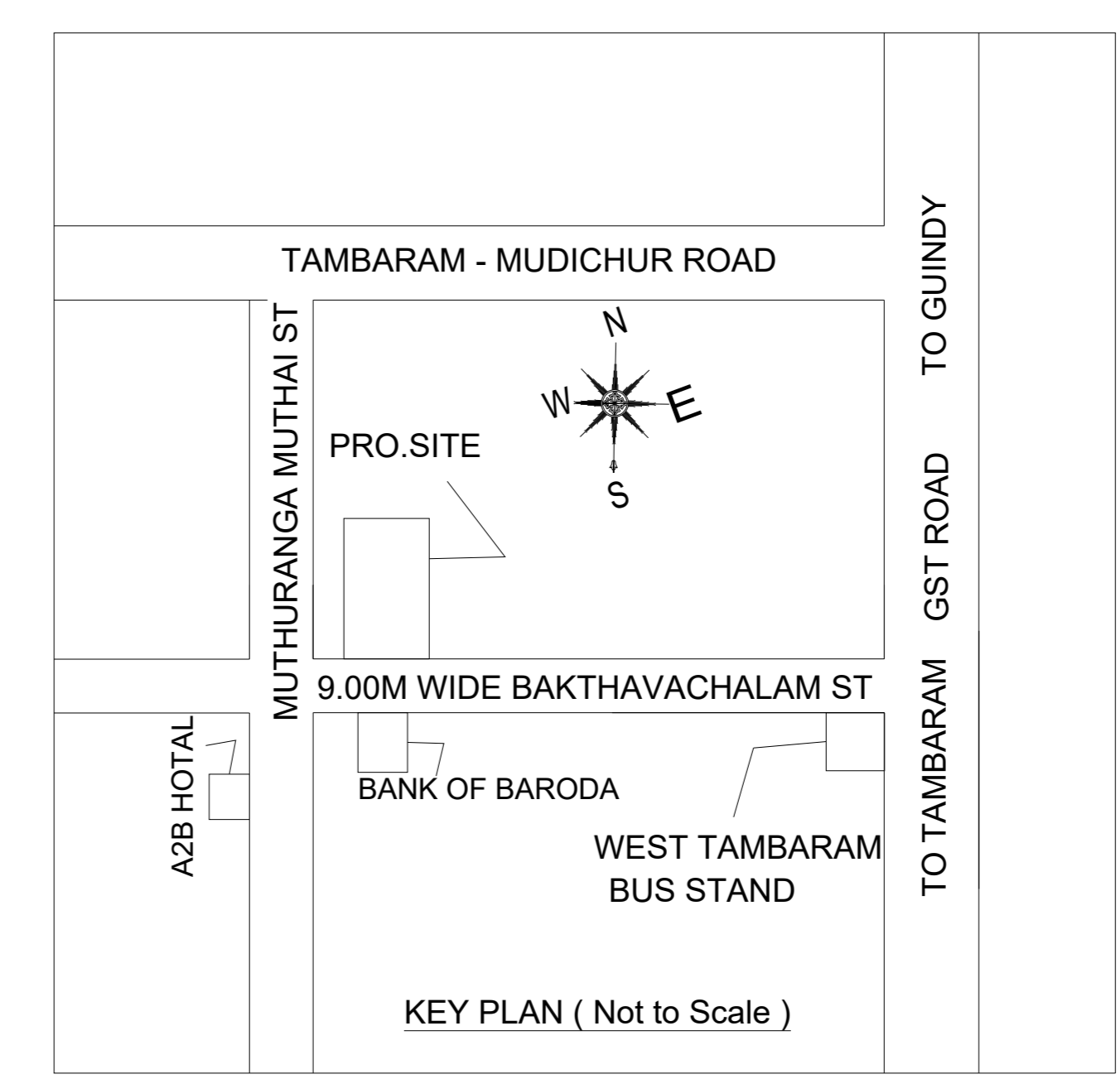
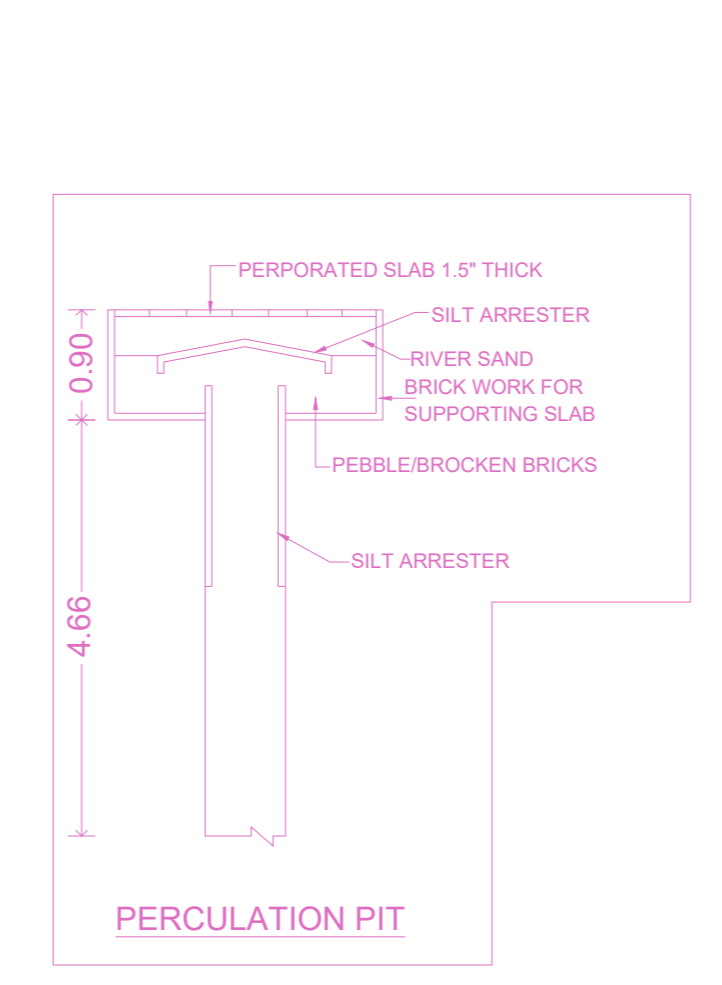
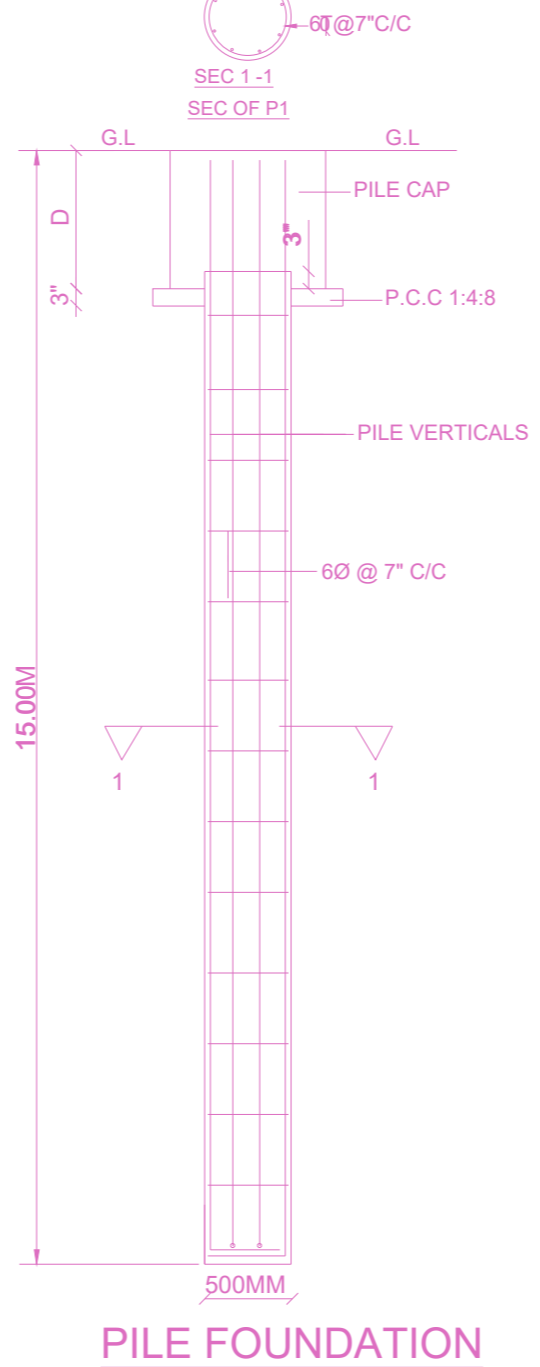
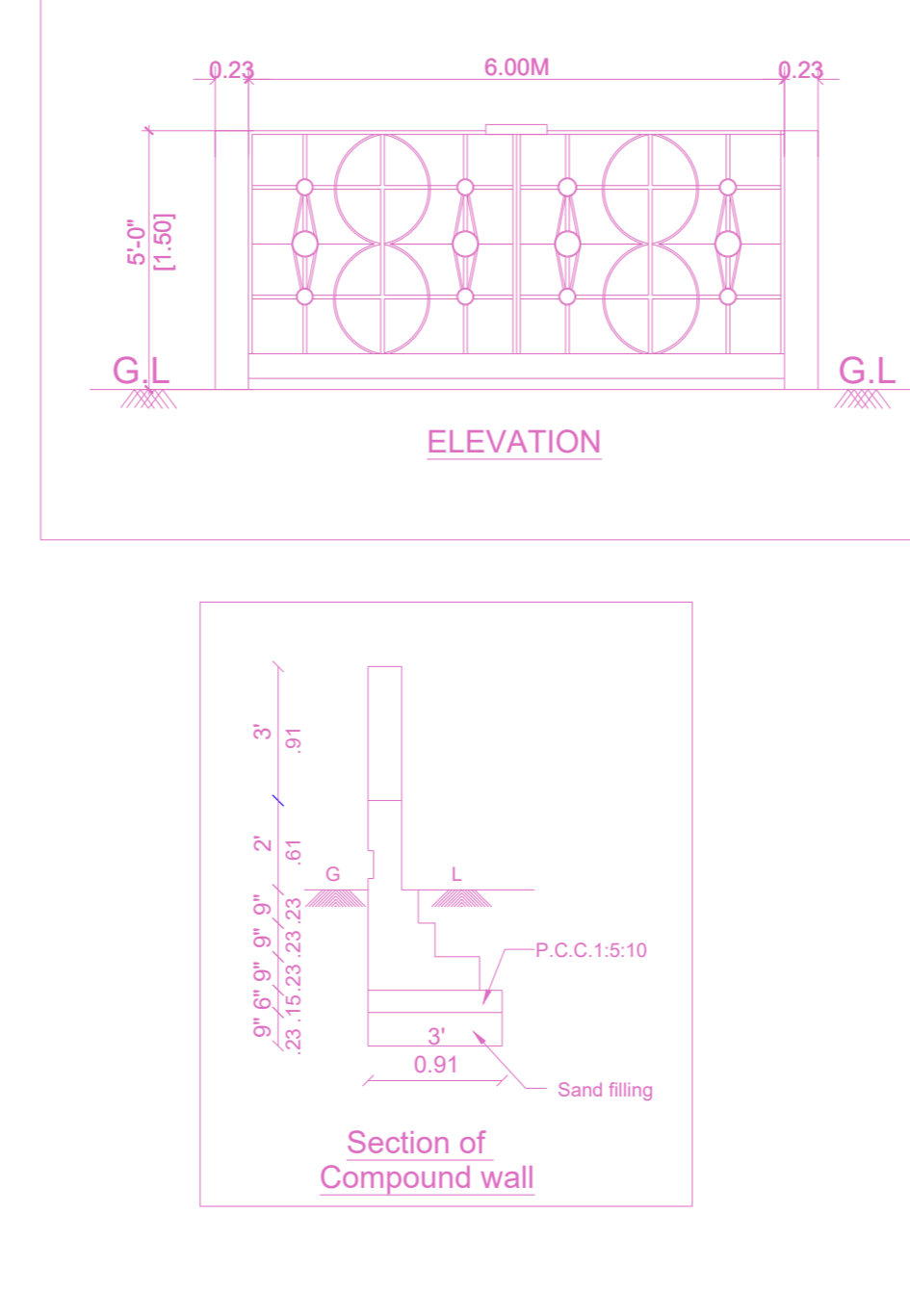
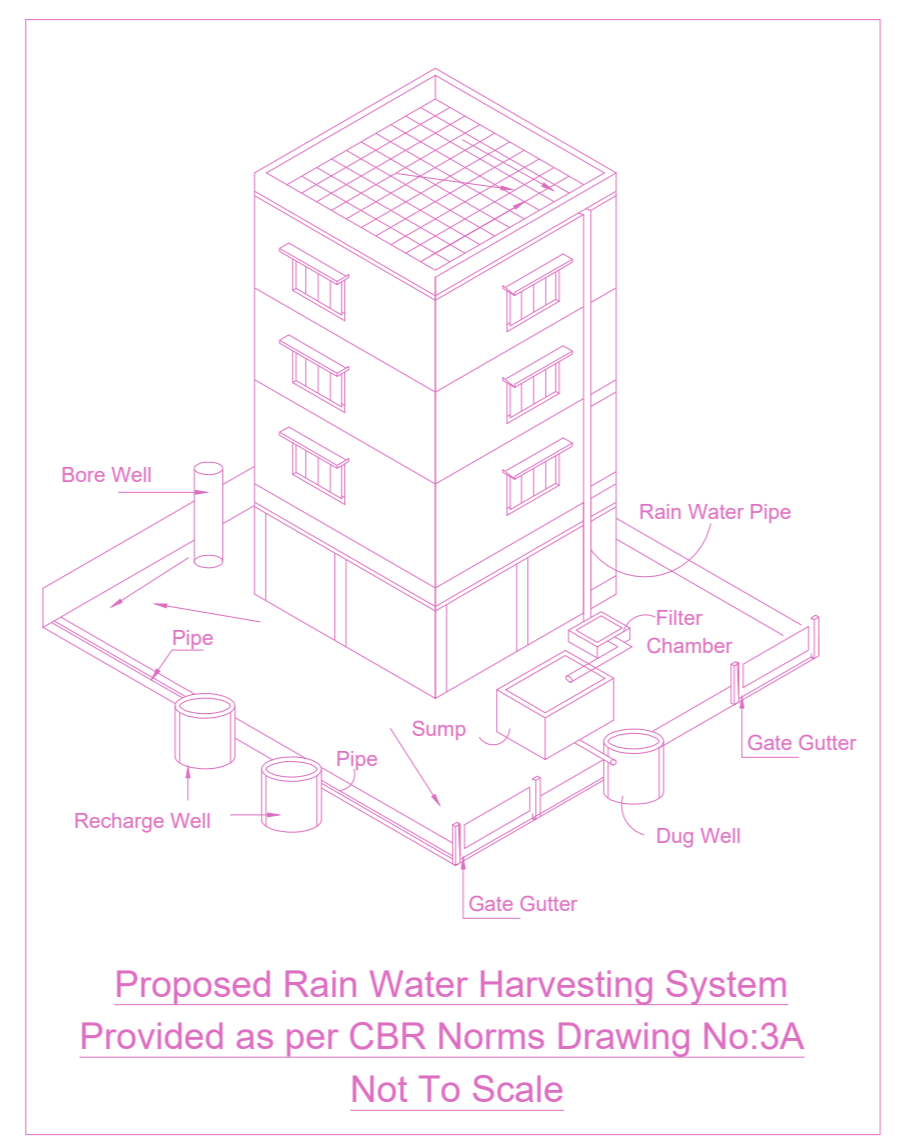
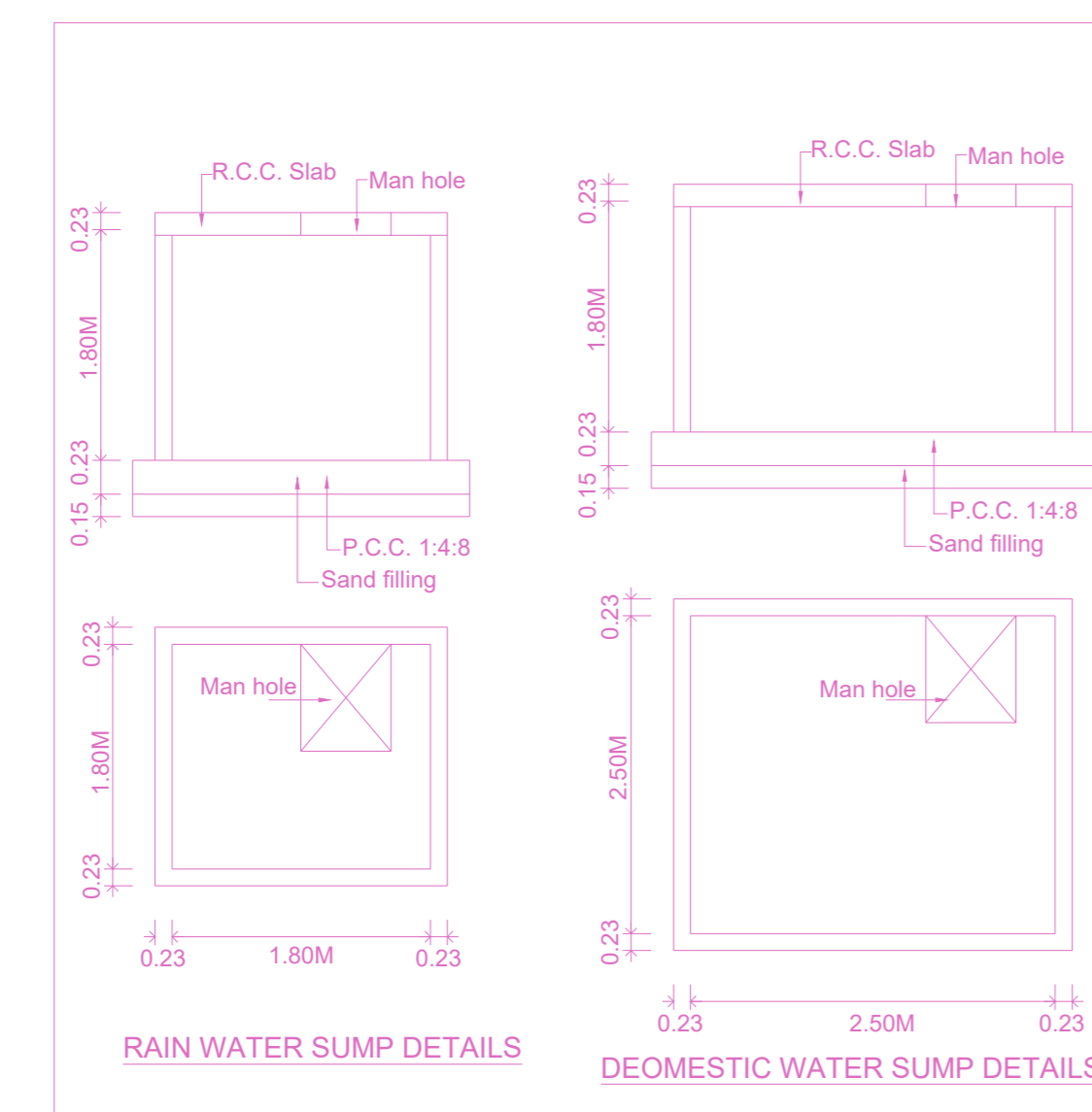
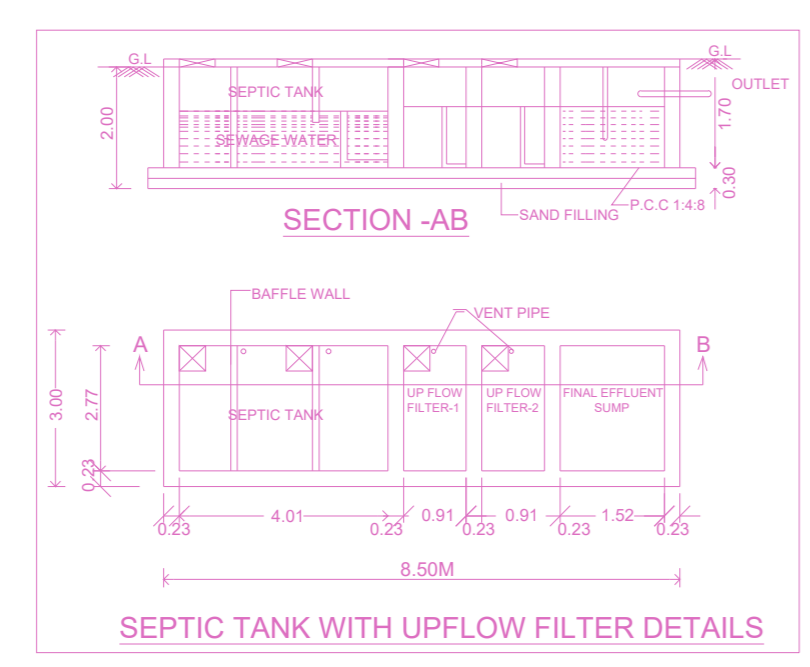
UPFLOW FILTER
 LIQUID DEPTH OF SEPTIC TANK = 1.70M

UPFLOW FILTER DEPTH
 ALLOWING 0.30M FREE BOARD 1.4 - 0.3 = 1.10M

AREA NEEDED = $\frac{1.10}{1.10} = 1.0M$

SIZE OF UPFLOW FILTER 1.50X1.50

UPFLOW NO-1 = 0.91X1.50X1.30M
 UPFLOW NO-2 = 0.91X1.50X1.30M

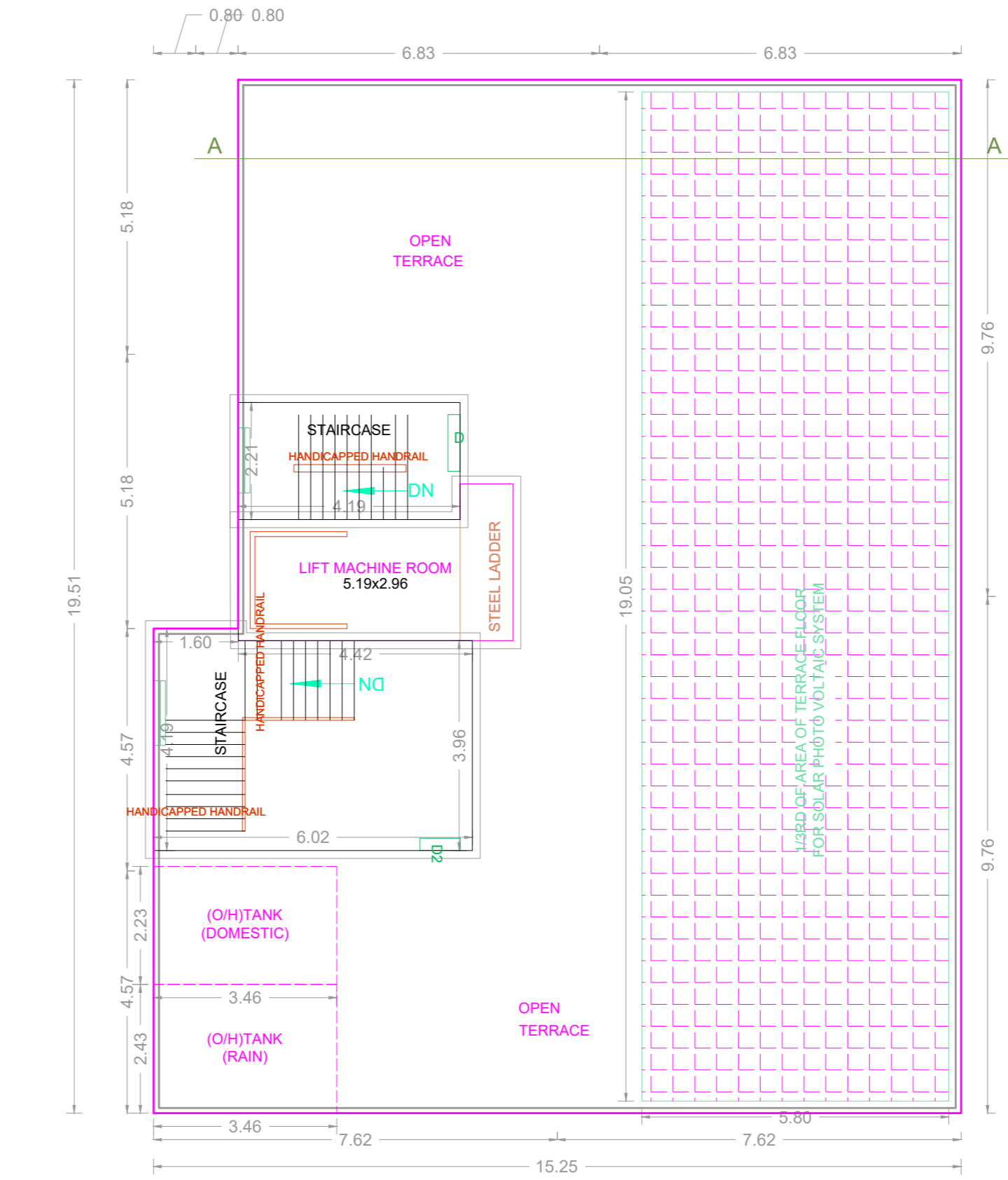
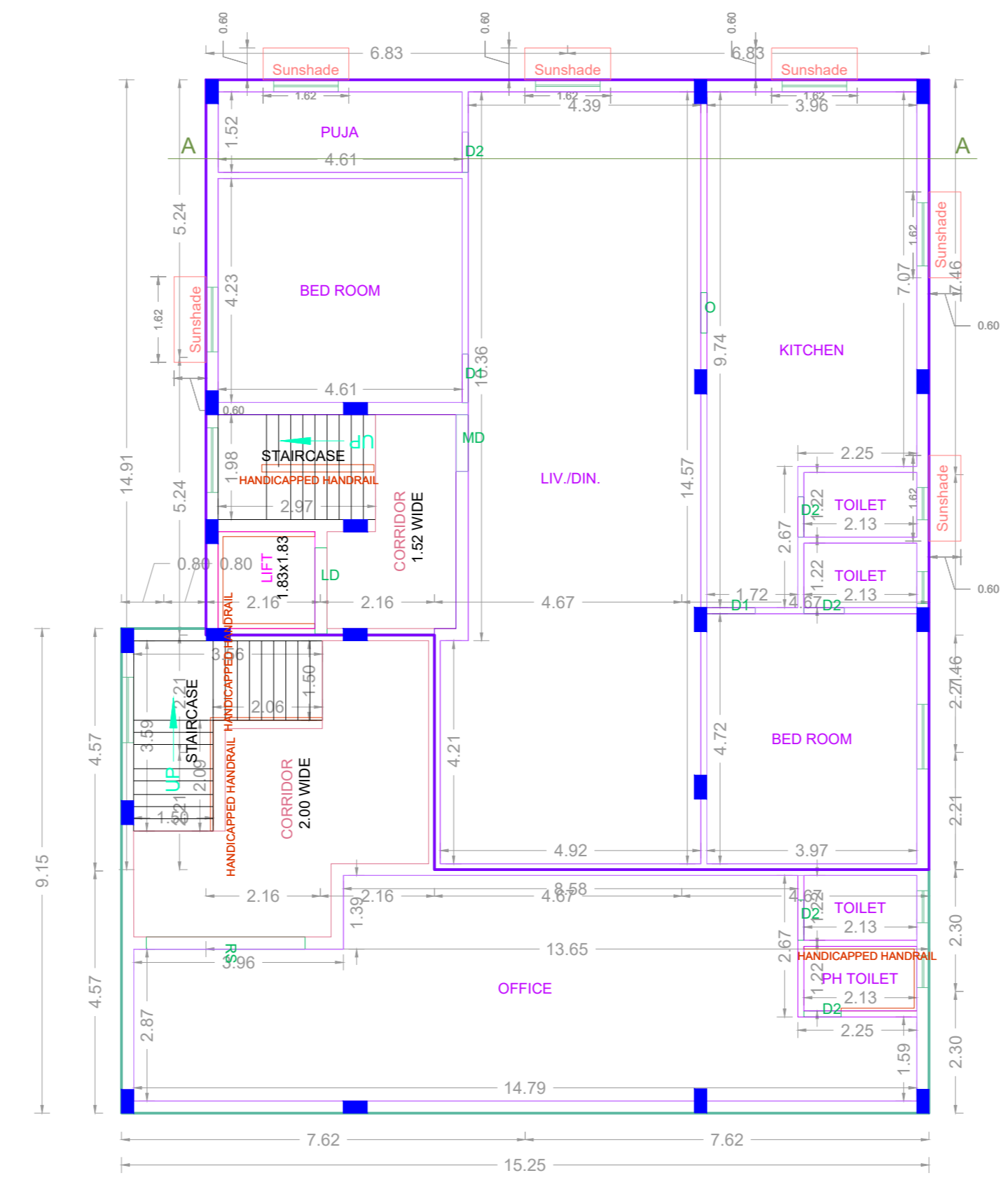
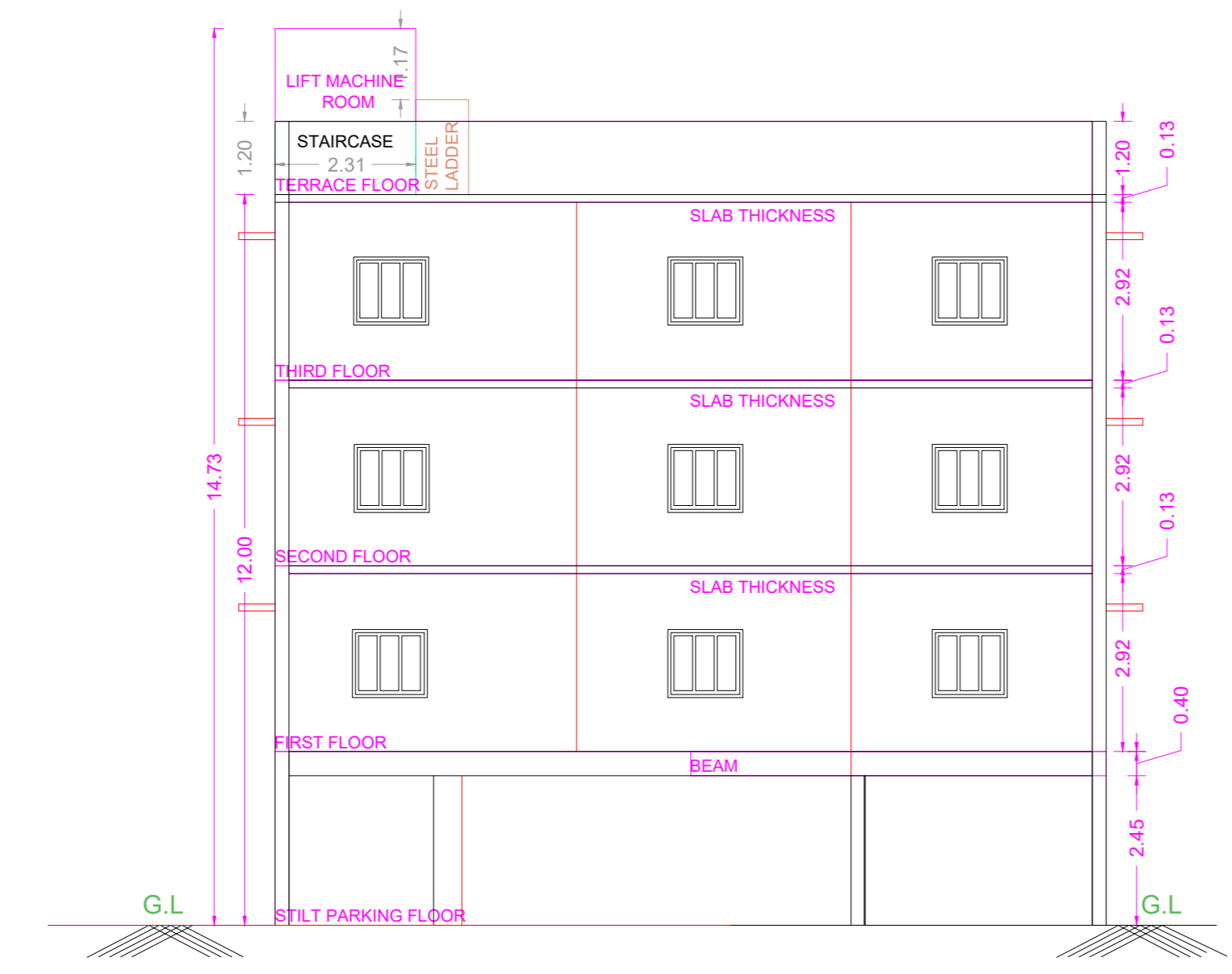
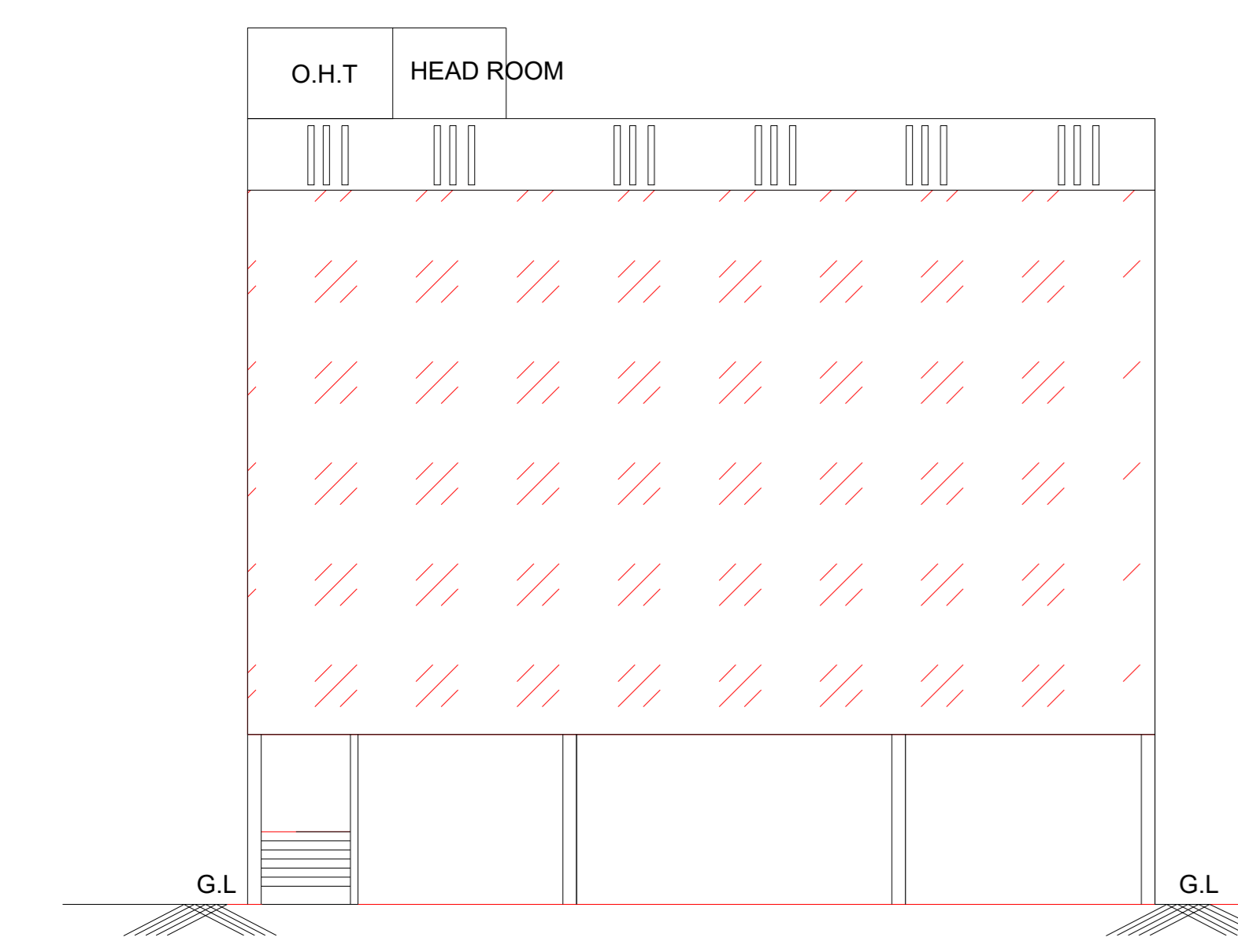


PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 3 FLOORS (12.00M HEIGHT) OFFICE cum RESIDENTIAL BUILDING WITH 3 DWELLING UNITS AT PLOT NO.150, NEW D.NO: 3, OLD D.NO: 2, BAKTHAVACHALAM STREET, TAMBARAM , CHENNAI IN S.NO: 313/2, T.S.NO: 81/1, BLOCK NO.9, WARD - C, TAMBARAM VILLAGE WITH THE LIMITS OF TAMBARAM MUNICIPALITY CORPORATION.

A) AREA STATEMENT	SQ.M.
AREA AS PER PATTA	424.00
AREA AS PER DOCUMENT	446.09
AREA CONSIDERED FOR FSI	424.00
STREET ALIGNMENT/ ROAD WIDENING/LINK ROAD	0.00
OSR AREA	0.00
TOTAL FSI AREA	842.88
FSI FACTOR	1.988
COVERAGE AREA (PERCENTAGE %)	NA

B) PARKING STATEMENT

VEHICLE	REQUIRED	PROVIDED
LORRY	0	0
CAR	10	10
TWO WHEELER	10	12
CYCLE	0	0

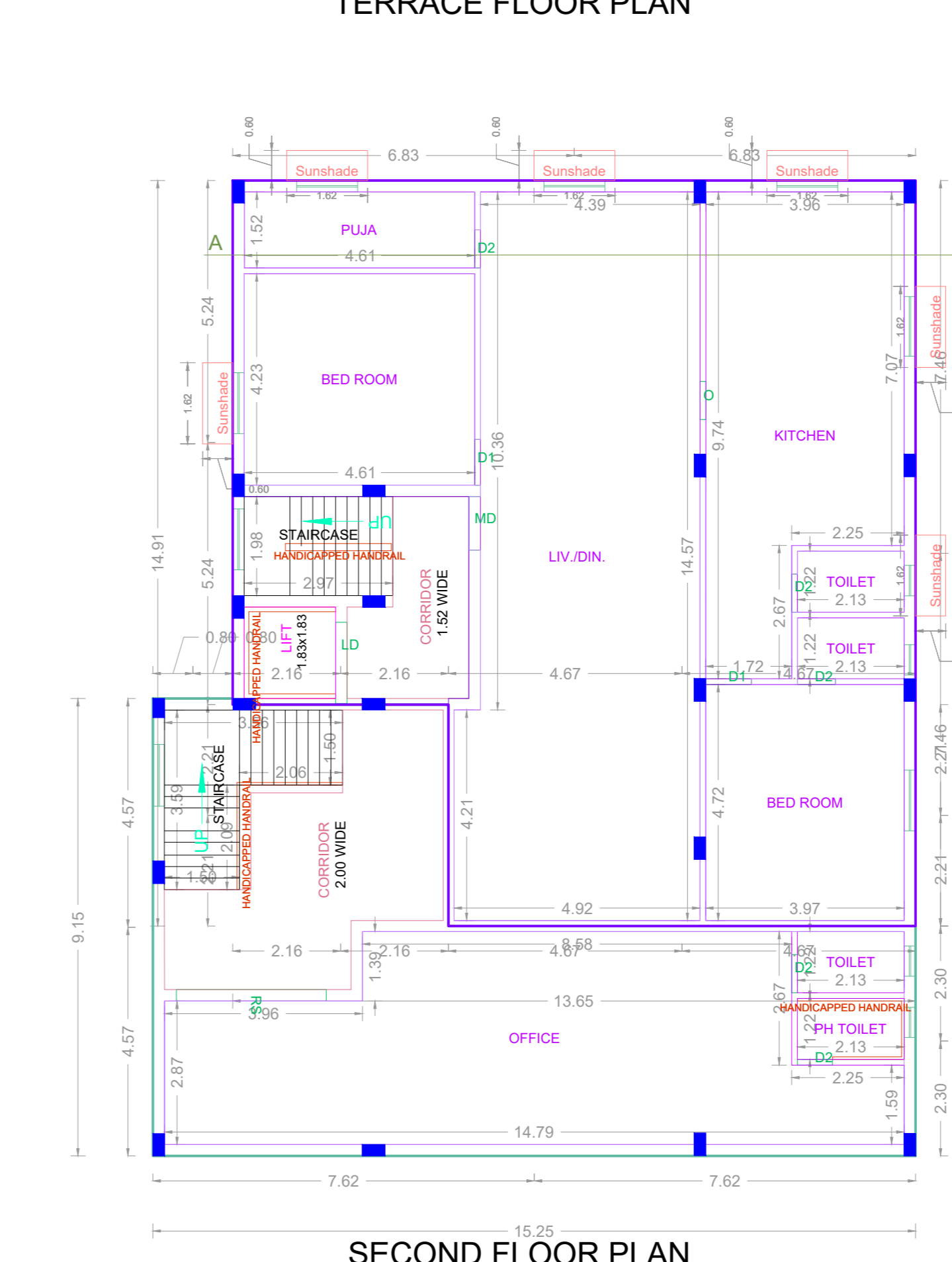
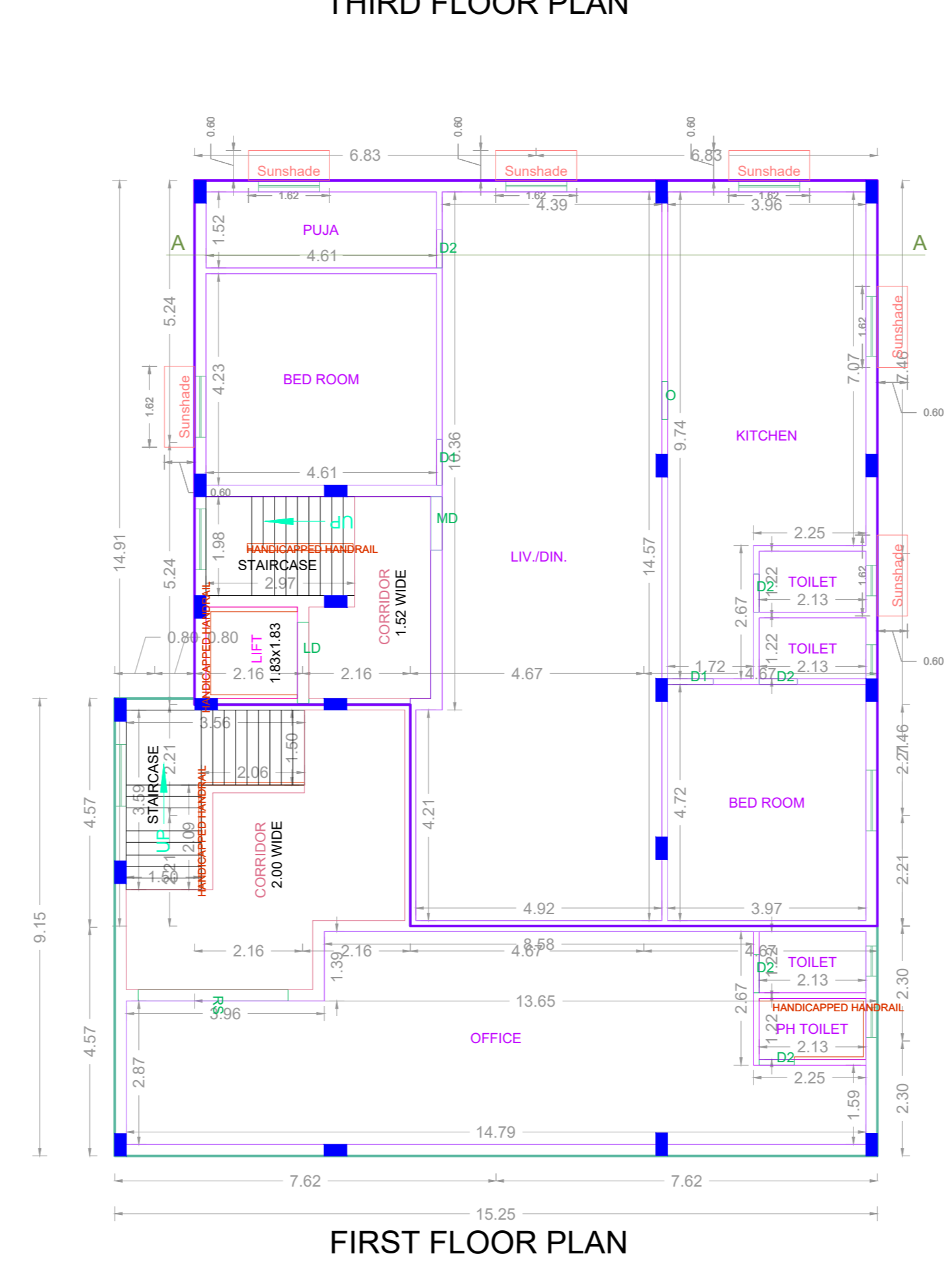
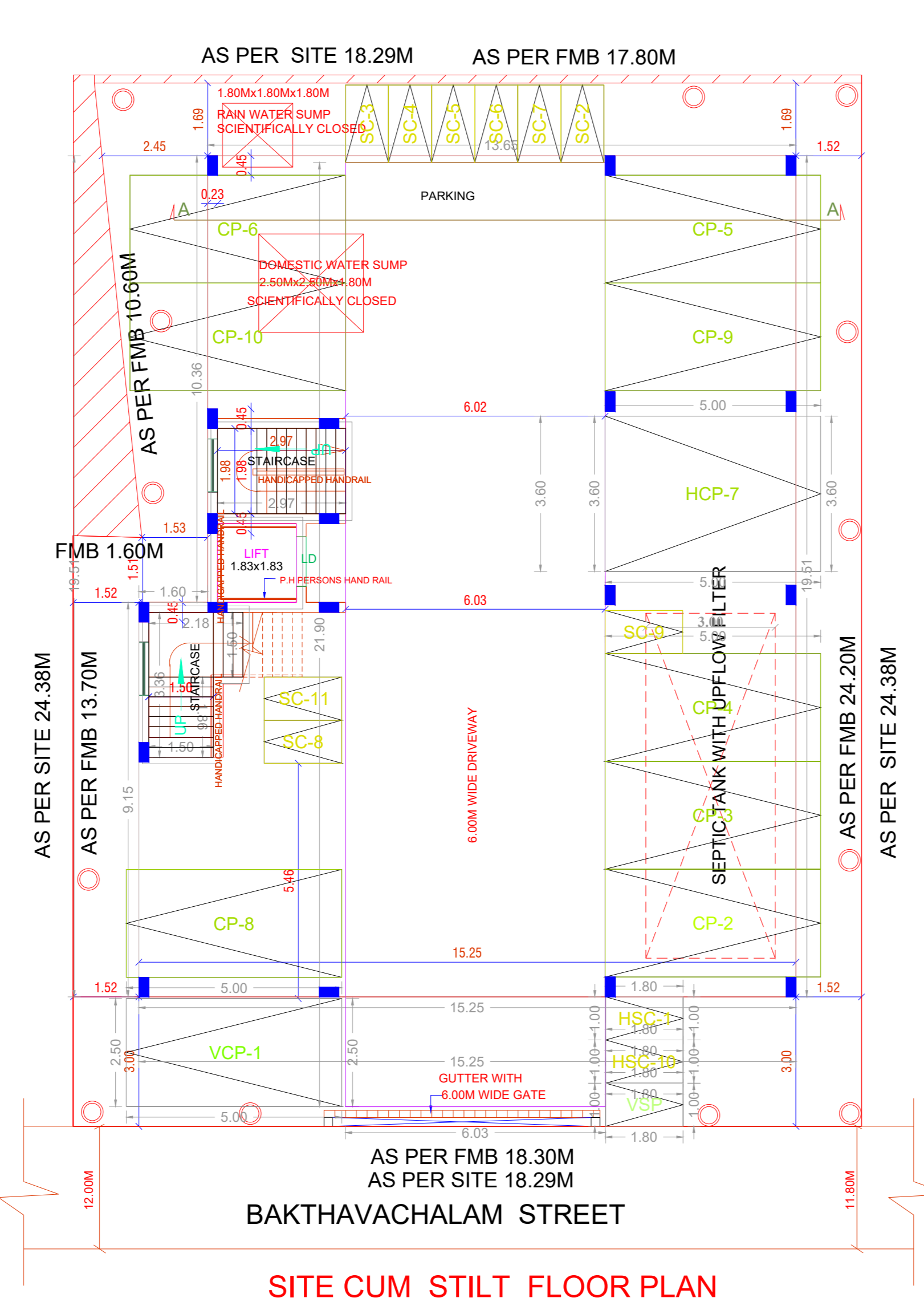
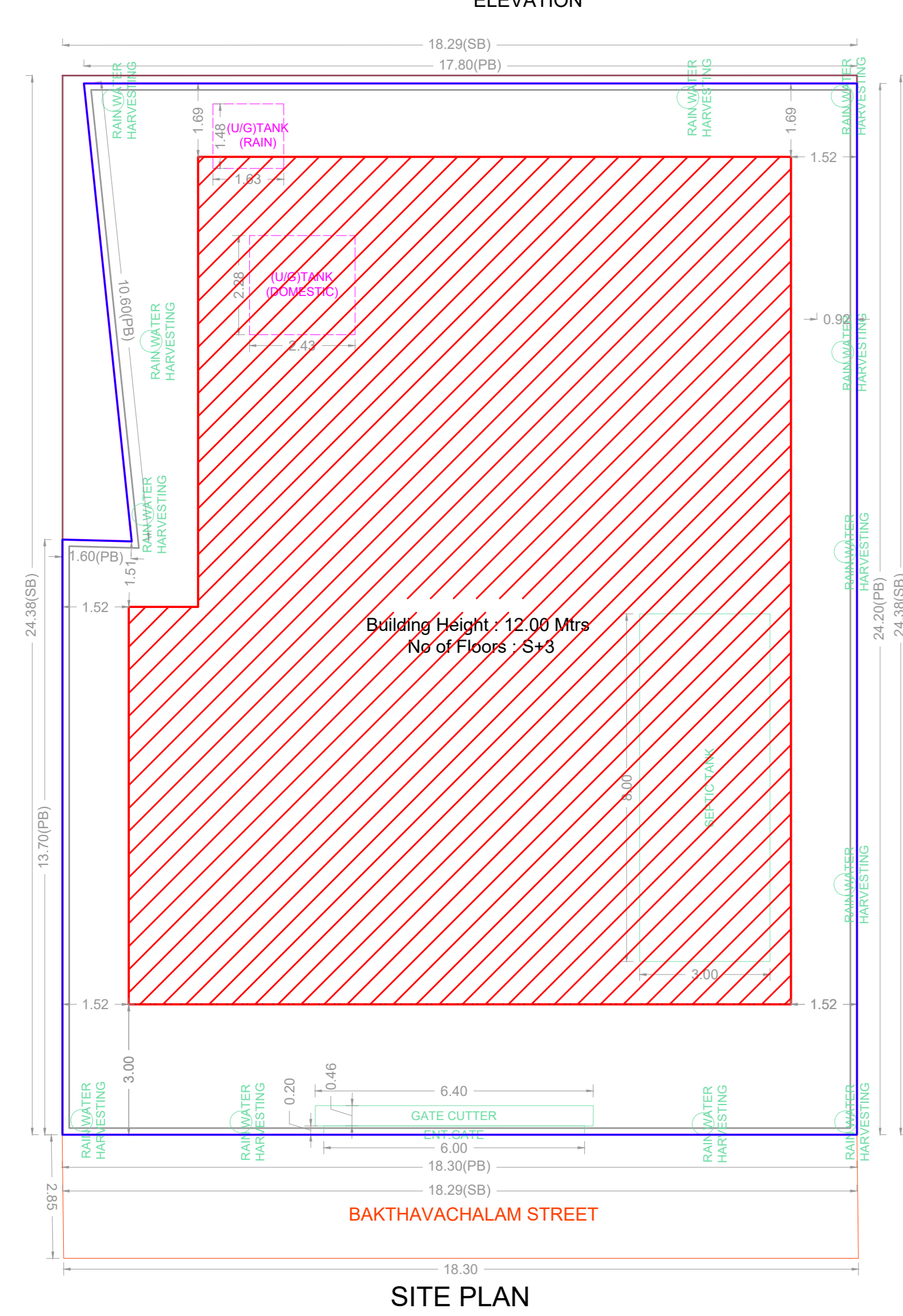


FLOOR WISE FSI STATEMENT: NHRB (RES COM)

FLOORS	FSI AREA				DU	TOTAL FSI AREA
	COMM.	RESI.	IND.	SPEC.		
Terrace	0.00	0.00	0.00	0.00	0	0.00
THIRD FLOOR	96.48	184.48	0.00	0.00	1	280.96
SECOND FLOOR	96.48	184.48	0.00	0.00	1	280.96
FIRST FLOOR	96.48	184.48	0.00	0.00	1	280.96
STILT PARKING FLOOR	0.00	0.00	0.00	0.00	0	0.00
Total	289.44	553.44	0.00	0.00	3	842.88

BUILDING WISE FSI STATEMENT

BUILDING	NO OF SAME BUILDING	FSI AREA				DU	TOTAL FSI AREA
		COMM.	RESI.	IND.	SPEC.		
NHRB-1 (RES...)	1	289.44	553.44	0.00	0.00	3	842.88
Total	1	289.44	553.44	0.00	0.00	3	842.88



APPROVAL CONDITION

SCALE 1:100

CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY

APPROVED

SUBJECT TO THE CONDITIONS MENTIONED IN THIS OFFICE

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APPLICANTS (Owner / Developer / Power of Attorney)

KEY NO. 1788

QR CODE

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