

DESIGN OF SEPTIC TANK WITH UPFLOW FILTER

COMMERCIAL FSI AREA = 1127.54 Sq.m

No of Users - 100
No. of fixtures - 24 Nos
Discharge Assumings King's Factor of 6LPM/No. = 24x6 = 144 LPM

Septic tank surface area = $144 \times \frac{0.92}{24} = 5.52$
Volume of free board = $5.52 \times 0.30 = 1.66$ Cu.m
Volume of digestion = $100 \times 0.032 = 3.20$ Cu.m
Volume of sludge = $100 \times 365 \times 0.0002 = 7.30$ Cu.m
Volume of sedimentation = $5.52 \times 0.3 = 1.66$ Cu.m
Total Volume = 19.34 Cu.m

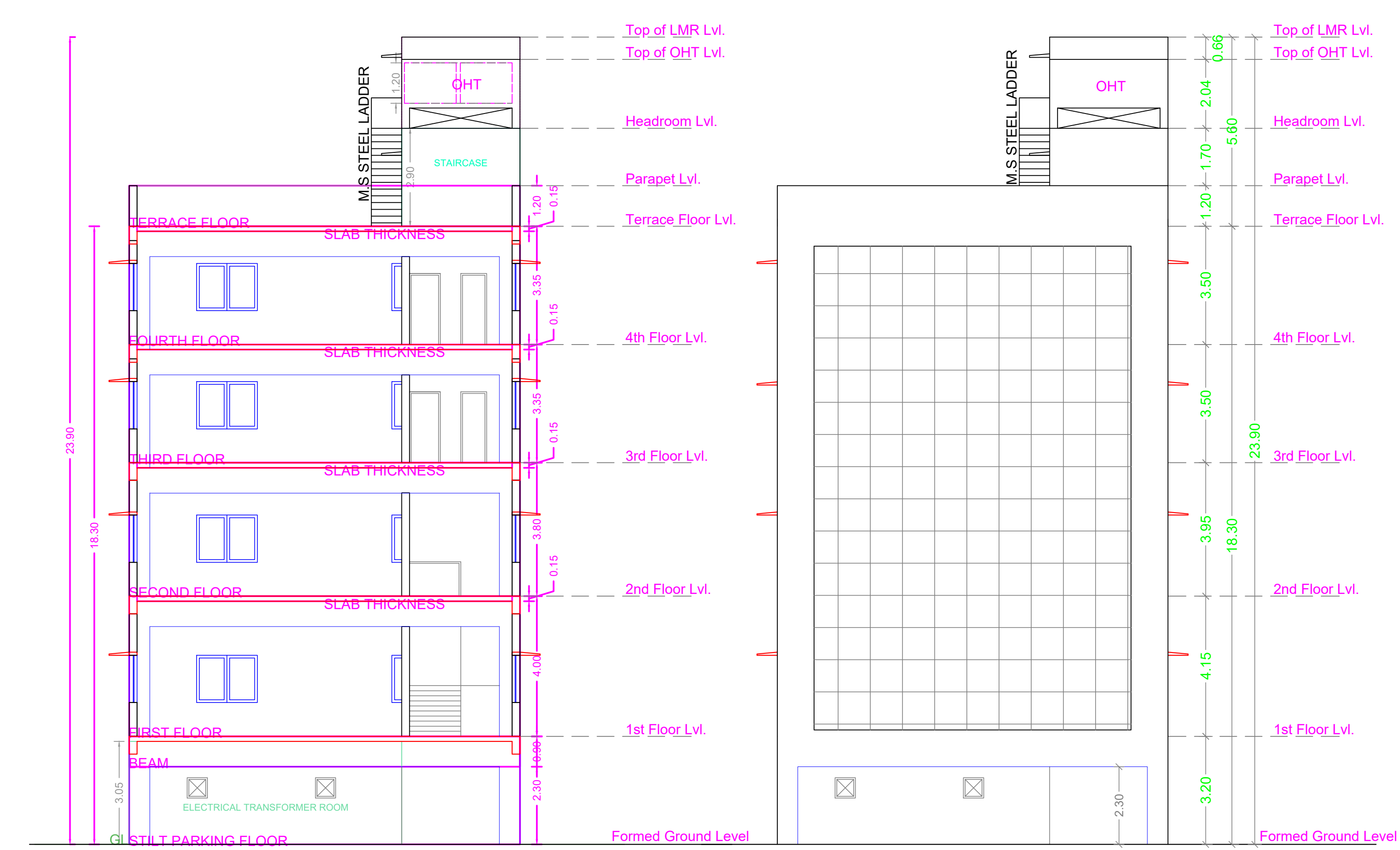
Depth of Septic Tank - 19.34/5.52 = 3.50 m
Size of Septic Tank - 2.00 m x 3.00 m x 3.50 m

UPFLOW FILTER
Upflow capacity required = $100 \times 0.04 = 4.00$ Cu.m
Depth Assumed = 2.40 m
Hence area of final effluent Surface required = 1.14 Sq.m
Size of final effluent collection sump Required = 1.00m x 3.00m x 3.50m

Peak Discharge - 60 LPM
Volume - $60 \times 0.043 = 2.58$
Depth - 2.75-0.30 = 2.45

Area required 2.58 = 1.05m x 2.45
Size of up flow filter I = 1.00m x 1.00m x 3.50m
Size of up flow filter II = 2.00m x 1.00m x 3.50m

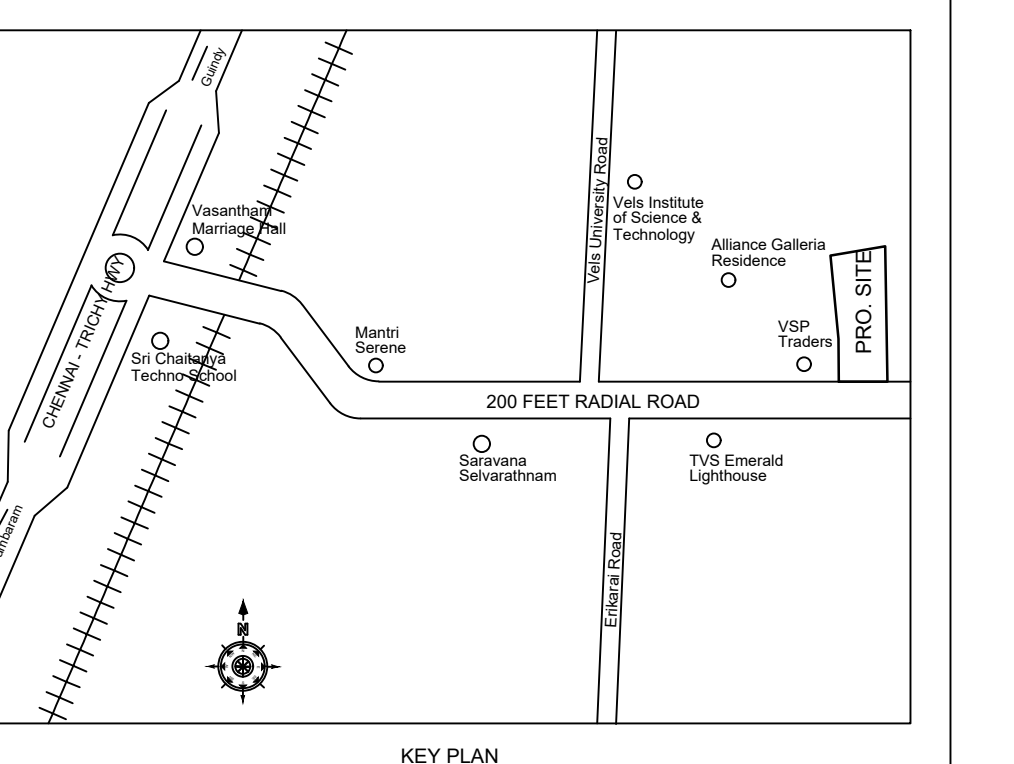
The Clean outlet water from filter shall be used for gardening.



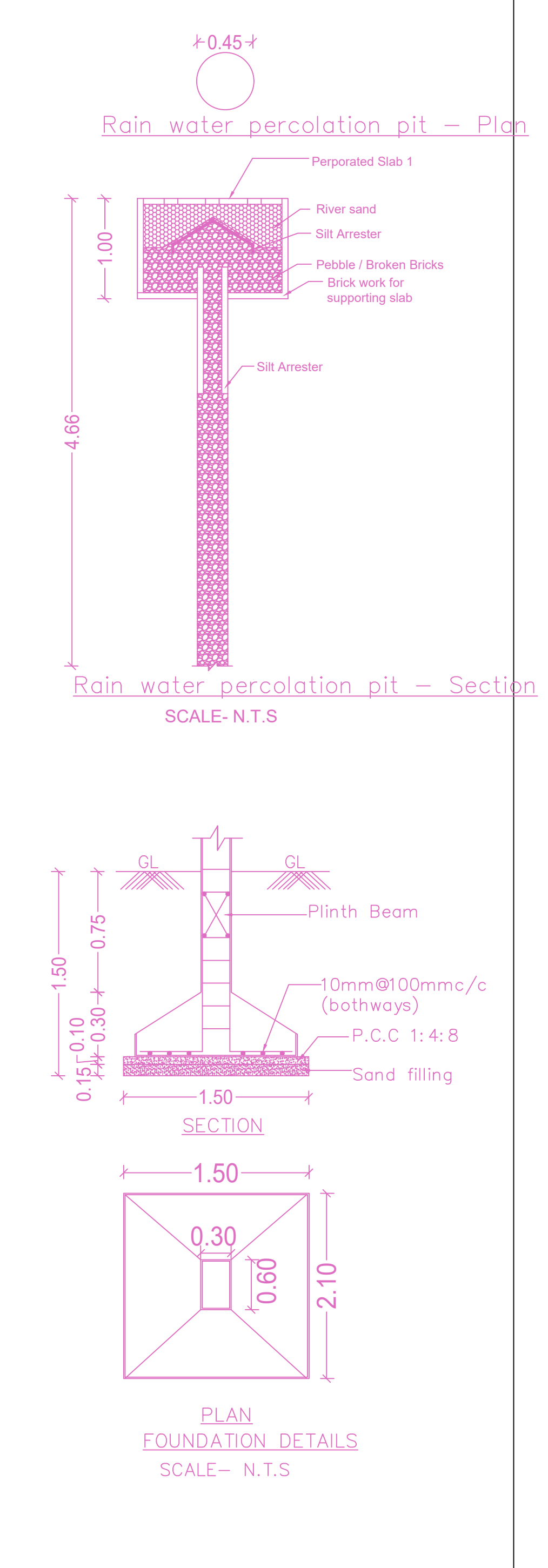
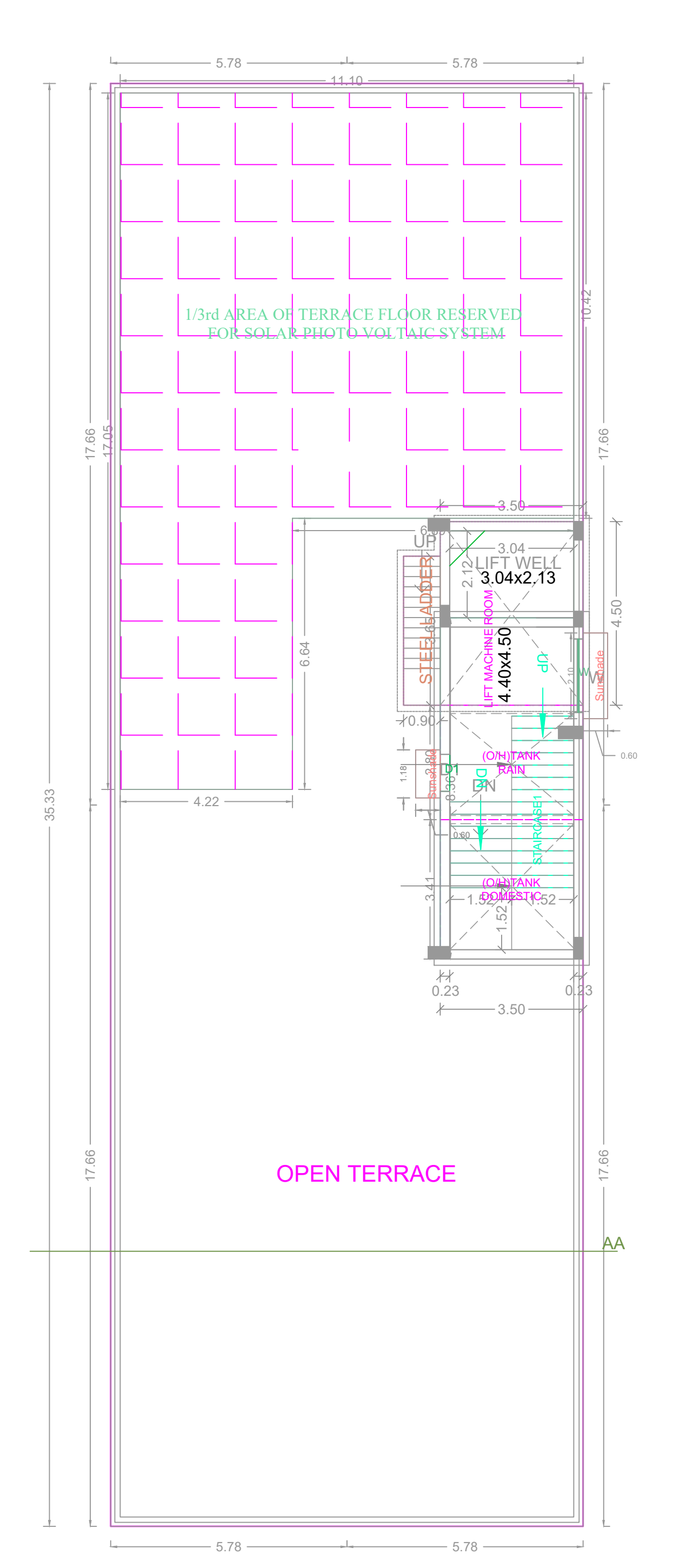
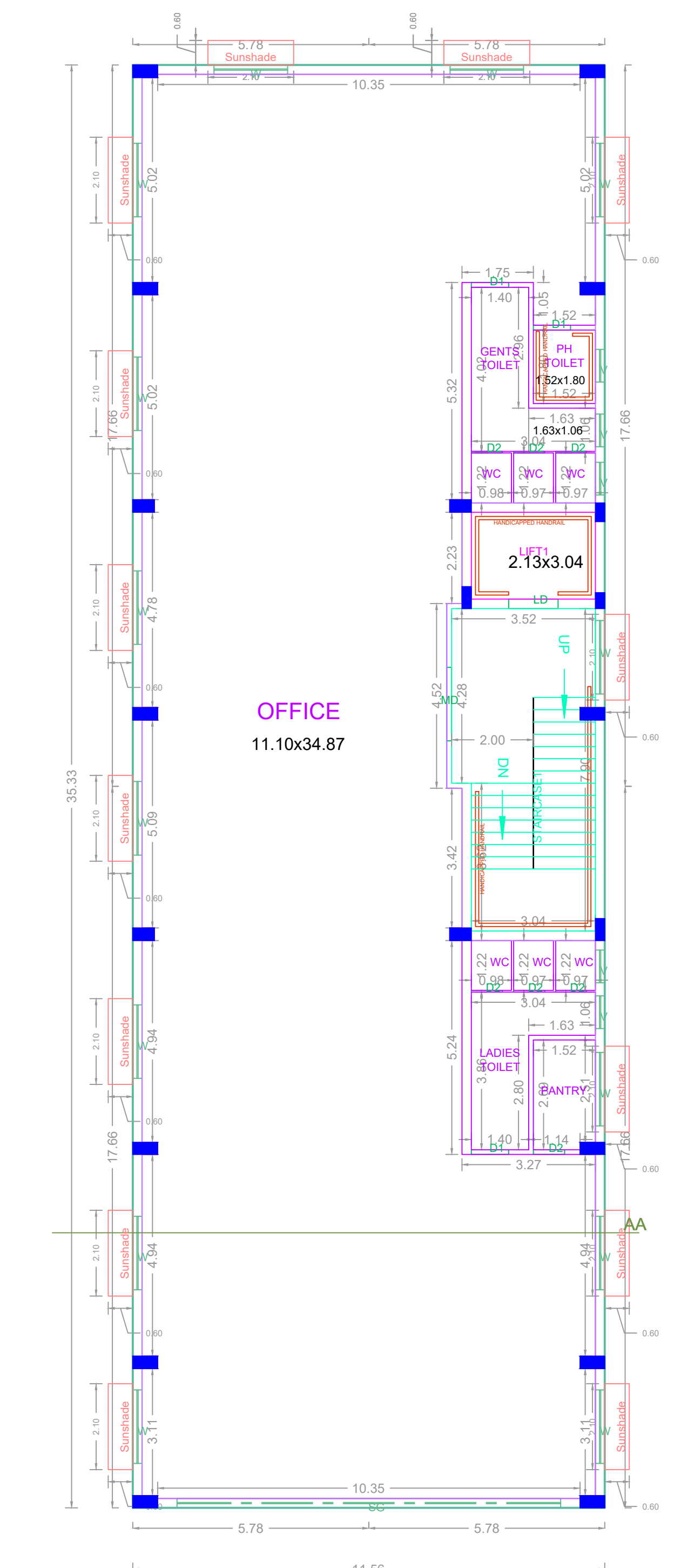
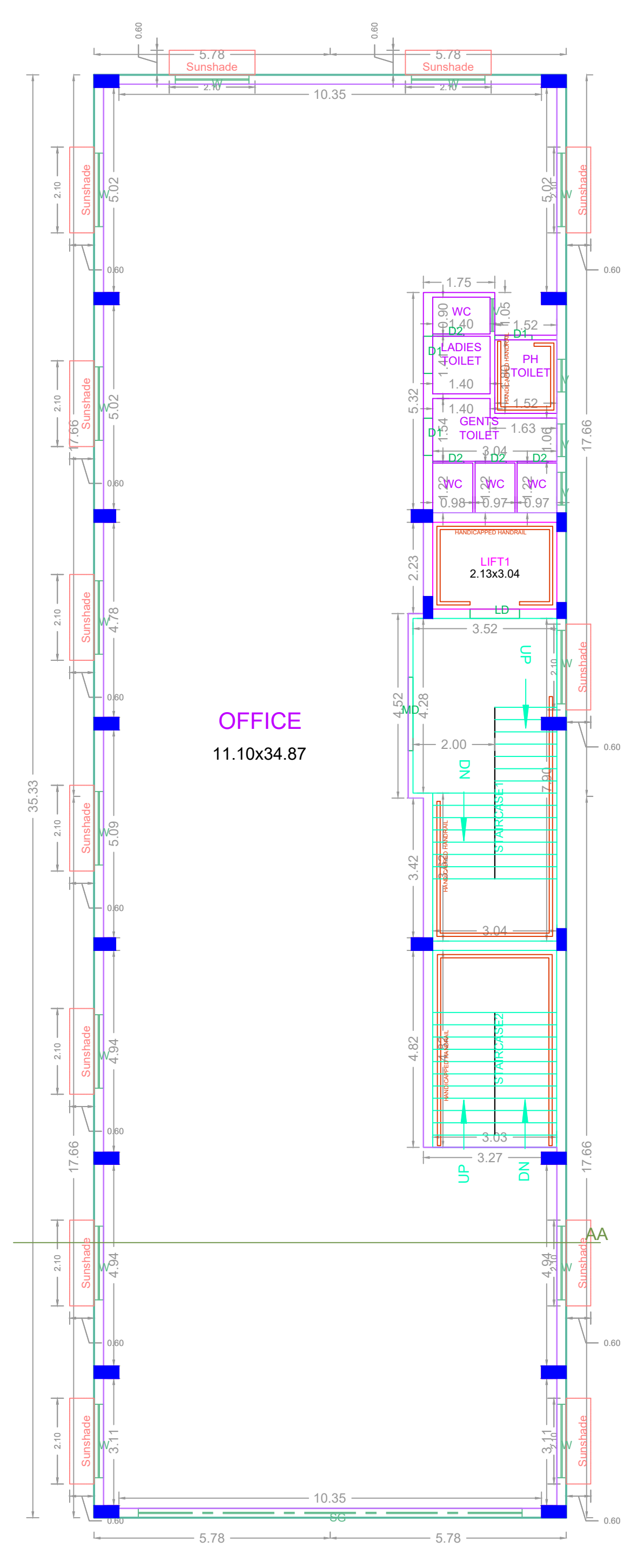
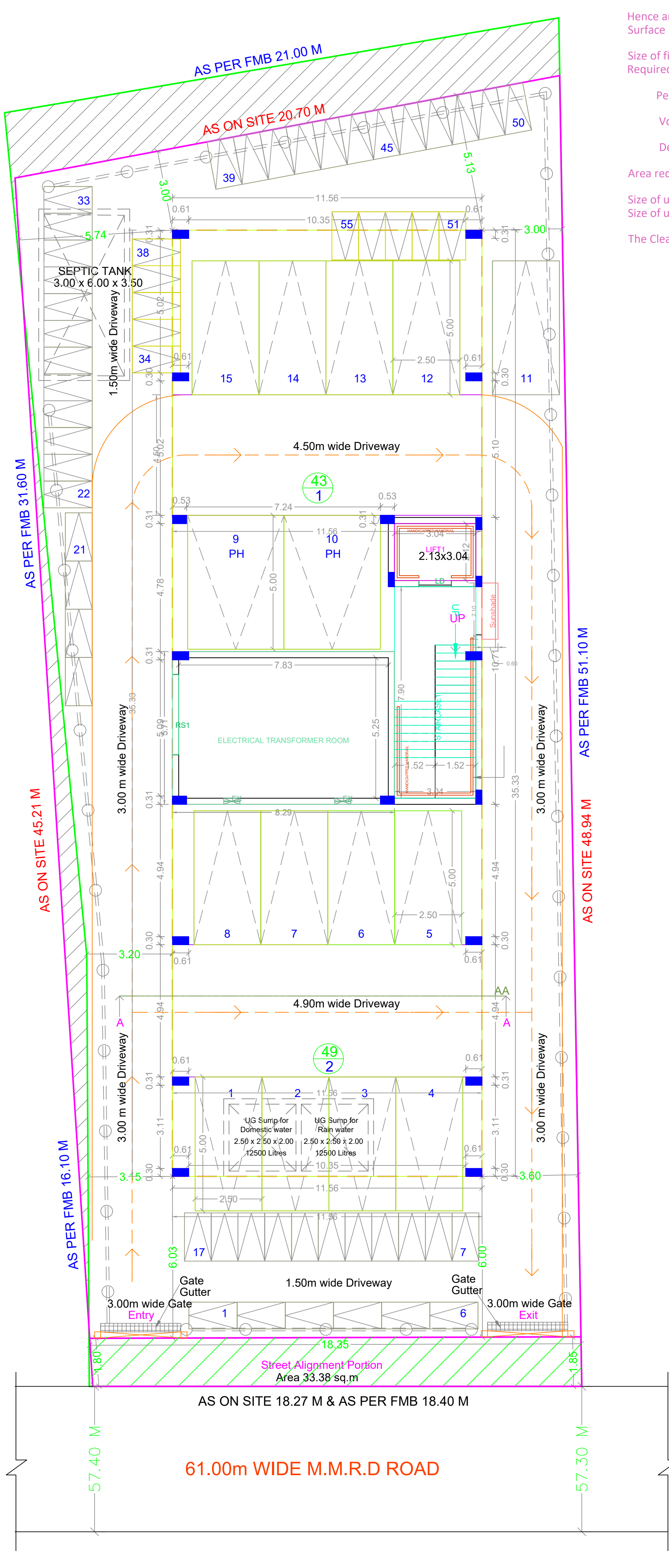
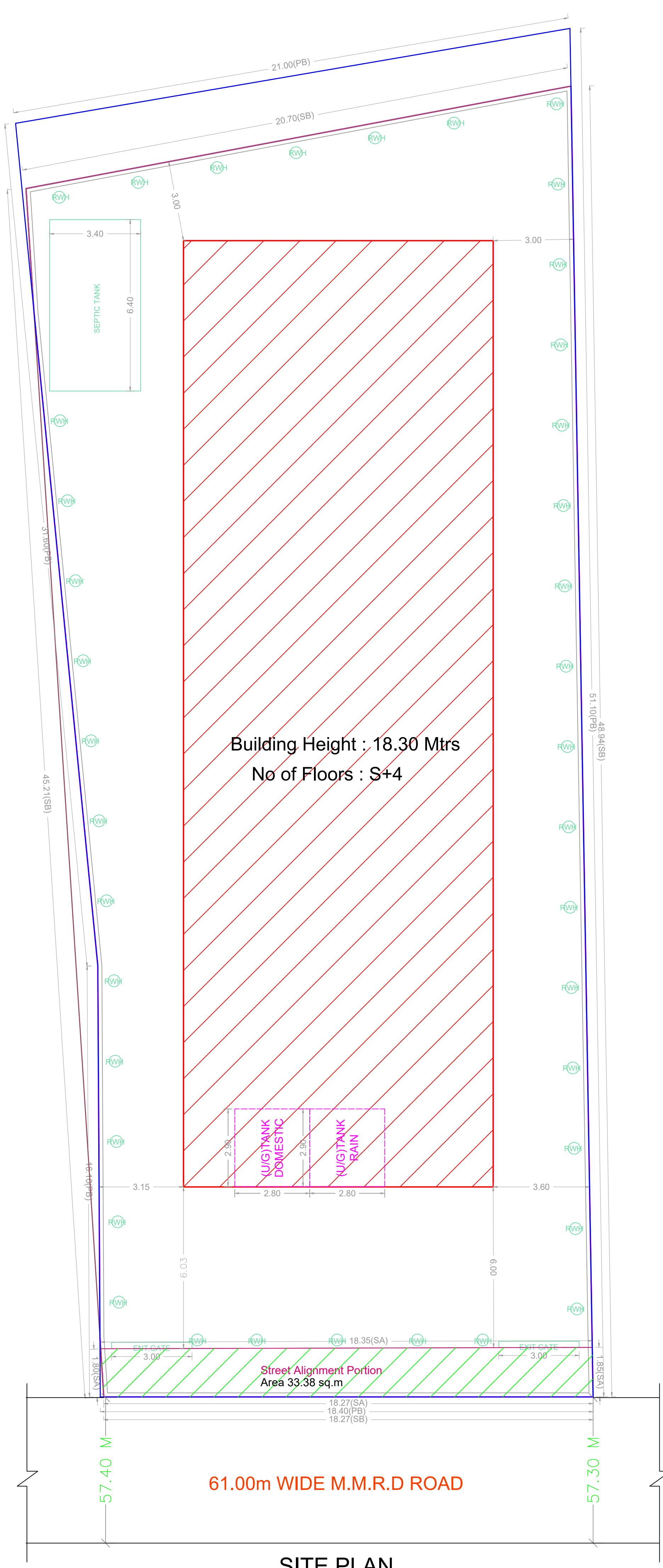
PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 4 FLOORS (Height - 18.30 M) COMMERCIAL BUILDING - OFFICE AT NO.21, M.M.R.D ROAD, ZAMEEN PALLAVARAM, CHENNAI, COMPRISED IN OLD S.NOS. 141/6 & 141/8A2, T.S.NO- 43/1 & 492, BLOCK NO.21, WARD-C, PALLAVARAM TALUK OF PALLAVARAM VILLAGE WITHIN THE LIMITS OF TAMBARAM MUNICIPAL CORPORATION

A) AREA STATEMENT	SQM.
AREA AS PER PATA	945.00
AREA AS PER DOCUMENT	950.98
AREA CONSIDERED FOR FSI	945.00
STREET ALIGNMENT/ ROAD WIDENING/ LINK ROAD	33.38
OSR AREA	0.00
TOTAL FSI AREA	1681.24
FSI FACTOR	1.773
COVERAGE AREA (PERCENTAGE %)	NA

A) PARKING STATEMENT	REQUIRED	PROVIDED
VEHICLE		
LORRY	-	0
CAR	14	15
TWO WHEELER	55	55
CYCLE	-	9



Location plan (Taken as per User Inputs)



BUILDING WISE FSI STATEMENT

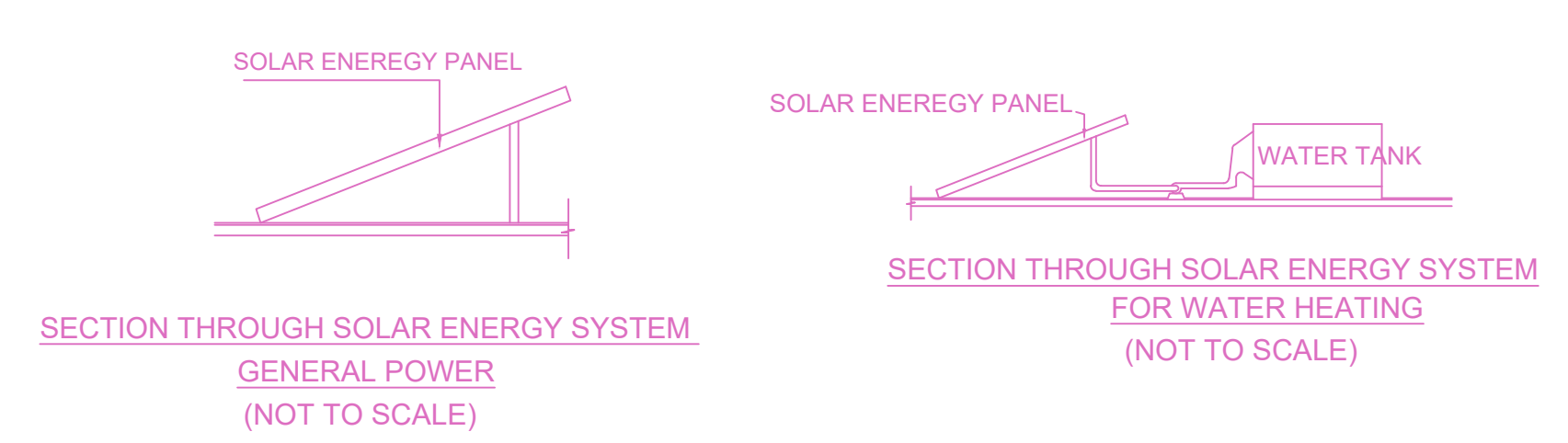
BUILDING	NO OF SAME BUILDING	FSI AREA				DU	TOTAL FSI AREA
		COMM.	RESI.	IND.	INST.		
A-1 (COMMERCIAL)	1	1681.24	0.00	0.00	0.00	0	1681.24
Total	1	1681.24	0.00	0.00	0.00	0	1681.24

FLOOR WISE FSI STATEMENT: A (COMMERCIAL)

FLOORS	FSI AREA				DU	TOTAL FSI AREA
	COMM.	RESI.	IND.	INST.		
STILT PARKING FLOOR	47.32	0.00	0.00	0.00	0	47.32
FIRST FLOOR	408.48	0.00	0.00	0.00	0	408.48
SECOND FLOOR	408.48	0.00	0.00	0.00	0	408.48
THIRD FLOOR	408.48	0.00	0.00	0.00	0	408.48
FOURTH FLOOR	408.48	0.00	0.00	0.00	0	408.48
Terrace	0.00	0.00	0.00	0.00	0	0.00
Total	1681.24	0.00	0.00	0.00	0	1681.24

APPLICANTS	OWNER / DEVELOPER / POWER OF ATTORNEY

Applicants (Owner / Developer / Power of Attorney)



APPROVAL CONDITION

SCALE 1:100

CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
APPROVED
SUBJECT TO THE CONDITIONS MENTIONED IN THIS OFFICE

For Check/Planner / Chief Planner / Member/Secretary
High Rise Building / Non High Rise Building
This Approval is valid only after building Permits is issued by the concerned Local Body.

OR CODE