

SEPTIC TANK-UPFLOW FILTER CALCULATION

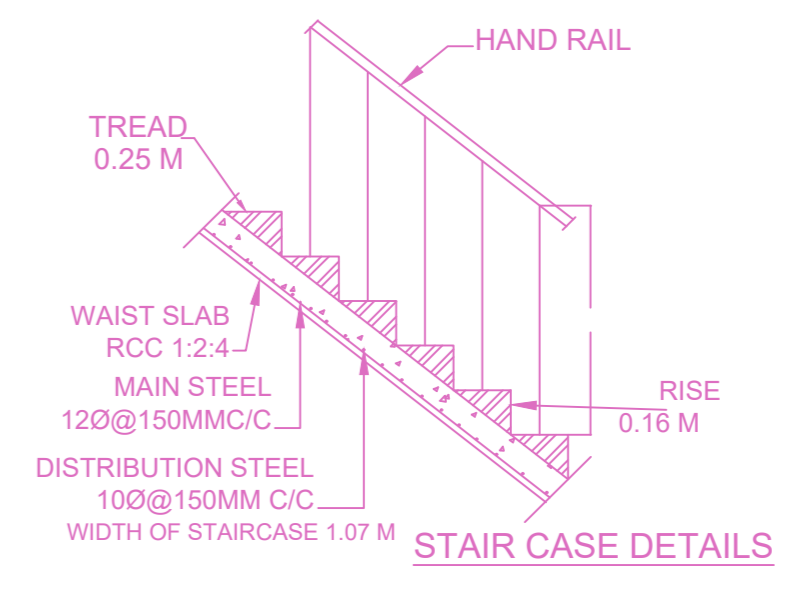
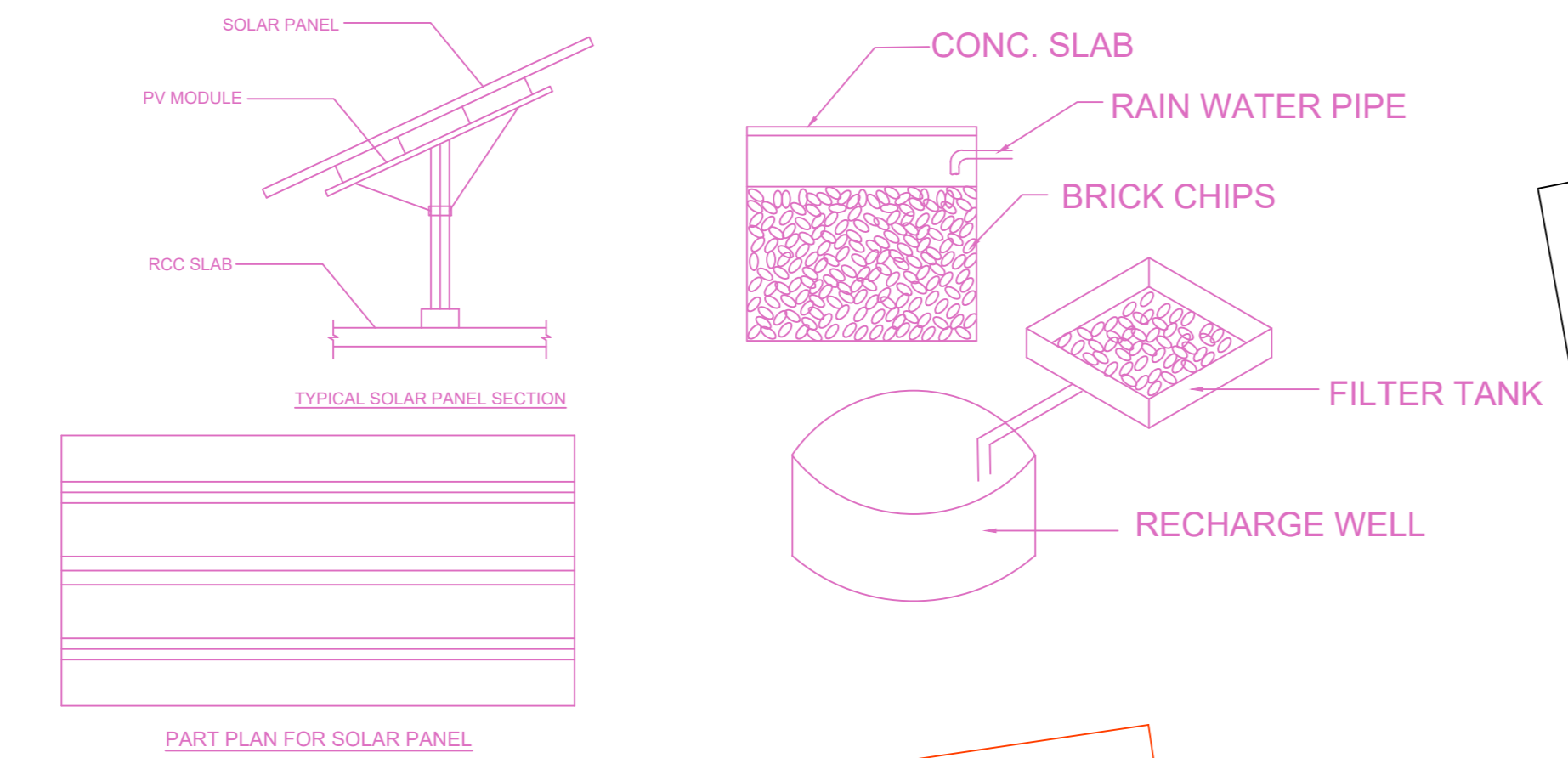
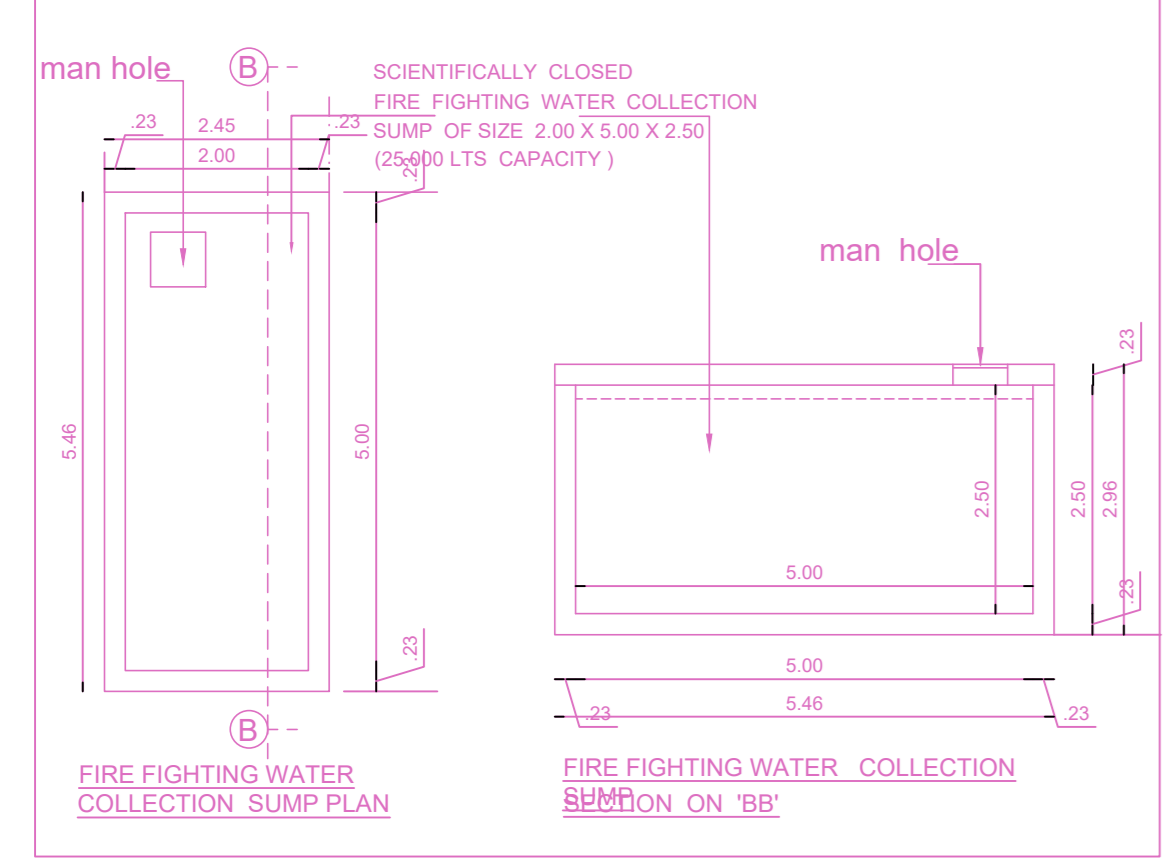
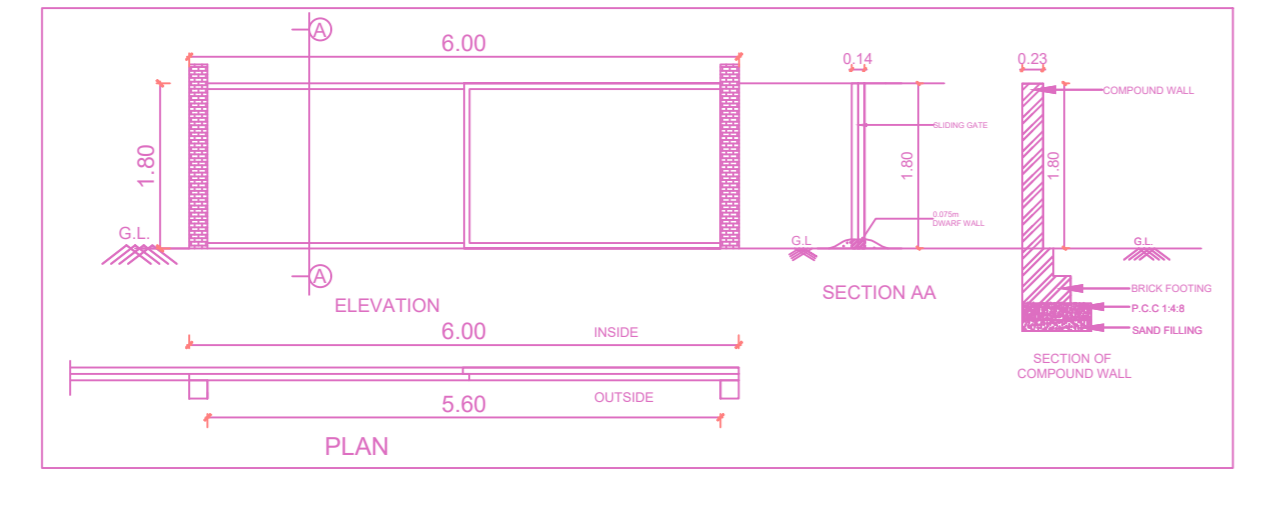
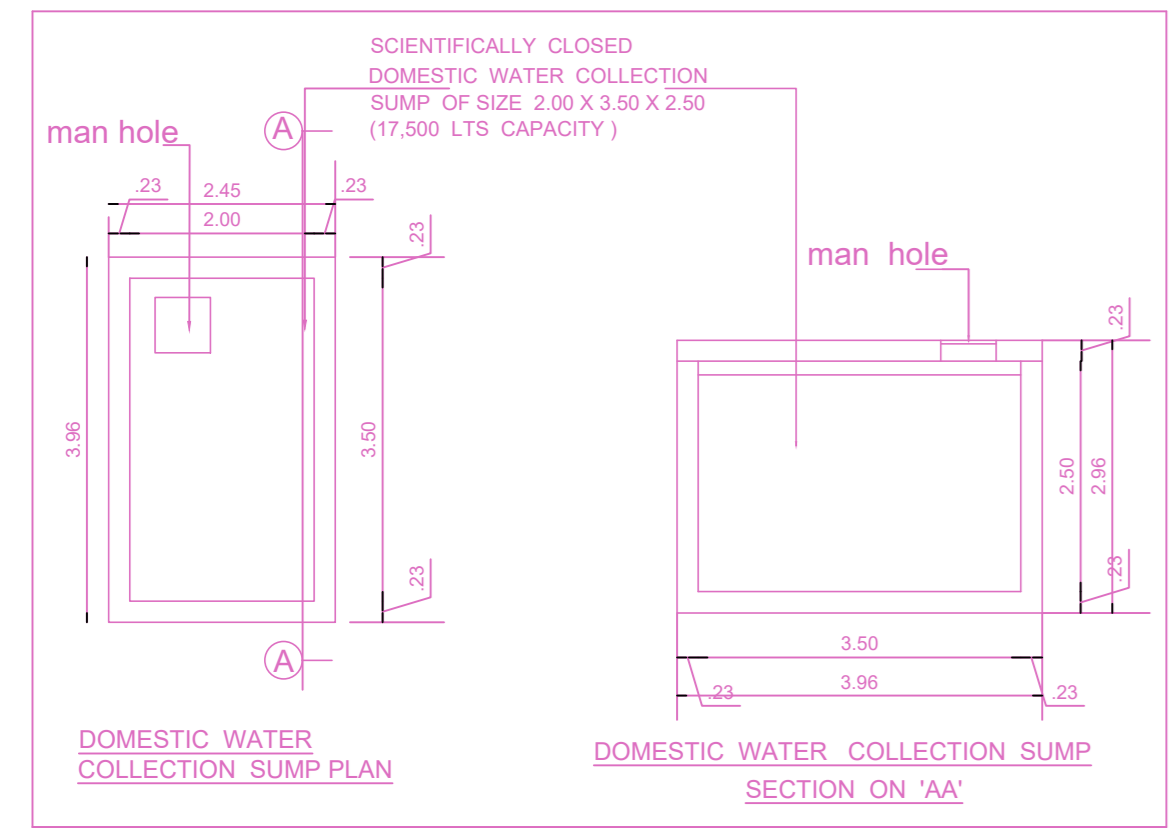
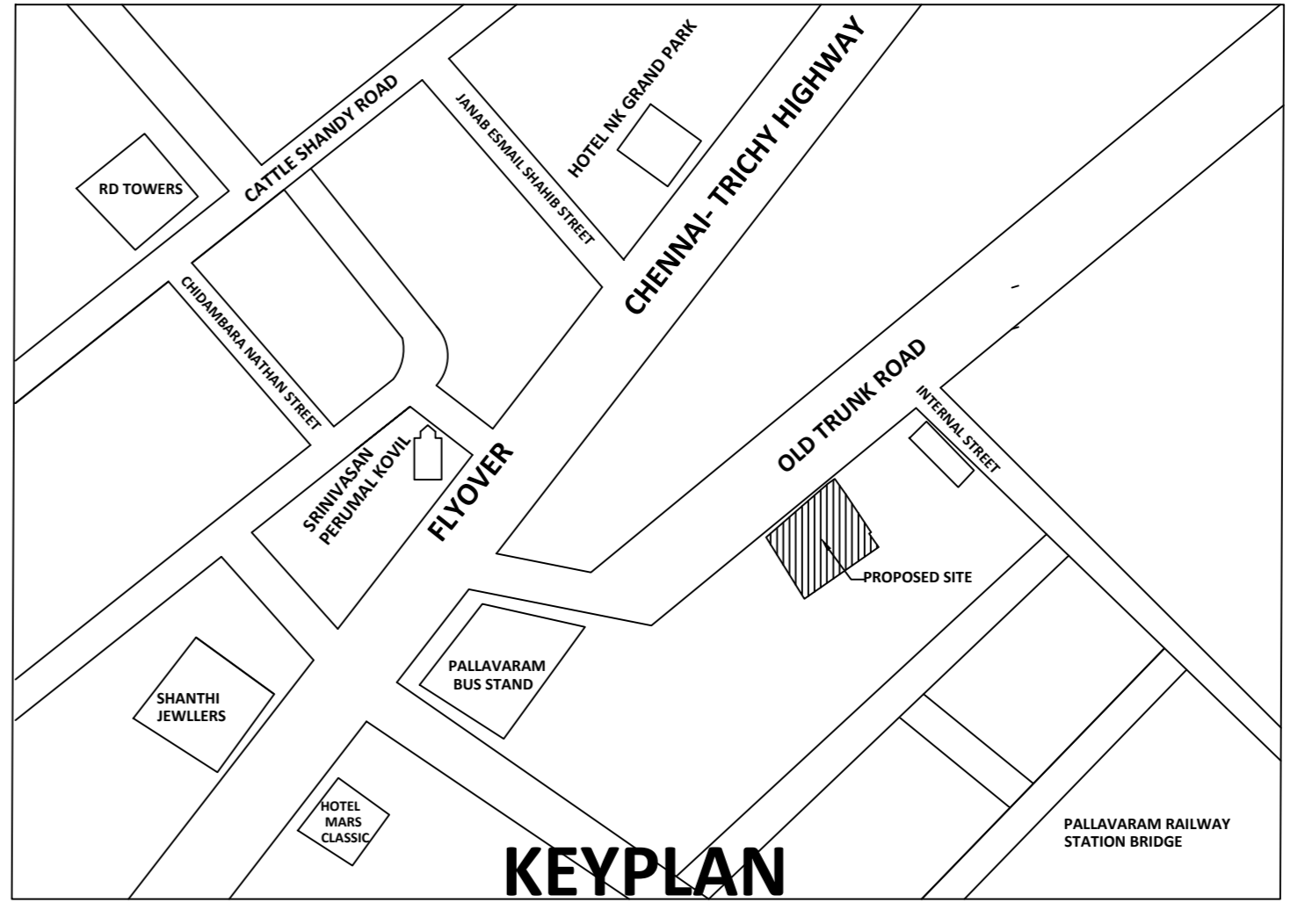
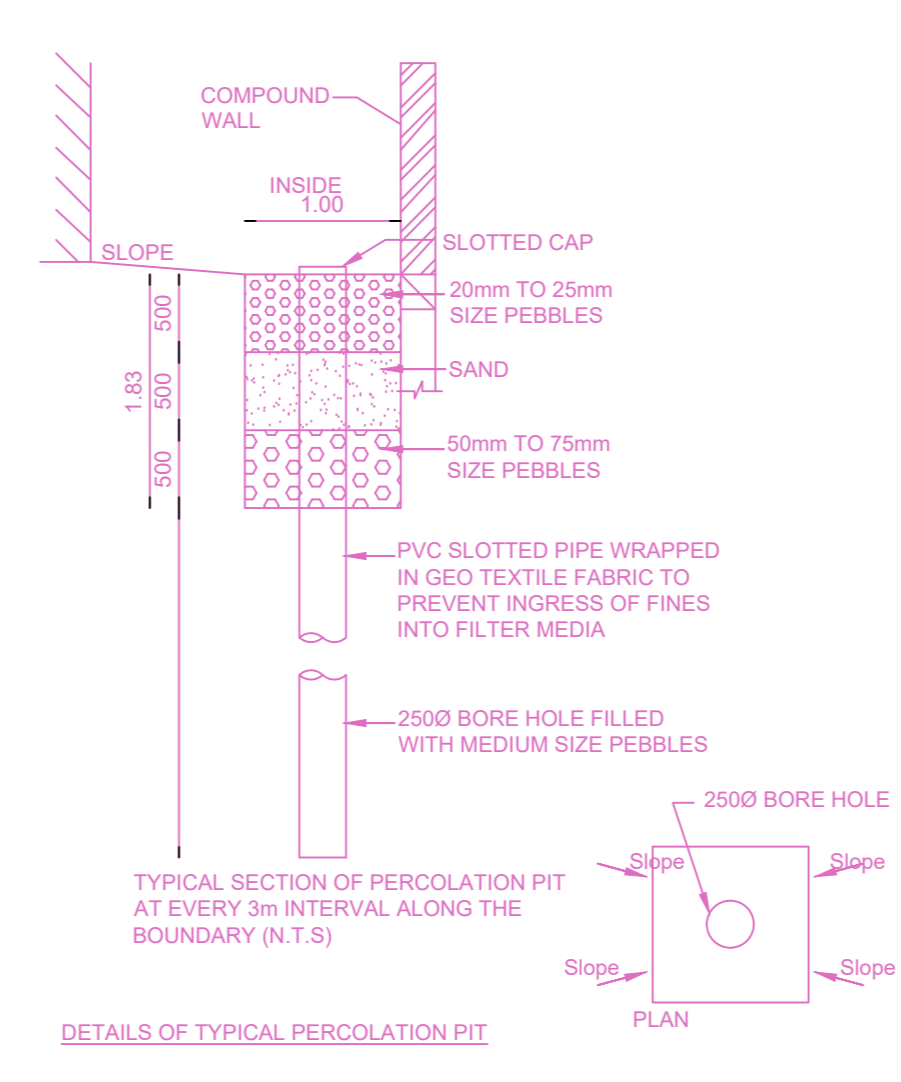
Design of Septic tank with up flow filter:

Commercial area = 2451.21 Sqm.,
 For 50 Sgm., = 5 Persons = 2451.21/50
 No. of Dwelling Units = 49 Units
 No. of Users per Dwelling Per Unit = 05 Numbers
 No. of Users Assuming as 49 X 5 = 245 Nos.
 Assuming 2 Figures per toilet, hence - 245 X 2 = 490 Units
 Per Hour Discharge = 490 X 6 = 2940 L

Septic Tank:
 Surface Area needed = 2940 X 0.92/10 = 270.48 say 271 M²
 Volume of Sedimentation Assuming 0.30M depth = 271 X 0.3 = 81.30 M³
 For Digestion = 271 X 0.032 = 8.67 M³
 For Sludge Storage = 271 X 12/0.0002 = 16.26M³
 Free board for Sludge = 271 X 0.3M = 81.30 M³
 Depth = V / V' = 81.30/81.3 = 1.00M

SIZE OF SEPTIC TANK = 10.00 X 4.60 X 6.00

Up flow Filter:
 Liquid depth of septic tank = 2.5m
 Up flow filter depth / Allowng 0.30m as Free board 1.4 - 0.3 = 1.10m
 Area needed = 1.10/1.10 = 1.10m²
 Size of Up flow filter 2.0 X 2.0 = 4.0m²
 Up flow = 1.0 X 2.0 X 1.5M x 2 Nos.



FLOOR NAME

PLAN SHOWING THE PROPOSED CONSTRUCTION OF COMMERCIAL OFFICE BUILDING (HEIGHT -18.30 m) AVAILING PREMIUM FSI (BASEMENT FLOOR (PARKING) +STILT FLOOR (PART - PARKING)/ GROUND FLOOR (PART - SHOP)+FIRST FLOOR (SHOP/OFFICE)+ 2nd to 5th FLOOR - OFFICE USE) AT DOOR NO-13, OLD TRUNK ROAD, ISSA PALLAVARAM, CHENNAI-600 043 COMPRISED IN S.NO. 10/2B2 & 10/2B1A (PART), T.S.NO. 20/33 & 20/40, BLOCK NO.20, WARD A OF ISSA PALLAVARAM VILLAGE WITHIN THE LIMIT OF TAMBARAM MUNICIPAL CORPORATION)

A) AREA STATEMENT	SQ.M.
AREA AS PER PATTA	897.00
AREA AS PER DOCUMENT	939.80
AREA CONSIDERED FOR FSI	897.00
STREET ALIGNMENT/ ROAD WIDENING/LINK ROAD	0.00
OSR AREA	0.00
TOTAL FSI AREA	2402.55
FSI FACTOR	2.678
COVERAGE AREA (PERCENTAGE %)	NA

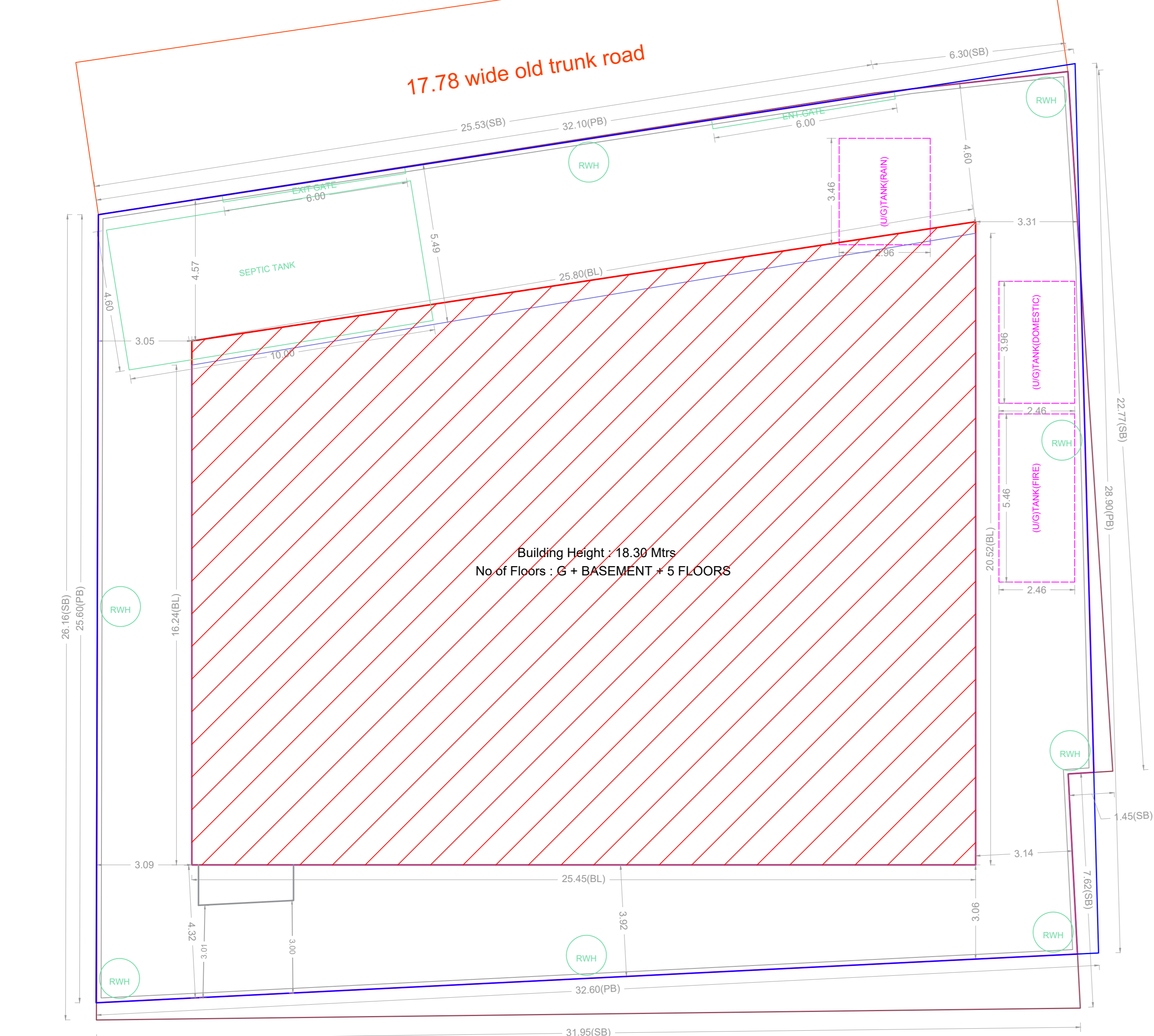
A) PARKING STATEMENT		
VEHICLE	REQUIRED	PROVIDED
LORRY	-	0
CAR	21	21
TWO WHEELER	75	85
CYCLE	-	0

FLOOR WISE FSI STATEMENT: NHRB (COMM)

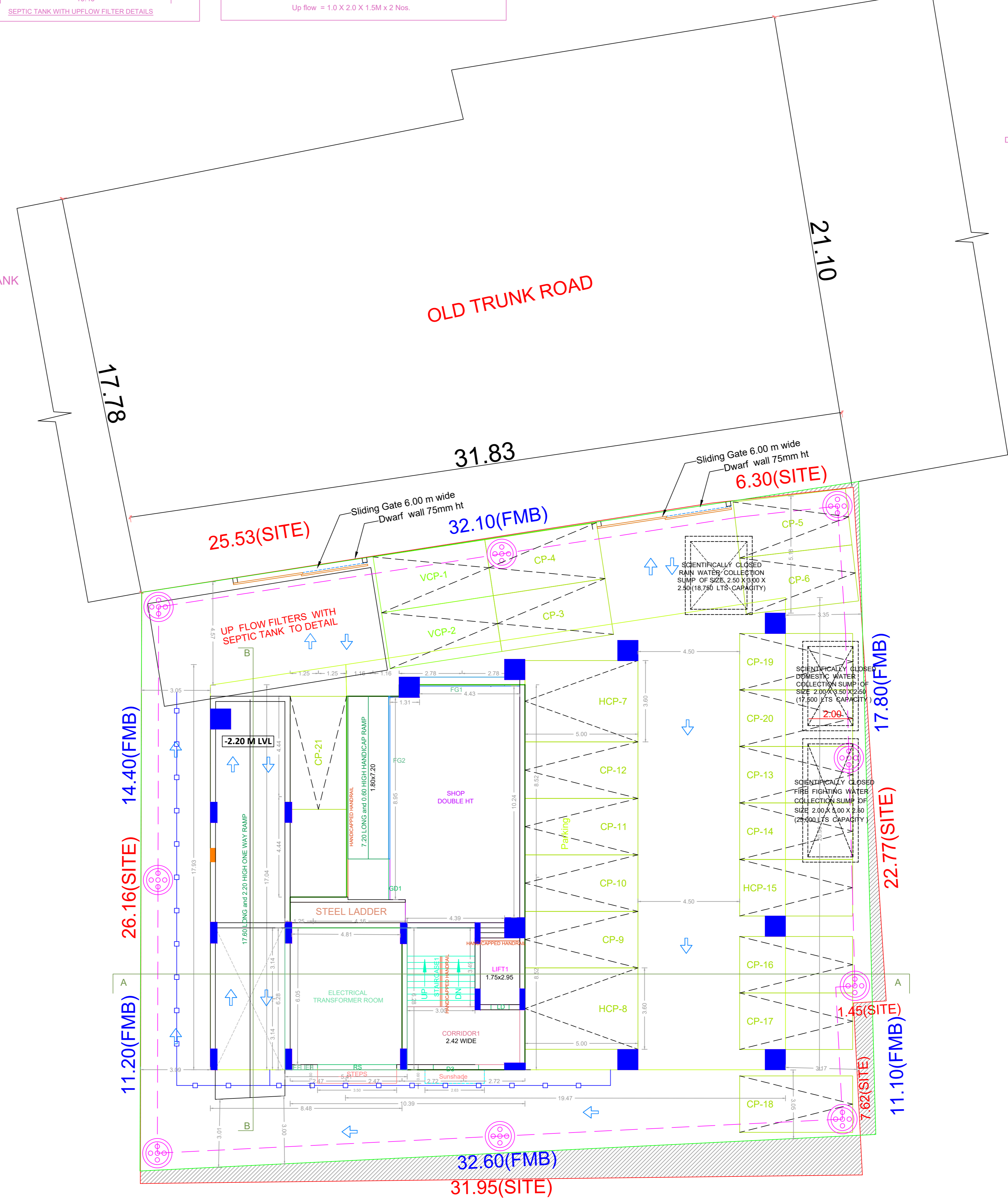
FLOORS	FSI AREA				DU	TOTAL FSI AREA
	COMM.	RESI.	IND.	INST.		
BASEMENT PARKING FLOOR	0.00	0.00	0.00	0.00	0	0.00
STILT PARKING FLOOR	155.23	0.00	0.00	0.00	0	155.23
FIRST FLOOR	317.68	0.00	0.00	0.00	0	317.68
SECOND FLOOR	482.41	0.00	0.00	0.00	0	482.41
THIRD FLOOR	482.41	0.00	0.00	0.00	0	482.41
FOURTH FLOOR	482.41	0.00	0.00	0.00	0	482.41
FIFTH FLOOR	482.41	0.00	0.00	0.00	0	482.41
Terrace	0.00	0.00	0.00	0.00	0	0.00
Total	2402.55	0.00	0.00	0.00	0	2402.55

BUILDING WISE FSI STATEMENT

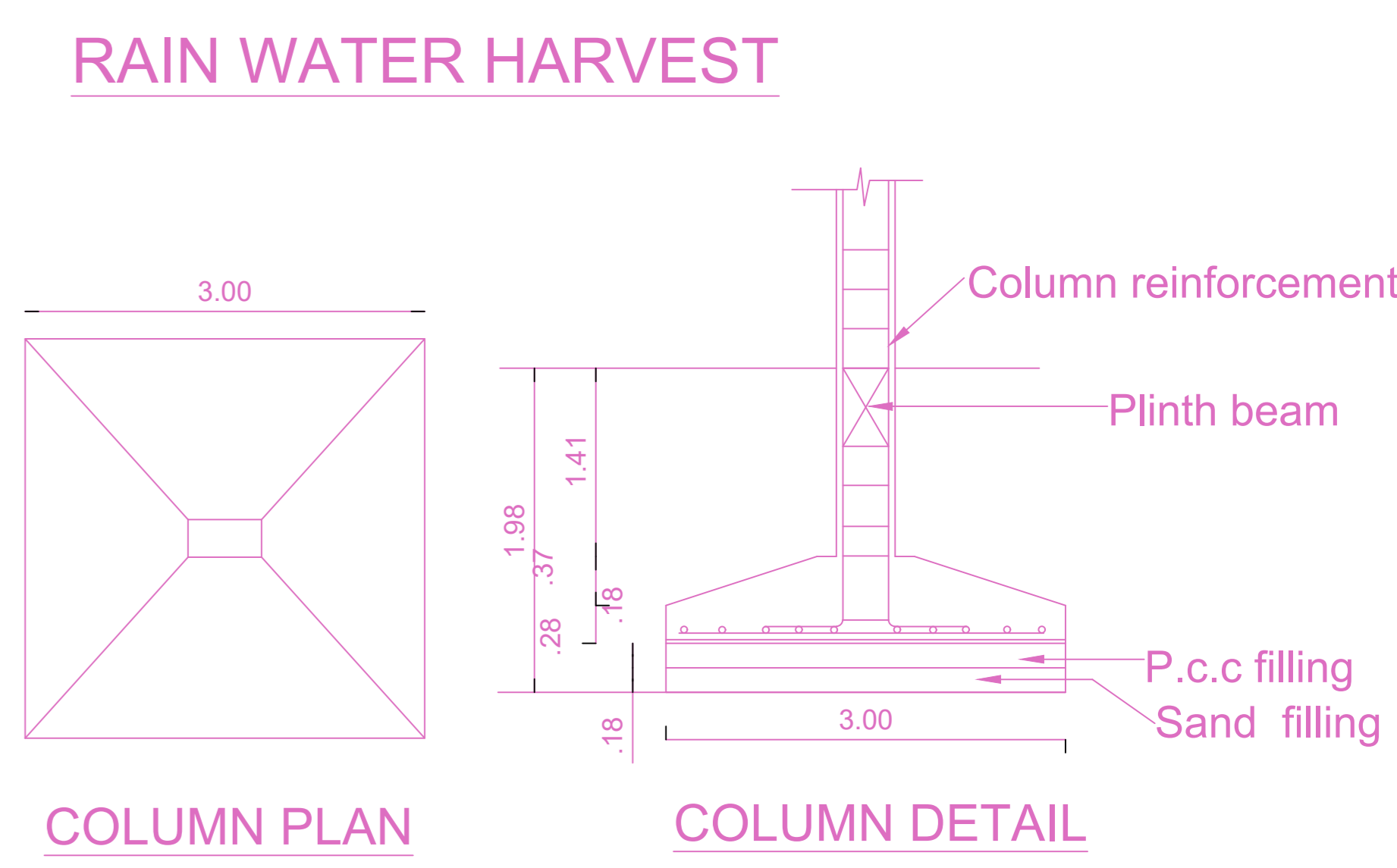
BUILDING	NO OF SAME BUILDING	FSI AREA				DU	TOTAL FSI AREA
		COMM	RESI	IND	INST.		
NHRB-1 (COMM)		2402.55	0.00	0.00	0.00	0	2402.55
Total		2402.55	0.00	0.00	0.00	0	2402.55



SITE PLAN



SITE CUM GROUND FLOOR PLAN



COLUMN PLAN

COLUMN DETAIL

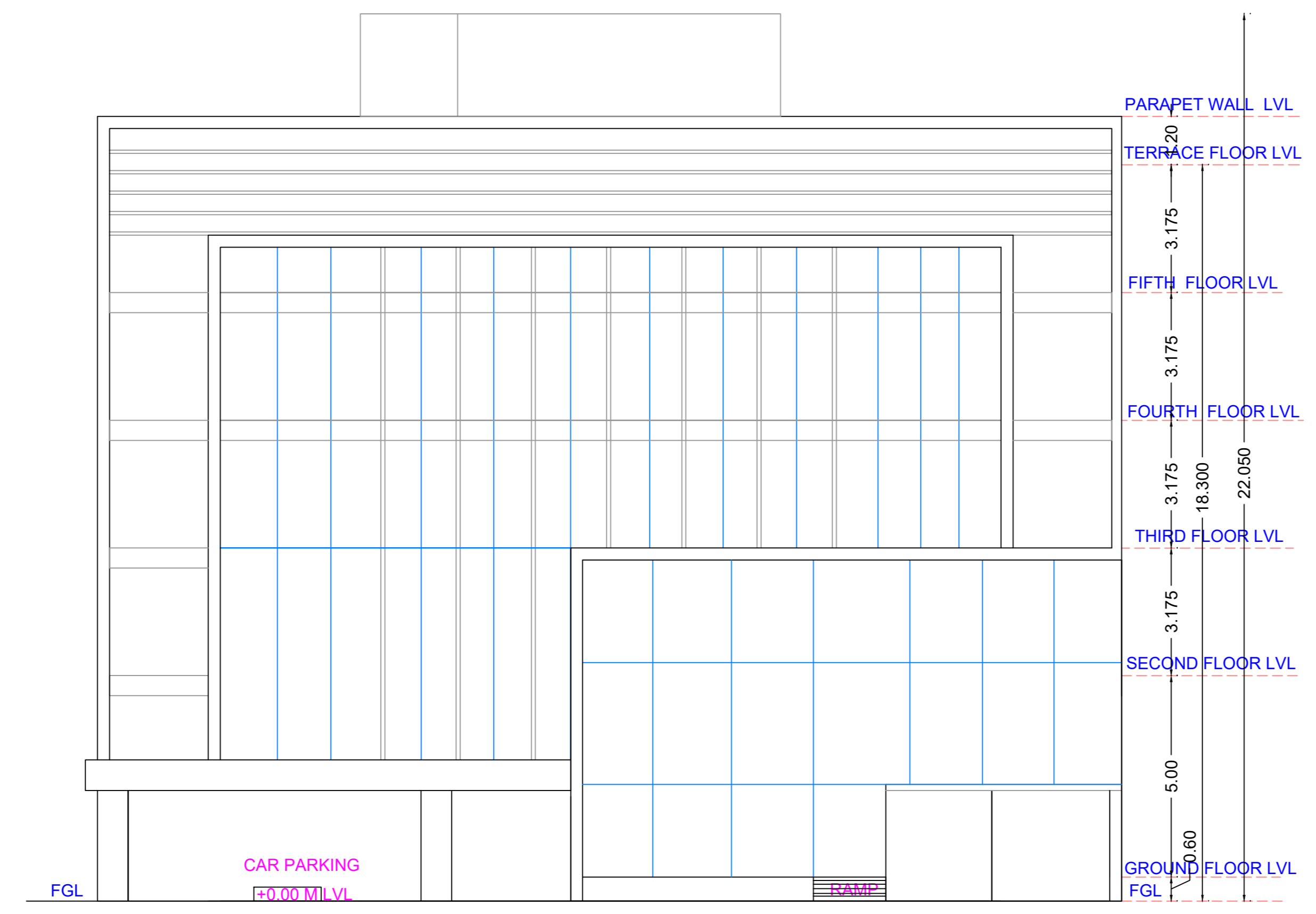
APPROVAL CONDITION

SCALE 1:100

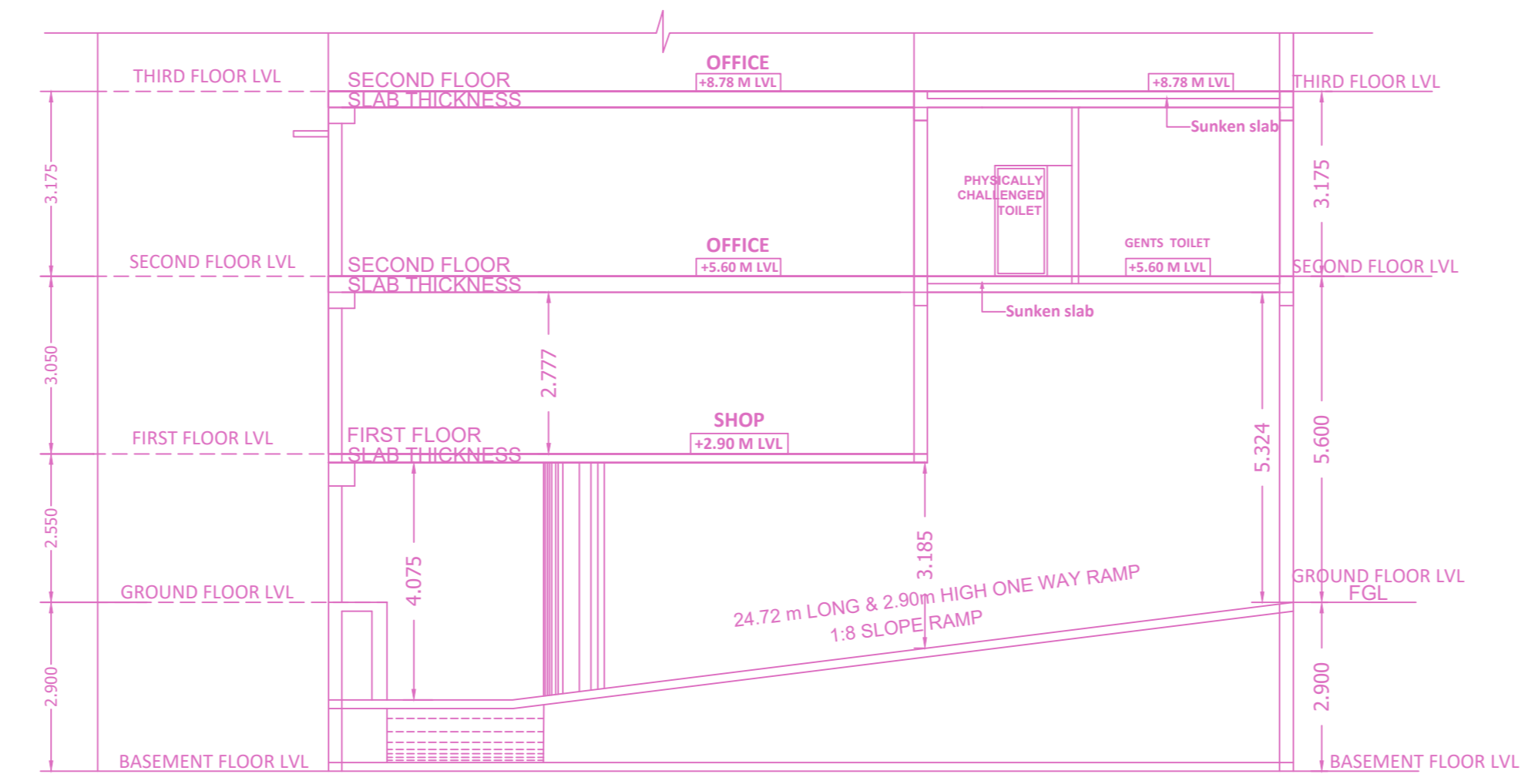
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
APPROVED
 SUBJECT TO THE CONDITIONS MENTIONED IN THIS OFFICE

For (Deputy Planner / Chief Planner / Member-Secretary)
 High Rise Building / Non High Rise Building
 This Approval is valid only after building Permit is issued by the concerned Local Body.

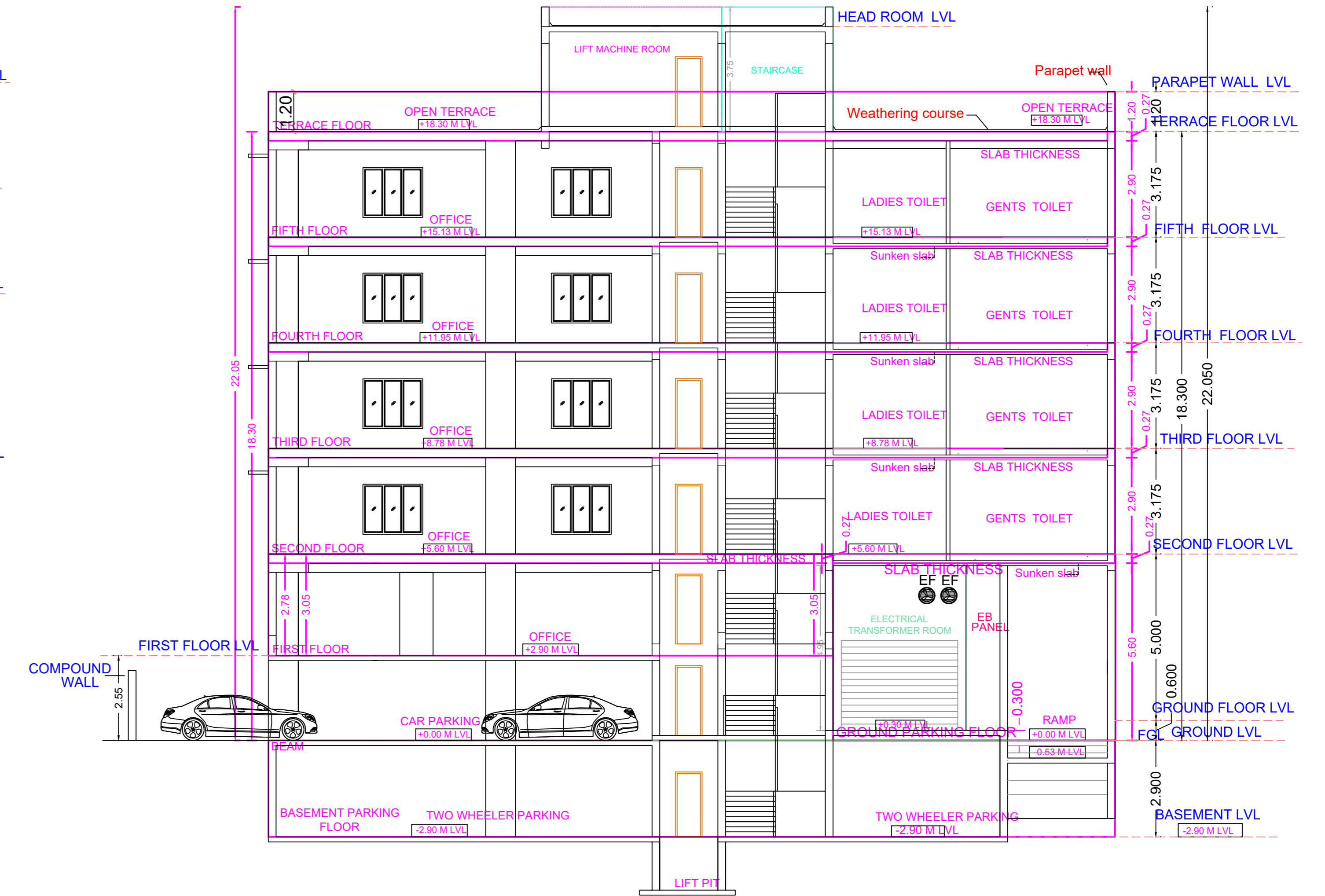
KEY NO. 2788 QR CODE



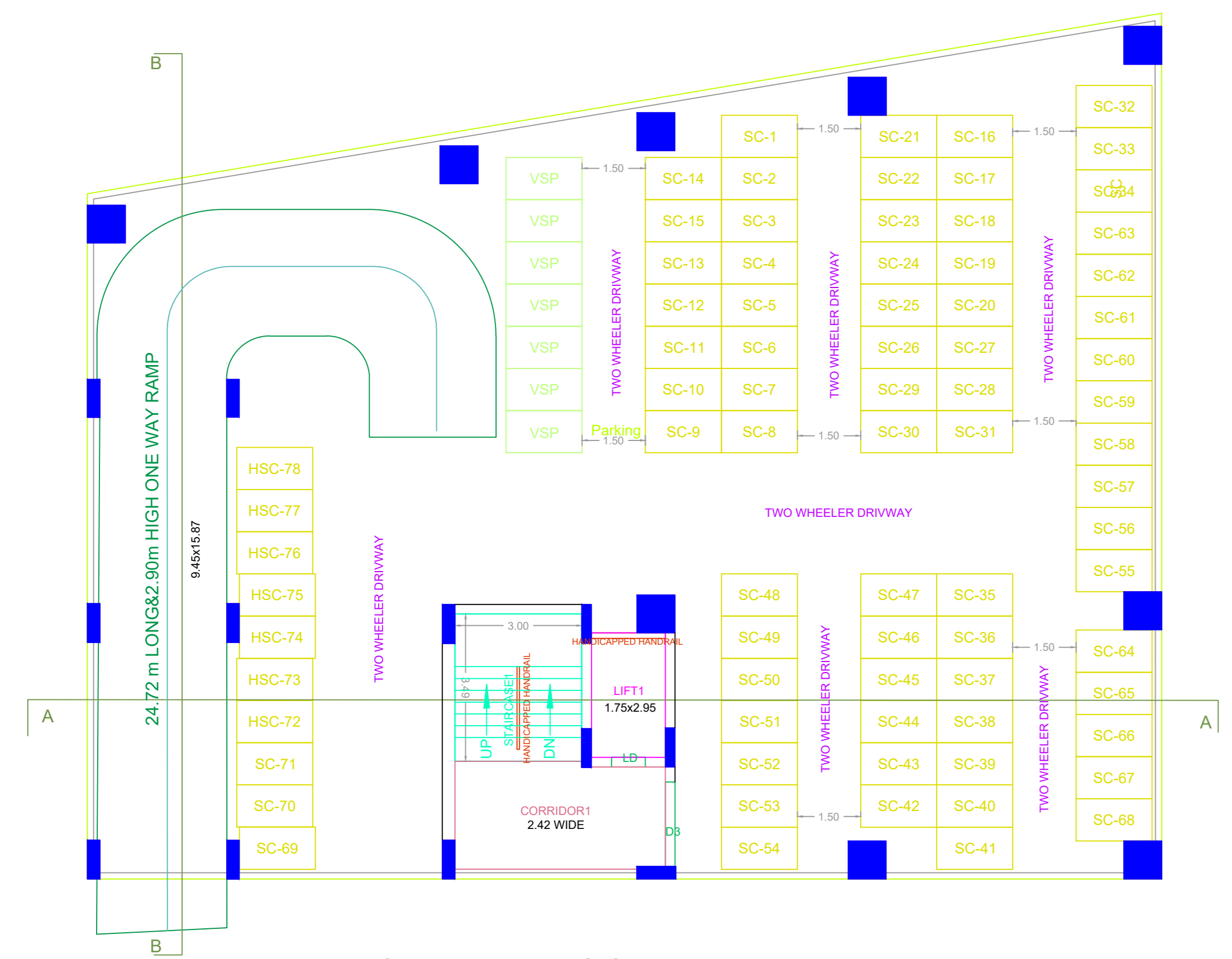
ELEVATION



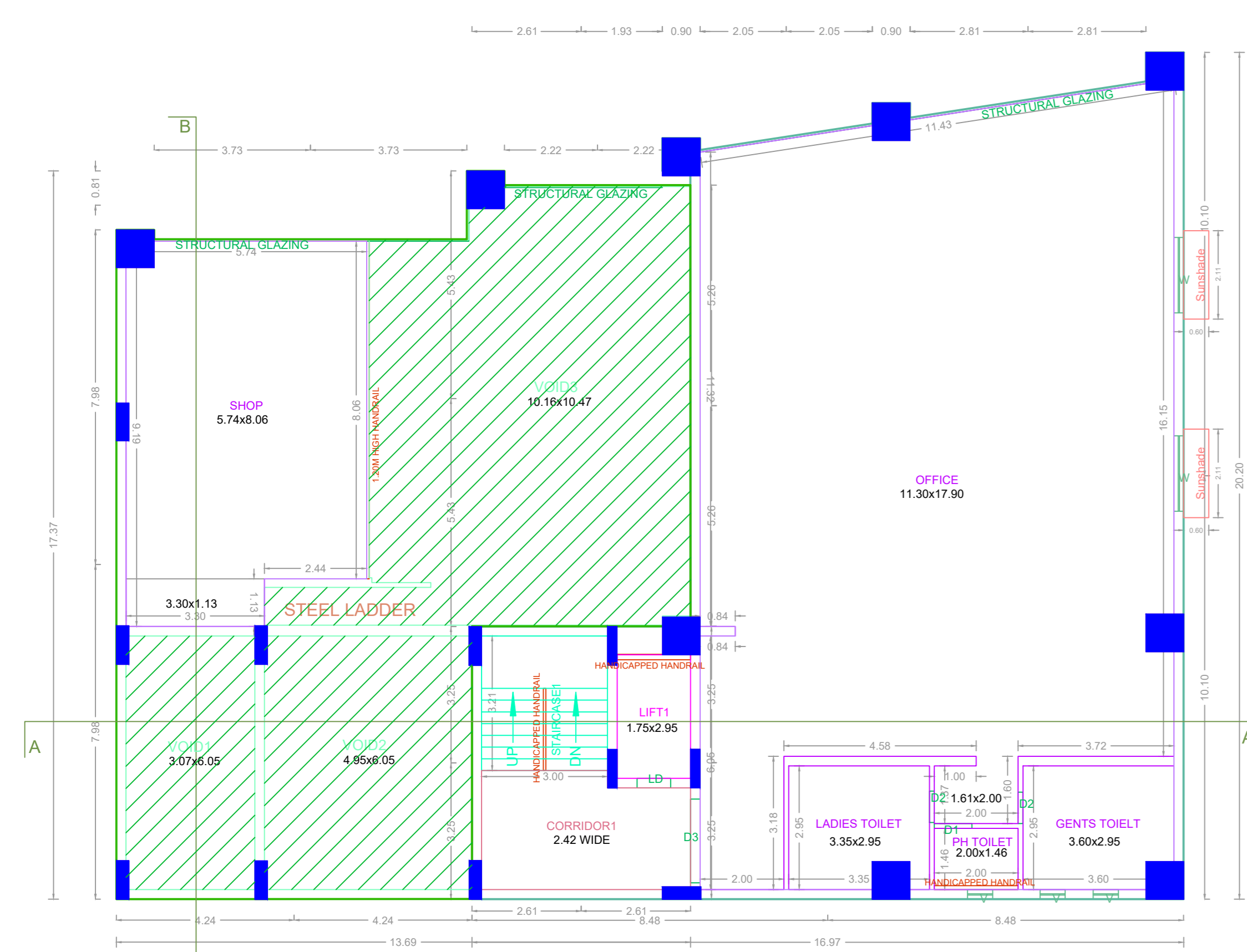
SECTION-BB



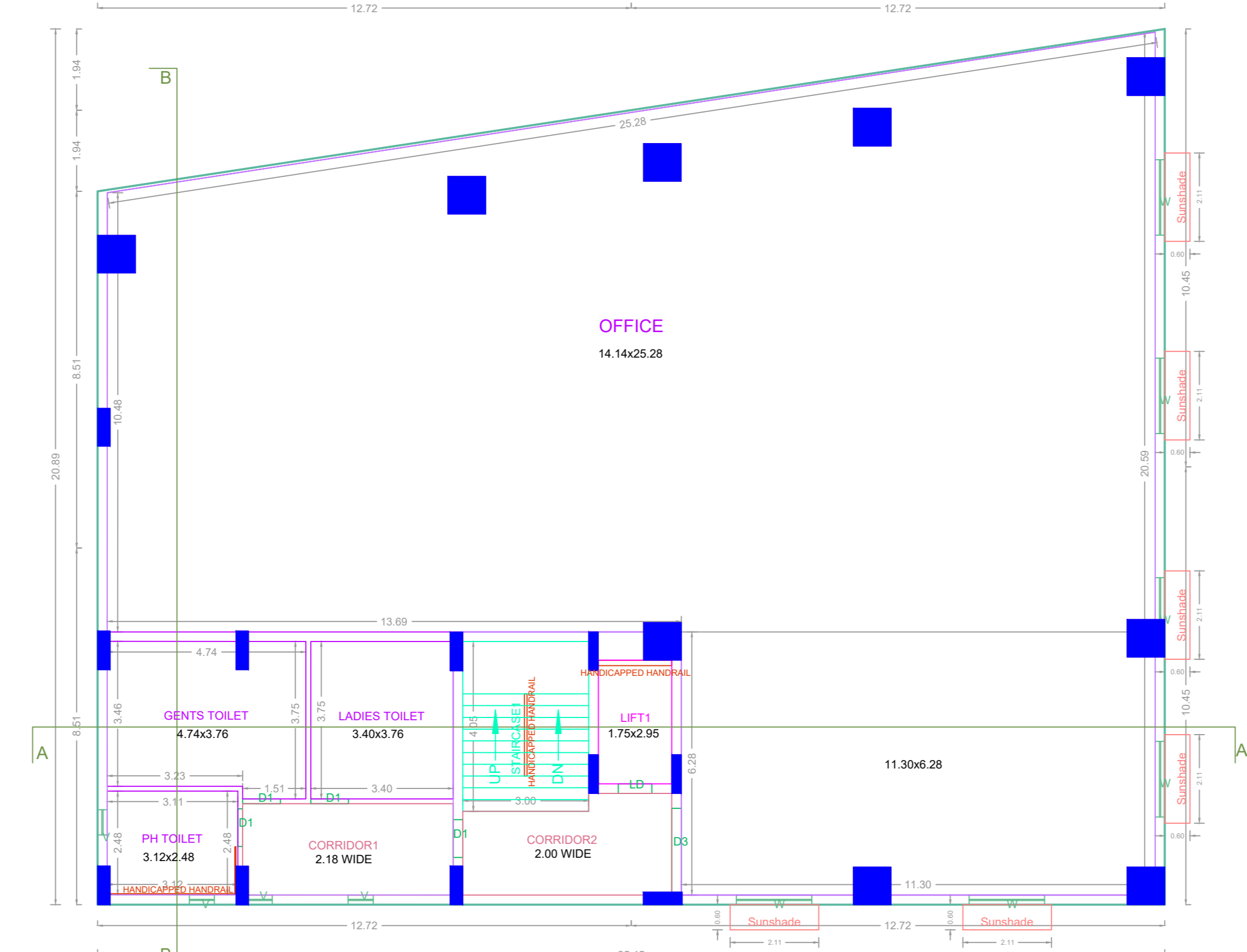
SECTION-AA



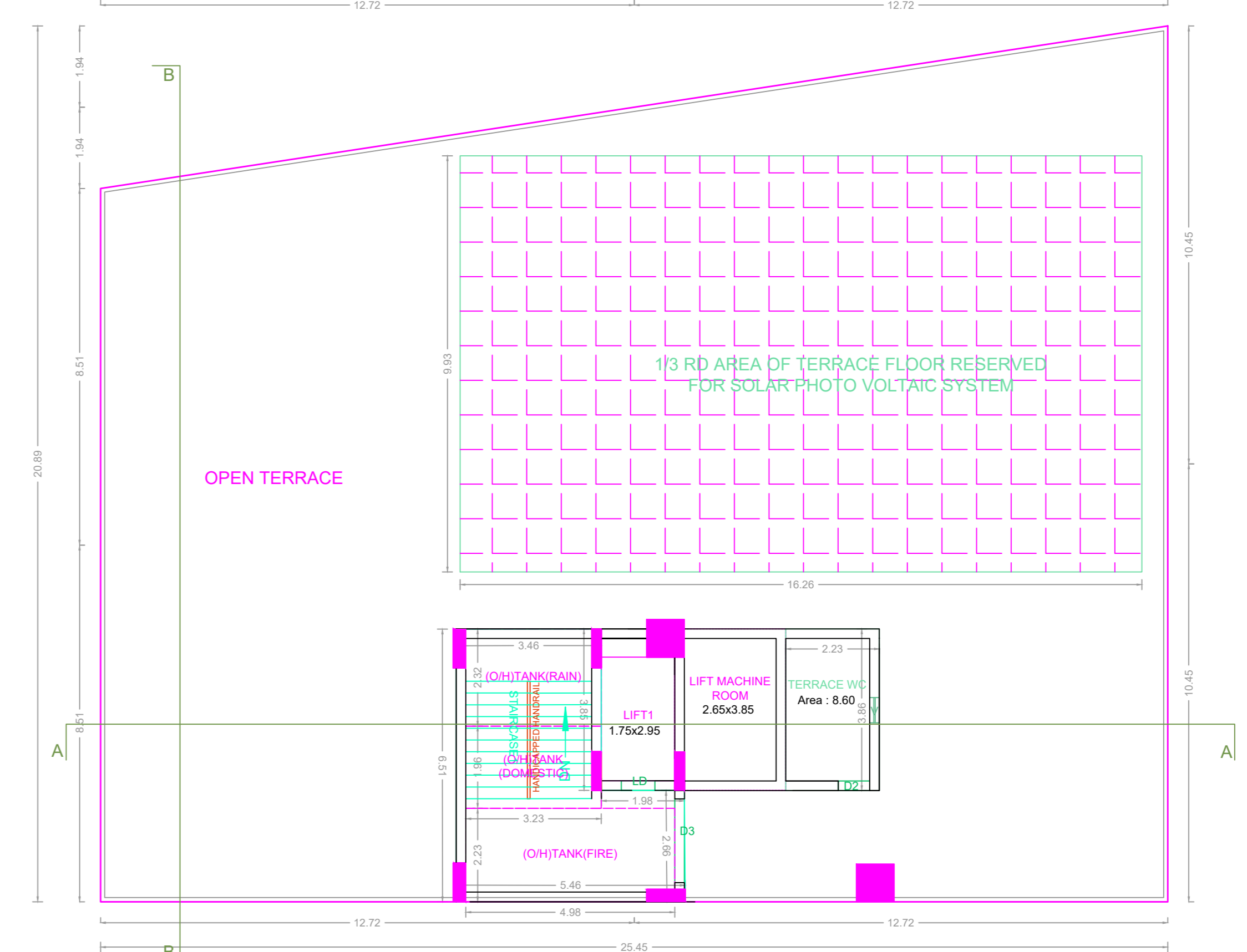
BASEMENT FLOOR PLAN



FIRST FLOOR PLAN



TYPICAL - 2- 5 FLOOR PLAN



TERRACE FLOOR PLAN

APPROVAL CONDITION

SCALE 1:100

CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY

APPROVED

SUBJECT TO THE CONDITIONS MENTIONED IN THIS OFFICE

For (Deputy Planner / Chief Planner / Member-Secretary)
High Rise Building / Non High Rise Building
This Approval is valid only after building Permit is issued by the concerned Local Body.

KEY NO. 2788

QR CODE