

Plan Showing The Proposed Construction Of Ground +2 Floors Residential Building With Single Dwelling unit at Audco Nagar 2nd Main Road & Pooncholai Veedhi 4th Main Road, Kattupakkam, Chennai - 600056, Comprising Old S.No.180/2A1B, New S.No. 180/3 Of Kattupakkam Village Within The Limit of Poonamallee Panchayat Union.

Planning Permit No. - 2538/48/A3, Dated - 27.01.2017
Kattupakkam Panchayat R.O. No. 28/2016/2017
Dated - 10-02-2017

Plot Approval (Site Approval) Obtained
CMDA Vide PP No. B/SP/BLDG/Site Approval/
01/2015 Lr. No. BC/1/5167/2015 Dated 06-15-2015

- SPECIFICATIONS**
- R.C.C COLUMN FOOTING AND PILES IN FOUNDATION.
 - COLUMNS AND PILES ARE CONNECTED BY PLINTH BEAMS.
 - MOSAIC FLOORING / SPARTAX FLOORING.
 - BRICK WORK IN BASEMENT AND SUPER STRUCTURE IN C.M 1:5.
 - WALLS ARE PLASTERED BY CEMENT PLASTER.
 - JOINERY WORK IN TEAK AND COUNTRY WOOD.
 - LINTEL OVER OPENING.
 - ROOF COVERED BY R.C.C SLAB.
 - ALL R.C.C WORK IN CEMENT CONCRETE M-25
 - WEATHERING COURSE LAID WITH PROPER SLOPE OVER R.C SLAB.

JOINERY DETAIL

NAME	DESCRIPTION	SIZE [W x H]
MD	Main Door	1.83 x 2.44
FD	French Door	3.81 x 2.44
PD	Pooja Door	1.98 x 2.44
D1	Door-1	1.22 x 2.44
D2	Door-2	1.22 x 2.44
D3	Door-3	0.91 x 2.44
W1	Window-1	4.26 x 1.98
W2	Window-2	3.05 x 1.98
W3	Window-3	2.44 x 1.98
W4	Window-4	1.83 x 1.98
W5	Window-5	1.52 x 1.98
W6	Window-6	1.22 x 1.98
KW	Kitchen Window	1.83 x 1.22
KW1	Kitchen Window	1.37 x 1.22
SW	Staircase Window	4.88 x 2.44
V1	Ventilator	0.91 x 0.91

SCALE : 1:100

ALL DIMENSION ARE IN METRE

COLOUR INDEX :-

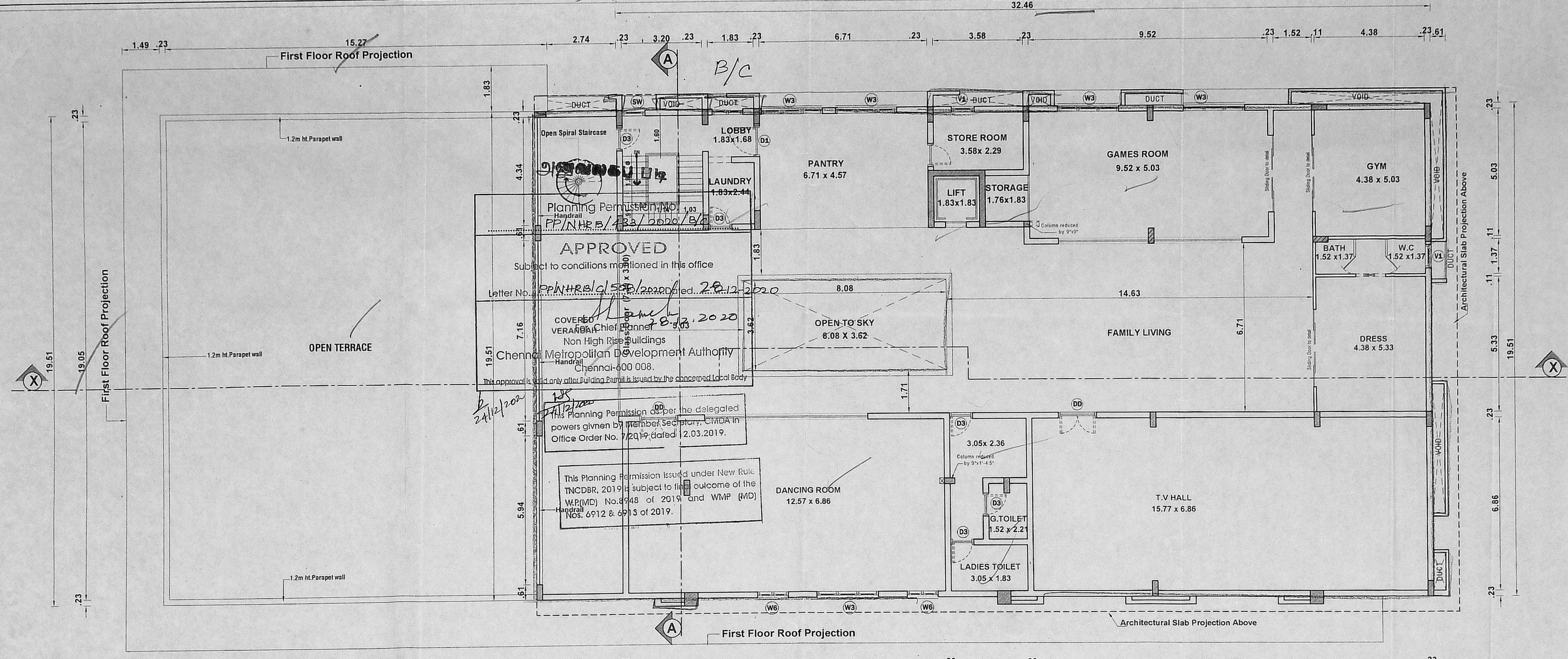
PROPOSED	=	[Pattern]
EXISTING	=	[Pattern]
BOUNDARY	=	[Pattern]
ROAD	=	[Pattern]

OWNER SIGNATURE :-
[Signature]

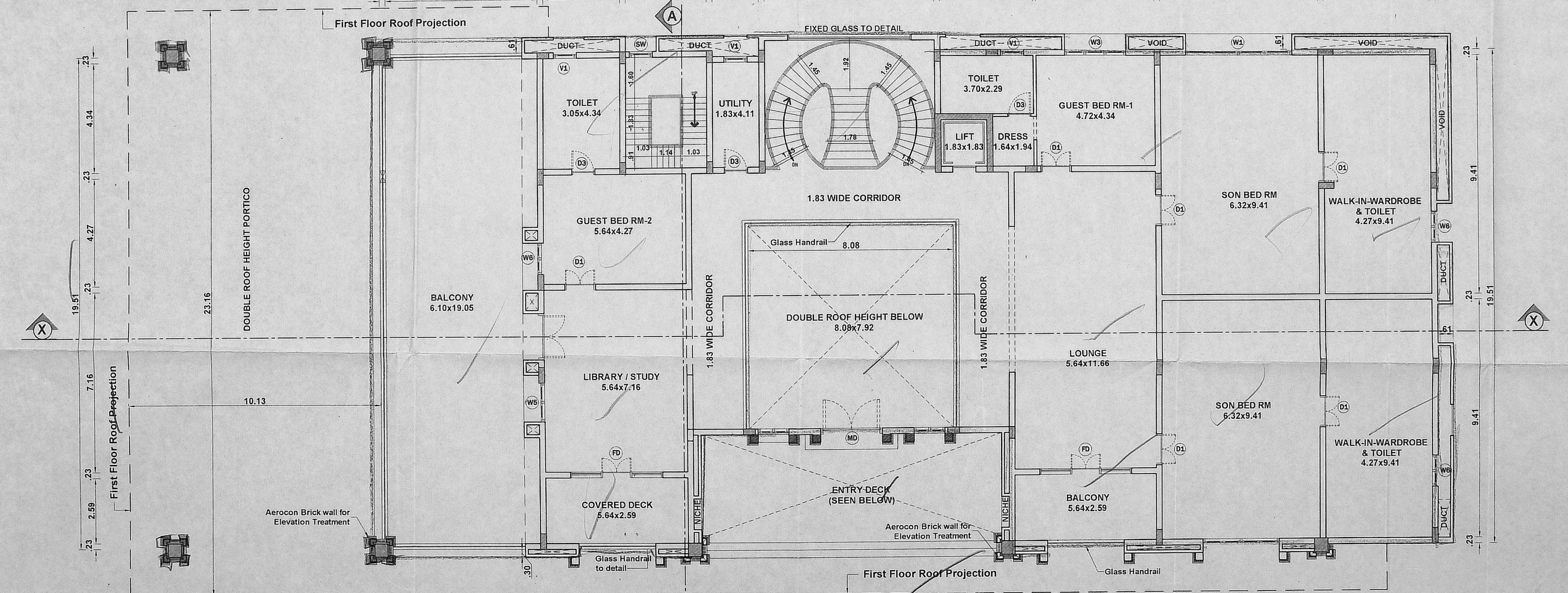
Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D (Hon),
M.I.E. (AUS), M.I.E. (IND)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALANSHEETRA COLONY,
CHENNAI - 600 050.
REG No. SE/GR-1/19/02/001
REG No. RSE10032019

STRUCTURAL SIGNATURE :-
[Signature]

LICENSED SURVEYOR :-
REENA NISHANTHI LYDIA P B ARCH
COUNCIL OF ARCH. REG. No. CA/2009/46301
CMDA REGD. ARCH. No. RA/C-11/9/02/008
DTCP REGD. No. CGLRN/ARCH-1/01/07/022
CHENNAI CORPORATION REG. No. RA/100822019
Door No. 31/14, 11 Floor, Conotaph Road, 1 Street,
Alwarpet, Chennai - 600 018.



PROPOSED SECOND FLOOR PLAN



EXISTING FIRST FLOOR PLAN

Plan Showing The Proposed Construction Of Ground +2 Floors Residential Building With Single Dwelling unit at Audco Nagar 2nd Main Road & Poonamallee Veedhi 4th Main Road, Kattupakkam, Chennai - 600056, Comprised in Old S.No.180/2A1B, New S.No. 180/3 Of Kattupakkam Village Within The Limit of Poonamallee Panchayat Union.

Planning Permit No :- 2538 18/A3, Dated :- 27.01.2017
 Kattupakkam Panchayat RC No :- 78/2016/2017
 Dated :- 10-02-2017
 Plot Approval (Site Approval) Obtained
 CMDA Vide PP No. B/SP/BLDG/Site Approval/ 01/2015 Lr. No. BC1/5167/2015, dtd. 30-06-15

- SPECIFICATIONS**
- R.C.C COLUMN, FOOTING AND PILES IN FOUNDATION.
 - COLUMNS AND PILES ARE CONNECTED BY PLINTH BEAMS.
 - MOSAIC FLOORING / SPARTAX FLOORING.
 - BRICK WORK IN BASEMENT AND SUPER STRUCTURE IN C.M 1:5.
 - WALLS ARE PLASTERED BY CEMENT PLASTER.
 - JOINERY WORK IN TEAK AND COUNTRY WOOD.
 - LINTEL OVER OPENING.
 - ROOF COVERED BY R.C.C SLAB.
 - ALL R.C.C WORK IN CEMENT CONCRETE M-25
 - WEATHERING COURSE LAID WITH PROPER SLOPE OVER R.C SLAB.

JOINERY DETAIL

NAME	DESCRIPTION	SIZE [W x H]
MD	Main Door	1.83 x 2.44
FD	French Door	3.81 x 2.44
PD	Pooja Door	1.98 x 2.44
D1	Door-1	1.22 x 2.44
D2	Door-2	1.22 x 2.44
D3	Door-3	0.91 x 2.44
W1	Window-1	4.26 x 1.98
W2	Window-2	3.05 x 1.98
W3	Window-3	2.44 x 1.98
W4	Window-4	1.83 x 1.98
W5	Window-5	1.52 x 1.98
W6	Window-6	1.22 x 1.98
KW	Kitchen Window	1.83 x 1.22
KW1	Kitchen Window	1.37 x 1.22
SW	Staircase Window	4.88 x 2.44
V1	Ventilator	0.91 x 0.91

SCALE : 1:100
 ALL DIMENSION ARE IN METRE
 COLOUR INDEX :-
 PROPOSED = [Symbol]
 EXISTING = [Symbol]
 BOUNDARY = [Symbol]
 ROAD = [Symbol]

OWNER SIGNATURE :-
 [Signature]

Dr. ALEX JACOB
 B.E., M.Tech (Struct), Ph.D (Tech),
 STRUCTURAL ENGINEER,
 41/A, BEACH ROAD, CHENNAI - 600 016
 REG. NO. RSE/01/1002/001
 REG. NO. RSE/1002/001

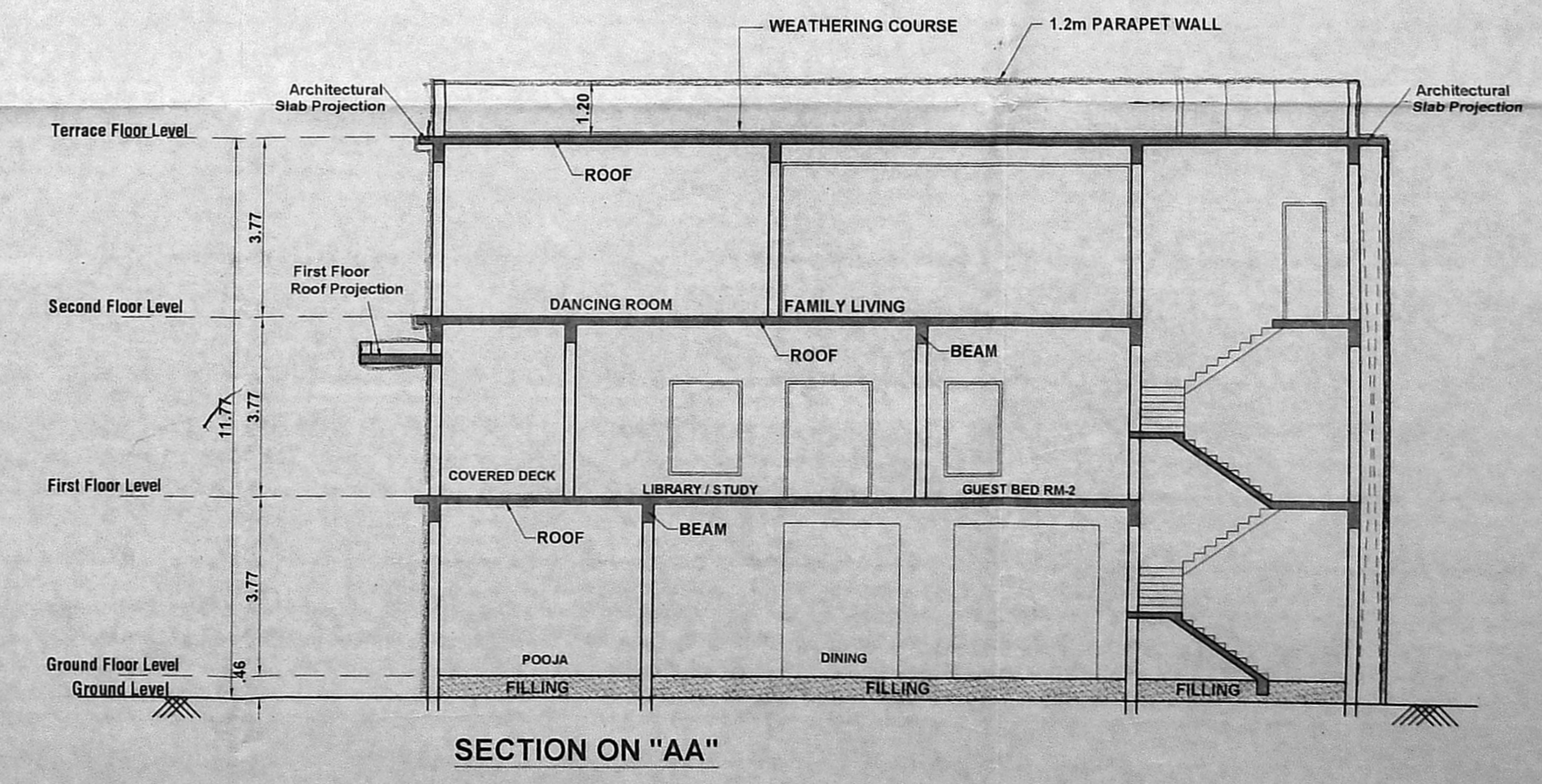
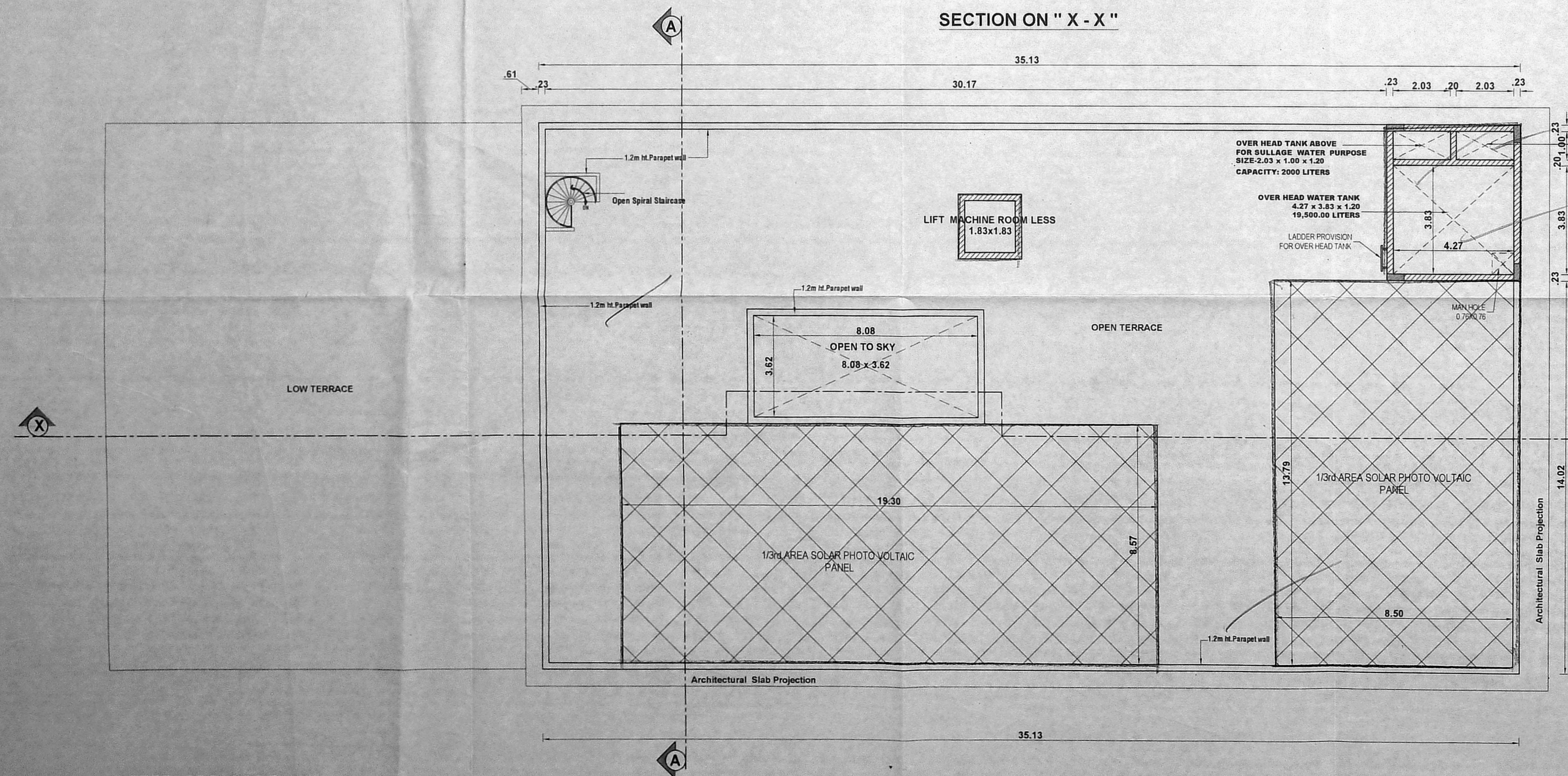
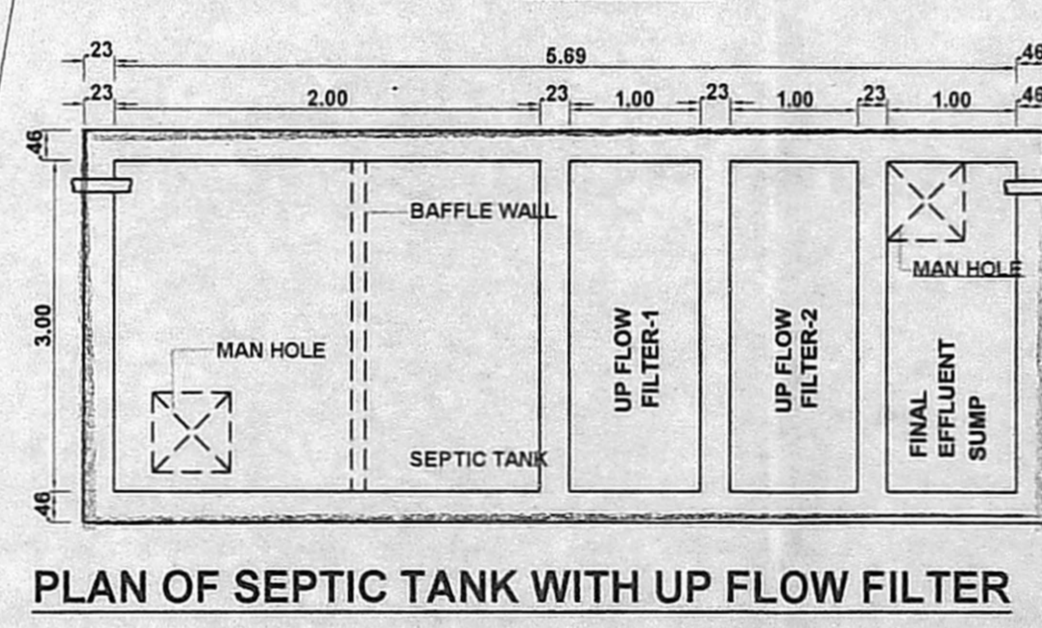
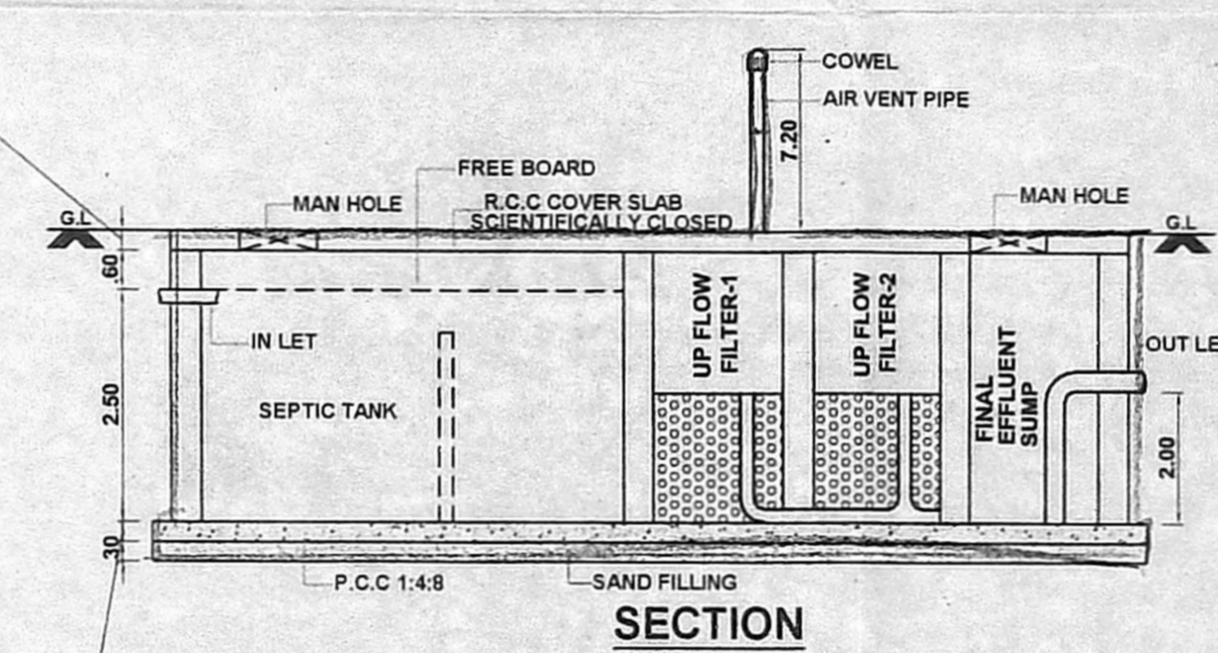
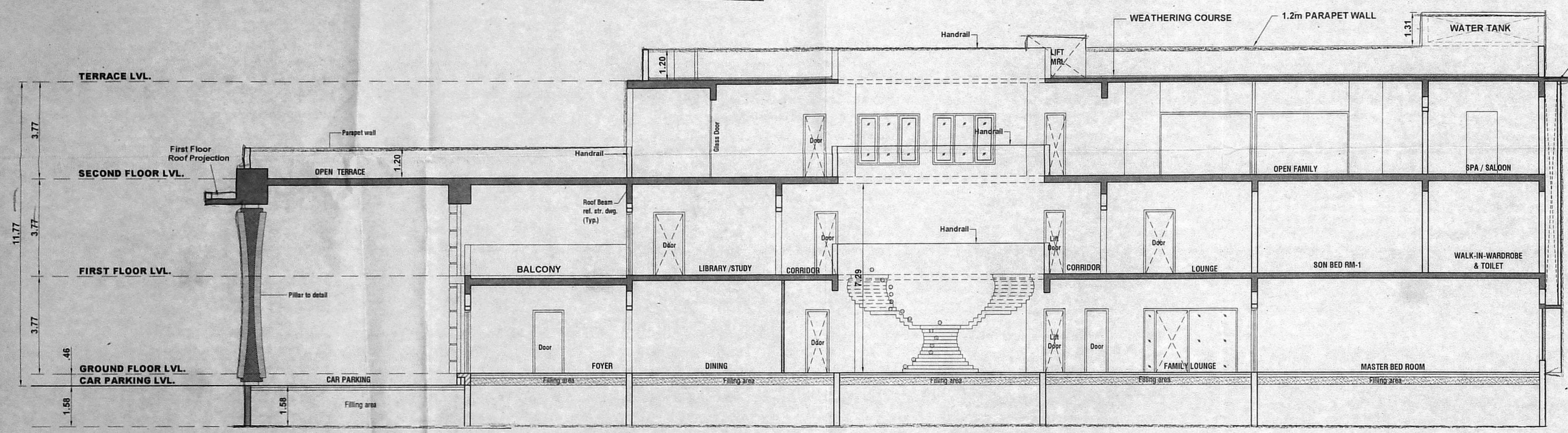
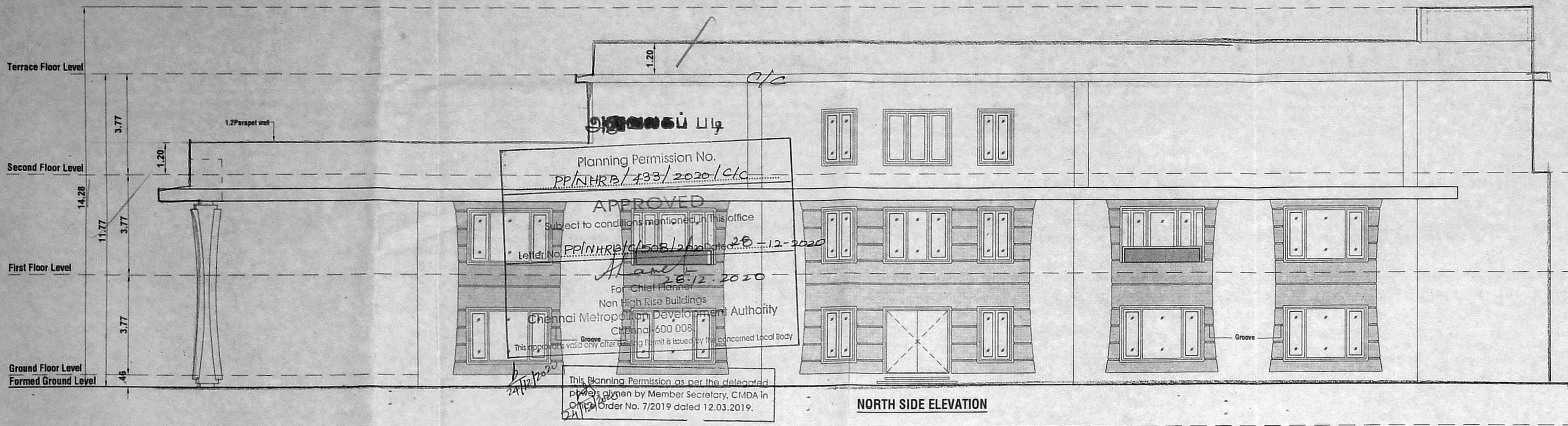
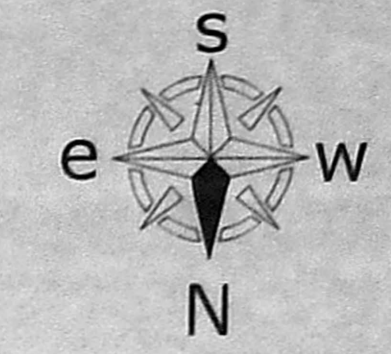
STRUCTURAL SIGNATURE :-
 [Signature]

REENA NISHADHLY LYDIA P.B.Arch
 COUNCIL OF ARCH. REG. NO. CA/200848301
 CMDA REGD. ARCH. NO. RA/01/1002/008
 DTP 3565, No. COLLECTOR'S OFFICE,
 CHENNAI CORPORATION REGD. NO. SA/19822019
 Door No. 31/14, II Floor, Cuvampah Road, I Street,
 Alwarpet, Chennai - 600 018.

LICENSED SURVEYOR :-

DESIGN CALCULATION FOR SEPTIC TANK WITH UP FLOW FILTER

No Of Dwellings	=	1 Dwellings
No Of Lives	=	1 x 5 = 5 Nos.
Total Number of Fixtures	=	3 Units
Assume a Peaking Factor 0 Litres per Fixture unit 3 x 6	=	18 Litres Per Minute
SEPTIC TANK		
Surface Area Required for Septic Tank	=	$\frac{18 \times 0.02}{10} = 1.056 \text{ M}^2$
Volume of Free Board	=	$1.056 \times 0.30 = 0.496 \text{ M}^3$
Volume of Digestion	=	$235 \times 0.002 = 7.52 \text{ M}^3$
Volume of Sludge	=	$6 \times 365 \times 0.0002 = 438 \text{ M}^3$
Volume of Sedimentation	=	$1.056 \times 0.30 = 0.496 \text{ M}^3$
TOTAL VOLUME	=	10.608 M³
Depth of Septic Tank	=	$\frac{10.606}{1.656} = 6.401 \text{ M}$
Required Depth	=	Say 2.50 M
Provided Depth	=	2.50 M
Ratio of Length and Breadth	=	2 : 1
Size of Septic Tank Required	=	$3.50 \text{ M} \times 1.75 \text{ M} \times 1.75 \text{ M}$
UPFLOW FILTER		
Up Flow Capacity Required	=	$6 \times 0.04 = 0.24 \text{ M}^3$
Depth Assumed	=	2.00 M
Hence Area of Final Effluent Surface Required	=	$\frac{0.24}{2.00} = 0.12 \text{ M}^2$
Therefore Area of Final Effluent Surface Provided	=	4.00 M ²
Size of Final Effluent Collection Sump Required	=	$2.00 \text{ M} \times 0.0042 \times 0.00 \text{ M} = 12.00 \text{ M}^3$
Therefore Size of Final Effluent Collection Sump Provided	=	$2.00 \text{ M} \times 3.00 \text{ M} \times 2.00 \text{ M} = 12.00 \text{ M}^3$
Size of Uplift Filter I Provided	=	$1.00 \text{ M} \times 3.00 \text{ M} \times 1.00 \text{ M}$
Size of Uplift Filter II Provided	=	$1.00 \text{ M} \times 3.00 \text{ M} \times 1.00 \text{ M}$
Provided Length of Septic Tank	=	5.60 M
Provided Breadth of Septic Tank	=	3.00 M
Provided Depth of Septic Tank	=	2.50 M



TERRACE FLOOR PLAN

SECTION ON "AA"