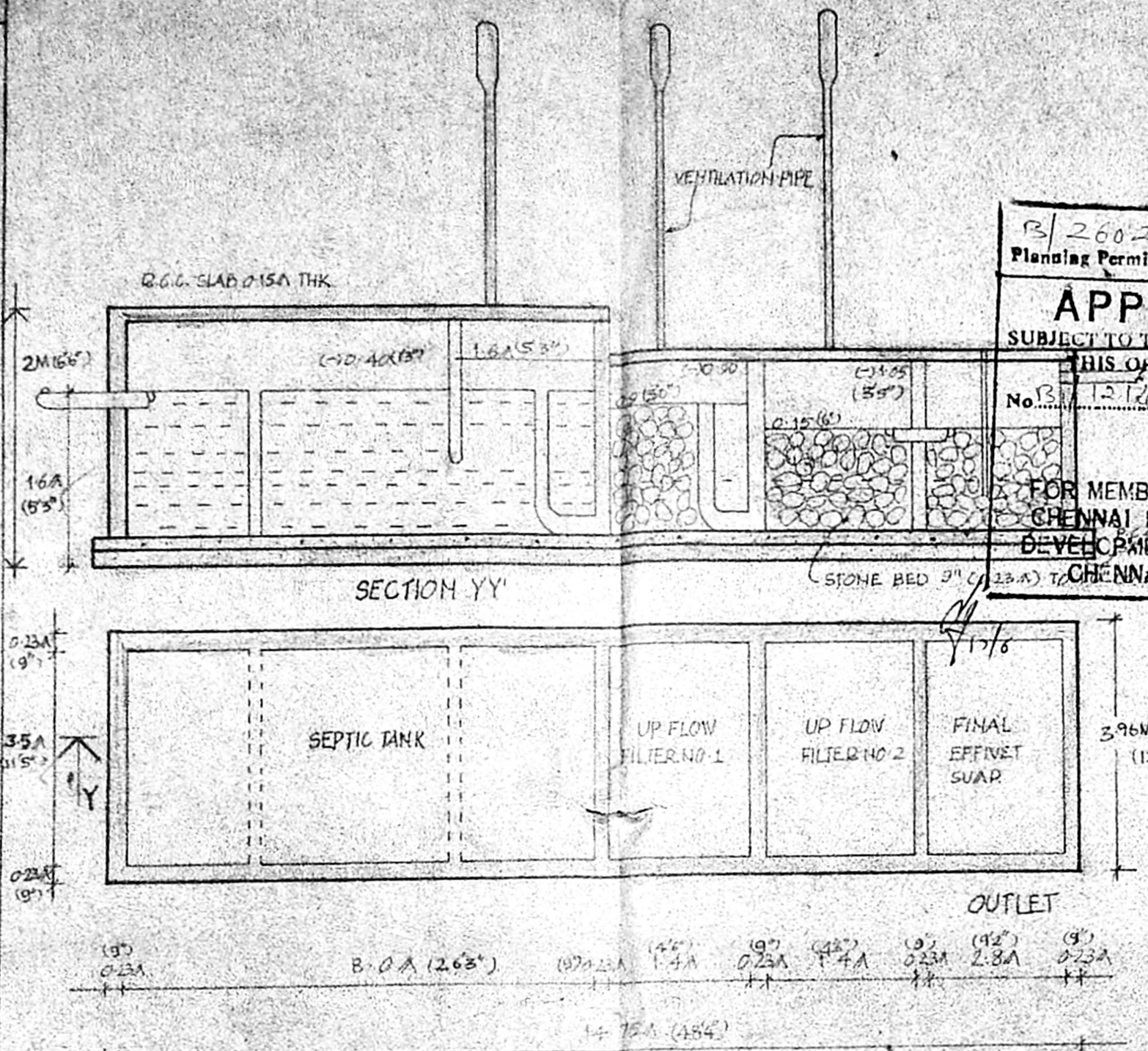


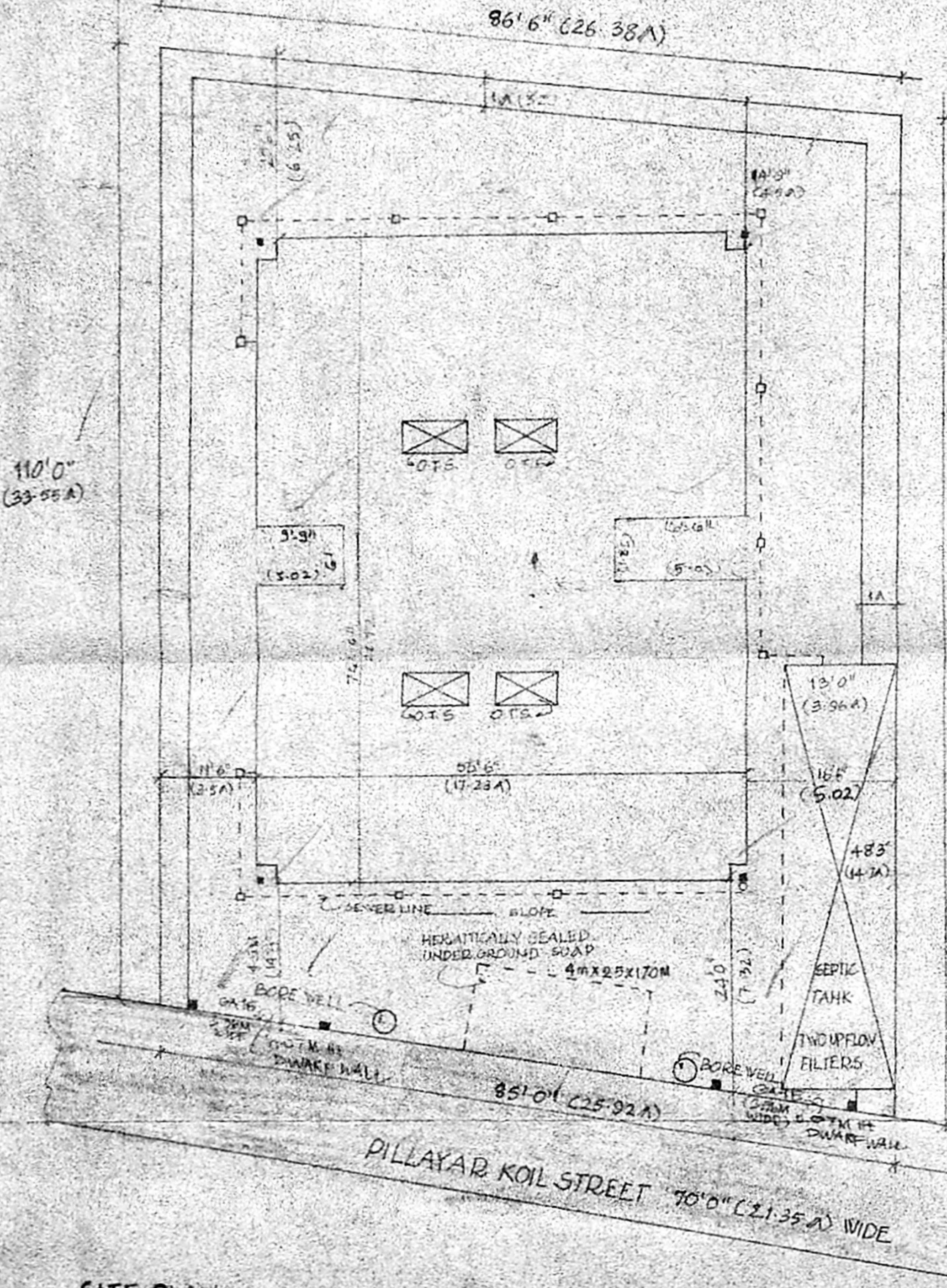
DESIGN OF SEPTIC TANK TWO UP FLOW FILTER

| | |
|---|----------------------------------|
| NO. OF DWELLING | 28 NOS |
| NO. OF USERS | 28 X 150 |
| RATE OF WATER SUPPLY IS | 150 LPH/DAY |
| THEN FLOW OF SEWAGE PER DAY | 140 X 150 |
| | 21000 LTS |
| RETENTION PERIOD IS | 15 HRS |
| TANK CAPACITY | 21000 X 15/24 = 15750 LTS |
| THE TANK IS TO BE CLEARED EVERY YEAR SO SLUDGE STORAGE CAPACITY AT THE RATE OF 15 LTS FOR PERSON PER YEAR | 140 X 15 X 21000/24 = 23100 LTS |
| WITH PROVISION FOR FUTURE EXPANSION LET THE TOTAL TANK CAPACITY BE 30,000 LTS OR 30 M ³ | |
| DEPTH OF LIQUID AS | 1.6M |
| PLAN AREA OF THE TANK | 50/1.6 = 31 M ² |
| THE RATIO OF LENGTH TO WIDTH OF TANK BE 5 | |
| LENGTH X BREADTH X 3 | 19 M ² |
| BREADTH OF TANK | 3.5 M |
| LENGTH OF TANK | 8 M |
| FREE BOARD OF THE TANK | 0.40 M |
| TOTAL DEPTH OF THE TANK | 1.6 + 0.4 = 2.0 M |
| PROVIDE TWO SEPTIC TANK EACH OF THE SIZE UPFLOW FILTERS | 8 X 3.5 X 2 M |
| DISCHARGE FOR 500 PERSONS | 75,000 LTS |
| VOLUME | 500 X 45 = 22,500 M ³ |
| DEPTH | 1.10 - 0.50 = 0.60 M |
| PLAN AREA REQUIRED | 22,500/0.60 = 28 M ² |
| SIZE OF FINAL EFF. TANK | 280 X 140 X 1.75 M |
| UP FLOW FILTER NO. 1 | 140 X 0.70 X 0.80 M |
| UP FLOW FILTER NO. 2 | 140 X 0.70 X 0.80 M |



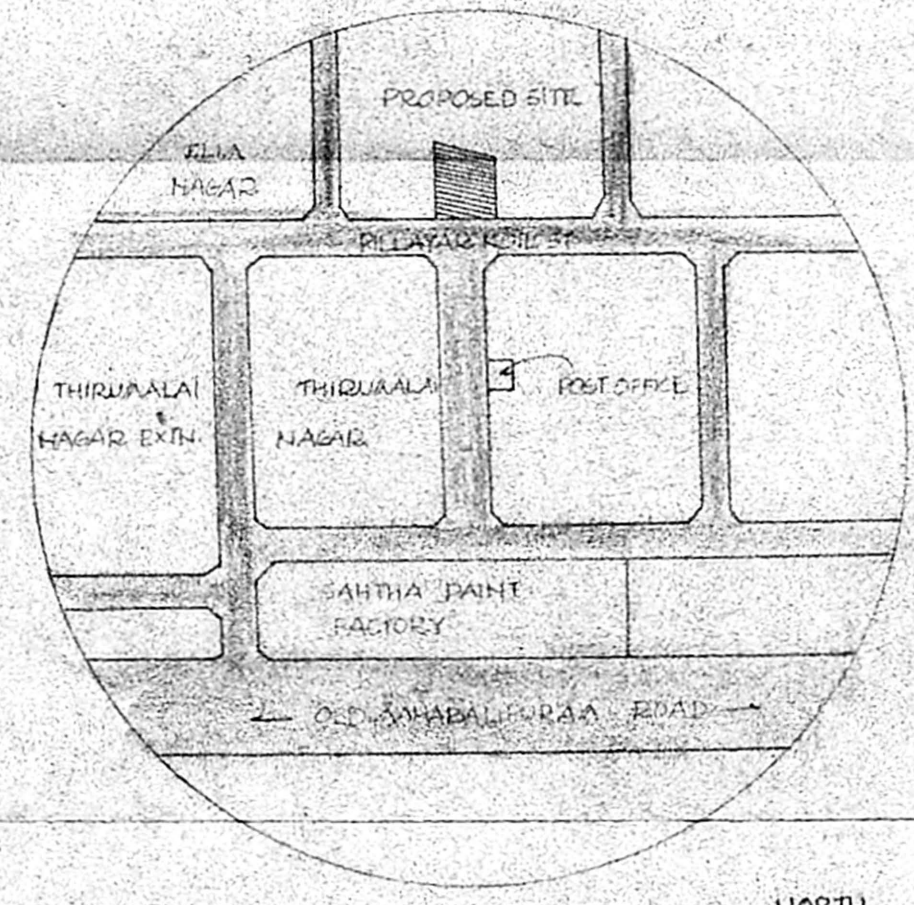
Planning Permit No. P/26026/183(A-R)/98
APPROVED
 SUBJECT TO THE CONDITIONS IN THIS OFFICE LETTER.
 No. 13/12/17 Date 6/98
 FOR MEMBER SECRETARY
 CHENNAI METROPOLITAN
 DEVELOPMENT AUTHORITY
 CHENNAI-600 008.

PLAN



SITE PLAN
SCALE: 1:100

DETAIL OF SEPTIC TANK
SCALE: 1:75
ALL DIMENSIONS ARE IN METRIC



KEY PLAN
NOT TO SCALE



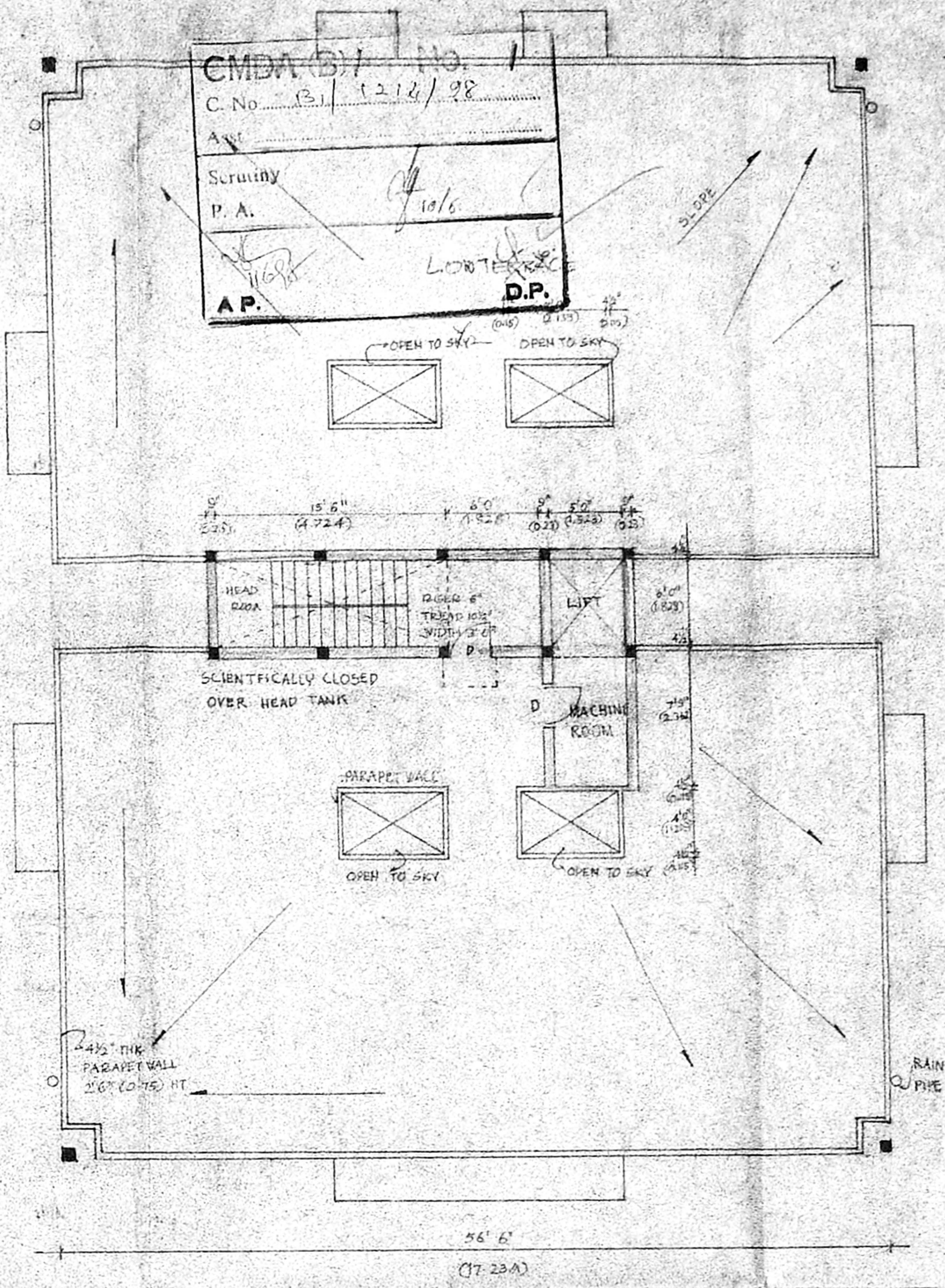
| COLOUR INDEX | |
|--------------|---------------|
| PROPOSED | [Red Line] |
| ROAD | [Blue Line] |
| BOUNDARY | [Black Line] |
| SEWER LINE | [Green Line] |
| WATER LINE | [Yellow Line] |

| | |
|-----------------------------------|---------------|
| SCALE: 1/8" = 1'0" (1:60) | [North Arrow] |
| DATE: 5/11/97 | |
| OWNER: POKKUNTI PROPERTIES (PVT.) | |
| CARRIED BY: SHANMUGA SRI | |

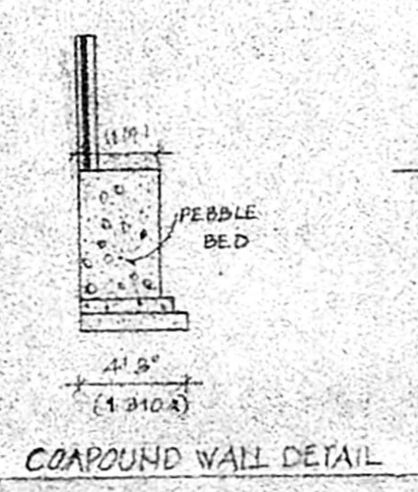
PROPOSED DWELLING UNITS IN
 SNO: 78/30, 78/57, PATTI NO: 137
 PLOT NO: II, DIVISION NO: 113,
 DOOR NO: 143, PILLAYAR KOIL ST,
 PERUNGUDI VILLAGE, SAIDAPET,
 TALUK CHANGAL, AGR. DIST
 (REVISED PROPOSAL)

LICENSED SURVEYOR
K. SELVAM, RE, AMIE
 Consulting Engineer, Chartered Engineer,
 Class - II License Surveyor Reg. No. 900
 Corporation of Chennai & Andhra Pradesh
 No. 1/376, Madhavapuram,
 CHENNAI-600 052

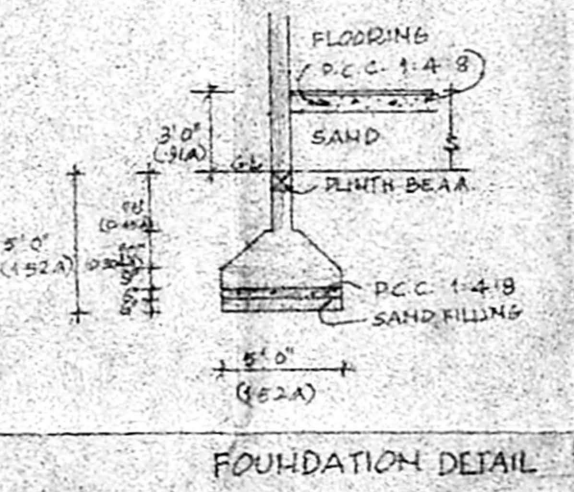
Revised Plan
5-6-98



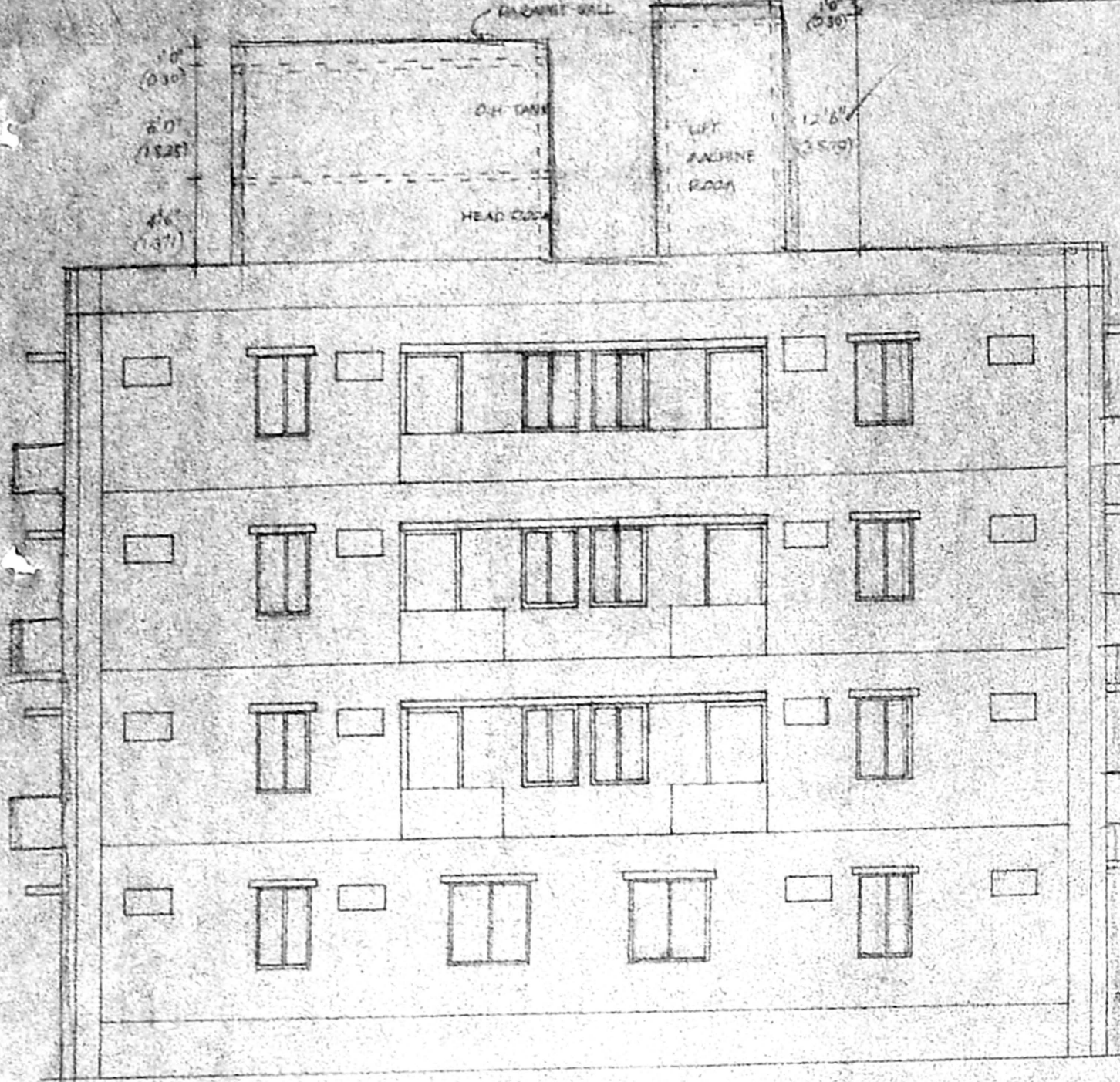
TERRACE PLAN



COAROUND WALL DETAIL



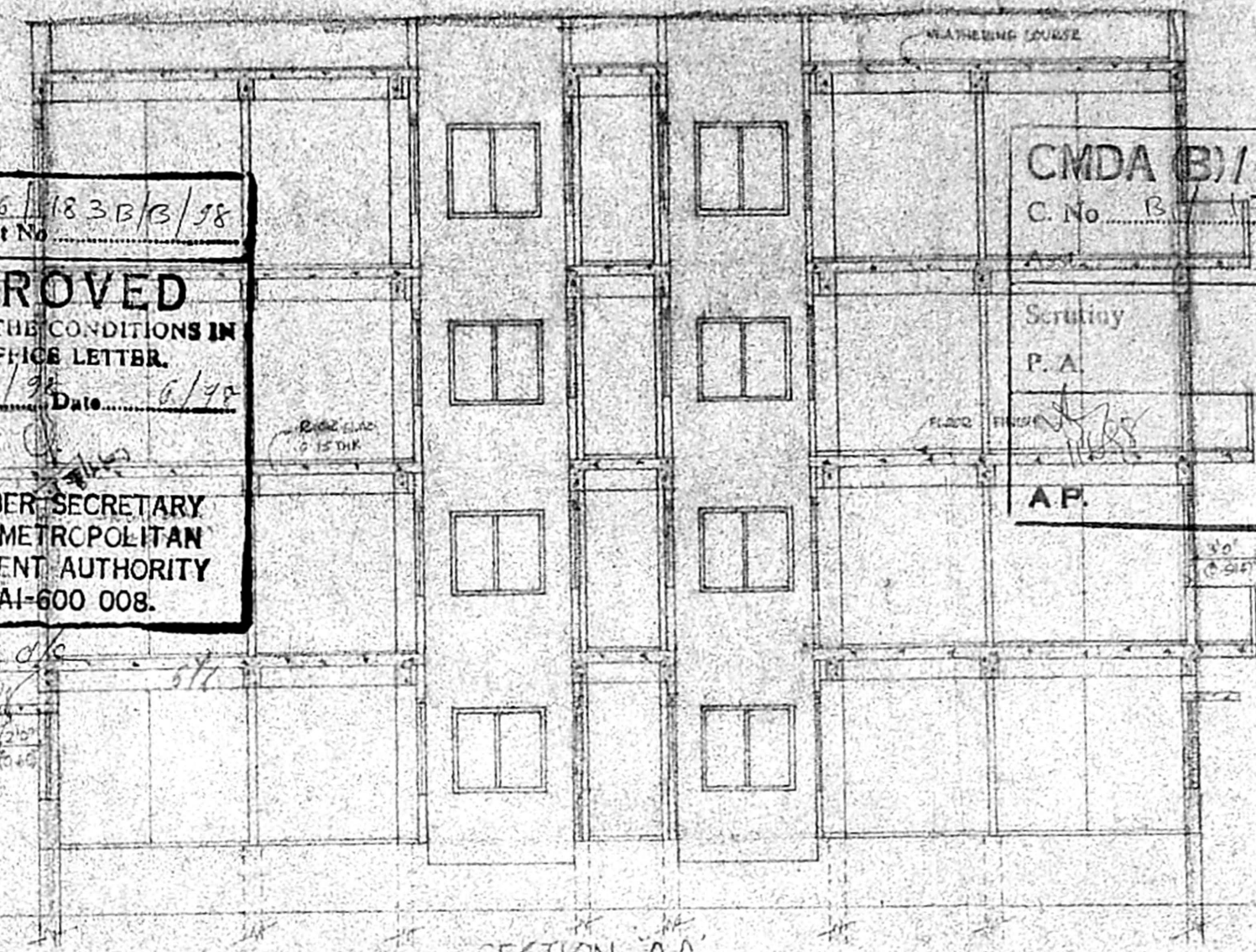
FOUNDATION DETAIL



ELEVATION

P/20026/183B/C/58
 Planning Permit No.
APPROVED
 SUBJECT TO THE CONDITIONS IN THIS OFFICE LETTER.
 No. 0/12/14/36 Date: 6/7/20
 FOR MEMBER SECRETARY
 CHENNAI METROPOLITAN
 DEVELOPMENT AUTHORITY
 CHENNAI-600 008.

4/16
 R. C. G. LAKSHMI
 015 710 1100



SECTION 'AA'

CMDA B/1 No. A.G.R. DIST.
 C.No. B/1/12/14/36

Scrutiny
 P.A.
 A.P.

PROPOSED DWELLING UNITS IN
 NO 78/3C, 78 5T PATTANO 137
 PLOT NO II DIV NO: 113, DOOR NO:
 14-3, PILLAYAR KOIL ST, PERUNGUDI
 VILLAGE, SAIDAPETTAI TALUK, CHANGAI.

| COLOUR INDEX | |
|--------------|--|
| PROPOSED | |
| BOUNDRY | |
| ROAD | |
| SEWER LINE | |
| WATER LINE | |

SCALE: 1/8" = 1'-0"
 DATE: 5.11.21

JOINERY DETAILS
 D DOOR 3'0" X 7'0" 0.90 X 2.13 A
 D DOOR 2'6" X 7'0" 0.76 X 2.13 A
 W WINDOW 4'6" X 4'6" 1.37 X 1.37 A
 W WINDOW 3'0" X 4'6" 0.90 X 1.37 A
 V VENTILATOR 2'6" X 2'0" 0.76 X 0.60 A

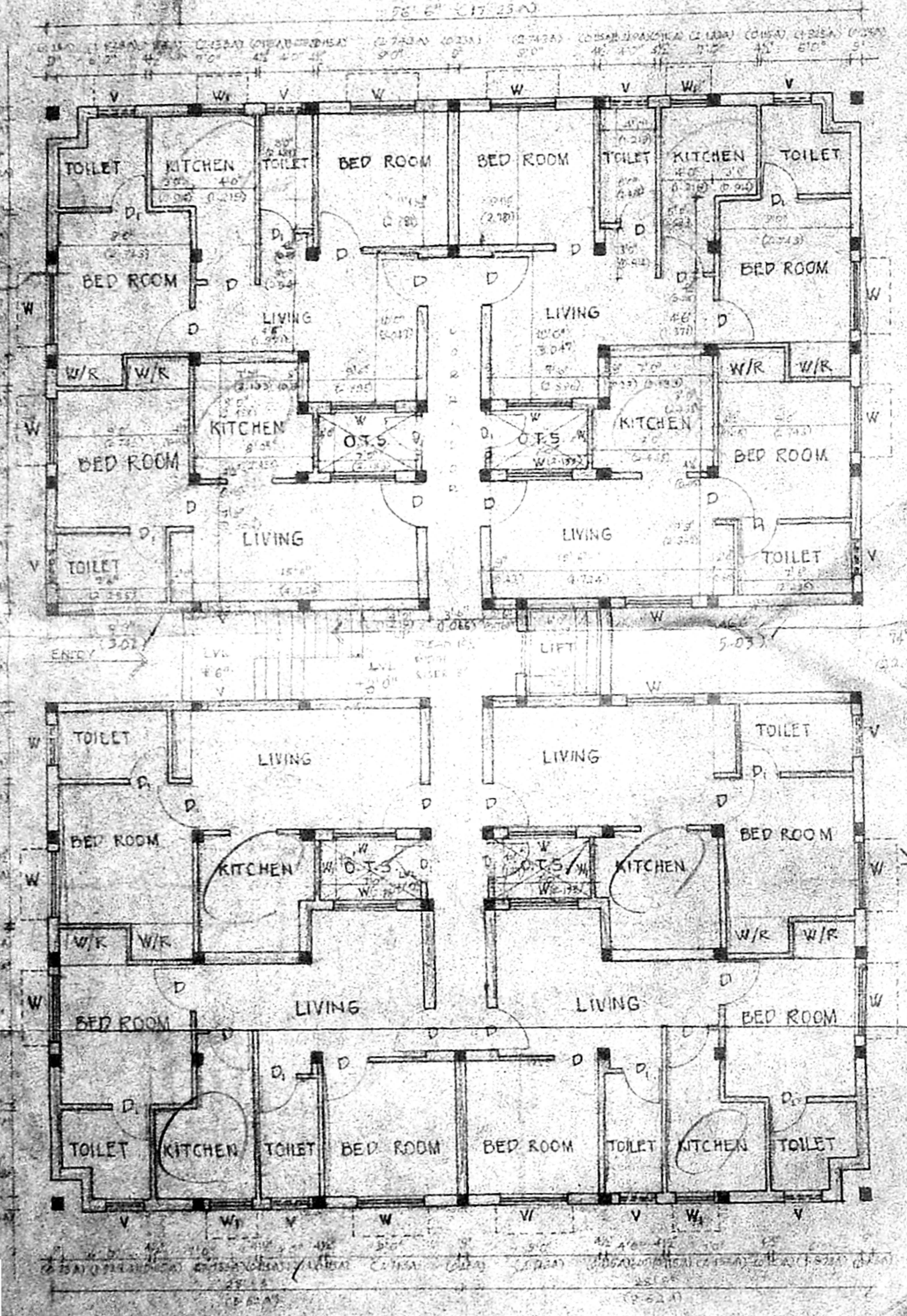
AREA STATEMENT

| | | |
|---------------------|--------------|-------------------------|
| PLOT AREA | 9604 SFT | 892.172 A ² |
| G FLOOR | 3914.75 SFT | 364.07 A ² |
| I FLOOR | 4108.25 SFT | 382.06 A ² |
| II FLOOR | 2250.00 SFT | 209.25 A ² |
| TOTAL BUILT UP AREA | 14381.25 SFT | 13374.44 A ² |
| PLOT COVERAGE | 40.16% | |
| F.S.I. | 1.43 | |

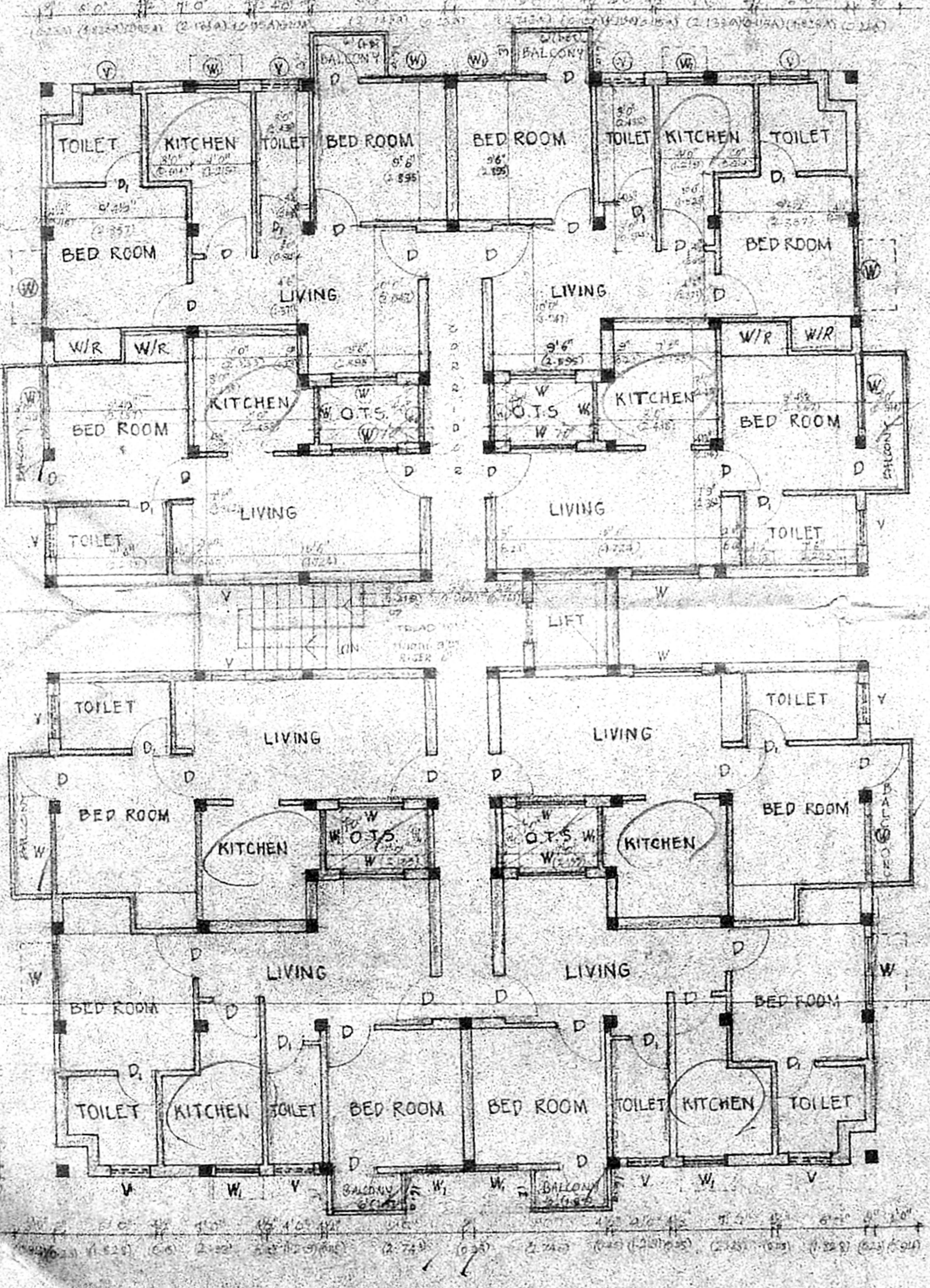
SPECIFICATION

FOUNDATION: COLUMN FOUNDATION
 R.C.C. WORK: R.C.C. 1:2:4 FOR COLUMNS, BEAMS AND SLABS
 BRICK WORK: B.V. CIA 1:5
 PLASTERING: CA 1:5 FOR WALLS AND 1:4 FOR CEILING
 FLOORING: MOSAIC FLOORING
 PAINTING: CEMENT PAINT
 JOINERIES: IN WOOD AND ALUMINIUM
 WEATHERING COURSE: OVER SLAB WITH ONE LAYER OF COUNTRY TILES ON 1:3 BRICKS WITH LIME MORTAR

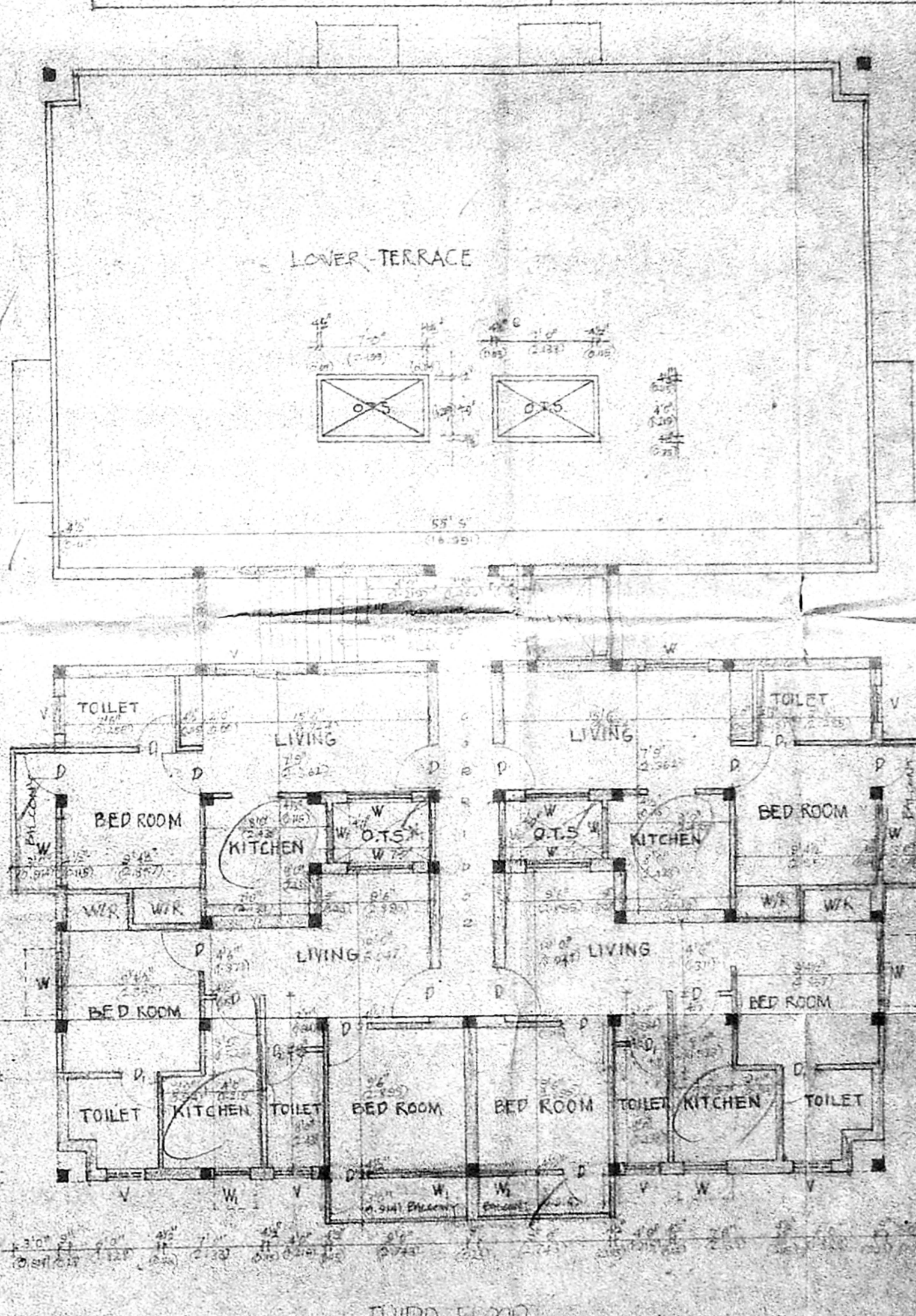
OWNER: *[Signature]*
 LICENSED SURVEYOR: *[Signature]*
 R. SELVAM, B.E., A.M.I.E.
 Consulting Civil Engineer, Chartered Engineer,
 Class - I Licensed Surveyor, Reg. No. 000
 Corporation of Chennai & Andhra Pradesh
 No. 1/370, Madhavai Road,
 CHENNAI-600 055.



GROUND FLOOR



TYPICAL I, II FLOOR



THIRD FLOOR