

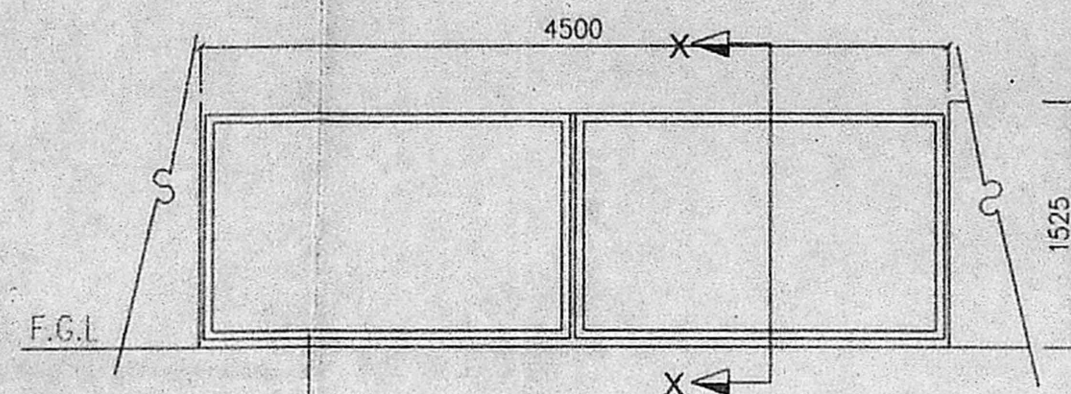
அலுவலகப் படி

திட்ட வரைபட அனுமதி எண்
C/PP/MSB/33 A/G/2017

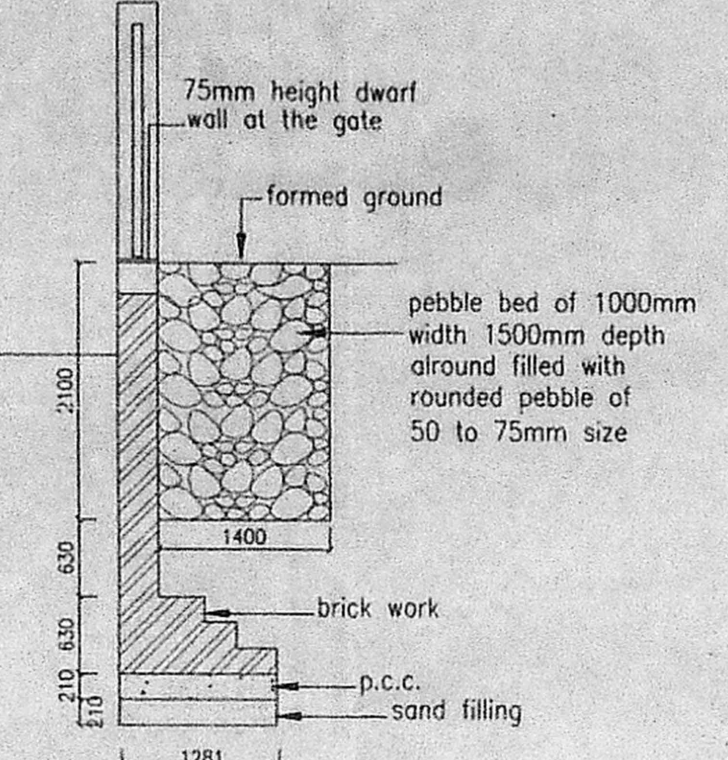
இவ்வலுவலகத் துறை எண் 2530/2017
நாள் 08/2016ம் குறிப்பிடப்பட்ட
வரையறைகளுக்கு உட்பட்டது.

உறுப்பினர் செயலாக்காக
சென்னைப் பெருநகர் வளர்ச்சிக் குழுமம்
மேலணை - 600 008

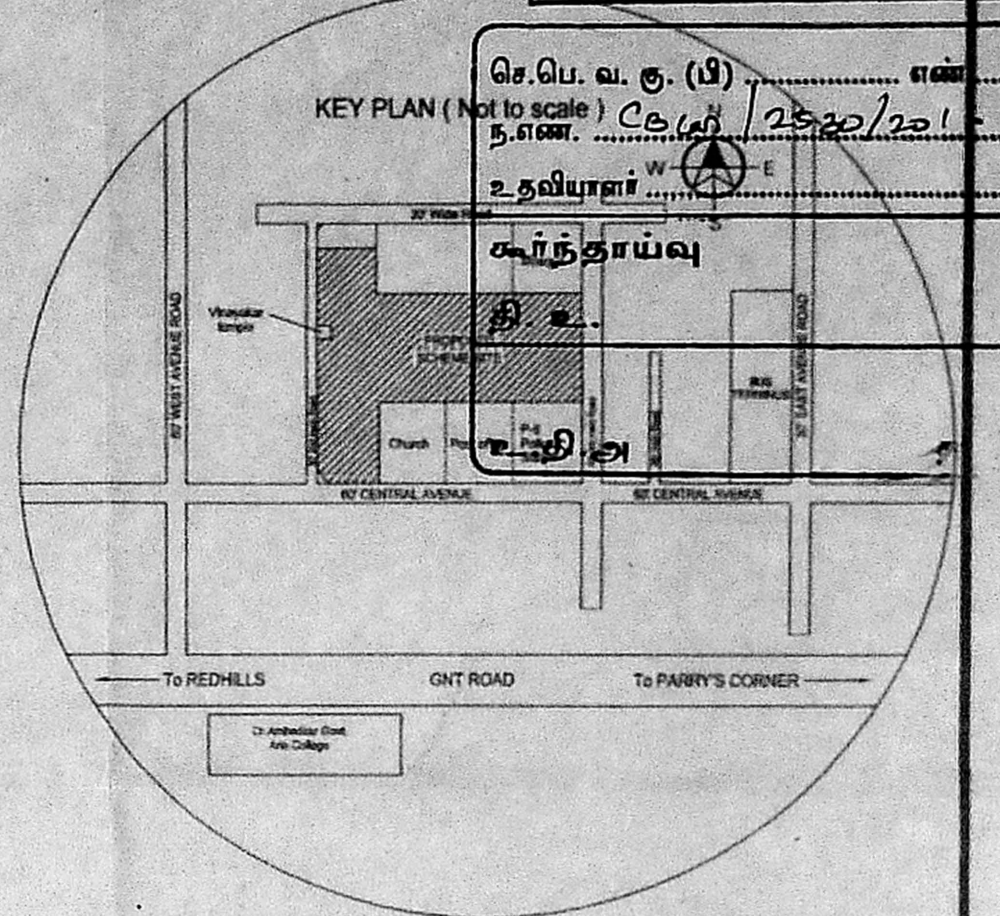
07/08/2017 11/08/17 4/10



ELEVATION COMPOUND WALL DETAIL



SECTION XX



Floor Level	Details of area of construction and usage permitted in each floor as per approved plan				Parking Area
	FSI Area RES	100% NFSI	10% NFSI	5% Balcony	
Block 1					
Slit Floor	55.30	169.49	-	-	483.51
First	628.30	26.20	-	24.71	-
Second	628.30	26.20	-	24.71	-
Third	628.30	26.20	-	24.71	-
Fourth	628.30	26.20	-	24.71	-
Fifth	628.30	26.20	-	24.71	-
Sixth	628.30	26.20	-	24.71	-
Seventh	628.30	26.20	-	24.71	-
Eighth	628.30	26.20	-	24.71	-
Ninth	628.30	26.20	-	24.71	-
Tenth	628.30	26.20	-	24.71	-
Eleventh	628.30	26.20	-	24.71	-
Twelfth	628.30	26.20	-	24.71	-
Thirteenth	628.30	26.20	-	24.71	-
Fourteenth	628.30	26.20	-	24.71	-
Fifteenth	628.30	26.20	-	24.71	-
Total	9394.50	448.30	169.49	370.65	463.51
Block 2, Block 3 & Block 4 Typical					
Slit Floor	41.10	145.34	-	-	360.50
First	480.99	26.86	-	19.76	-
Second	480.99	26.86	-	19.76	-
Third	480.99	26.86	-	19.76	-
Fourth	480.99	26.86	-	19.76	-
Fifth	480.99	26.86	-	19.76	-
Sixth	480.99	26.86	-	19.76	-
Seventh	480.99	26.86	-	19.76	-
Eighth	480.99	26.86	-	19.76	-
Ninth	480.99	26.86	-	19.76	-
Tenth	480.99	26.86	-	19.76	-
Eleventh	480.99	26.86	-	19.76	-
Twelfth	480.99	26.86	-	19.76	-
Thirteenth	480.99	26.86	-	19.76	-
Fourteenth	480.99	26.86	-	19.76	-
Fifteenth	480.99	26.86	-	19.76	-
Total	7214.65	444.00	145.34	266.70	360.50
Total (All Blocks)	31039.05	1780.30	605.51	1260.75	1545.01

PLOT EXTENT : 9563.82 Sq.m
TOTAL F.S.I : 31039.05 = 3.245
PLOT COVERAGE : 9563.82 = 21.63%
PERMISSIBLE F.S.I : 3.250
PROVIDED F.S.I : 3.245

TOTAL NO. OF TWO WHEELER (Required) = 569 NOS
TOTAL NO. OF TWO WHEELER (provided) = 569 NOS

NOTES
1. All dimensions are in cm.
2. Figured dimensions shall be followed.
3. Window panels should have 2 leaves. (upper & lower)
4. Columns, beams, foundations, etc., may be adopted as per structural design.
5. Refer for file No TP1/4588/2008
6. Refer for site plan No. TP.NO. 6/16
7. CMDA Approved Layout No- PP D/L ON TNHB-10/2008

COLOUR INDEX
PROPOSED ROAD BOUNDARY

TAMIL NADU HOUSING BOARD
PLANS SHOWING THE PROPOSED CONSTRUCTION OF MSB BUILDING CONSISTING OF BLOCK 1, BLOCK 2, BLOCK 3 AND BLOCK 4 OF (STILT FLOOR PART / GROUND-FLOOR PART + 15 FLOORS) RESIDENTIAL BUILDING WITH 510 DWELLING UNITS IN SURVEY NO 738 PART, 739 PART, 742 AND 743 PART, PERAMBUR VILLAGE, PURASAWALKKAM TALUK, CHENNAI -39

GREATER CHENNAI CORPORATION ZONE -IV DIVISION-37
(SPECIAL PROJECT DIVISION - 1) SCALE 1:250

DRAWN : DIVISION

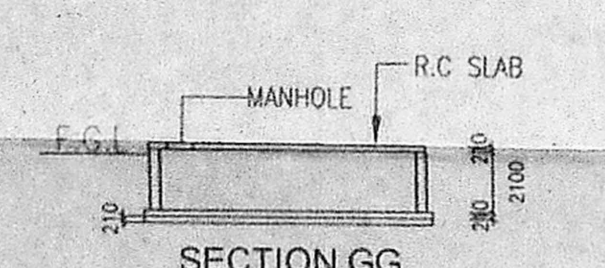
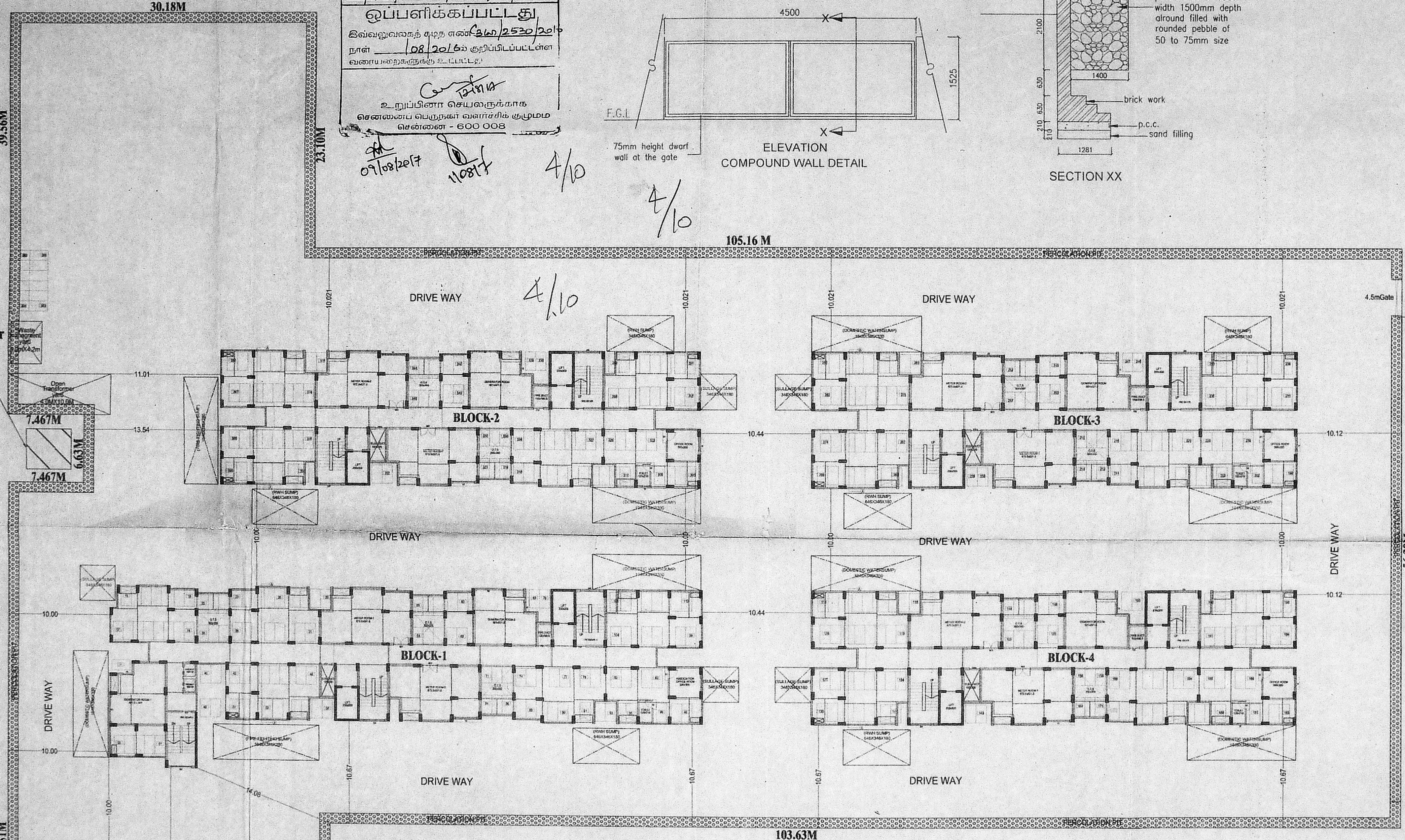
SD/ M.L. RAJASEKARAN DT. 20.07.16 TOWN PLANNER (I/c)

SD/ S. ELANGOVAN DT. 20.07.16 SUPDTG ENGINEER(HQ)

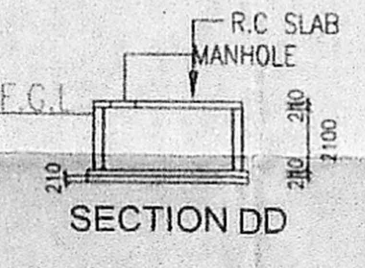
TP.No. 23 16

SD/S. SELVAKUMAR DT. 20.07.16 CHIEF ENGINEER(U)

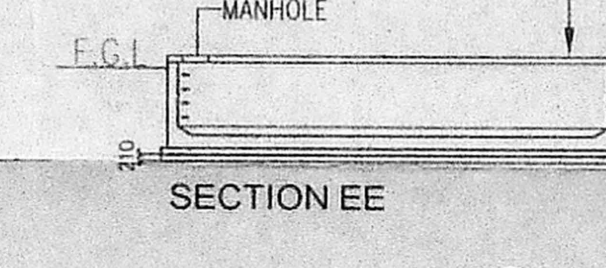
SHEET NO. 01/07



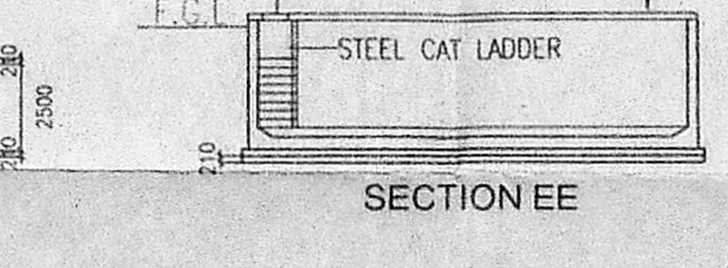
SECTION GG



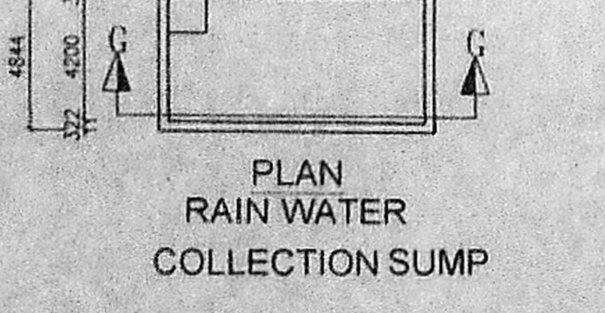
SECTION DD



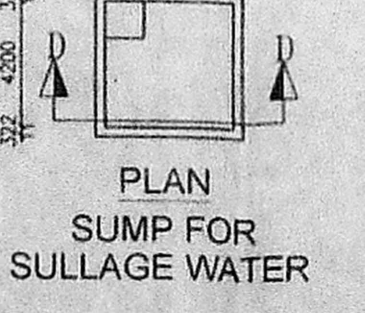
SECTION EE



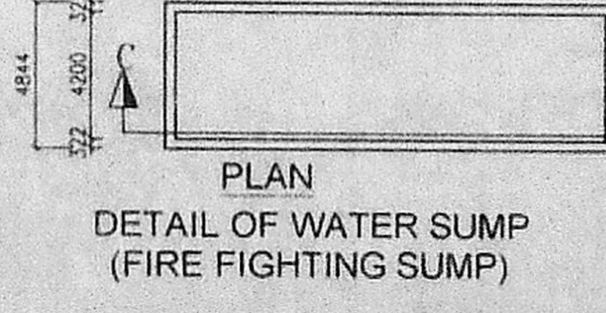
SECTION EE



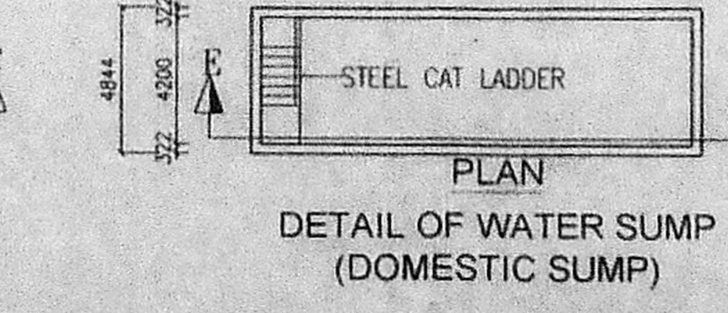
PLAN RAIN WATER COLLECTION SUMP



PLAN SUMP FOR SULLAGE WATER



DETAIL OF WATER SUMP (FIRE FIGHTING SUMP)



DETAIL OF WATER SUMP (DOMESTIC SUMP)

SD/ *****
C.SATHYA VAKESH B ARCH
reg.no - CA 2007 / 41920
i core architects
2-A 2ND street, Elango Nagar
padi chennai-600050
ARCHITECT

SD/ *****
DT. 18.07.16
A.E.E
SPECIAL PROJECT DIVISION-I

SD/ *****
DT. 18.07.16
E.E & A.D.O
SPECIAL PROJECT DIVISION-I

SD/ *****
DT. 18.07.16
S.E
PROJECT CIRCLE

Applicant
Executive Engineer & ADO,
Special Project Division-1,
Tamil Nadu Housing Board,
Ashok Nagar, Chennai - 83.

Architect / Licensed Surveyor
C. Sathya Vakesh B Arch
Director
i core architects
2-A 2nd Street, Elango Nagar,
Padi, Chennai - 600 050

Structural Consultant
ALEX JACOB
B.E., M.Tech., Dip. Bdg. Sc., M.I.E. (Inst)
STRUCTURAL ENGINEER
41/A, BEACH ROAD,
KALAKSHETRA COLONY
CHENNAI - 600 050.
Class I.L.S. No. 433

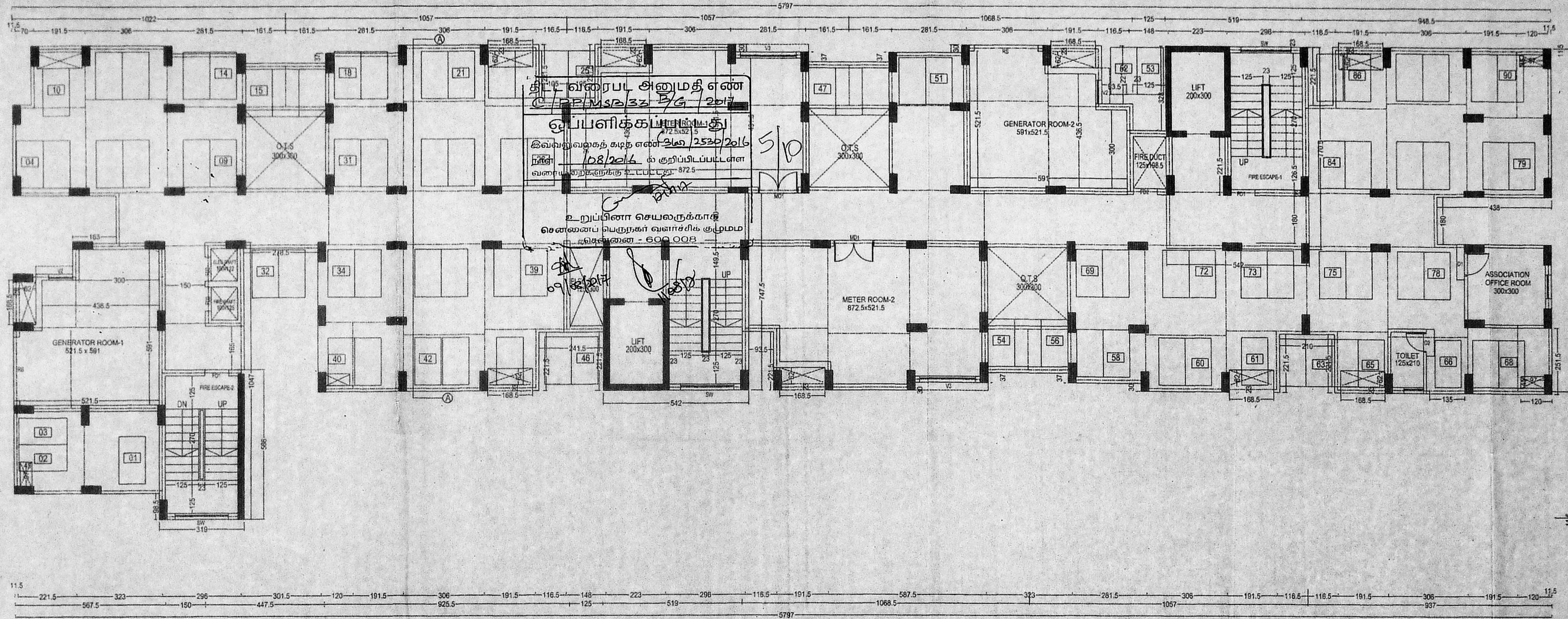
BORE WELL DETAIL (NOT TO SCALE)

600' WIDE ROAD

Dwarf wall at 7.5cm ht.

BLOCK-1

அலுவலகப் படி



STILT FLOOR PLAN PART / GROUND FLOOR PART - BLOCK-1

திருத்திய வரைபடம்... I st
 நாள்... 9.05.2017
 செ.பெ. வ. கு. (பி) ஏன்
 5.எண்... 2530/2016
 உதவியாளர்
 காந்தாய்வு
 தி...
 உ.தி.அ

SD/ *****
 C.SATHYA VAKESH B ARCH
 REG. NO. - CA 2507 / 41920
 I CORE ARCHITECTS
 2-A 2ND STREET, ELANGO NAGAR
 PADDI, CHENNAI - 600 080
 ARCHITECT

SCHEDULE OF JOINERY

MD1	DOUBLE DOOR	150 x 210
D1	DOOR	90 x 210
D2	DOOR	75 x 210
W	WINDOW	90 x 155
V1	VENTILATOR (lower)	75 x 67
V2	VENTILATOR	90 x 60
V3	VENTILATOR	210 x 90
FD1	FIRE DOOR	100 x 210
FD2	FIRE DOOR	90 x 210
RS	ROLLING SHUTTER	240 x 240
SD	SHAFT DOOR	75 x 150

- NOTES
- All dimensions are in cm.
 - Figured dimensions shall be followed.
 - Window panels should have 2 leaves (upper & lower)
 - Columns, beams, foundations, etc., may be adopted as per structural design.
 - Refer for file No TP14568/2006
 - Refer for site plan No 6/16
 - For superceding dng no.13/08 to 26/08&10/16 to 15/16 TP No 6/16

COLOUR INDEX
 PROPOSED ROAD BOUNDARY

TAMIL NADU HOUSING BOARD
 PLANS SHOWING THE PROPOSED CONSTRUCTION OF
 MSB BUILDING CONSISTING OF BLOCK 1, BLOCK 2,
 BLOCK 3 AND BLOCK 4 OF (STILT FLOOR PART / GROUND
 FLOOR PART + 15 FLOORS) RESIDENTIAL BUILDING WITH
 510 DWELLING UNITS IN SURVEY NO 738 PART, 739 PART,
 742 AND 743 PART, PERAMBUR VILLAGE, PURASAWALKKAM
 TALUK, CHENNAI - 39
 GREATER CHENNAI CORPORATION ZONE - IV DIVISION-37

(SPECIAL PROJECT DIVISION-1) SCALE: 1:100

DRAWN	DIVISION	DATE	DESIGNATION
SD/ S. KARTHICK	DT. 20.07.16	DT. 20.07.16	JUNIOR ENGINEER
SD/ M. L. RAJASEKARAN	DT. 20.07.16	DT. 20.07.16	TOWN PLANNER
SD/ R. CHITRAPOONNI	DT. 20.07.16	DT. 20.07.16	ASST ARCHITECT
SD/ S. SELANGOVAN	DT. 20.07.16	DT. 20.07.16	SUPDTG ENGINEER (HO)

SD/ *****
 DT. 18.07.16
 A.E.E
 SPECIAL PROJECT DIVISION-I

SD/ *****
 DT. 18.07.16
 E.E & A.D.O
 SPECIAL PROJECT DIVISION-I

SD/ *****
 DT. 18.07.16
 S.E
 PROJECT CIRCLE

Applicant

 Executive Engineer & ADO,
 Special Project Division-1,
 Tamil Nadu Housing Board,
 Ashok Nagar, Chennai - 83.

Architect /
 Licensee / Surveyor

 C. Sathya Vakesh B Arch
 Director
 i core architectn
 2-A 2nd Street, Elango Nagar,
 Padi, Chennai - 600 080.

Structural
 Consultant

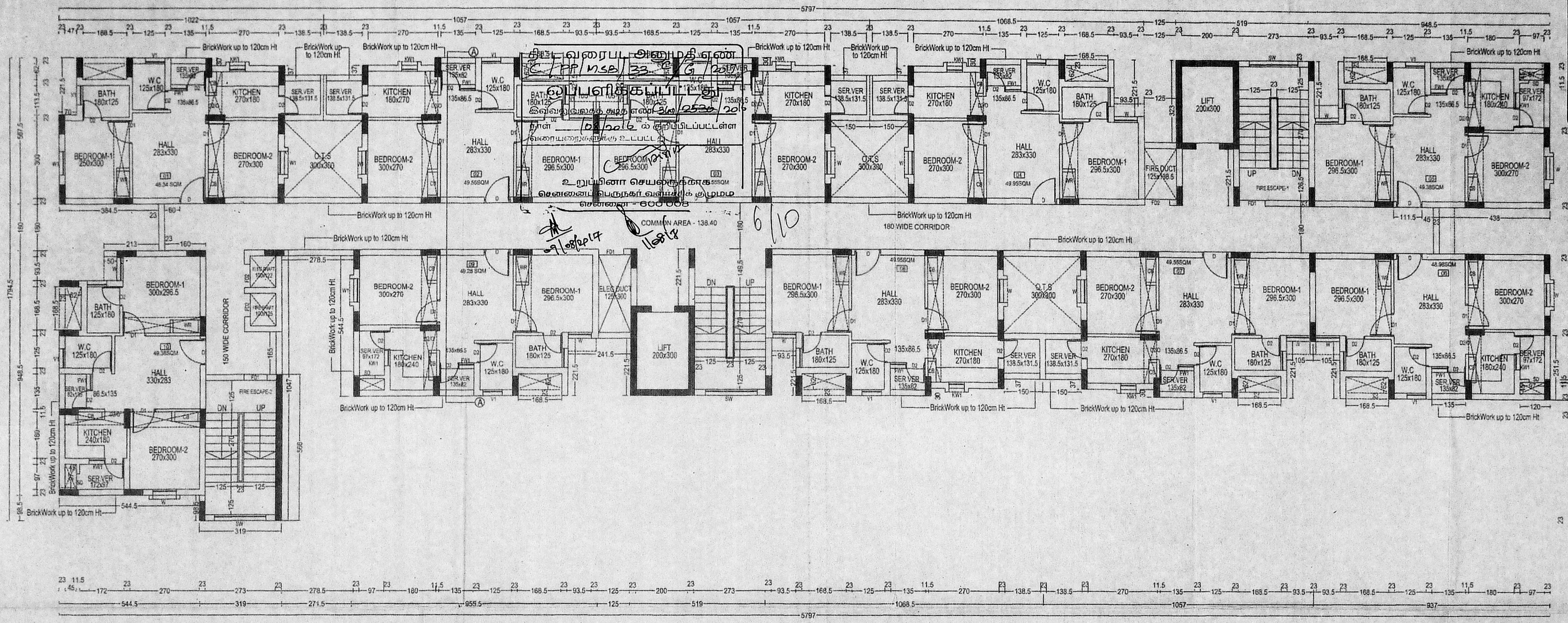
 ALEX JACOB
 B.E., M.Tech., Dip. Bdg. Sc., M.A.E. (Aust)
 STRUCTURAL ENGINEER
 41/A, BEACH ROAD,
 KALAKSHETRA COLONY
 CHENNAI - 600 090.
 Class I L.S. No. 439

MSB.NO
 38 16
 SHEET NO: 02/07

BLOCK-1

அலுவலகப் படி

திருத்திய வரைபடம் T.S.
நாள் 9.05.2017



செ.பெ.வ.கு.(பி) எண்.....
ந.எண். CA/2523/2016
உதவியாளர்.....
கார்த்தாய்வு.....

SCHEDULE OF JOINERY

D	DOOR	100 x 210
D1	DOOR	90 x 210
D2	DOOR	75 x 210
D2/O	DOOR OPENING	75 x 210
FW1	FRENCH WINDOW	60 x 200
W	WINDOW	90 x 135
KW1	KITCHEN WINDOW	60 x 105
V	VENTILATOR (louvered)	75 x 57
FD1	FIRE DOOR	100 x 210
FD2	FIRE DOOR	90 x 210
RS	ROLLING SHUTTER	240 x 240
SD	SHAFT DOOR	75 x 150
SW	STAIRCASE WINDOW	200 x 90

- NOTES
- All dimensions are in cm.
 - Figured dimensions shall be followed.
 - Window panels should have 2 leaves.
 - Columns, beams, foundations etc. may be adopted as per structural design.
 - Refer for file No TP14589/2005
 - Refer for site plan No B/16
 - For superimposing dig no.13/08 to 25/08/10/18 to 15/16 TP No B/16

COLOUR INDEX

PROPOSED ROAD BOUNDARY

TAMIL NADU HOUSING BOARD
PLANS SHOWING THE PROPOSED CONSTRUCTION OF MSB BUILDING CONSISTING OF BLOCK 1, BLOCK 2, BLOCK 3 AND BLOCK 4 OF (STILT FLOOR PART / GROUND FLOOR PART + 15 FLOORS) RESIDENTIAL BUILDING WITH 510 DWELLING UNITS IN SURVEY NO 738 PART, 739 PART, 742 AND 743 PART, PERAMBUR VILLAGE, PURASAWALKKAM TALUK, CHENNAI - 38

GREATER CHENNAI CORPORATION ZONE - IV DIVISION-37

(SPECIAL PROJECT DIVISION-1) SCALE 1:100



DRAWN	DIVISION
SD/ S.KARTHYCK DT:20.07.16 JUNIOR ENGINEER	SD/ R.CHITRAPOORN DT:20.07.16 ASST ARCHITECT
SD/ M.L.RAJASEKARAN DT:20.07.16 TOWN PLANNER	SD/ S.ELANGOVAN DT:20.07.16 SUPERVISOR ENGINEER(I-Q)

MSB.NO
39 16
SHEET NO: 03/07

TYPICAL FLOOR PLAN BLOCK-1 (1ST TO 15TH FLOOR)

SD/ *****
C SATHYA VAKESH B ARCH
reg no - CA 2007 / 41920
Lead architect
2-A 2nd Street, Elango Nagar
padi chennai-600050
ARCHITECT

SD/ *****
DT:18.07.16
A.E.E
SPECIAL PROJECT DIVISION-I

SD/ *****
DT:18.07.16
E.E & A.D.O
SPECIAL PROJECT DIVISION-I

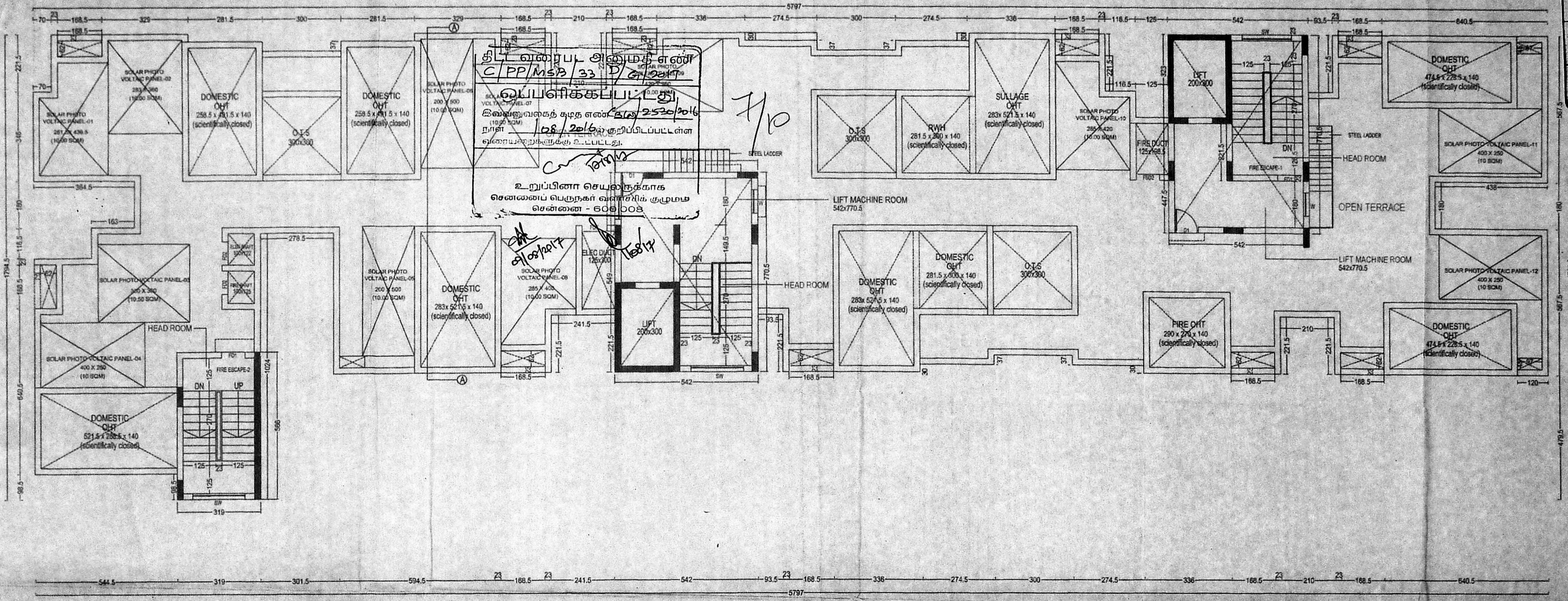
SD/ *****
DT:18.07.16
S.E
PROJECT CIRCLE

Applicant	Architect / Licensed Surveyor	Structural Consultant
 Executive Engineer & ADO., Special Project Division-1, Tamil Nadu Housing Board, Ashok-Nagar, Chennai - 600 050	 C. Sathya Vakesh B. Arch Director i core architect. 2-A 2nd Street, Elango Nagar, Padi, Chennai - 600 050.	 ALEX JACOB B.E., M.Tech., Dip. Bdg. Sc., M.I.E. (Austl) STRUCTURAL ENGINEER 41/A, BEACH ROAD, KALAKSHETRA COLONY CHENNAI - 600 050, Class I. L. S. No. 433

BLOCK-1

அலுவலகப் படி

திருத்திய வரைபடம் 1st
நாள் 9.05.2017



செ.பெ. வ. கு. (பி)
நாள் 25/05/2016
உதவியாளர்
கார்ந்தாய்வு
தி. உ.
உ.தி.அ

SD/****
C.SATHYA VAKESH B ARCH
reg.no - CA 2007 41920
1 core architects
2-A 2nd Street, Elango Nagar
padi chennai-600090
ARCHITECT

SCHEDULE OF JOINERY	
D1 DOOR	90 x 210
W WINDOW	90 x 135
FD1 FIRE DOOR	100 x 210

SOLAR PHOTO VOLTAIC PANEL	
TOTAL OPEN TERRACE AREA	3790 SQM
1SRD OF THE TERRACE AREA	119.30 SQM
SOLAR PHOTO VOLTAIC PANEL SIZE	1600 SQM
TOTAL NO OF PANELS PROVIDED	12 NOS

- NOTES
- All dimensions are in cm.
 - Figured dimensions shall be followed.
 - Window panels should have 2 leaves (upper & lower).
 - Columns, beams, foundations etc. may be selected as per structural design.
 - Refer for file No. T.P/MSB/2008
 - Refer for site plan No.

COLOUR INDEX
PROPOSED ROAD BOUNDARY

TAMIL NADU HOUSING BOARD
PLANS SHOWING THE PROPOSED CONSTRUCTION OF MSB BUILDING CONSISTING OF BLOCK 1, BLOCK 2, BLOCK 3 AND BLOCK 4 OF (STILT FLOOR PART / GROUND FLOOR PART - 15 FLOORS) RESIDENTIAL BUILDING WITH 910 DWELLING UNITS IN SURVEY NO 738 PART, 738 PART, 742 AND 143 PART, PERAMBUR VILLAGE, PURASAWALKOM TALUK, CHENNAI - 39

GREATER CHENNAI CORPORATION ZONE - IV DIVISION - 57
(SPECIAL PROJECT DIVISION - I) SCALE 1:100



DRAWN	DIVISION
SD/ S.KARTHIK DT: 20.07.16 JUNIOR ENGINEER	SD/ R.CHITRAPOORN DT: 20.07.16 ASST ARCHITECT
SD/ M.L.RAJASEKARAN DT: 20.07.16 TOWN PLANNER	SD/ S.ELANGOCHAN DT: 20.07.16 SUPERV ENGINEERING

MSB.NO
40 16
SHEET NO 04/07

TERRACE FLOOR PLAN BLOCK-1

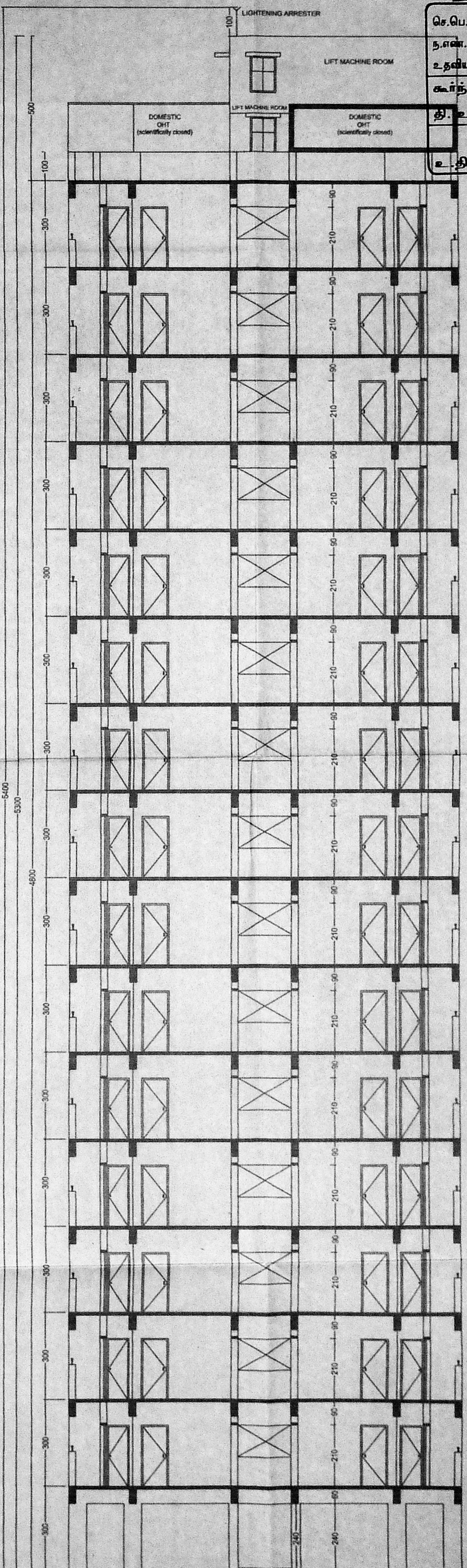
SD/**** DT: 18.07.16 A.E.E SPECIAL PROJECT DIVISION-I
SD/**** DT: 18.07.16 E.E & A.D.O SPECIAL PROJECT DIVISION-I
SD/**** DT: 18.07.16 S.E PROJECT CIRCLE

<p>Applicant</p> <p>B. S. Kumar Executive Engineer & ADO., Special Project Division-1, Tamil Nadu Housing Board, Ashok Nagar, Chennai - 83.</p>	<p>Architect / Licensed Surveyor</p> <p>C. Sathya Vakesh B Arch Director i core architects 2-A 2nd Street, Elango Nagar, FsdI, Chennai - 600 030.</p>	<p>Structural Consultant</p> <p>ALEX JACOB B.E. in Tech. Dip. Bdg. Sc. M.I.E (Aut) STRUCTURAL ENGINEER 41/A, BEACH ROAD, KALAKSHETRA COLONY CHENNAI - 600 090. Class I. L. S. No. 433</p>
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அலுவலகப் படி



திட்ட வரைபட அனுமதி எண்
 C/PP/MSB/33 E/G/2017
 ஒப்புளிப்பாட்டில்
 இவ்வலுவலகத்தின் கீழ் 16/05/2017
 நாள் 08/2016 இல் குறிப்பிடப்பட்டுள்ள
 மூலக்கட்டிட வரைபட உட்படி
 உறுப்பினர் சென்னை
 சென்னை - 600 002



செ.பெ. வ. கு. (3)
 நாள் 02/05/2016
 உதவியாளர்
 காந்தாய்வு
 தி. அ. தி. பி.

ELEVATION-SOUTH SIDE

SECTION - AA'

SC *****
 C SATHYA VASU SH S B ANCH
 Reg No - CA 2007 / 41020
 I care architects
 2-A 2ND street, Elanga Nagar
 post chennai-600050
 ARCHITECT

BLOCK-1
 NOTES
 1. All dimensions are in cm.
 2. Figured dimensions shall be followed.
 3. Window panels should have 2 leaves (open & close).
 4. Columns, beams, foundations etc. may be subjected as per structural design.
 5. Refer for the No. SP/MSB/2008
 6. Refer for site plan No.
 7. For supplementary fig no. 1308 to 2509

PROPOSED ROAD BOUNDARY

TAMIL NADU HOUSING BOARD
 PLAND SHOWING THE PROPOSED CONSTRUCTION OF
 1000 BUILDING CONSISTING OF BLOCK 1, BLOCK 2,
 BLOCK 3 & BLOCK 4 OF 15 FLOOR PART (GROUND
 FLOOR PART + 15 FLOORS) RESIDENTIAL BUILDING
 WITH 150 DWELLING UNITS IN SURVEY NO 738 PART,
 739 PART, 742 AND 743 PART, PERAMBUR VILLAGE,
 PERAMBUR TOWN TALUK, CHENNAI-38

GREATER CHENNAI CORPORATION ZONE - IV DIVISION-IV
 (SPECIAL PROJECT DIVISION-1) SCALE 1:100

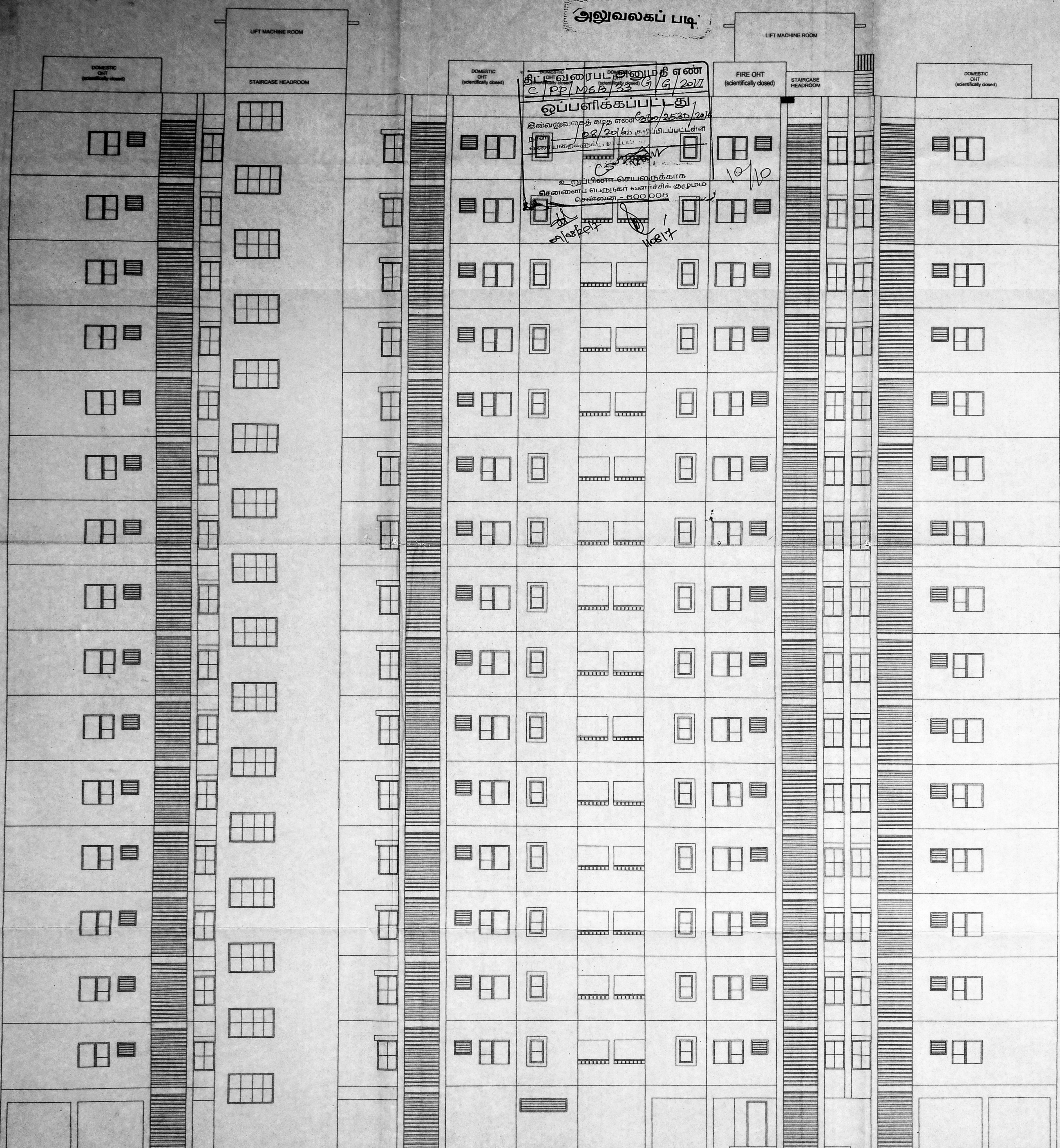
DRAWN DIVISION
 SDV S.KARTHIK DT.20.07.16 JUNIOR ENGINEER
 SDV R.CHITRAPOORN DT.20.07.16 ASST ARCHITECT
 SDV R.PALANISWARAN DT.20.07.16 TOWN PLANNER
 SDV S.ELANGOVAN DT.20.07.16 (SUPTD ENGINEER-42)

MSB.NO
 41 16
 SHEET NO 05/07

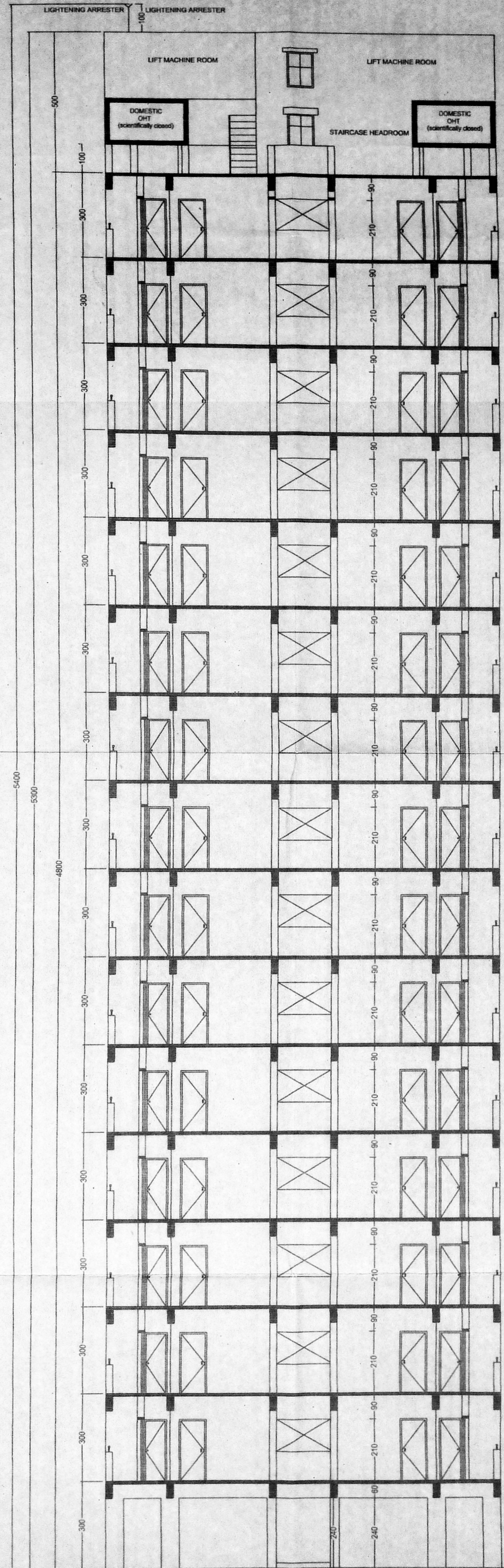
SDV ***** DT.18.07.16 A.E.E SPECIAL PROJECT DIVISION-1
 SDV ***** DT.18.07.16 E.E & A.D.O SPECIAL PROJECT DIVISION-1
 SDV ***** DT.18.07.16 S.E PROJECT CIRCLE

Applicant B. Annamalai Executive Engineer & A.D.O., Special Project Division-1, Tamil Nadu Housing Board, Ashok Nagar, Chennai - 83.	Architect / Licensed Surveyor C. Sathya Vasu Sh S B Anch Director I care architects 1-A, 2nd St, net, Elanga Nagar, Post, Chennai - 600 050.	Structural Consultant ALEX JACOB B.E.M. Reg. No. 509, Sec. 11, E. Aust STRUCTURAL ENGINEER 41/A, BEACH ROAD, KALAKSHETRA COLONY CHENNAI - 600 050 Class I, S. No 433	MSB.NO 41 16 SHEET NO 05/07
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அலுவலகப் படி



ELEVATION-SOUTH SIDE



SECTION - AA'

சிறுவரைப் பிள்ளைமதி ஏண்
C/PP/M6B/33 G/G/2017
ஒப்பளிக்கப்பட்டது
இவ்வழுவரைக் கழந் ஏண் 02/2530/2017
02/2016க் கட்டிடப்படிப்பிள்ளை
முறைப்படுத்தப்பட்டது.
உறுப்பினர் செயலாற்றக்காக
பெறவேண்டிய பெருநகர் வளர்ச்சிக் குழுமம்
சென்னை - 600 003
10/10
10/8/17

திருத்திய வரைபடம் T-27
நாள் 9.05.2017
செ.பெ. வ. கு. (19) எண்
5.எண். 02/2530/2016
உதவியாளர்
கர்ந்தாய்வு
தி. உ.
0-11-17

SD/****
C.SATHYA VAKESH B ARCH
reg.no - CA 2007 / 41920
I core architect
2-A 2ND street,Elango Nagar
padi chennai-600050
ARCHITECT

BOOK-2,3,4

D1 DOOR	90 x 210
W WINDOW	90 x 130

STAIRCASE HEADROOM & LIFT-
-MACHINE ROOM (TERRACE-2 NOS) 35.76x2 = 71.52 SQM

NOTES
1. All dimensions are in cm.
2. Fitted dimensions shall be followed.
3. Window panels should have 2 leaves.
(upper & lower)
4. Column, beams, foundations, etc., may be
adopted as per structural design.
5. Refer for file No. TP1 / 4568 / 2009
6. Refer for site plan No. TP NO - 6/16

COLOUR INDEX
PROPOSED: ROAD BOUNDARY

TAMIL NADU HOUSING BOARD
PLANS SHOWING THE PROPOSED CONSTRUCTION OF
MBS BUILDING CONSISTING OF BLOCK 1, BLOCK 2,
BLOCK 3 AND BLOCK 4 OF (STILT FLOOR PART / GROUND
- FLOOR PART - 16 FLOORS) RESIDENTIAL BUILDING WITH
510 DWELLING UNITS IN SURVEY NO 73A PART, 73B PART,
742 AND 743 PART, PERAMBUR VILLAGE, PURASAWALKKAM
TALUK, CHENNAI - 39

GREATER CHENNAI CORPORATION ZONE - IV DIVISION-37
(SPECIAL PROJECT DIVISION-4) SCALE 1:100



DRAWN	DIVISION	SD/ R.CHITRAPOORN DT.20.07.16 ASST.Architect
SD/ S.KARTHIK DT.20.07.16 JUNIOR ENGINEER		
SD/ M.L.RAJASEKARAN DT.20.07.16 TOWN PLANNER		SD/ S.ELANGOVAN DT.20.07.16 SUPPTG ENGINEER(HQ)

SD/**** DT.16.07.16 A.E.E	SD/**** DT.16.07.16 E.E & A.D.O	SD/**** DT.16.07.16 S.E
SPECIAL PROJECT DIVISION-I	SPECIAL PROJECT DIVISION-I	PROJECT CIRCLE

Applicant Executive Engineer & A Special Project Division Tamil Nadu Housing Board Ashok Nagar, Chennai - 600 033	Architect / Licensed Surveyor C. Sathya Vakesh B Arch Director I core architects 41/A, BEACH ROAD, KALAKSHETRA COLONY CHENNAI - 600 090 Class 1, L. S. No. 433	Structural Consultant ALEX JACOB D.E. M.Tech., Dip. Bdg. Sc. M.I.E.(Arch) STRUCTURAL ENGINEER 41/A, BEACH ROAD, KALAKSHETRA COLONY CHENNAI - 600 090 Class 1, L. S. No. 433
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SD/S.SELVAKUMAR
DT.20.07.16
CHIEF ENGINEER(U)
43 16
SHEET No: 07/07