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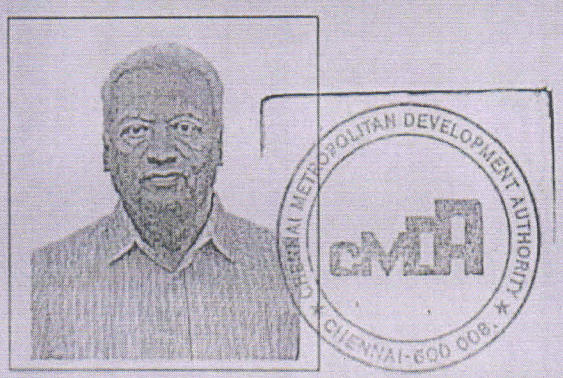
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
'ThalamuthuNatarajan Building', No.1, Gandhi Irwin Road,
Egmore, Chennai-600 008.

PROFESSIONAL REGISTRATION CERTIFICATE

This is to certify that the **Thiru. ALEX JAOB** has enrolled as **Registered Structural Engineer Grade-I (SE)** with Chennai Metropolitan Development Authority (CMDA) who has the qualification of **M.Tech.,(Structural Engg.)** and experience in the relevant field for **52 years.**

He has been given the Registration No.**SE/GR-I/2024/02/001** on **11.02.2024.** He shall be required to comply with the duties and responsibilities prescribed by the Government of Tamil Nadu in Part-V, "Registration of Professionals", Tamil Nadu Combined Development and Building Rules, 2019 approved vide G.O.(Ms) No.18 MAWS (MA1) Dept. dated 04.02.2019.

This Registration is valid upto **10.02.2029.**



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M.I.E. (Aust), M.I.E. (Ind)
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CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

11/2/24

(A. MEGANATHAN)
Superintendent

Dr. ALEX JACOB
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+91-98401 59550
alexjacobuc@gmail.com
www.unitedconsultants.in

06.02.25

STABILITY CERTIFICATE

The detailed engineering and structure design of the proposed building comprising Of **G+5 Floors for G.M.B housing Pvt. LTD., at Jeevanandham Main road, Avadi S.NO. 716-7A2** has been done by me based on the report of geotechnical investigation (soil test) done by the Owner and considering the functional requirement of the building.

2. It is certified that among other factors, the proposed building has been designed to resist earthquake. I have checked various parameters and found that the proposed building would be safe.

3. I further certify that:

i. The minimum grade of concrete is **M 25**

ii. The design and analysis has been done using the code of practice for plain and reinforced concrete as per IS 456, design loads as per IS Codes **No 875 (part1 to 3)** and design of earthquake resistant structure as per IS Code **No 1893:2016**

4. The building will be safe and sound when used for the purpose for which it is designed.

Stamp and Signature

Dr. ALEX JACOB
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THE PROPOSED RESIDENTIAL CONSTRUCTION STILT +5 FLOORS AT S.NO.716/7A2 T.S NO.18, BLOCK NO.21, WARD I JEEVANTHAM MAIN ROAD, KAMRAJ NAGAR, PARUTHIPATTU VILLAGE, AVADI MUNICIPALITY, POONAMALLEE TALUK, THIRUVALLUR DISTRICT, AVADI, CHENNAI - 600 054.

GENERAL NOTE ON STRUCTURAL DESIGN

1.0 GENERAL

1.1 DESIGN BASIS

The design of this building is carried out based on frame analysis using STAAD Pro V8i.

1.2 CODES AND STANDARDS

All structural design is carried out conforming to the provisions in National Building Code of India and other relevant Indian Codes and Standards.

1. I.S. 456
2. I.S. 875 - Part I to V
3. I.S.1893
4. I.S.13920
5. I.S.800

2.0 BASIC CIVIL DESIGN LOADS

2.0 DEAD LOADS & LIVE LOADS

Typical slab dead load is calculated as follows

<u>Residential Building</u>

Self weight of slab	=	2.0kN/m²
Floor finish	=	2.0kN/m²
Live load	=	3.0kN/m²
		7.0kN/m²

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3.0 SOIL DETAILS

Based on Soil Test Report Isolated Footing is adopted.

4.0 DESIGN METHODS

General design and detailing of concrete members/elements are done conforming to the provisions of I.S: 456 and other relevant I.S codes. Limit State method is followed for the design.

Seismic Zone III load is taken into account for the analysis. The predominant direction of vibration is horizontal. Relevant combination of forces has been taken into account.

4.1

Load Combination	Ultimate Limit Load	Serviceability Limit State
DL+LL+WL Or DL+LL+EL	1.2DL+1.2LL+1.2WL Or 1.2DL+1.2LL+1.2EL	DL+LL+WL Or DL+LL+EL

-

4.2.1 MINIMUM COVER

Slab	20 mm
Beam	25 mm
Columns	40 mm
Foundations	50 mm

Structure will be sound and stable when used for the purpose for which it is designed.

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*          Version  22.12.00.142                 *
*          Proprietary Program of                *
*          Bentley Systems, Inc.                 *
*          Date=    OCT 31, 2023                 *
*          Time=    16: 6:44                     *
*                                                *
*  Licensed to: United Consultanta               *
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    2. START JOB INFORMATION
    3. ENGINEER DATE 31-OCT-23
    4. *CHENNAI 600 054
    5. JOB NAME THE PROPOSED RESIDENTIAL CONSTRUCTION STILT +5 FLOORS AT -
    6. S.NO.716/7A2 T.S NO.18, BLOCK NO.21, WARD I JEEVANTHAM MAIN ROAD, KAMRAJ -
    7. NAGAR, PARUTHIPATTU VILLAGE, AVADI MUNICIPALITY, POONAMALLEE TALUK, -
    8. THIRUVALLUR DISTRICT, AVADI, ENGINEER NAME KAVIYARASU R
    9. CHECKER NAME ALEX JACOB
   10. APPROVED NAME ALEX JACOB
   11. CHECKER DATE 10/31/2023
   12. APPROVED DATE 10/31/2023
   13. ENGINEER NAME KAVIYARASU R
   14. END JOB INFORMATION
   15. INPUT WIDTH 79
   16. UNIT METER KN
   17. JOINT COORDINATES
   18. 2 2.215 0 0; 3 4.74 0 0; 4 11.155 0 0; 5 13.465 0 0; 6 16.37 0 0; 7 20.18 0 0
   19. 8 23.845 0 0; 9 25.724 0 0; 10 28.6 0 0; 11 31.885 0 0; 12 36.185 0 0
   20. 13 2.215 3.29 0; 14 4.74 3.29 0; 15 11.155 3.29 0; 16 13.465 3.29 0
   21. 17 16.37 3.29 0; 18 20.18 3.29 0; 19 23.845 3.29 0; 20 25.724 3.29 0
   22. 21 28.6 3.29 0; 22 31.885 3.29 0; 23 36.185 3.29 0; 24 2.215 6.19 0
   23. 25 4.74 6.19 0; 26 11.155 6.19 0; 27 13.465 6.19 0; 28 16.37 6.19 0
   24. 29 20.18 6.19 0; 30 23.845 6.19 0; 31 25.724 6.19 0; 32 28.6 6.19 0
   25. 33 31.885 6.19 0; 34 36.185 6.19 0; 35 2.215 9.24 0; 36 4.74 9.24 0
   26. 37 11.155 9.24 0; 38 13.465 9.24 0; 39 16.37 9.24 0; 40 20.18 9.24 0
   27. 41 23.845 9.24 0; 42 25.724 9.24 0; 43 28.6 9.24 0; 44 31.885 9.24 0
   28. 45 36.185 9.24 0; 46 2.215 12.26 0; 47 4.74 12.26 0; 48 11.155 12.26 0
   29. 49 13.465 12.26 0; 50 16.37 12.26 0; 51 20.18 12.26 0; 52 23.845 12.26 0
   30. 53 25.724 12.26 0; 54 28.6 12.26 0; 55 31.885 12.26 0; 56 36.185 12.26 0
   31. 57 2.215 15.28 0; 58 4.74 15.28 0; 59 11.155 15.28 0; 60 13.465 15.28 0
   32. 61 16.37 15.28 0; 62 20.18 15.28 0; 63 23.845 15.28 0; 64 25.724 15.28 0
   33. 65 28.6 15.28 0; 66 31.885 15.28 0; 67 36.185 15.28 0; 68 2.215 18.3 0
   34. 69 4.74 18.3 0; 70 11.155 18.3 0; 71 13.465 18.3 0; 72 16.37 18.3 0
   35. 73 20.18 18.3 0; 74 23.845 18.3 0; 75 25.724 18.3 0; 76 28.6 18.3 0
   36. 77 31.885 18.3 0; 78 36.185 18.3 0; 79 0 3.29 0; 80 0 6.19 0; 81 0 9.24 0
   37. 82 0 12.26 0; 83 0 15.28 0; 84 0 18.3 0
   38. MEMBER INCIDENCES
```

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REG No. RSE100392019

```
39. 12 2 13; 13 3 14; 14 4 15; 15 5 16; 16 6 17; 17 7 18; 18 8 19; 19 9 20
40. 20 10 21; 21 11 22; 22 12 23; 23 13 24; 24 14 25; 25 15 26; 26 16 27; 27 17 28
41. 28 18 29; 29 19 30; 30 20 31; 31 21 32; 32 22 33; 33 23 34; 34 24 35; 35 25 36
42. 36 26 37; 37 27 38; 38 28 39; 39 29 40; 40 30 41; 41 31 42; 42 32 43; 43 33 44
43. 44 34 45; 45 35 46; 46 36 47; 47 37 48; 48 38 49; 49 39 50; 50 40 51; 51 41 52
44. 52 42 53; 53 43 54; 54 44 55; 55 45 56; 56 46 57; 57 47 58; 58 48 59; 59 49 60
45. 60 50 61; 61 51 62; 62 52 63; 63 53 64; 64 54 65; 65 55 66; 66 56 67; 67 57 68
46. 68 58 69; 69 59 70; 70 60 71; 71 61 72; 72 62 73; 73 63 74; 74 64 75; 75 65 76
47. 76 66 77; 77 67 78; 84 79 13; 85 13 14; 86 14 15; 87 15 16; 88 16 17; 89 17 18
48. 90 18 19; 91 19 20; 92 20 21; 93 21 22; 94 22 23; 95 80 24; 96 24 25; 97 25 26
49. 98 26 27; 99 27 28; 100 28 29; 101 29 30; 102 30 31; 103 31 32; 104 32 33
50. 105 33 34; 106 81 35; 107 35 36; 108 36 37; 109 37 38; 110 38 39; 111 39 40
51. 112 40 41; 113 41 42; 114 42 43; 115 43 44; 116 44 45; 117 82 46; 118 46 47
52. 119 47 48; 120 48 49; 121 49 50; 122 50 51; 123 51 52; 124 52 53; 125 53 54
53. 126 54 55; 127 55 56; 128 83 57; 129 57 58; 130 58 59; 131 59 60; 132 60 61
54. 133 61 62; 134 62 63; 135 63 64; 136 64 65; 137 65 66; 138 66 67; 139 84 68
55. 140 68 69; 141 69 70; 142 70 71; 143 71 72; 144 72 73; 145 73 74; 146 74 75
56. 147 75 76; 148 76 77; 149 77 78
57. DEFINE MATERIAL START
58. ISOTROPIC CONCRETE
59. E 2.17185E+07
60. POISSON 0.17
61. DENSITY 23.5616
62. ALPHA 1E-05
63. DAMP 0.05
64. G 9.28139E+06
65. TYPE CONCRETE
66. STRENGTH FCU 27579
67. END DEFINE MATERIAL
68. MEMBER PROPERTY
69. 12 TO 14 18 23 TO 25 29 34 TO 36 40 PRIS YD 0.6 ZD 0.23
70. 15 TO 17 19 TO 22 26 TO 28 30 TO 33 37 TO 39 41 TO 44 PRIS YD 0.45 ZD 0.23
71. 45 TO 47 51 56 TO 58 62 67 TO 69 73 PRIS YD 0.6 ZD 0.2
72. 48 TO 50 52 TO 55 59 TO 61 63 TO 66 70 TO 72 74 TO 77 PRIS YD 0.45 ZD 0.2
73. 84 85 87 TO 96 98 TO 107 109 TO 116 PRIS YD 0.5 ZD 0.23
74. 86 97 108 PRIS YD 0.8 ZD 0.23
75. 117 118 120 TO 129 131 TO 140 142 TO 149 PRIS YD 0.5 ZD 0.2
76. 119 130 141 PRIS YD 0.8 ZD 0.2
77. CONSTANTS
78. MATERIAL CONCRETE ALL
79. SUPPORTS
80. 2 TO 12 FIXED
81. DEFINE WIND LOAD

*** NOTE: If any floor diaphragm is present in the model Wind Load definition
          should be defined after Floor Diaphragm definition. Otherwise wind
          load generation may be unsuccessful during analysis.

82. TYPE 1 WIND 1
83. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
84. IS875-2015:PARAMS 0 0 0 0.000 0.000 5.000 0 50.000 0 1.000 0 0 1.000 2 1.000 -
85. 1.000 0 0.000 0.000 0.000 0 0 0 1.000 0 0 0.200 1.000 0 1.000 1.000 1.000
86. !> END GENERATED DATA BLOCK
87. INT 1 1 1.671 1.709 HEIG  5  10  15  18.3
88. DEFINE IS1893 2016 LOAD
89. ZONE 0.16 RF 2.5 I 1.2 SS 2 ST 1 DM 0.05 PX 0.66 PZ 0.66
```

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```
 90. SELFWEIGHT -1
 91. MEMBER WEIGHT
 92. 84 85 87 TO 94 UNI -11.04 0 0
 93. 86 UNI -9.66 0 0
 94. 95 96 98 TO 107 109 TO 118 120 TO 129 131 TO 140 142 TO 149 UNI -10.2 0 0
 95. 97 108 119 130 141 UNI -9 0 0
 96. LOAD 1 LOADTYPE SEISMIC-H  TITLE EQ X
 97. 1893 LOAD X 1
 98. LOAD 2 LOADTYPE SEISMIC-H  TITLE EQ -X
 99. 1893 LOAD X -1.
100. LOAD 3 LOADTYPE SEISMIC-H  TITLE EQ Z
101. 1893 LOAD Z 1
102. LOAD 4 LOADTYPE SEISMIC-H  TITLE EQ -Z
103. 1893 LOAD Z -1.
104. LOAD 5 LOADTYPE DEAD  TITLE DL
105. SELFWEIGHT Y -1
106. MEMBER LOAD
107. 84 85 87 TO 94 UNI GY -11.04
108. 86 UNI GY -9.66
109. 95 96 98 TO 107 109 TO 118 120 TO 129 131 TO 140 142 TO 149 UNI GY -10.2
110. 97 108 119 130 141 UNI GY -9
111. LOAD 6 LOADTYPE LIVE  TITLE LL
112. MEMBER LOAD
113. 84 TO 149 UNI GY -6
114. LOAD 7 LOADTYPE WIND  TITLE WL Z
115. WIND LOAD Z 1 TYPE 1
116. LOAD 8 LOADTYPE WIND  TITLE WL -Z
117. WIND LOAD -Z -1 TYPE 1
118. LOAD COMB 9 1.5(DL+LL)
119. 5 1.5 6 1.5
120. LOAD COMB 10 1.2(DL+LL+EQX)
121. 5 1.2 6 1.2 1 1.2
122. LOAD COMB 11 1.2(DL+LL-EQX)
123. 5 1.2 6 1.2 2 1.2
124. LOAD COMB 12 1.2(DL+LL+EQZ)
125. 6 1.2 5 1.2 3 1.2
126. LOAD COMB 13 1.2(DL+LL-EQZ)
127. 5 1.2 6 1.2 4 1.2
```

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REG No. SE/GR-I/19/02/001
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```
128. LOAD COMB 14 1.5(DL+EQX)
129. 5 1.5 1 1.5
130. LOAD COMB 15 1.5(DL-EQX)
131. 5 1.5 2 1.5
132. LOAD COMB 16 1.5(DL+EQZ)
133. 5 1.5 3 1.5
134. LOAD COMB 17 1.5(DL-EQZ)
135. 5 1.5 4 1.5
136. LOAD COMB 18 0.9DL+1.5EQX
137. 5 0.9 1 1.5
138. LOAD COMB 19 0.9DL-1.5EQX
139. 5 0.9 2 1.5
140. LOAD COMB 20 0.9DL+1.5EQZ
141. 5 0.9 3 1.5
142. LOAD COMB 21 0.9DL-1.5EQZ
143. 5 0.9 4 1.5
144. LOAD COMB 22 1.2(DL+LL+WLZ)
145. 5 1.2 6 1.2 7 1.2
146. LOAD COMB 23 1.2(DL+LL-WLZ)
147. 5 1.2 6 1.2 8 1.2
148. LOAD COMB 24 1.5(DL+WLZ)
149. 5 1.5 7 1.5
150. LOAD COMB 25 1.5(DL-WLZ)
151. 5 1.5 8 1.5
152. LOAD COMB 26 0.9DL+1.5WLZ
153. 5 0.9 7 1.5
154. LOAD COMB 27 0.9DL-1.5WLZ
155. 5 0.9 8 1.5
156. PERFORM ANALYSIS
```

P R O B L E M S T A T I S T I C S

NUMBER OF JOINTS	83	NUMBER OF MEMBERS	132
NUMBER OF PLATES	0	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	11

Using 64-bit analysis engine.

SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

TOTAL PRIMARY LOAD CASES = 8, TOTAL DEGREES OF FREEDOM = 432
TOTAL LOAD COMBINATION CASES = 19 SO FAR.

**WARNING: IF THIS UBC/IBC ANALYSIS HAS TENSION/COMPRESSION
OR REPEAT LOAD OR RE-ANALYSIS OR SELECT OPTIMIZE, THEN EACH
UBC/IBC CASE SHOULD BE FOLLOWED BY PERFORM ANALYSIS & CHANGE.

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***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6 BASE SHEAR AND TIME PERIOD IN X

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR X 1893 LOADING =    0.66000 SEC       *
* SA/G PER 1893=    2.061, LOAD FACTOR= 1.000           *
* VB PER 1893=    0.0791 X     1074.31=      85.01 KN   *
* VB Act Based on Clause 7.2.1 =       85.01 KN         *
* VB Min based on Clause 7.2.2 =       11.82 KN         *
*                                                       *
*********************************************************
```

***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6 BASE SHEAR AND TIME PERIOD IN X

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR X 1893 LOADING =    0.66000 SEC       *
* SA/G PER 1893=    2.061, LOAD FACTOR=-1.000           *
* VB PER 1893=    0.0791 X     1074.31=     -85.01 KN   *
* VB Act Based on Clause 7.2.1 =      -85.01 KN         *
* VB Min based on Clause 7.2.2 =      -11.82 KN         *
*                                                       *
*********************************************************
```

***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6 BASE SHEAR AND TIME PERIOD IN Z

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR Z 1893 LOADING =    0.66000 SEC       *
* SA/G PER 1893=    2.061, LOAD FACTOR= 1.000           *
* VB PER 1893=    0.0791 X     1074.31=      85.01 KN   *
* VB Act Based on Clause 7.2.1 =       85.01 KN         *
* VB Min based on Clause 7.2.2 =       11.82 KN         *
*                                                       *
*********************************************************
```

***NOTE: Equivalent Static Analysis should preferably be performed for regular structures with approximate natural time period less than 0.4s and regular structures with height less than 15m in Seismic Zone II. Ref Cl.6.4.3 and 7.6 BASE SHEAR AND TIME PERIOD IN Z

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR Z 1893 LOADING =    0.66000 SEC       *
* SA/G PER 1893=    2.061, LOAD FACTOR=-1.000           *
* VB PER 1893=    0.0791 X     1074.31=     -85.01 KN   *
* VB Act Based on Clause 7.2.1 =      -85.01 KN         *
* VB Min based on Clause 7.2.2 =      -11.82 KN         *
*                                                       *
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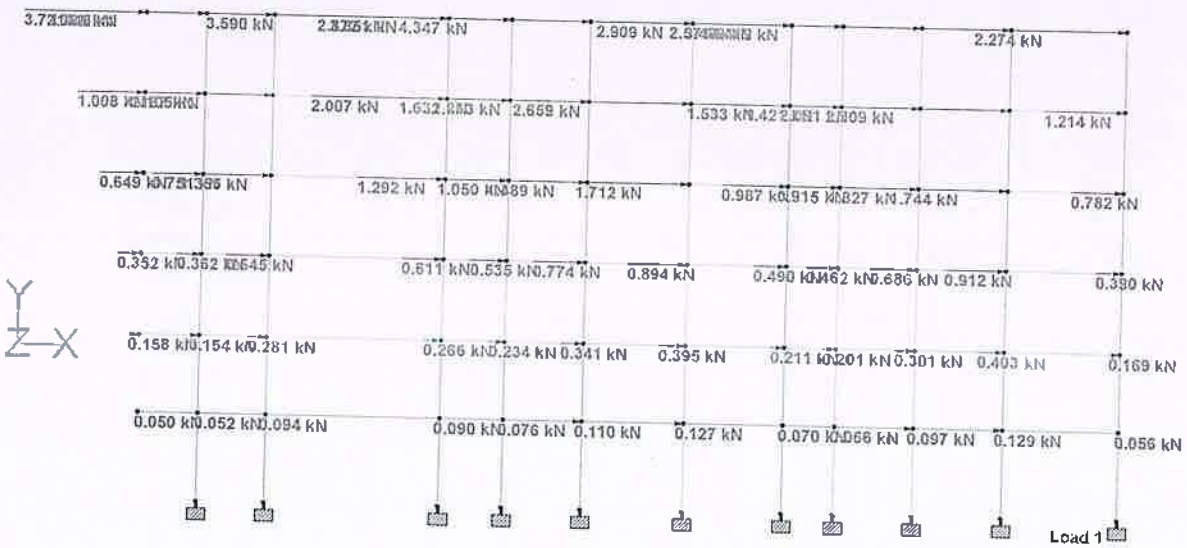
Dr. ALEX JACOB
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********** END OF THE STAAD.Pro RUN **********

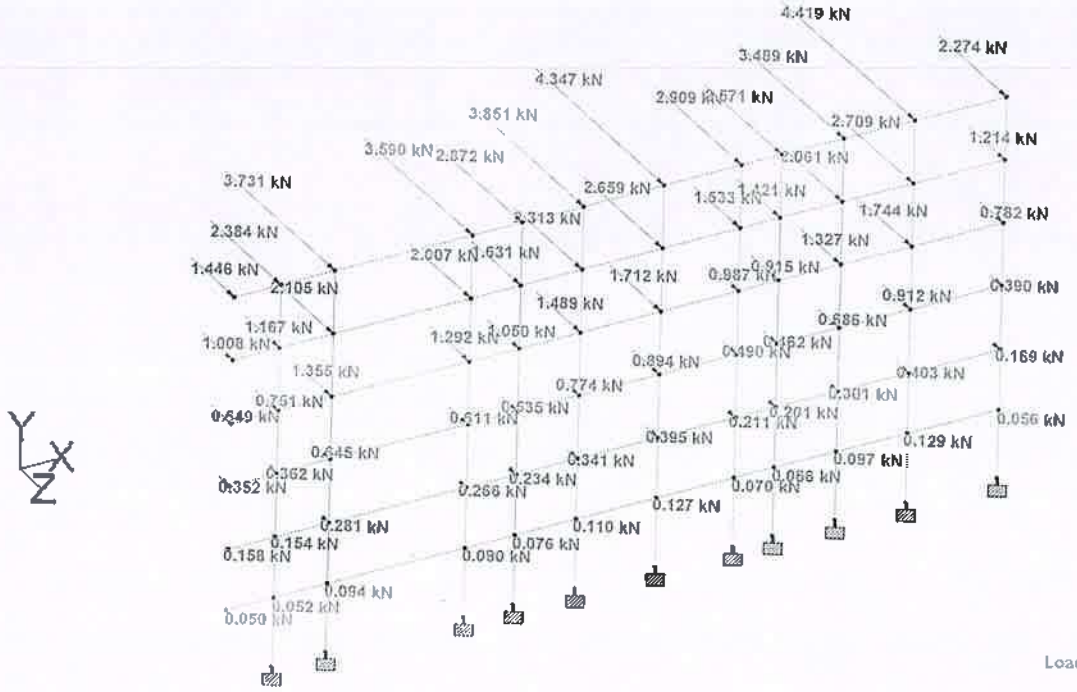
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*   For technical assistance on STAAD.Pro, please visit  *
*   http://www.bentley.com/en/support/                   *
*                                                        *
*   Details about additional assistance from             *
*   Bentley and Partners can be found at program menu    *
*   Help->Technical Support                              *
*                                                        *
*          Copyright (c) Bentley Systems, Inc.           *
*              http://www.bentley.com                    *
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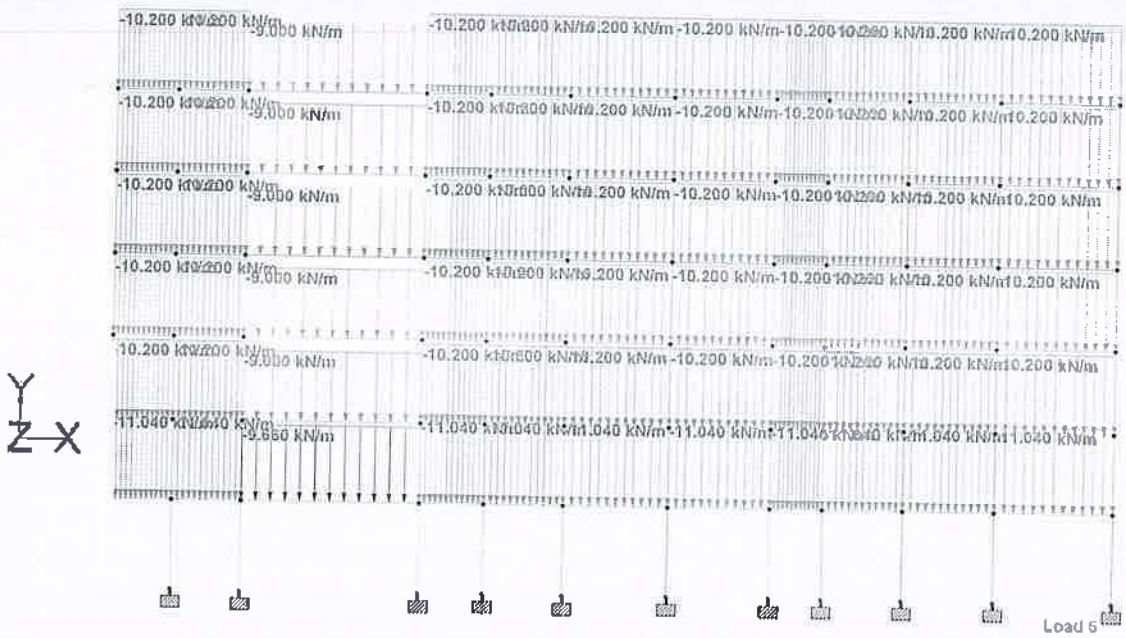
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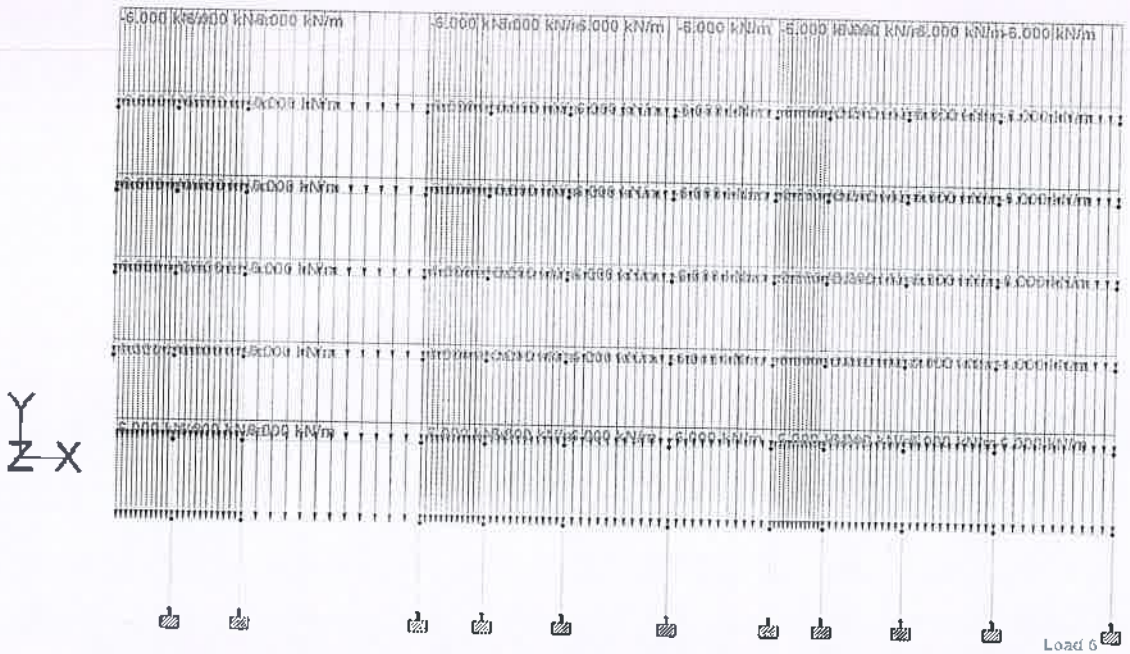
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41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

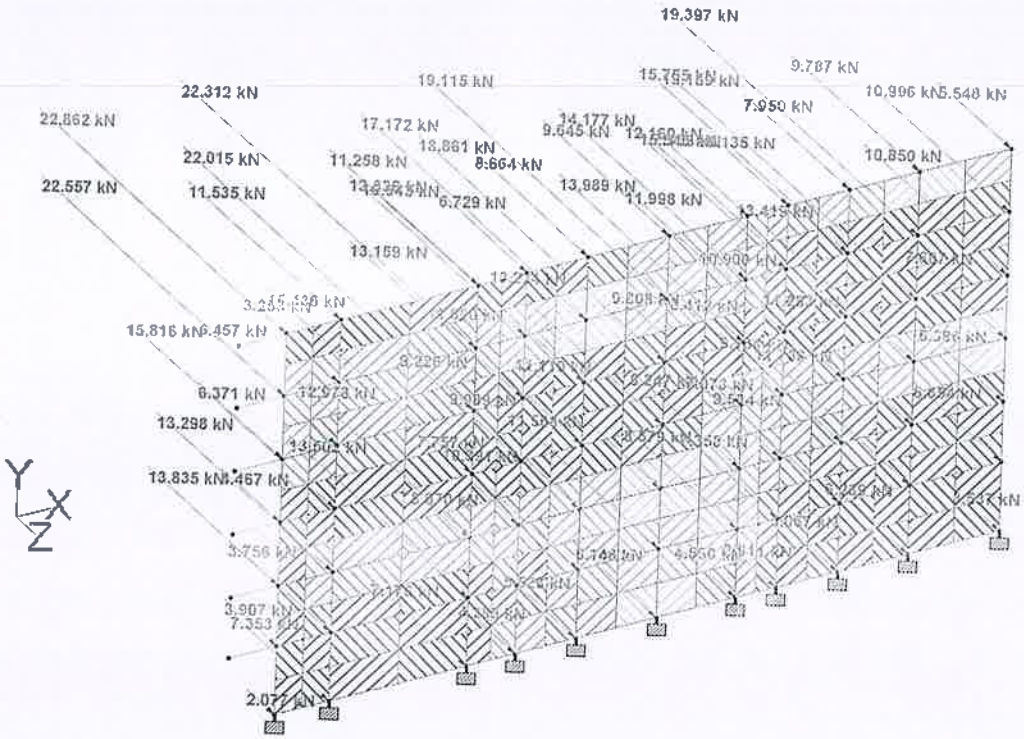


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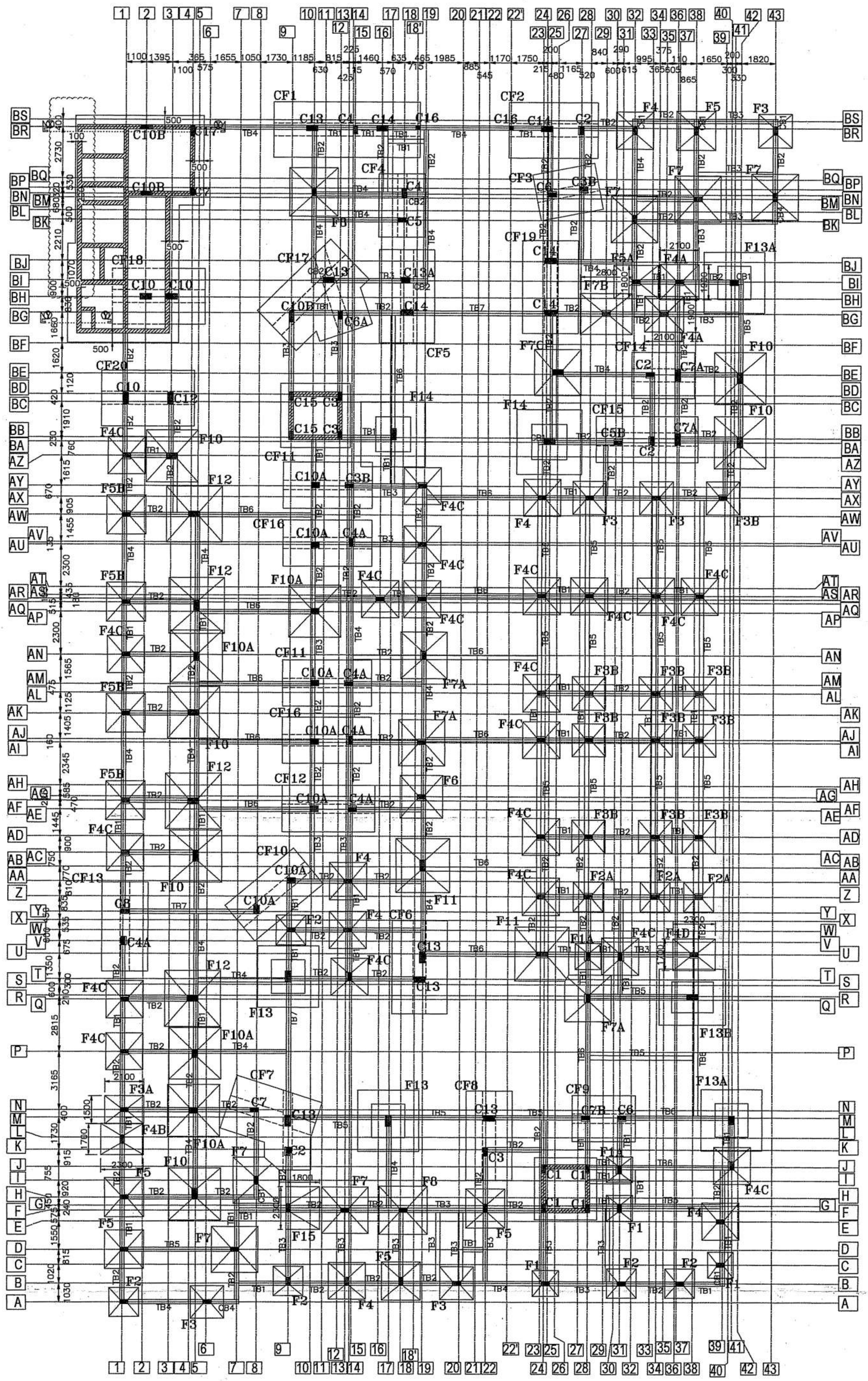


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CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

Bentley	Job No	Sheet No 1	Rev
Software licensed to United Consultants CONNECTED User: Alex Jacobuc	Part		
Job Title: The Proposed Residential Construction Stilt +5 floors at S.No.716/7A2 T.S No.18, Block No.21, Ward I Jeevantham Main Road, Kamraj Nagar,	Ref		
Client	By	Date 31-Oct-23	Chd ALEX JACOB
	File PROPOSED HONEYDEV	Date/Time 31-Oct-2023 16:05	

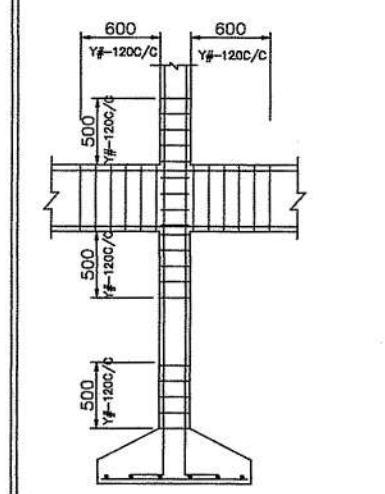


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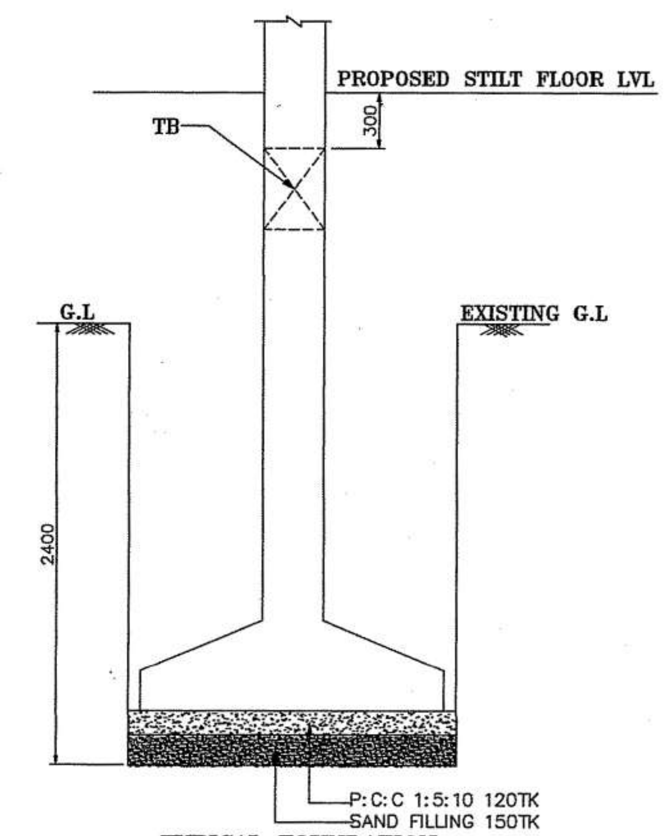


COL-NO	SIZE IN mm	REINFORCEMENT		SECTION	SHAPE OF TIES
		MAIN REINF.	TIES		
COL-F1,C1 & COL-F2	230 x 450	6-Y12	Y8-TIES @ 200C/C		
COL-F3,C3 & COL-F3A	230 x 450	4-Y16+(a) 2-Y12 (b)	Y8-TIES @ 200C/C		
COL-F4,C4 & COL-F4B,F15	230 x 450	6-Y16	Y8-TIES @ 200C/C		
COL-F5,C5 & COL-C6A	230 x 450	4-Y20+(a) 2-Y16 (b)	Y8-TIES @ 200C/C		
COL-F7,C7 & COL-F8	230 x 450	6-Y20	Y8-TIES @ 200C/C		
COL-F7C&C7A	300 x 600	4-Y20+(a) 4-Y16 (b)	Y8-TIES @ 200C/C		
COL-F10,C10	300 x 600	8-Y20	Y8-TIES @ 200C/C		
COL-C10B	230 x 600	8-Y20	Y8-TIES @ 200C/C		
COL-F10A,C10A & COL-F13A,C13A	300 x 450	8-Y25	Y8-TIES @ 200C/C		
COL-F11 & COL-F12,C12	300 x 600	4-Y25+(a) 4-Y20 (b)	Y8-TIES @ 200C/C		
COL-F13,C13 & COL-F13B	300 x 600	8-Y25	Y8-TIES @ 200C/C		
COL-F14,C14	300 x 600	10-Y25	Y8-TIES @ 200C/C		
COL-C15	230 x 450	6-Y25	Y8-TIES @ 200C/C		
COL-C16 STUB COLUMN	230 x 230	4-Y16	Y8-TIES @ 200C/C		
COL-F1A & COL-F2A,C2	300 x 450	6-Y12	Y8-TIES @ 200C/C		
COL-F3B,C3B	300 x 450	4-Y16+(a) 2-Y12 (b)	Y8-TIES @ 200C/C		
COL-F4A, & COL-F4C,C4A,F4D	300 x 450	6-Y16	Y8-TIES @ 200C/C		
COL-F5B,C5B,F5A & COL-F6,C6	300 x 450	4-Y20+(a) 2-Y16 (b)	Y8-TIES @ 200C/C		
COL-F7A,F7B,C7B & COL-C8	300 x 450	6-Y20	Y8-TIES @ 200C/C		
COL-C17	230 x 600	8-Y25	Y8-TIES @ 200C/C		

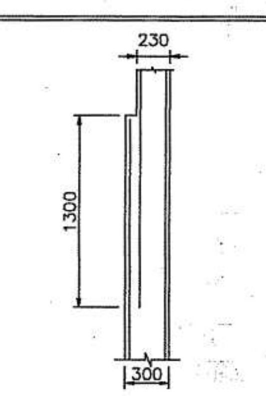
#DENOTES
8 or 10 or 12mm
WHICH EVER MAXIMUM DIA OF THE STRIUPPS BAR USED IN BEAM or COLUMN



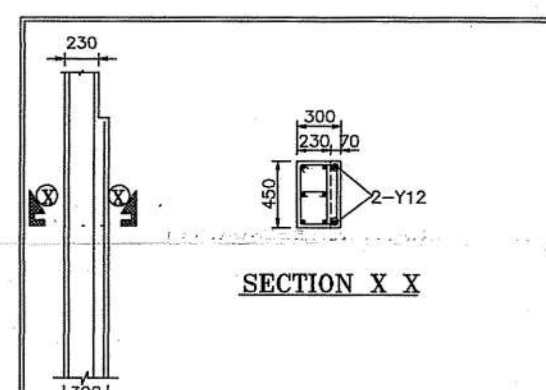
TYPICAL SECTION FOR STIRRUPS DETAILS



TYPICAL FOUNDATION



CHANGE OVER DETAIL
FOR 300 TO 230MM COLUMN
C7A,F7C,F10,C10,F10A,C10A,F11,F12
F13,F13A,F13B,C13,C13A,F14,C14



SECTION X X

CHANGE OVER DETAIL
FOR 300 TO 230MM COLUMN
F1A,F2A,C2,F3B,C3B,F4A,F4C,C4A,F4D
F5B,C5B,F5A,F6,C6,F7A,C7B,F7B,C8

NOTES

S+5

- REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS.
- CONCRETE MIX SHALL BE M30 FOR COLUMN & R.C.C WALL
- M25 FOR ALL OTHER R.C.C WORKS,
- FOR P.T SLAB & P.T BEAM PLEASE REFER P.T DRAWING
- ALL REINFORCEMENTS ARE OF Fe500 GRADE.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
  - (i) COLUMN 40mm
  - (ii) FOOTING 50mm
  - (iii) TIE BEAM 30mm
  - (iv) R.C.C WALL 25mm
- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

R.No	Description of Revision	Date	Revised By

STRUCTURAL CONSULTANT

UNITED CONSULTANTS
CIVIL & STRUCTURAL CONSULTING ENGINEERS
41/A, BEACH ROAD, DOOR NO. A1
KALAKSHETRA COLONY
BESANT NAGAR, CHENNAI - 600 090.
PH. NO. 044- 2491 09 45,24464478
email : alexjacobuc@gmail.com
web site: www.unitedconsultants.in

ARCHITECTS

CLIENT

PROJECT TITLE

THE PROPOSED RESIDENTIAL CONSTRUCTION STILT +5 FLOORS AT S.NO.716/7A2 T.S NO.18, BLOCK NO.21, WARD I JEEVANTHAM MAIN ROAD, KAMRAJ NAGAR, PARUTHIPATTU VILLAGE, AVADI MUNICIPALITY, POONAMALLEE TALUK,THIRUVALLUR DISTRICT, AVADI, CHENNAI - 600 054.

DRAWING TITLE

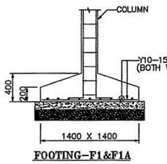
FOUNDATION LAYOUT

DWG NO

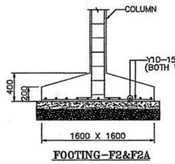
UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI

DSND	Alex Jacob
DRN	KEERTHANA
DATE	31-10-2023
SCALE	1 : 100
FILE NAME	E:\KEERTHANA\UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI

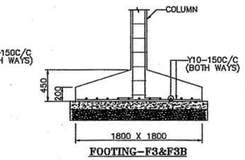
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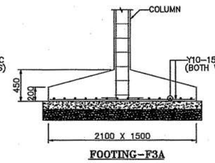
FOOTING-F1&F1A



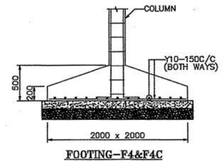
FOOTING-F2&F2A



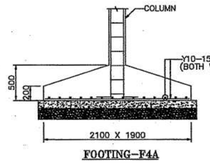
FOOTING-F3&F3B



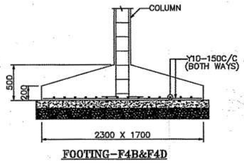
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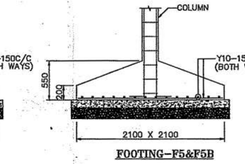
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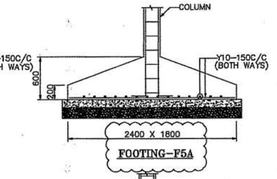
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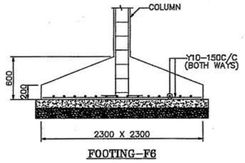
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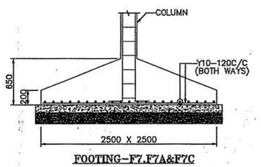
FOOTING-F5&F5B



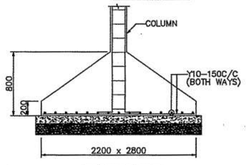
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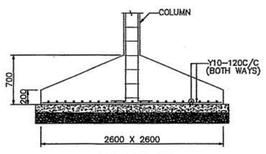
FOOTING-F6



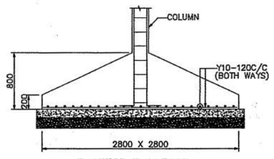
FOOTING-F7,F7A&F7C



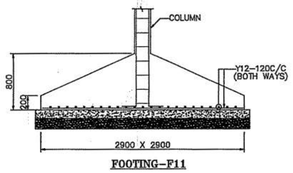
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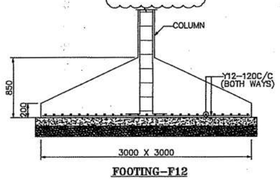
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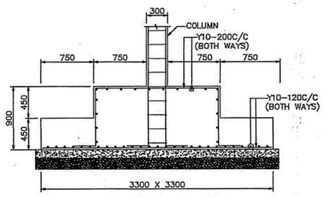
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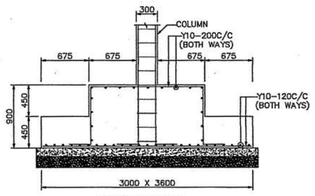
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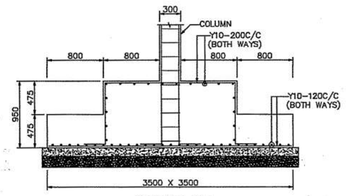
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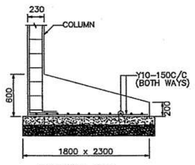
FOOTING-F13&F13A



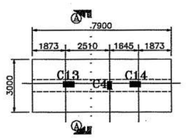
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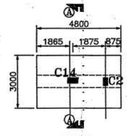
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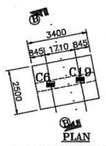
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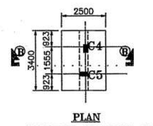
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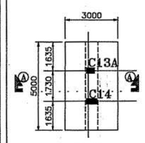
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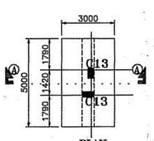
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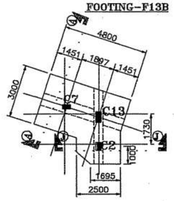
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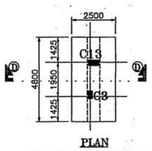
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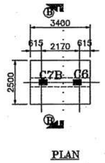
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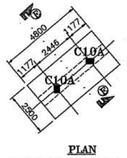
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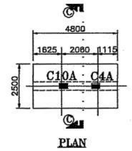
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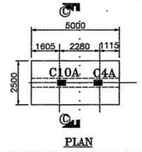
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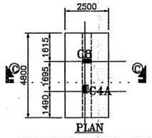
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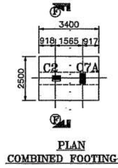
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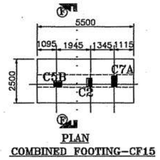
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PLAN
COMBINED FOOTING-CF13



PLAN
COMBINED FOOTING-CF14



PLAN
COMBINED FOOTING-CF15

PLAN
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PLAN
COMBINED FOOTING-CF17

PLAN
COMBINED FOOTING-CF18

PLAN
COMBINED FOOTING-CF19

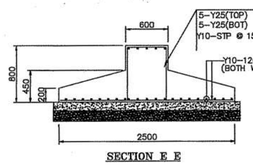
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COMBINED FOOTING-CF20

SECTION A A

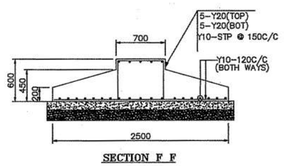
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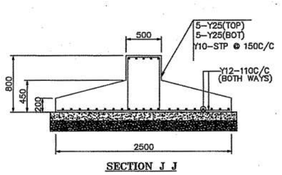
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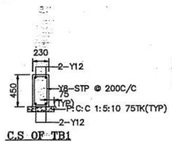
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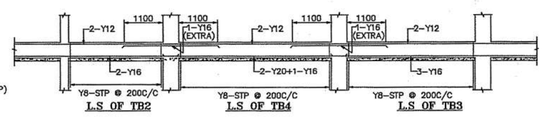
SECTION F F



SECTION J J



C.S OF TB1



L.S OF TB2 L.S OF TB4 L.S OF TB3

C.S OF TB2

C.S OF TB3

C.S OF TB4

L.S OF TB5

C.S OF TB5

L.S OF TB6

C.S OF TB6

L.S OF TB7

C.S OF TB7

L.S OF CB1

C.S OF CB1

L.S OF CB2

C.S OF CB2

C.S OF CB4

L.S OF CB4

C.S OF B1

TYPICAL SECTION FOR LAUNDER

SECTION Y Y

STP COVER SLAB

LIFTWELL SECTION

SECTION X X

NOTES

S+5

- REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS.
- CONCRETE MIX SHALL BE M30 FOR COLUMN & R.C.C WALL
- M25 FOR ALL OTHER R.C.C WORKS,
- FOR P.T SLAB & P.T BEAM PLEASE REFER P.T DRAWING
- ALL REINFORCEMENTS ARE OF Fe500 GRADE.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE

(i) COLUMN	40mm
(ii) FOOTING	50mm
(iii) TIE BEAM	30mm
(iv) R.C.C WALL	25mm

- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

R.No	Description of Revision	Date	Revised By

STRUCTURAL CONSULTANT

UNITED CONSULTANTS
CIVIL & STRUCTURAL CONSULTING ENGINEERS
41/A, BEACH ROAD, DOOR NO. A1
KALAKSHETRA COLONY
BESANT NAGAR, CHENNAI - 600 090.
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email : alex jacobuc@gmail.com
web site: www.unitedconsultants.in

ARCHITECTS

CLIENT

PROJECT TITLE

THE PROPOSED RESIDENTIAL CONSTRUCTION STILT +5 FLOORS AT S.NO.716/7A2 T.S NO.18, BLOCK NO.21, WARD I JEEVANTHAM MAIN ROAD, KAMRAJ NAGAR , PARUTHIPATTU VILLAGE, AVADI MUNICIPALITY, POONAMALLEE TALUK,THIRUVALLUR DISTRICT, AVADI, CHENNAI - 600 054.

DRAWING TITLE

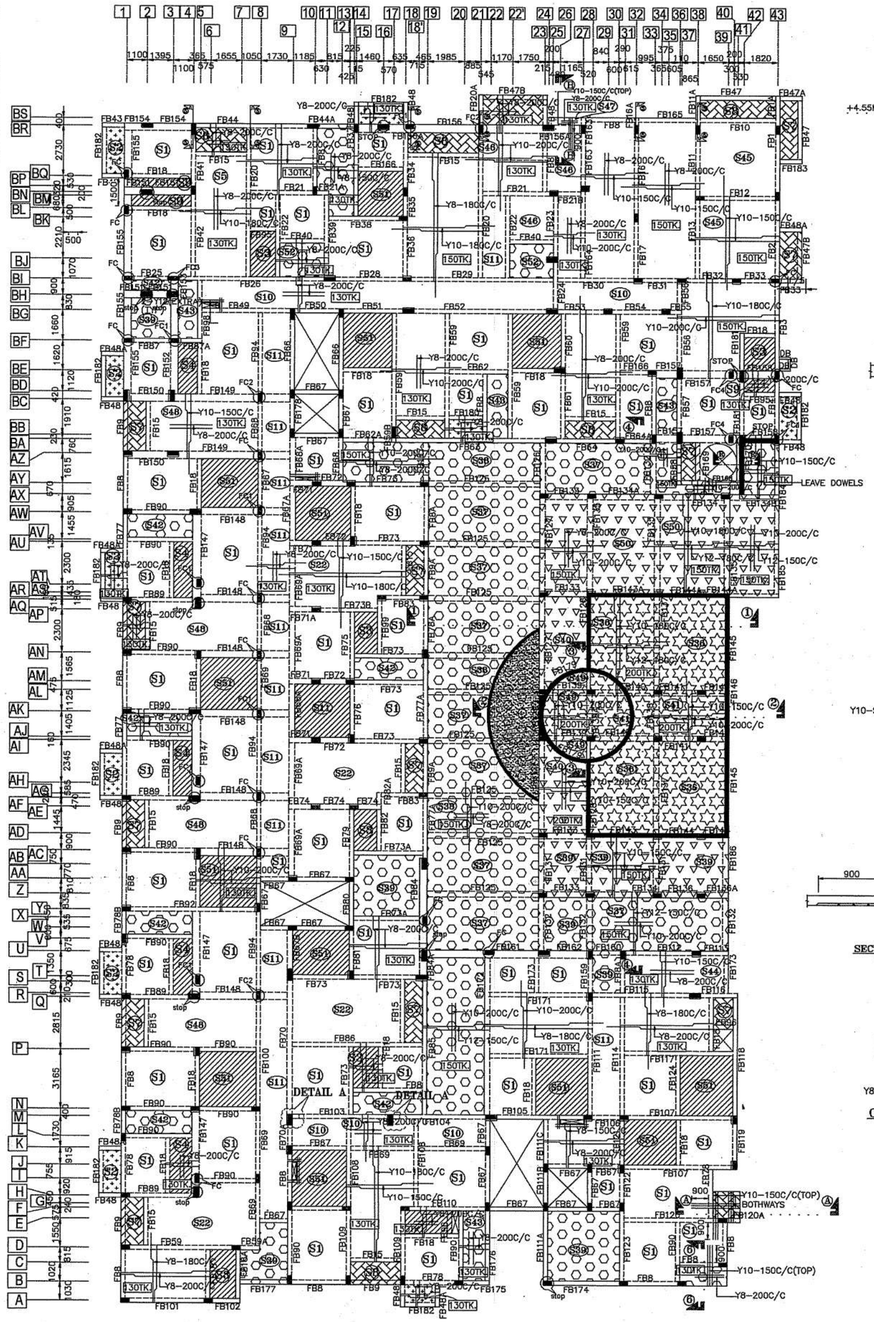
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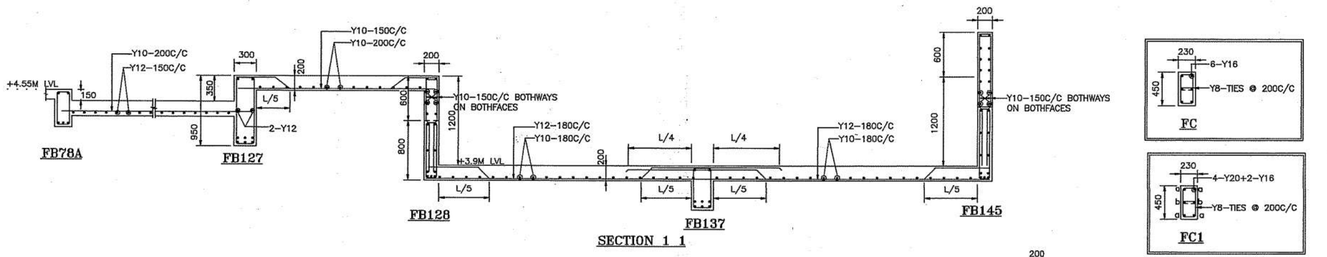
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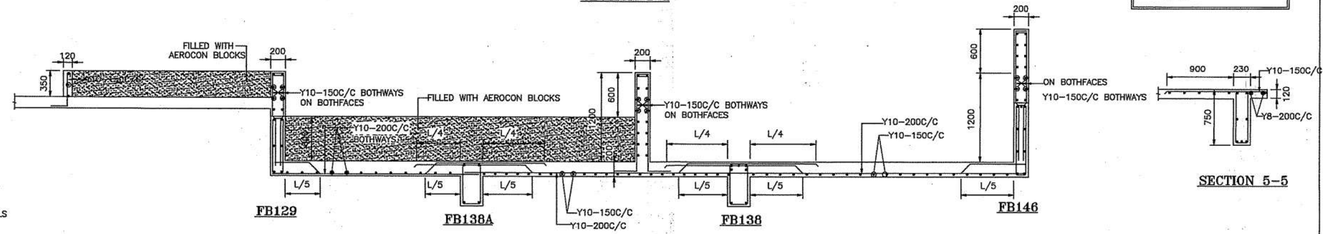
UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI

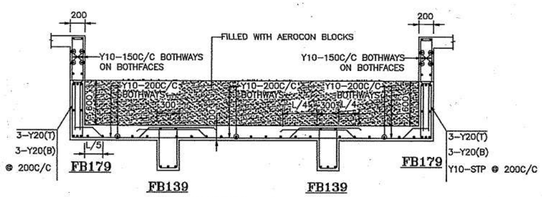
DSND	Alex Jacob
DRN	KEERTHANA
DATE	31.10.23
SCALE	1 : 100
FILE NAME	E:\KEERTHANA\UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI

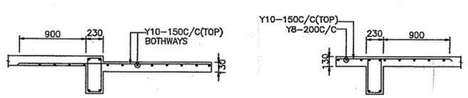
Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE10039201 9

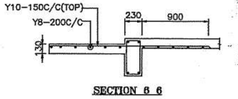


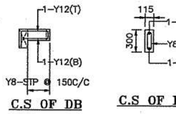


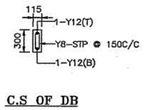


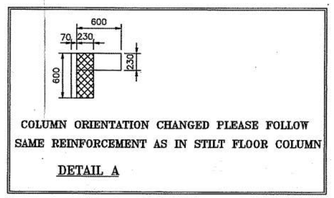


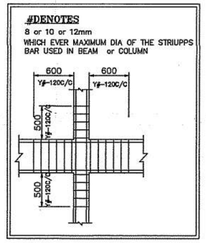


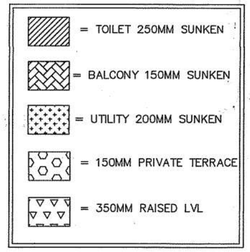


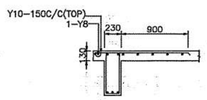


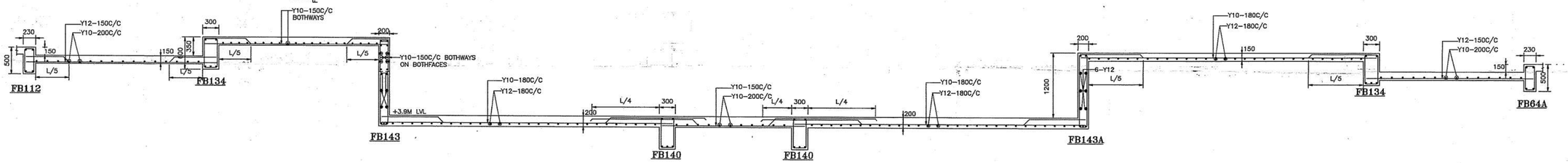












NOTES

- REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS.
- CONCRETE MIX SHALL BE M30 FOR COLUMN & R.C.C WALL
- M25 FOR ALL OTHER R.C.C WORKS,
- FOR P.T SLAB & P.T BEAM PLEASE REFER P.T DRAWING
- ALL REINFORCEMENTS ARE OF Fe500 GRADE.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE

(i) COLUMN	40mm
(ii) SLAB	20mm
(iii) BEAM	30mm
(iv) R.C.C WALL	25mm

- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
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STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

R.No	Description of Revision	Date	Revised By

STRUCTURAL CONSULTANT

UNITED CONSULTANTS
CIVIL & STRUCTURAL CONSULTING ENGINEERS
41/A, BEACH ROAD, DOOR NO. A1
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email : alexjacobuc@gmail.com
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ARCHITECTS

CLIENT

PROJECT TITLE

THE PROPOSED RESIDENTIAL CONSTRUCTION STILT +5 FLOORS AT S.NO.716/7A2 T.S NO.16, BLOCK NO.21, WARD I JEEVANTHAM MAIN ROAD, KAMRAJ NAGAR , PARUTHIPATTU VILLAGE, AVADI MUNICIPALITY, POONAMALLEE TALUK,THIRUVALLUR DISTRICT, AVADI, CHENNAI - 600 054.


DRAWING TITLE

STILT ROOF BEAM LAYOUT

DWG NO

UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI

DSND	Alex Jacob
DRN	KEERTHANA
DATE	31.10.23
SCALE	1 : 100
FILE NAME	E:\KEERTHANA\UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI



S+5

NOTES

- REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS.
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  - (i) COLUMN 40mm
  - (ii) SLAB 20mm
  - (iii) BEAM 30mm
  - (iv) R.C.C WALL 25mm
- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

R.No	Description of Revision	Date	Revised By

STRUCTURAL CONSULTANT

UNITED CONSULTANTS
CIVIL & STRUCTURAL CONSULTING ENGINEERS
41/A, BEACH ROAD, DOOR NO. A1
KALAKSHETRA COLONY
BESANT NAGAR, CHENNAI - 600 090.
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email : alexjacobuc@gmail.com
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CLIENT

PROJECT TITLE

THE PROPOSED RESIDENTIAL CONSTRUCTION STILT +5 FLOORS AT S.NO.716/7A2 T.S NO.18, BLOCK NO.21, WARD I JEEVANTHAM MAIN ROAD, KAMRAJ NAGAR , PARUTHIPATTU VILLAGE, AVADI MUNICIPALITY, POONAMALLEE TALUK,THIRUVALLUR DISTRICT, AVADI, CHENNAI - 600 054.

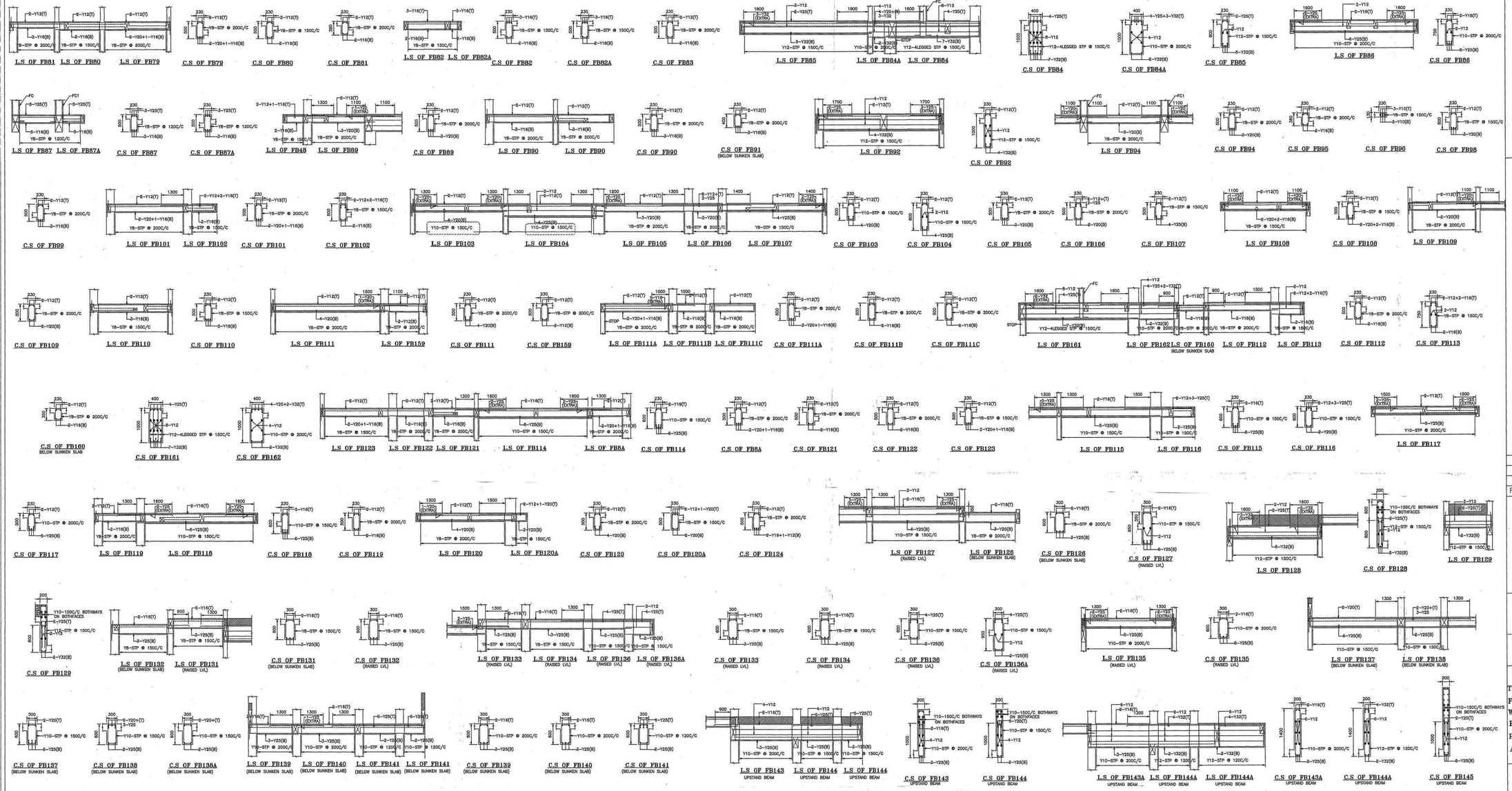
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STILT ROOF BEAM DETAIL-SHEET-01

DWG NO

UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI

DSND	Alex Jacob	Dr. ALEX JACOB B.E, M.Tech (Str), Ph.D(Hon), M.I.E. (Aust), M.I.E. (Ind) STRUCTURAL ENGINEER, 41/A, BEACH ROAD, KALAKSHETRA COLONY, CHENNAI - 600 090. REG No. SE/GR-I/19/02/001 REG No. RSE100392019
DRN	KEERTHANA	
DATE	31.10.23	
SCALE	1 : 100	
FILE NAME	E:\KEERTHANA\UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI	



NOTES

S+5

- REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS.
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R.No	Description of Revision	Date	Revised By

STRUCTURAL CONSULTANT

UNITED CONSULTANTS

CIVIL & STRUCTURAL CONSULTING ENGINEERS
41/A, BEACH ROAD, DOOR NO. A1
KALAKSHETRA COLONY
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THE PROPOSED RESIDENTIAL CONSTRUCTION STILT +5 FLOORS AT S.NO.716/7A2 T.S NO.18, BLOCK NO.21, WARD I JEEVANTHAM MAIN ROAD, KAMRAJ NAGAR , PARUTHIPATTU VILLAGE, AVADI MUNICIPALITY, POONAMALLEE TALUK,THIRUVALLUR DISTRICT, AVADI, CHENNAI - 600 054.

DRAWING TITLE

STILT ROOF BEAM DETAIL-02

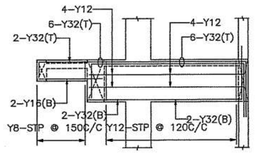
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UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI

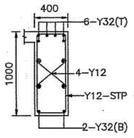
DSND	Alex Jacob
DRN	KEERTHANA
DATE	31.10.23
SCALE	1 : 100

Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

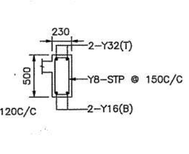
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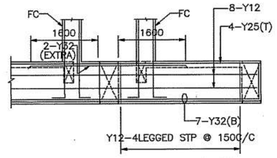
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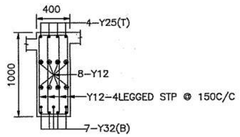
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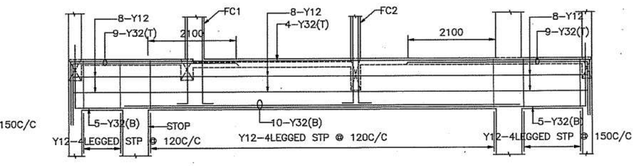
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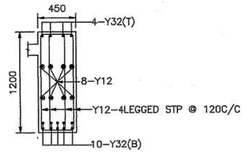
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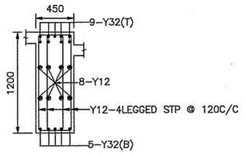
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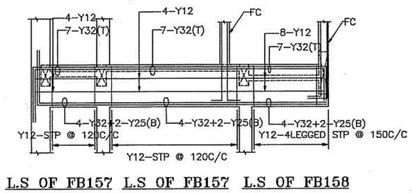
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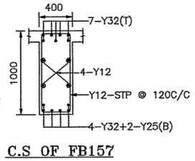
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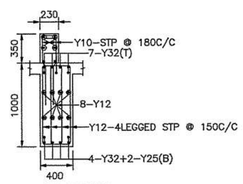
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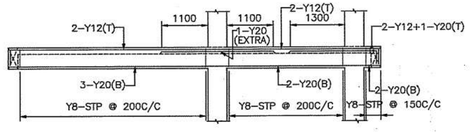
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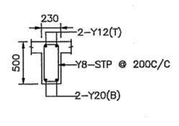
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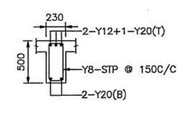
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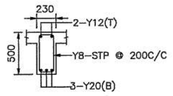
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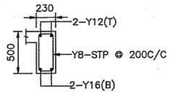
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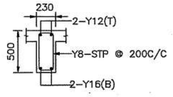
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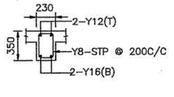
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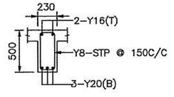
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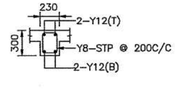
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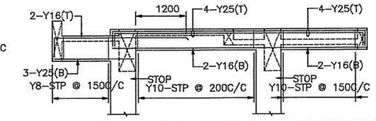
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BELOW SUNKEN SLAB



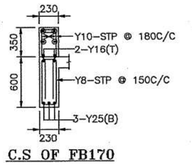
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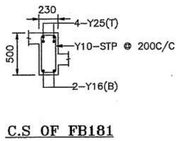
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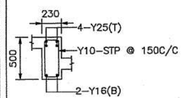
L.S OF FB170 L.S OF FB181 L.S OF FB181A
BELOW SUNKEN SLAB



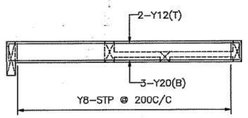
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BELOW SUNKEN SLAB



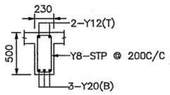
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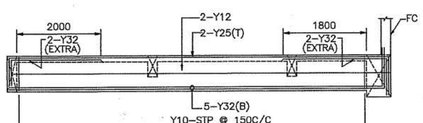
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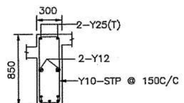
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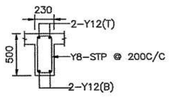
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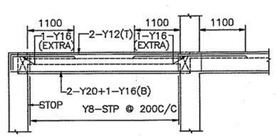
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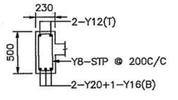
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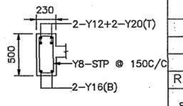
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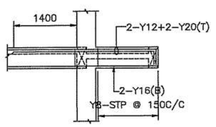
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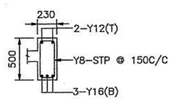
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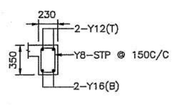
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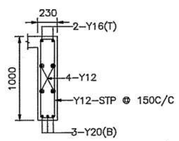
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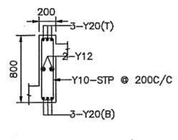
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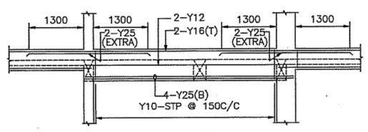
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BELOW SUNKEN SLAB



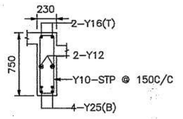
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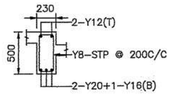
C.S OF FB179



L.S OF FB77A



C.S OF FB77A



C.S OF FB78A

C.S OF FB73A

C.S OF FB9A

C.S OF FB180

C.S OF FB182

L.S OF FB183

C.S OF FB183

L.S OF FB133 (RAISED LVL) L.S OF FB134A (RAISED LVL) L.S OF FB134 (RAISED LVL) L.S OF FB134B (RAISED LVL)

C.S OF FB134A
(RAISED LVL)

C.S OF FB134B
(RAISED LVL)

L.S OF FB132
(BELOW SUNKEN SLAB)

L.S OF FB186
(RAISED LVL)

C.S OF FB186
(RAISED LVL)

NOTES

S+5

- REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS.
- CONCRETE MIX SHALL BE M30 FOR COLUMN & R.C.C WALL
- M25 FOR ALL OTHER R.C.C WORKS,
- FOR P.T SLAB & P.T BEAM PLEASE REFER P.T DRAWING
- ALL REINFORCEMENTS ARE OF Fe500 GRADE.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
  - (i) COLUMN 40mm
  - (ii) SLAB 20mm
  - (iii) BEAM 30mm
  - (iv) R.C.C WALL 25mm
- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

R.No	Description of Revision	Date	Revised By

STRUCTURAL CONSULTANT

UNITED CONSULTANTS
CIVIL & STRUCTURAL CONSULTING ENGINEERS
41/A, BEACH ROAD, DOOR NO. A1
KALAKSHETRA COLONY
BESANT NAGAR, CHENNAI - 600 090.
PH. NO. 044- 2491 09 45,24464478
email : alexjacobuc@gmail.com
web site: www.unitedconsultants.in

ARCHITECTS

CLIENT

PROJECT TITLE

THE PROPOSED RESIDENTIAL CONSTRUCTION STILT+5 FLOORS AT S.NO.716/7A2 T.S NO.18, BLOCK NO.21, WARD I JEEVANTHAM MAIN ROAD, KAMRAJ NAGAR , PARUTHIPATTU VILLAGE, AVADI MUNICIPALITY, POONAMALLEE TALUK,THIRUVALLUR DISTRICT, AVADI, CHENNAI - 600 054.

DRAWING TITLE

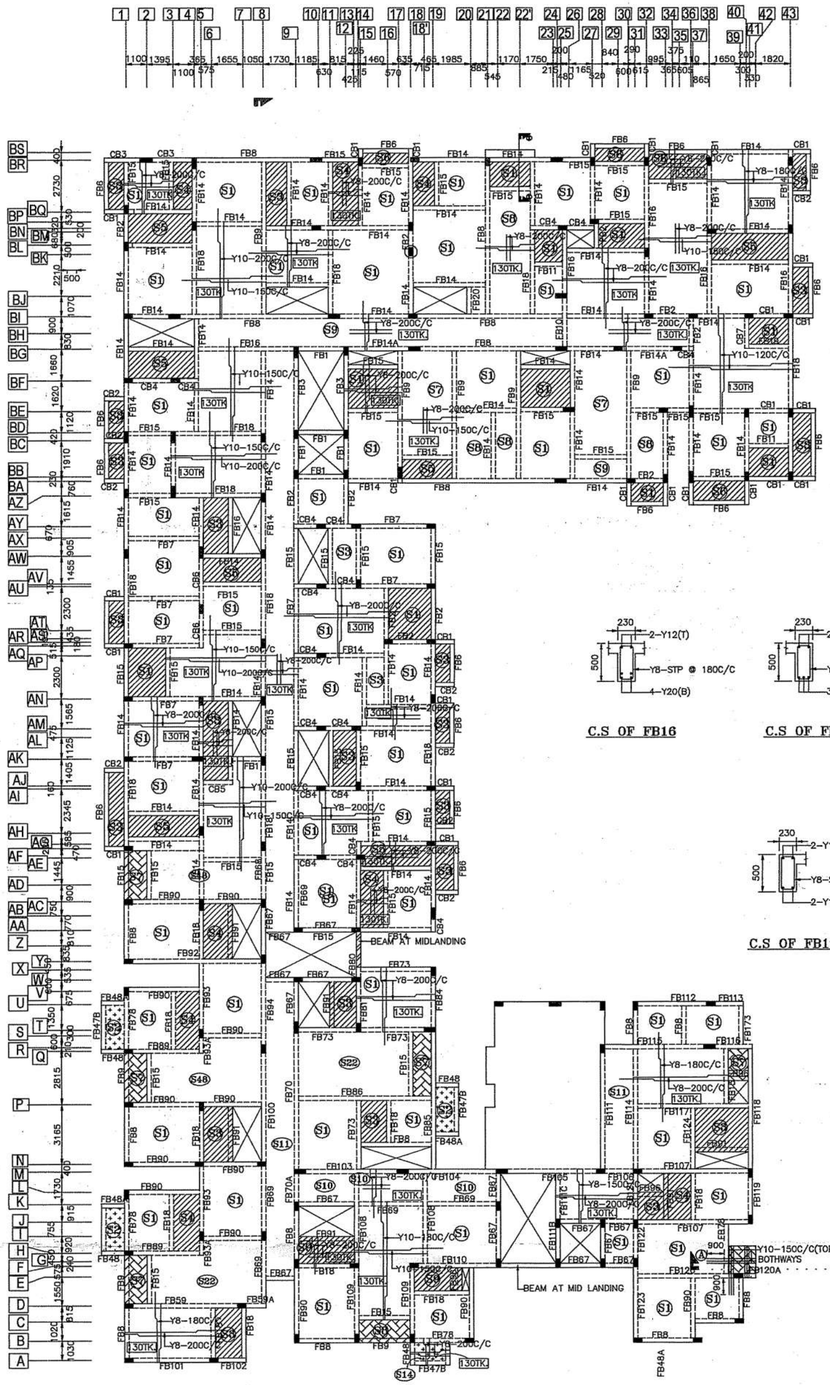
STILT ROOF BEAM DETAIL-SHEET-03

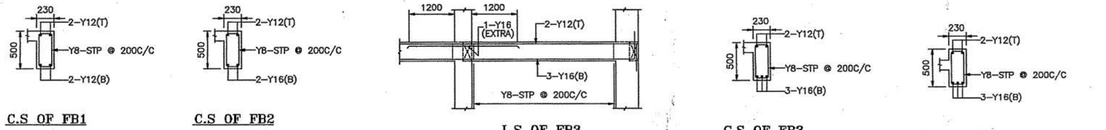
DWG NO

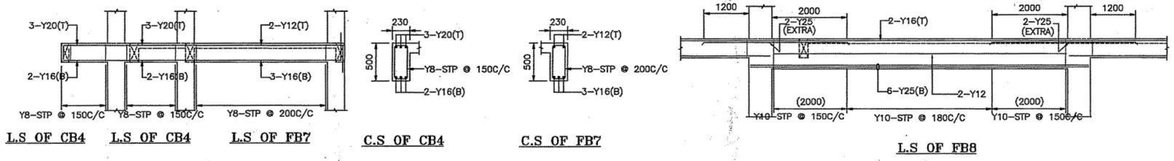
UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI

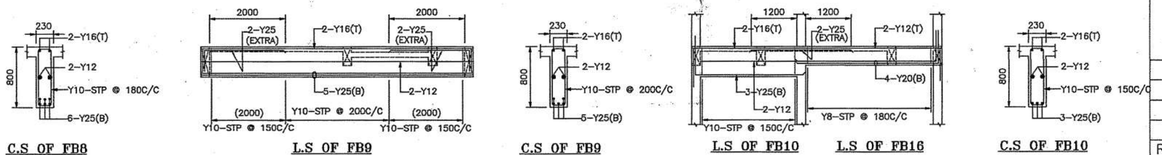
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DRN	KEERTHANA	
DATE	31.10.23	
SCALE	1 : 100	
FILE NAME	C:\KEERTHANA\UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI	

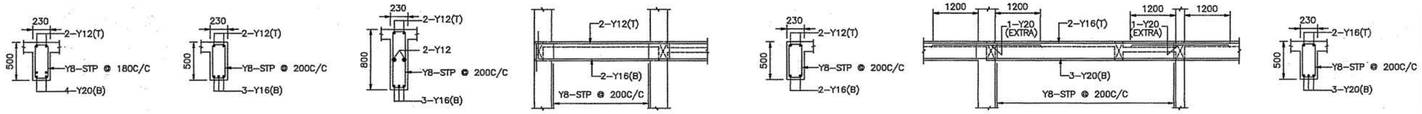
Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon), M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/CE/M/2008/001
REG No. RSE100392019

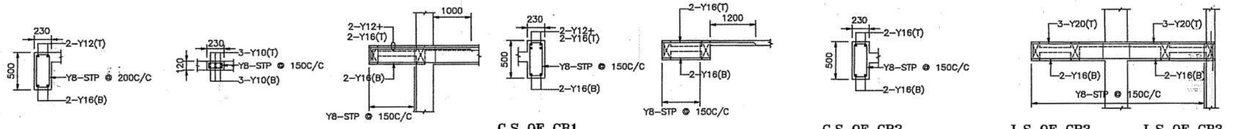


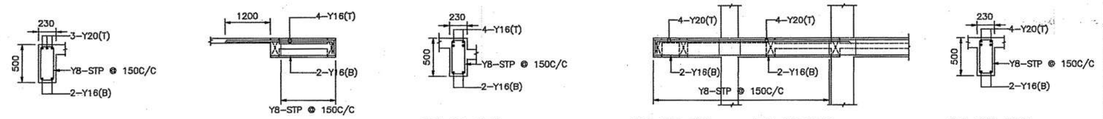


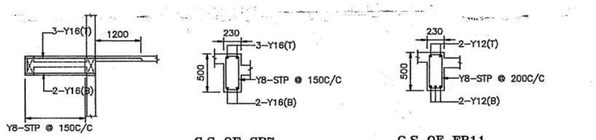












NOTES

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- CONCRETE MIX SHALL BE M30 FOR COLUMN & R.C.C WALL
- M25 FOR ALL OTHER R.C.C WORKS,
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- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE

(i) COLUMN	40mm
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(iii) BEAM	30mm
(iv) R.C.C WALL	25mm

- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

S+5

R.No	Description of Revision	Date	Revised By

STRUCTURAL CONSULTANT

UNITED CONSULTANTS
CIVIL & STRUCTURAL CONSULTING ENGINEERS
41/A, BEACH ROAD, DOOR NO. A1
KALAKSHETRA COLONY
BESANT NAGAR, CHENNAI - 600 090.
PH. NO. 044- 2491 09 45,24464478
email : alexjacobuc@gmail.com
web site: www.unitedconsultants.in

ARCHITECTS

CLIENT

PROJECT TITLE

THE PROPOSED RESIDENTIAL CONSTRUCTION STILT+5 FLOORS AT S.NO.716/7A2 T.S NO.18, BLOCK NO.21, WARD I JEEVANTHAM MAIN ROAD, KAMRAJ NAGAR , PARUTHIPATTU VILLAGE, AVADI MUNICIPALITY, POONAMALLEE TALUK,THIRUVALLUR DISTRICT, AVADI, CHENNAI - 600 054.

DRAWING TITLE

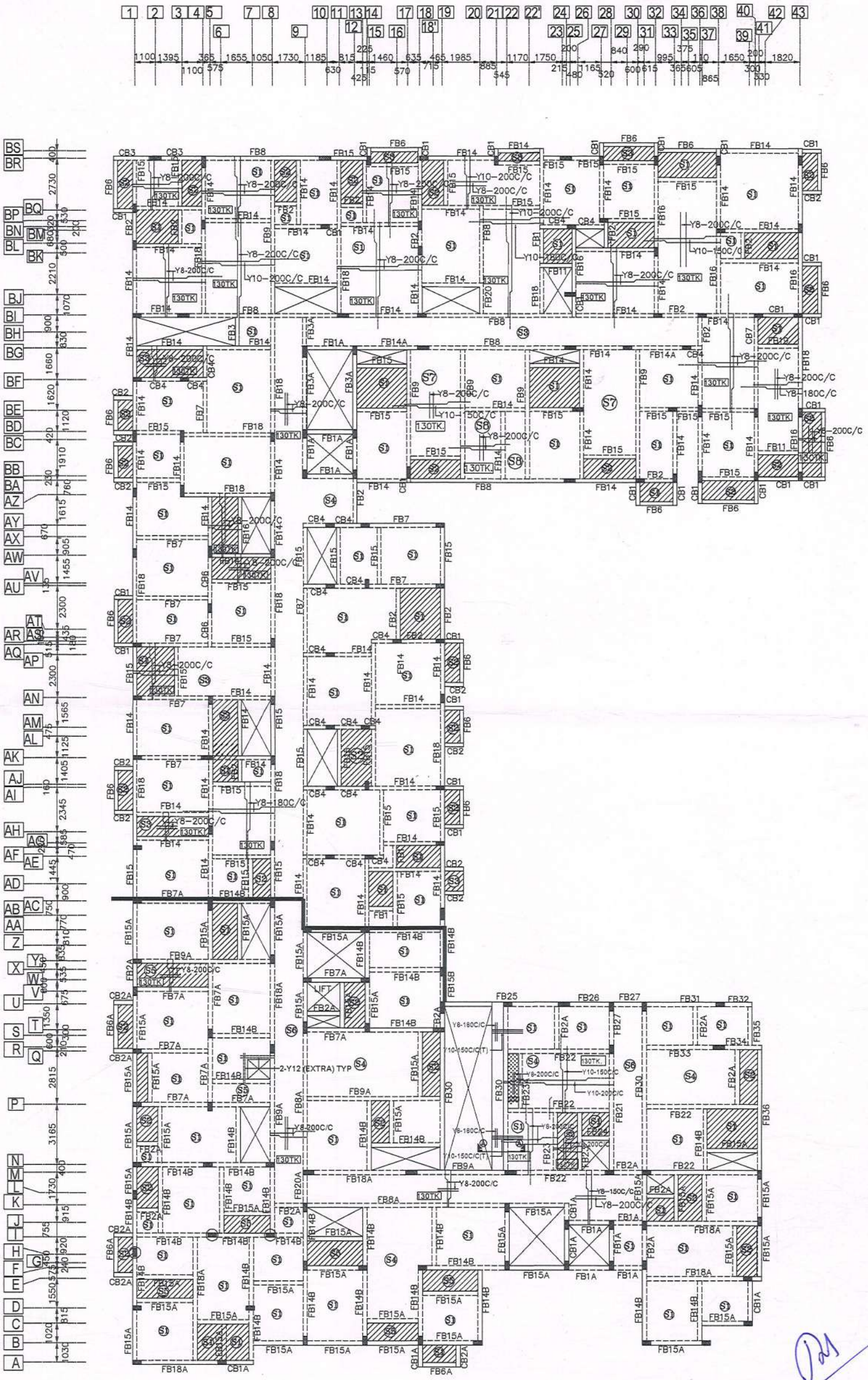
FIRST & SECOND FLOOR ROOF DETAIL

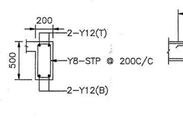
DWG NO

UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI

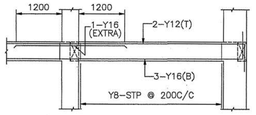
DSND	Alex Jacob
DRN	KEERTHANA
DATE	31.10.23
SCALE	1 : 100
FILE NAME	E:\KEERTHANA\UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI

Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSET/00332019

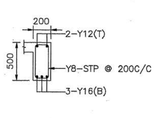

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BS BR BQ BP BN BM BL BK BJ BI BH BG BF BE BD BC BB BA AZ AY AX AW AV AU AT AS AR AQ AP AN AM AL AK AJ AI AH AG AF AE AD AC AB AA Z Y X W V U T S R Q P N M L K J H G F E D C B A
#DENOTES
8 or 10 or 12mm
WHICH EVER MAXIMUM DIA OF THE STRIUPPS BAR USED IN BEAM or COLUMN
600 600
Y8-120C/C
500
Y8-120C/C
NOTES
S+5
• REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS.
• CONCRETE MIX SHALL BE M30 FOR COLUMN & R.C.C WALL
• M25 FOR ALL OTHER R.C.C WORKS,
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R.No Description of Revision Date Revised By
STRUCTURAL CONSULTANT
UNITED CONSULTANTS
CIVIL & STRUCTURAL CONSULTING ENGINEERS
41/A, BEACH ROAD, DOOR NO. A1
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ARCHITECTS
CLIENT
PROJECT TITLE
THE PROPOSED RESIDENTIAL CONSTRUCTION STILT+5 FLOORS AT S.NO.716/7A2 T.S NO.16, BLOCK NO.21, WARD I JEEVANTHAM MAIN ROAD, KAMRAJ NAGAR , PARUTHIPATTU VILLAGE, AVADI MUNICIPALITY, POONAMALLEE TALUK,THIRUVALLUR DISTRICT, AVADI, CHENNAI - 600 054.
DRAWING TITLE
THIRD FLOOR ROOF BEAM LAYOUT
DWG NO
UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI
DSND Alex Jacob
DRN KEERTHANA
DATE 31.10.23
SCALE 1 : 100
FILE NAME E:\KEERTHANA\UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI
Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019



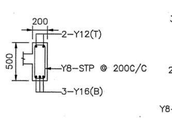
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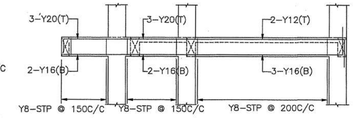
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C.S OF FB3



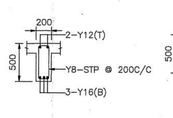
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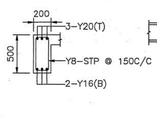
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L.S OF CB4

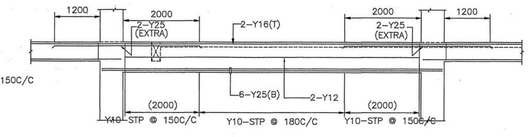
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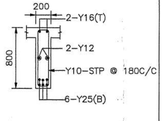
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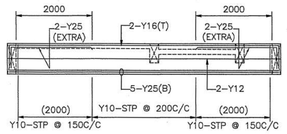
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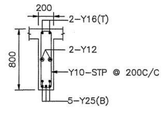
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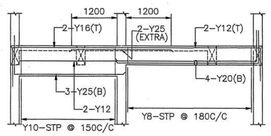
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L.S OF FB9

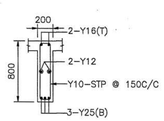


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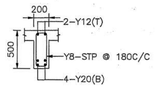


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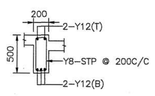
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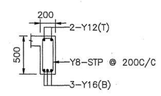
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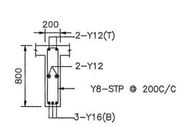
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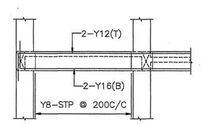
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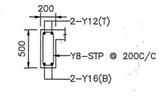
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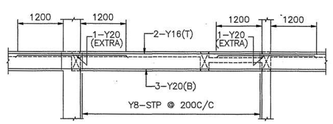
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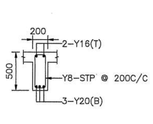
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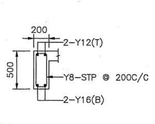
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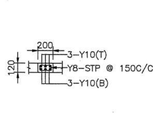
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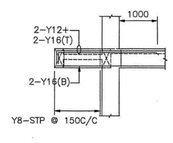
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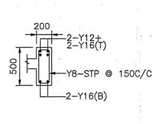
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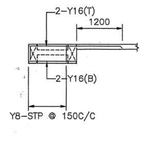
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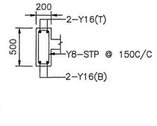
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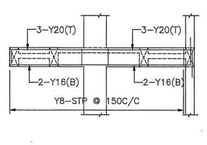
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L.S OF CB2

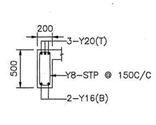


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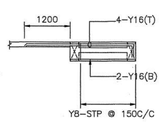


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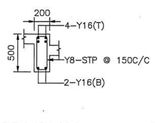
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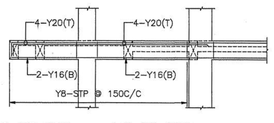
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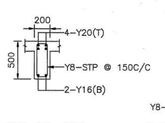


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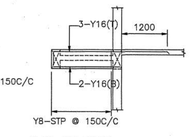


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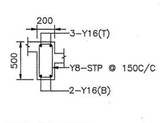
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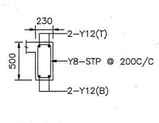
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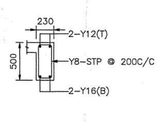
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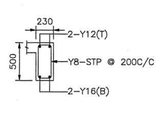
C.S OF CB7



C.S OF FB1A



C.S OF FB2



C.S OF FB2A

C.S OF FB3A

C.S OF FB6A

C.S OF FB7A

C.S OF FB8A

C.S OF FB9A

C.S OF FB14B

C.S OF FB15A

C.S OF FB18A

C.S OF FB20A

C.S OF FB21

L.S OF FB21

L.S OF FB27

C.S OF FB27

L.S OF FB22

C.S OF FB22

C.S OF FB23

C.S OF FB24

L.S OF FB25

L.S OF FB25

L.S OF FB26

C.S OF FB25

C.S OF FB26

L.S OF FB30

C.S OF FB30

L.S OF FB31

L.S OF FB32

C.S OF FB31

C.S OF FB32

L.S OF FB33

L.S OF FB34

C.S OF FB33

L.S OF FB15A

L.S OF FB36

C.S OF FB34

C.S OF FB35
(BELOW SUNKEN SLAB)

C.S OF CB1A

C.S OF CB2A

C.S OF FB23A

S+5

NOTES

- REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS.
- CONCRETE MIX SHALL BE M30 FOR COLUMN & R.C.C WALL
- M25 FOR ALL OTHER R.C.C WORKS,
- FOR P.T SLAB & P.T BEAM PLEASE REFER P.T DRAWING
- ALL REINFORCEMENTS ARE OF Fe500 GRADE.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
  - (i) COLUMN 40mm
  - (ii) SLAB 20mm
  - (iii) BEAM 30mm
  - (iv) R.C.C WALL 25mm
- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

R.No	Description of Revision	Date	Revised By

STRUCTURAL CONSULTANT

UNITED CONSULTANTS
CIVIL & STRUCTURAL CONSULTING ENGINEERS
41/A, BEACH ROAD, DOOR NO. A1
KALAKSHETRA COLONY
BESANT NAGAR, CHENNAI - 600 090.
PH. NO. 044- 2491 09 45,24464478
email : alexjacobuc@gmail.com
web site: www.unitedconsultants.in

ARCHITECTS

CLIENT

PROJECT TITLE

THE PROPOSED RESIDENTIAL CONSTRUCTION STILT+5 FLOORS AT S.NO.716/7A2 T.S NO.18, BLOCK NO.21, WARD I JEEVANTHAM MAIN ROAD, KAMRAJ NAGAR , PARUTHIPATTU VILLAGE, AVADI MUNICIPALITY, POONAMALLEE TALUK,THIRUVALLUR DISTRICT, AVADI, CHENNAI - 600 054.

DRAWING TITLE

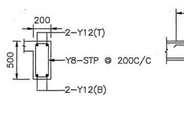
THIRD FLOOR ROOF DETAIL

DWG NO

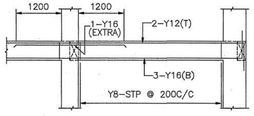
UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI

DSND	Alex Jacob
DRN	KEERTHANA
DATE	14.09.23
SCALE	1 : 100
FILE NAME	E:\KEERTHANA\UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI

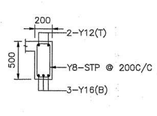
Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/15/02/001
REG No. RSE100392019



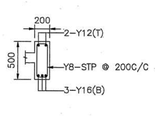
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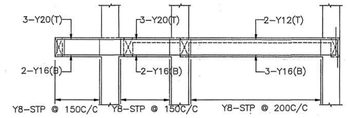
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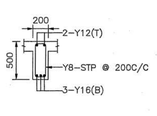
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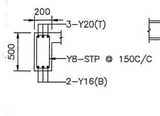
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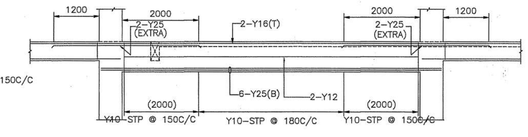
L.S OF CB4 L.S OF CB4 L.S OF FB7



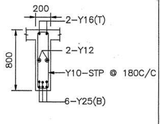
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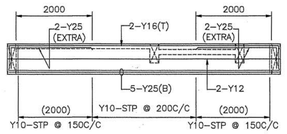
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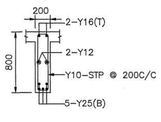
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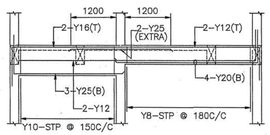
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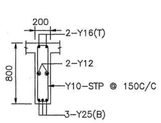
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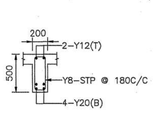
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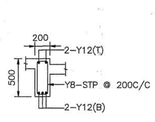
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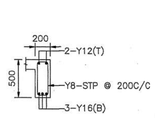
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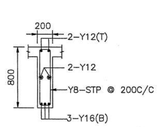
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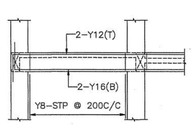
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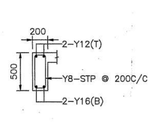
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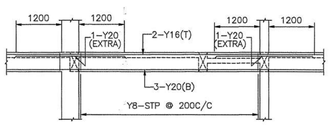
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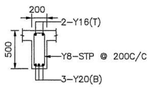
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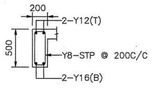
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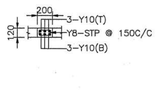
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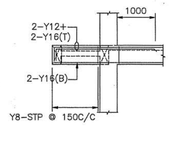
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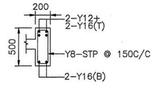
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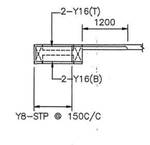
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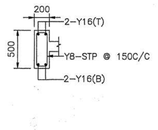
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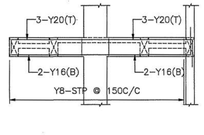
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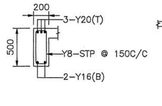
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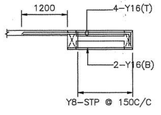
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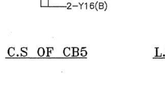
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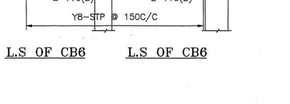
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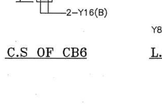
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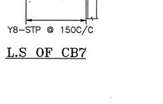
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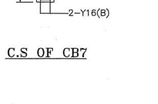
L.S OF CB6 L.S OF CB6



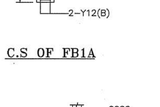
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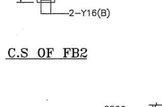
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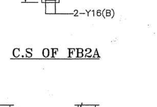
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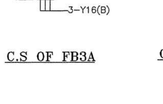
C.S OF FB1A



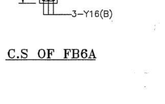
C.S OF FB2



C.S OF FB2A



C.S OF FB3A



C.S OF FB6A

C.S OF FB7A

C.S OF FB8A

C.S OF FB9A

C.S OF FB14B

C.S OF FB15A

C.S OF FB18A

C.S OF FB20A

C.S OF FB21

L.S OF FB21 L.S OF FB27

C.S OF FB27

L.S OF FB22

C.S OF FB22

C.S OF FB23

C.S OF FB24

L.S OF FB25 L.S OF FB25 L.S OF FB26

C.S OF FB25

C.S OF FB26

L.S OF FB30

C.S OF FB30

L.S OF FB31 L.S OF FB32

C.S OF FB31

C.S OF FB32

L.S OF FB33 L.S OF FB34

C.S OF FB33

L.S OF FB15A L.S OF FB36

C.S OF FB34

C.S OF FB35
(BELOW SUNKEN SLAB)

C.S OF CB1A

C.S OF CB2A

C.S OF FB23A

NOTES

S+5

- REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS.
- CONCRETE MIX SHALL BE M30 FOR COLUMN & R.C.C WALL
- M25 FOR ALL OTHER R.C.C WORKS,
- FOR P.T SLAB & P.T BEAM PLEASE REFER P.T DRAWING
- ALL REINFORCEMENTS ARE OF Fe500 GRADE.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
  - (i) COLUMN 40mm
  - (ii) SLAB 20mm
  - (iii) BEAM 30mm
  - (iv) R.C.C WALL 25mm
- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

R.No	Description of Revision	Date	Revised By

STRUCTURAL CONSULTANT

UNITED CONSULTANTS
CIVIL & STRUCTURAL CONSULTING ENGINEERS
41/A, BEACH ROAD, DOOR NO. A1
KALAKSHETRA COLONY
BESANT NAGAR, CHENNAI - 600 090.
PH. NO. 044- 2491 09 45,24464478
email : alexjacobuc@gmail.com
web site: www.unitedconsultants.in

ARCHITECTS

CLIENT

PROJECT TITLE

THE PROPOSED RESIDENTIAL CONSTRUCTION STILT+5 FLOORS AT S.NO.716/7A2 T.S NO.18, BLOCK NO.21, WARD I JEEVANTHAM MAIN ROAD, KAMRAJ NAGAR , PARUTHIPATTU VILLAGE, AVADI MUNICIPALITY, POONAMALLEE TALUK,THIRUVALLUR DISTRICT, AVADI, CHENNAI - 600 054.

DRAWING TITLE

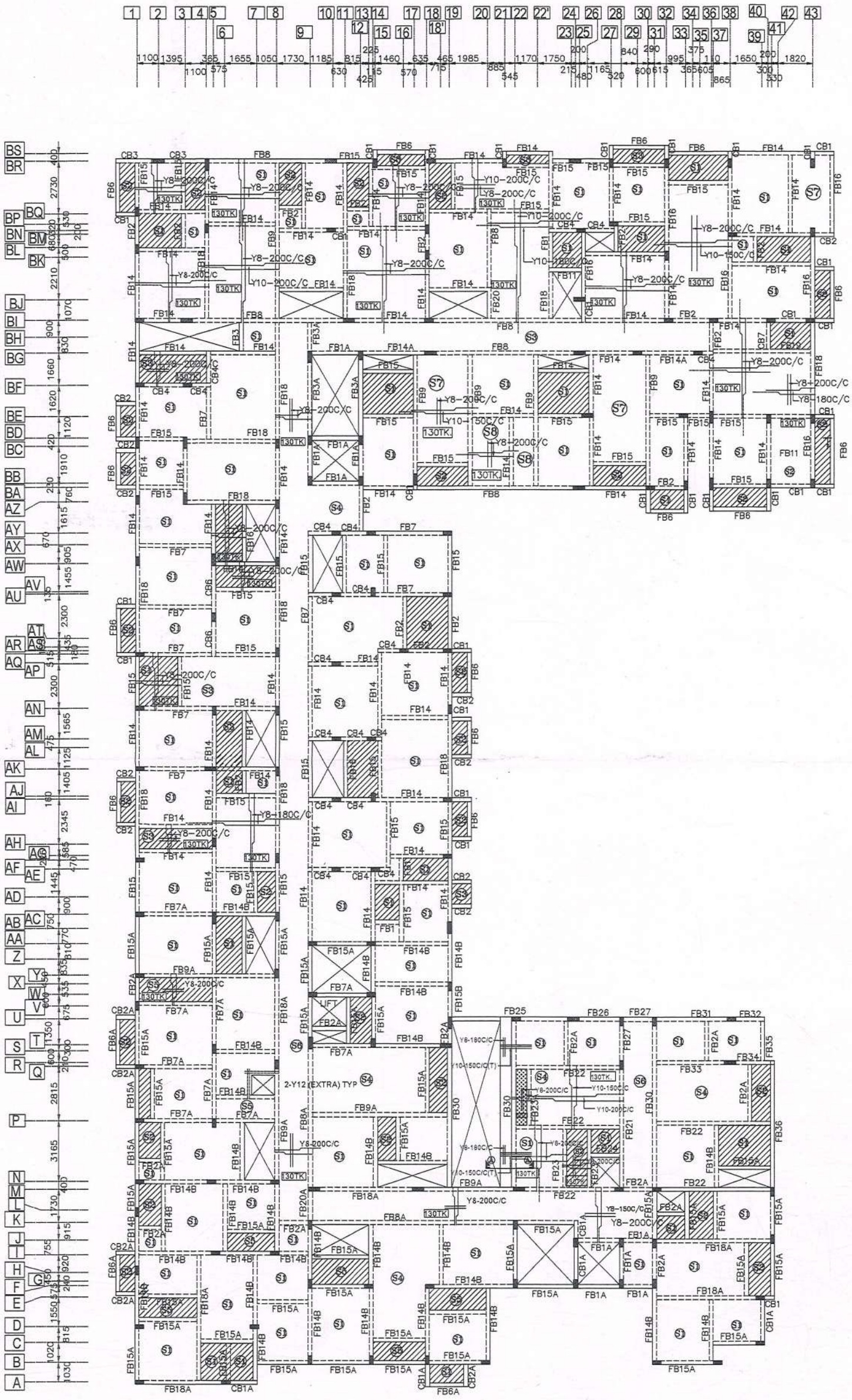
FOURTH & FIFTH FLOOR ROOF DETAIL

DWG NO

UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI

DSND	Alex Jacob
DRN	KEERTHANA
DATE	31.10.23
SCALE	1 : 100
FILE NAME	E:\KEERTHANA\UC-1102-CORPORATION-RESIDENTIAL BUILDING-AVADI

Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019



S+5

NOTES

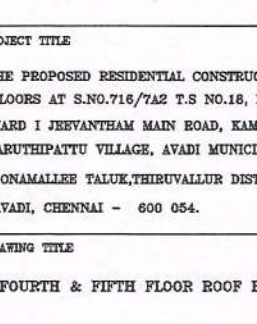
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- M25 FOR ALL OTHER R.C.C WORKS,
- FOR P.T SLAB & P.T BEAM PLEASE REFER P.T DRAWING
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- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE

(i) COLUMN	40mm
(ii) SLAB	20mm
(iii) BEAM	30mm
(iv) R.C.C WALL	25mm

- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

#DENOTES

8 or 10 or 12mm
WHICH EVER MAXIMUM DIA OF THE STRIUPPS BAR USED IN BEAM or COLUMN



R.No	Description of Revision	Date	Revised By

STRUCTURAL CONSULTANT

UNITED CONSULTANTS
CIVIL & STRUCTURAL CONSULTING ENGINEERS
41/A, BEACH ROAD, DOOR NO. A1
KALAKSHETRA COLONY
BESANT NAGAR, CHENNAI - 600 090.
PH. NO. 044- 2491 09 45,24464478
email : alexjacobuc@gmail.com
web site: www.unitedconsultants.in

ARCHITECTS

CLIENT

PROJECT TITLE

THE PROPOSED RESIDENTIAL CONSTRUCTION STILT+5 FLOORS AT S.NO.716/7A2 T.S NO.18, BLOCK NO.21, WARD I JEEVANTHAM MAIN ROAD, KAMRAJ NAGAR , PARUTHIPATTU VILLAGE, AVADI MUNICIPALITY, POONAMALLEE TALUK,THIRUVALLUR DISTRICT, AVADI, CHENNAI - 600 054.

DRAWING TITLE

FOURTH & FIFTH FLOOR ROOF BEAM LAYOUT

DWG NO

UC/1102/GMB HOUSING AVADI/ROOF

DSND	Alex Jacob
DRN	KEERTHANA
DATE	31.10.23
SCALE	1 : 100
FILE NAME	E:\KEERTHANA\GMB HOUSING\FOURTH FLOOR ROOF DETAIL

Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019



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