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*          STAAD.Pro CONNECT Edition             *
*          Version  22.12.00.142                 *
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*          Bentley Systems, Inc.                 *
*          Date=    FEB 13, 2024                 *
*          Time=    13:14:59                     *
*                                                *
*  Licensed to: C.Kannan                         *
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     4. JOB NAME PROPOSED RESIDENTIAL APARTMENT AND COMMERCIAL BUILDING IN R. S. NO. -
     5. 10/17B & 10/17C, KANNETHAL VILLAGE, MADURAI NORTH TALUK, MADURAI -
     6. CORPORATION, MADURAI DISTRICT
     7. ENGINEER NAME KANNAN
     8. CHECKER NAME KANNAN
     9. APPROVED NAME KANNAN
    10. CHECKER DATE 2/13/2024
    11. APPROVED DATE 2/13/2024
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    25. 40 0 27000 14100.1; 41 0 30000 0; 42 0 30000 3200; 43 0 30000 7250
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    28. 52 0 -3000 14100.1
    29. MEMBER INCIDENCES
    30. 1 1 2; 2 2 3; 3 3 4; 4 1 5; 5 2 6; 6 3 7; 7 4 8; 8 5 6; 9 6 7; 10 7 8; 11 5 9
    31. 12 6 10; 13 7 11; 14 8 12; 15 9 10; 16 10 11; 17 11 12; 18 9 13; 19 10 14
    32. 20 11 15; 21 12 16; 22 13 14; 23 14 15; 24 15 16; 25 13 17; 26 14 18; 27 15 19
    33. 28 16 20; 29 17 18; 30 18 19; 31 19 20; 32 17 21; 33 18 22; 34 19 23; 35 20 24
    34. 36 21 22; 37 22 23; 38 23 24; 39 21 25; 40 22 26; 41 23 27; 42 24 28; 43 25 26
    35. 44 26 27; 45 27 28; 46 25 29; 47 26 30; 48 27 31; 49 28 32; 50 29 30; 51 30 31
    36. 52 31 32; 53 29 33; 54 30 34; 55 31 35; 56 32 36; 57 33 34; 58 34 35; 59 35 36
    37. 60 33 37; 61 34 38; 62 35 39; 63 36 40; 64 37 38; 65 38 39; 66 39 40; 67 37 41
    38. 68 38 42; 69 39 43; 70 40 44; 71 41 42; 72 42 43; 73 43 44; 74 41 45; 75 42 46
```

C. KANNAN, B.E.,M.E., (Structure)
Structural Engineer,
DTCP Reg. No. CGLRGN/SE/Gr.I/19/05/002
Door No: 21, 4th Main Road,
Indira Nagar, Chennai - 600 020.

```
39. 76 43 47; 77 44 48; 78 45 46; 79 46 47; 80 47 48; 81 49 1; 82 50 2; 83 51 3
40. 84 52 4
41. DEFINE MATERIAL START
42. ISOTROPIC CONCRETE
43. E 21.7185
44. POISSON 0.17
45. DENSITY 2.35616E-08
46. ALPHA 1E-05
47. DAMP 0.05
48. G 9.28139
49. TYPE CONCRETE
50. STRENGTH FCU 0.027579
51. END DEFINE MATERIAL
52. MEMBER PROPERTY
53. 1 TO 3 8 TO 10 15 TO 17 22 TO 24 29 TO 31 36 TO 38 43 TO 45 50 TO 52 -
54. 57 TO 59 64 TO 66 71 TO 73 78 TO 80 PRIS YD 500 ZD 200
55. 4 TO 7 11 TO 14 18 TO 21 25 TO 28 32 TO 35 39 TO 42 46 TO 49 53 TO 56 -
56. 60 TO 63 67 TO 70 74 TO 77 81 TO 84 PRIS YD 500 ZD 200
57. CONSTANTS
58. MATERIAL CONCRETE ALL
59. SUPPORTS
60. 49 TO 52 FIXED
61. DEFINE IS1893 2016 LOAD
62. ZONE 0.1 RF 5 I 1.2 SS 1 ST 1 DM 0.05 DT 3
63. SELFWEIGHT 1
64. MEMBER WEIGHT
65. 1 TO 3 8 TO 10 15 TO 17 22 TO 24 29 TO 31 36 TO 38 43 TO 45 50 TO 52 -
66. 57 TO 59 64 TO 66 71 TO 73 78 TO 80 UNI 0.012 0 0
67. 1 TO 3 8 TO 10 15 TO 17 22 TO 24 29 TO 31 36 TO 38 43 TO 45 50 TO 52 -
68. 57 TO 59 64 TO 66 71 TO 73 78 TO 80 UNI 0.035 0 0
69. UNIT METER KN
70. 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.

71. TYPE 1 WIND 1
72. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
73. CUSTOM:PARAMS
74. !> END GENERATED DATA BLOCK
75. INT 1.35 1.58 1.69 1.76 1.9 2.05 HEIG  10  15  20  25  30  33
76. EXP 1 JOINT 1 TO 52
77. LOAD 1 LOADTYPE SEISMIC-H  TITLE EQ +X
78. 1893 LOAD X 1
79. LOAD 2 LOADTYPE SEISMIC-H  TITLE EQ -X
80. 1893 LOAD X -1.
81. LOAD 3 LOADTYPE SEISMIC-H  TITLE EQ +Z
82. 1893 LOAD Z 1
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STAAD SPACE -- PAGE NO. 3

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  83. LOAD 4 LOADTYPE SEISMIC-H  TITLE EQ -Z
  84. 1893 LOAD Z -1.
  85. LOAD 5 LOADTYPE WIND  TITLE WIND +X
  86. WIND LOAD X 1 TYPE 1
  87. LOAD 6 LOADTYPE WIND  TITLE WIND -X
  88. WIND LOAD -X 1 TYPE 1
  89. LOAD 7 LOADTYPE WIND  TITLE WIND +Z
  90. WIND LOAD Z 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
  91. LOAD 8 LOADTYPE WIND  TITLE WIND -Z
  92. WIND LOAD -Z 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
  93. LOAD 9 LOADTYPE LIVE  TITLE LIVE LOAD
  94. MEMBER LOAD
  95. 1 TO 3 8 TO 10 15 TO 17 22 TO 24 29 TO 31 36 TO 38 43 TO 45 50 TO 52 -
  96. 57 TO 59 64 TO 66 71 TO 73 78 TO 80 UNI GY -12
  97. LOAD 10 LOADTYPE DEAD  TITLE DEAD LOAD
  98. SELFWEIGHT Y -1
  99. MEMBER LOAD
 100. 1 TO 3 8 TO 10 15 TO 17 22 TO 24 29 TO 31 36 TO 38 43 TO 45 50 TO 52 -
 101. 57 TO 59 64 TO 66 71 TO 73 78 TO 80 UNI GY -35
 102. LOAD COMB 11 1.5(DL+IL)
 103. 9 1.5 10 1.5
 104. LOAD COMB 12 1.2(DL+IL+ELX)
 105. 9 1.5 10 1.2 1 1.2
 106. LOAD COMB 13 1.2(DL+IL-ELX)
 107. 9 1.2 10 1.2 2 1.2
 108. LOAD COMB 14 1.2(DL+IL+ELZ)
 109. 9 1.2 10 1.2 3 1.2
 110. LOAD COMB 15 1.2(DL+IL-ELZ)
 111. 9 1.2 10 1.2 4 1.2
 112. LOAD COMB 16 1.2(DL+IL+WLX)
 113. 9 1.2 10 1.2 5 1.2
 114. LOAD COMB 17 1.2(DL+IL-WLX)
 115. 10 1.2 6 1.2
 116. LOAD COMB 18 1.2(DL+IL+WLZ)
 117. 9 1.2 10 1.2 7 1.2
 118. LOAD COMB 19 1.2(DL+IL-WLZ)
```

```
119. 9 1.2 10 1.2 8 1.2
120. LOAD COMB 20 1.5(DL+ELX)
121. 9 1.5 10 1.5 1 1.5
122. LOAD COMB 21 1.5(DL-ELX)
123. 9 1.5 10 1.5 2 1.5
124. LOAD COMB 22 1.5(DL+ELZ)
125. 9 1.5 10 1.5 3 1.5
126. LOAD COMB 23 1.5(DL-ELZ)
127. 10 1.5 4 1.5
128. LOAD COMB 24 1.5(DL+WLX)
129. 10 1.5 5 1.5
130. LOAD COMB 25 1.5(DL-WLX)
131. 10 1.5 6 1.5
132. LOAD COMB 26 1.5(DL+WLZ)
133. 10 1.5 7 1.5
134. LOAD COMB 27 1.5(DL-WLZ)
135. 10 1.5 8 1.5
136. LOAD COMB 28 0.9 DL+ELX
137. 10 0.9 1 1.5
138. LOAD COMB 29 0.9 DL-ELX
139. 10 0.9 2 1.5
140. LOAD COMB 30 0.9 DL+ELZ
141. 10 0.9 3 1.5
142. LOAD COMB 31 0.9 DL-ELZ
143. 10 0.9 4 1.5
144. LOAD COMB 32 0.9 DL+WLX
145. 10 0.9 5 1.5
146. LOAD COMB 33 0.9 DL-WLX
147. 10 0.9 6 1.5
148. LOAD COMB 34 0.9 DL+WLZ
149. 10 0.9 7 1.5
150. LOAD COMB 35 0.9 DL-WLZ
151. 10 0.9 8 1.5
152. PERFORM ANALYSIS PRINT ALL


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

  NUMBER OF JOINTS         52  NUMBER OF MEMBERS      84
  NUMBER OF PLATES          0  NUMBER OF SOLIDS        0
  NUMBER OF SURFACES        0  NUMBER OF SUPPORTS      4

        Using 64-bit analysis engine.

        SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

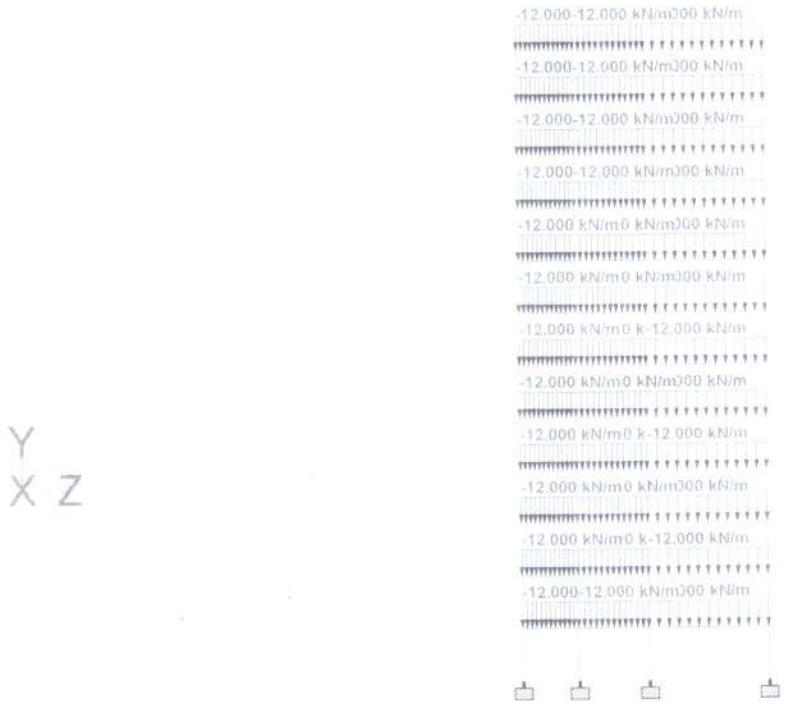
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 TOTAL LOAD COMBINATION  CASES =    25  SO FAR.
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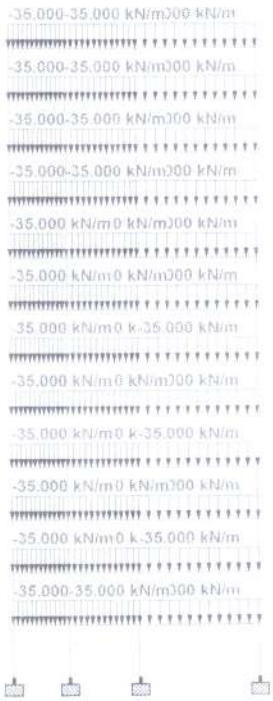


C. KANNAN, B.E.,M.E., (Structure)
Structural Engineer,
DTCP Reg. No. CGLRGN/SE/Gr.I/19/05/002
Door No: 21, 4th Main Road,
Indira Nagar, Chennai - 600 020.

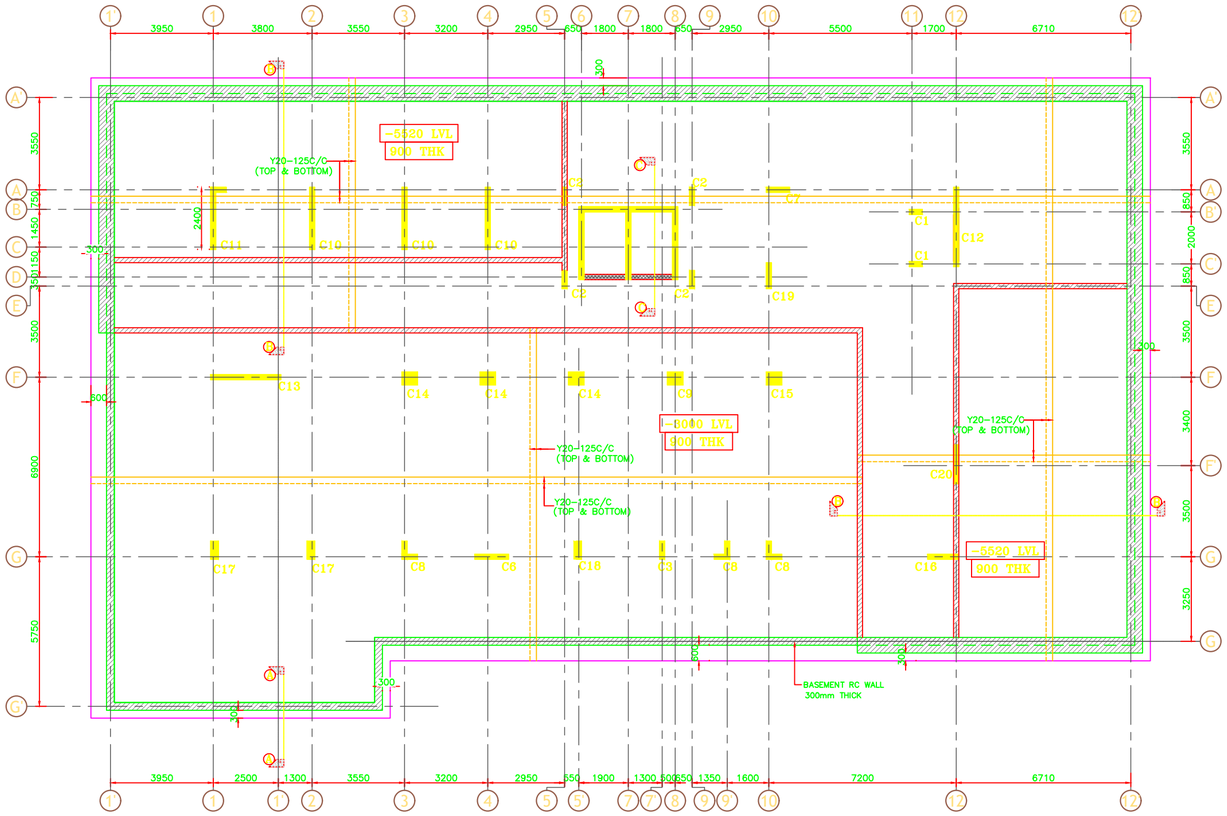


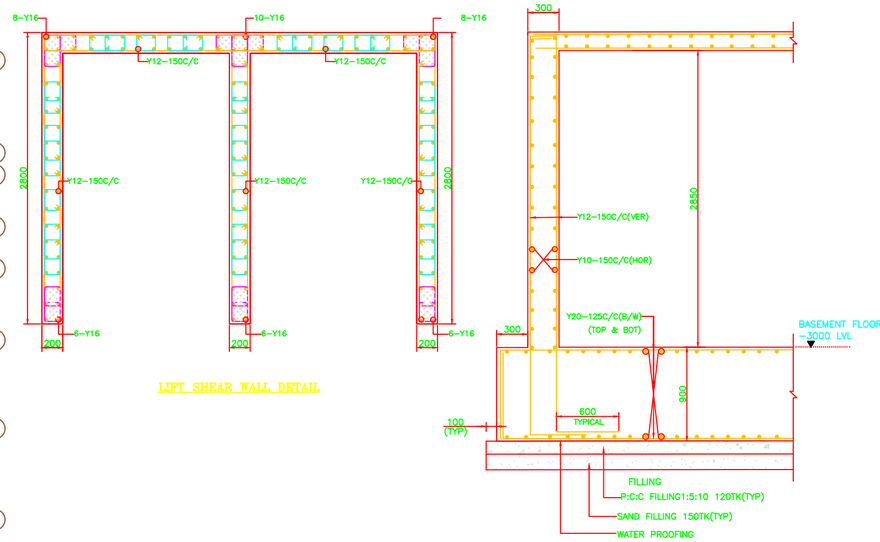
C. KANNAN, B.E.,M.E., (Structure)
Structural Engineer,
DTCP Reg. No. CGLRGN/SE/Gr.I/19/05/002
Door No: 21, 4th Main Road,
Indira Nagar, Chennai - 600 020.


-12.000-12.000 kN/m000 kN/m
-12.000-12.000 kN/m000 kN/m
-12.000-12.000 kN/m000 kN/m
-12.000-12.000 kN/m000 kN/m
-12.000 kN/m0 kN/m000 kN/m
-12.000 kN/m0 kN/m000 kN/m
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-12.000 kN/m0 kN/m000 kN/m
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-12.000 kN/m0 kN/m000 kN/m
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Y
X Z



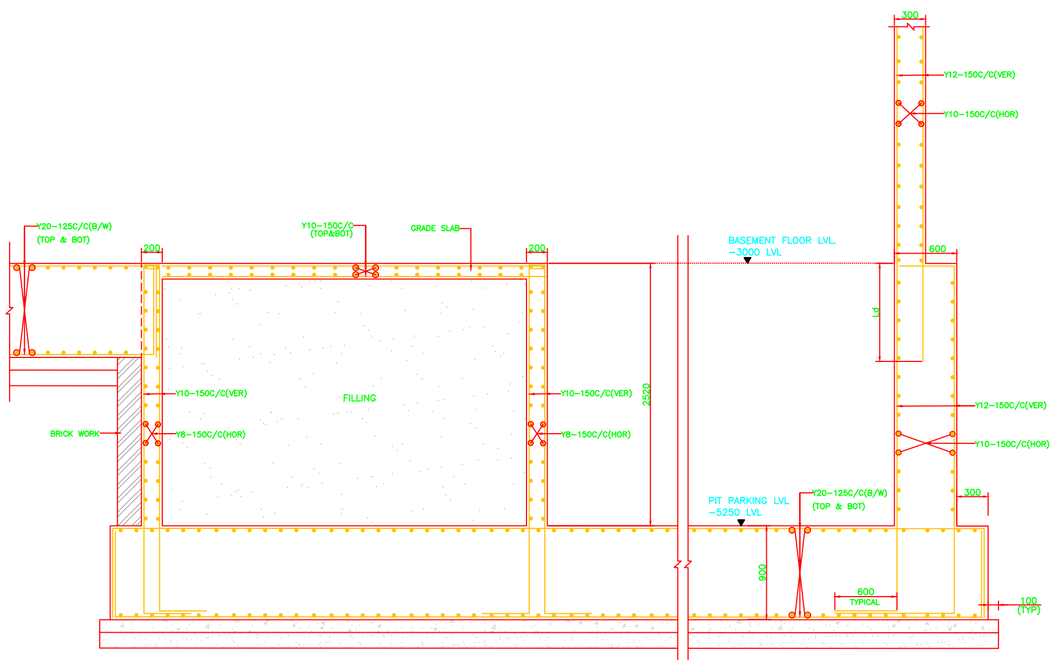
C. KANNAN, B.E.,M.E., (Structure)
Structural Engineer,
DTCP Reg. No. CGLRGN/SE/Gr.I/19/05/002
Door No: 21, 4th Main Road,
Indira Nagar, Chennai - 600 020.



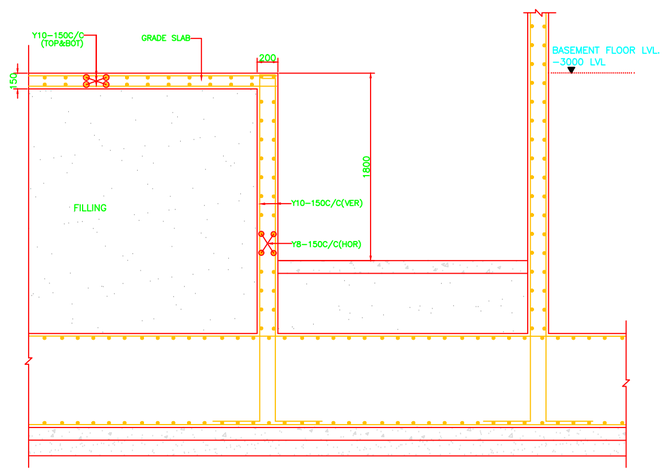


LIFT SHEAR WALL DETAIL

TYPICAL SECTION OF RAFT
SECTION A A



SECTION B B



SECTION C C

Notes:−

1. This drawing should be read along with architectural drawings.
2. Grade of R.C.C. items shall be M40 for column & M30 for all other R.C.C works
3. Y Denotes TOR50 Steel confirming to I.S. 1786 − 1985. Grade − Fe 500
4. Clear cover to the main steel
   - 50 for Footings , Raft Slabs & Raft Beams.
   - 40 for Columns.
   - 25 for Lintel & Beams.
   - 15 for Sunshade & Slab.
5. Lap length shall be 50 d (Max. dia) for all bars.
6. ——— Bottom Reinforcement
7. - - - - - - Top Reinforcement
8. Provide Continuous Chairs to keep the top Reinforcement in position
9. Provide Y 8 at 200 as Distribution steel for all top Reinforcement.
10. Spacer Bar to be Provided in Between Two Layers Of Reinforcement of Same Dia at Every 1000 C/ C.
11. Not more than 40% of Reinforcement shall be Lapped at any particular junction.
12. Cantilever props should not be released until the roof is concreted.
13. Foundation is designed for B+G+9 upper floor only.
14. For Earthquake analysis Zone III is taken as per IS : 1893−2016 code.
15. Removal of formworks :
    - i) For Slabs :
    - a. Slabs spanning upto 4.5 m (15'−0") − 7 days
    - b. Slabs spanning over 4.5 m (15'−0") − 14 days
    - ii) For Beams and Arches :
    - c. Beams and Arches spanning upto 6 m (20'−0") −14days
    - d. Beams and Arches spanning over 6 m (20'−0") −21days

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT NARAYANAPURAM, MADURAI.

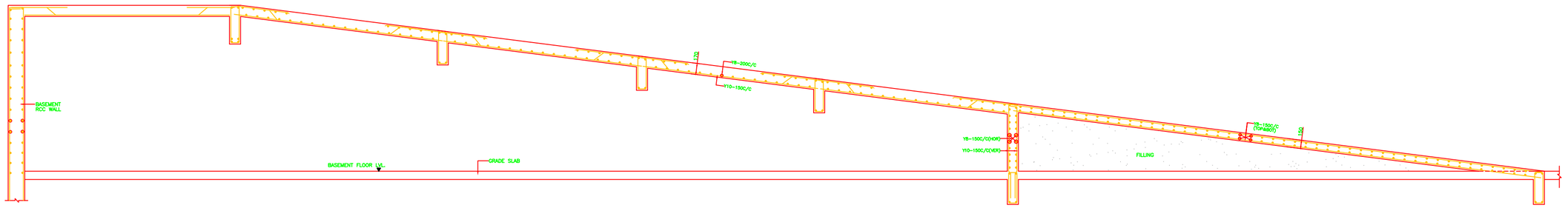
FOUNDATION DETAILS

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DRAWN	MAHALINGAM BALAJI		DATE	28−03−2024

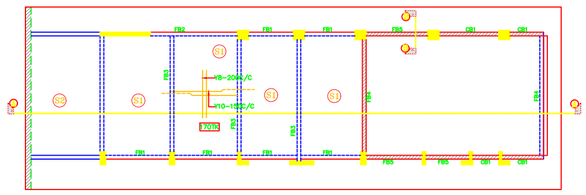
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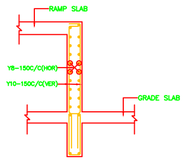
C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:257−W,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI−20.
MOBILE NO: 098412 49815.
E−MAIL:kannankds2007@gmail.com

FILE NAME : D/MAHALINGAM/UMAIZENARAYANAPURAM MADURAI

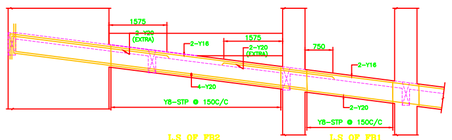


SECTION A A

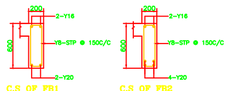




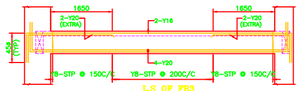
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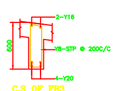
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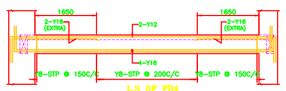
C.S OF FB1 C.S OF FB2



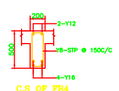
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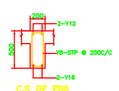
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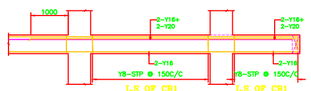
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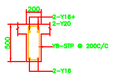
C.S OF FB4



C.S OF FB5



L.S OF CB1 L.S OF CB1



C.S OF CB1

Notes:-

1. This drawing should be read along with architectural drawings.
2. Grade of R.C.C. items shall be M40 for column & M30 for all other R.C.C works
3. Y Denotes TOR50 Steel confirming to I.S. 1786 – 1985. Grade – Fe 500
4. Clear cover to the main steel
   - 50 for Footings , Raft Slabs & Raft Beams.
   - 40 for Columns.
   - 25 for Lintel & Beams.
   - 15 for Sunshade & Slab.
5. Lap length shall be 50 d (Max. dia) for all bars.
6. ——— Bottom Reinforcement
7. - - - - - - - Top Reinforcement
8. Provide Continuous Chairs to keep the top Reinforcement in position
9. Provide Y 8 at 200 as Distribution steel for all top Reinforcement.
10. Spacer Bar to be Provided in Between Two Layers Of Reinforcement of Same Dia at Every 1000 C/ C.
11. Not more than 40% of Reinforcement shall be Lapped at any particular junction.
12. Cantilever props should not be released until the roof is concreted.
13. Foundation is designed for B+G+9 upper floor only.
14. For Earthquake analysis Zone III is taken as per IS : 1893–2016 code.
15. Removal of formworks :
    - i) For Slabs :
    - a. Slabs spanning upto 4.5 m (15'–0") – 7 days
    - b. Slabs spanning over 4.5 m (15'–0") – 14 days
    - ii) For Beams and Arches :
    - c. Beams and Arches spanning upto 6 m (20'–0") –14days
    - d. Beams and Arches spanning over 6 m (20'–0") –21days

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT NARAYANAPURAM, MADURAI.

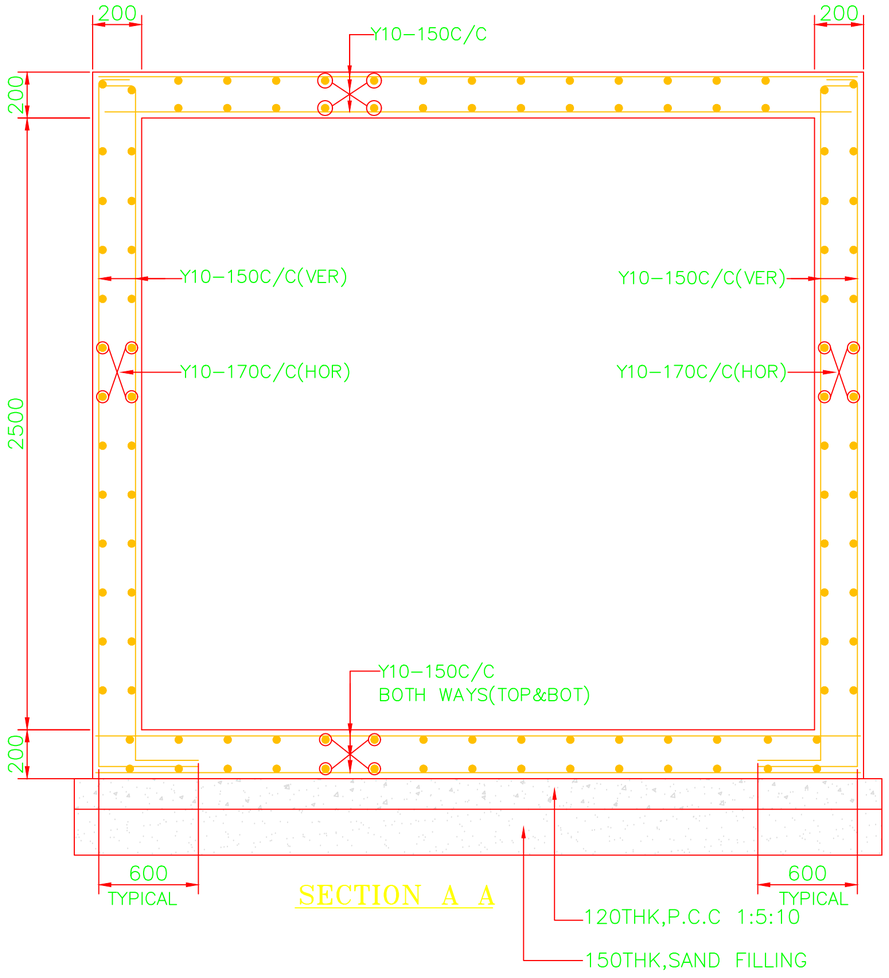
RAMP LAYOUT & DETAILS

DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	BALAJI		DATE	28-03-2024

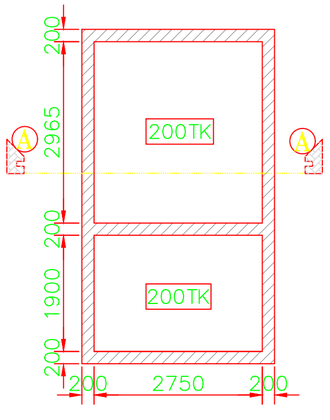
STRUCTURAL CONSULTANTS:

C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:257–W,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI–20.
MOBILE NO: 098412 49815.
E–MAIL:kannankds2007@gmail.com

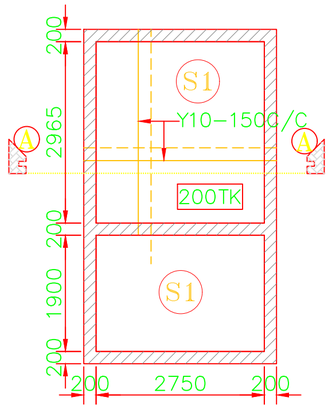
FILE NAME : D/MAHALINGAM/UMAIZE NARAYANAPURAM MADURAI



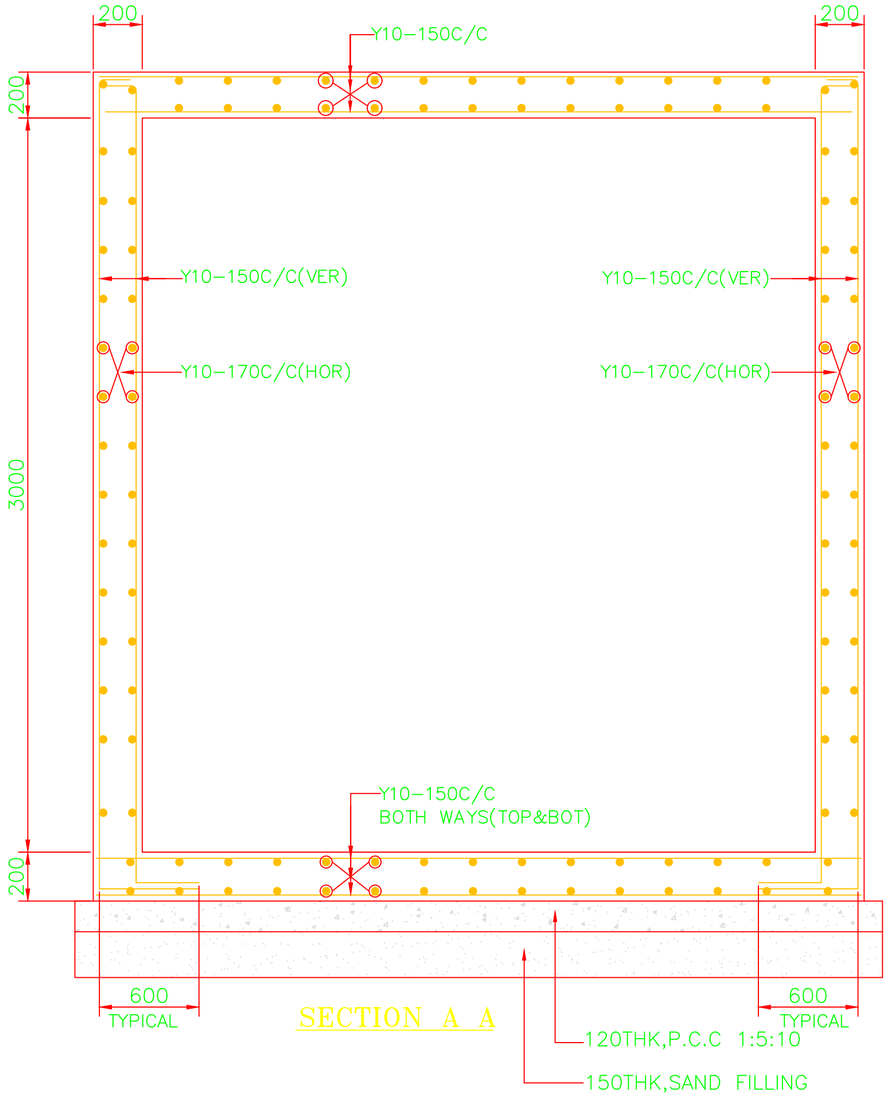
SECTION A A



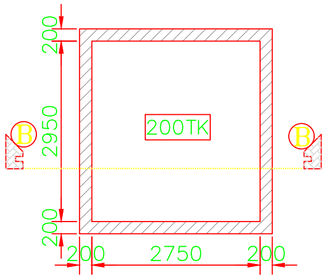
SUMP BASE SLAB LAYOUT



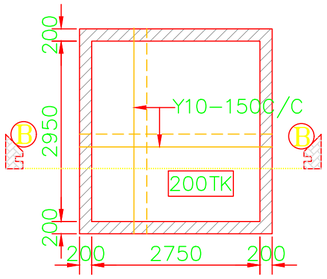
SUMP COVER SLAB LAYOUT



SECTION A A



SUMP BASE SLAB LAYOUT



SUMP COVER SLAB LAYOUT

Notes: –

1. This drawing should be read along with architectural drawings.
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3. Y Denotes TOR50 Steel confirming to I.S. 1786 – 1985. Grade – Fe 500
4. Clear cover to the main steel
   - 50 for Footings , Raft Slabs & Raft Beams.
   - 40 for Columns.
   - 25 for Lintel & Beams.
   - 15 for Sunshade & Slab.
5. Lap length shall be 50 d (Max. dia) for all bars.
6. ——— Bottom Reinforcement
7. - - - - Top Reinforcement
8. Provide Continuous Chairs to keep the top Reinforcement in position
9. Provide Y 8 at 200 as Distribution steel for all top Reinforcement.

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT NARAYANAPURAM, MADURAI.

U.G SUMP DETAILS

(TYPE 1)

DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	BALAJI		DATE	28-03-2024

STRUCTURAL CONSULTANTS:

C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:257–W,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI–20.
MOBILE NO: 098412 49815.
E–MAIL:kannankds2007@gmail.com

FILE NAME : D/MAHALINGAM/UMAIZENARAYANAPURAM MADURAI

COLUMN NO	BASEMENT+ STILT FLOOR	FIRST & SECOND FLOOR	THIRD & FOURTH FLOOR	FIFTH & SIXTH FLOOR	SEVENTH & EIGHT FLOOR	NINETH FLOOR	TIE DETAIL	
							BASEMENT+STILT FLOOR	TYPICAL FLOOR
COL-C1	10-Y20 / Y8-TIES @ 200C/C	10-Y20 / Y8-TIES @ 200C/C	10-Y20 / Y8-TIES @ 200C/C	-	-	-		
COL-C2	10-Y25 / Y8-TIES @ 200C/C	10-Y25 / Y8-TIES @ 200C/C	6-Y25+4-Y20 / Y8-TIES @ 200C/C	4-Y25+6-Y20 / Y8-TIES @ 200C/C	4-Y25(6)+4-Y20(6)+ 2-Y16(c) / Y8-TIES @ 200C/C	4-Y25+6-Y16 / Y8-TIES @ 200C/C		
COL-C3	14-Y25 / Y8-TIES @ 200C/C	14-Y25 / Y8-TIES @ 200C/C	10-Y25+4-Y20 / Y8-TIES @ 200C/C	8-Y25+6-Y20 / Y8-TIES @ 200C/C	4-Y25(6)+4-Y20(6)+ 6-Y16(c) / Y8-TIES @ 200C/C	4-Y25+10-Y16 / Y8-TIES @ 200C/C		
COL-C6	28-Y20 / Y8-TIES @ 200C/C	28-Y20 / Y8-TIES @ 200C/C	20-Y20+8-Y16 / Y8-TIES @ 200C/C	12-Y20+16-Y16 / Y8-TIES @ 200C/C	12-Y20(6)+8-Y16(6)+ 8-Y12(c) / Y8-TIES @ 200C/C	4-Y20(6)+8-Y16(6)+ 16-Y12(c) / Y8-TIES @ 200C/C		
COL-C7	14-Y20 / Y8-TIES @ 200C/C	14-Y20 / Y8-TIES @ 200C/C	10-Y20+4-Y16 / Y8-TIES @ 200C/C	8-Y20+6-Y16 / Y8-TIES @ 200C/C	4-Y20(6)+4-Y16(6)+ 8-Y12(c) / Y8-TIES @ 200C/C	4-Y20+10-Y12 / Y8-TIES @ 200C/C		
COL-C8	4-Y25 / 6-Y20 / 6-Y25 / 4-Y20 / 4-Y25 / 600	4-Y25 / 6-Y20 / 6-Y25 / 4-Y20 / 4-Y25 / 600	4-Y25 / 6-Y16 / 6-Y16 / 4-Y16 / 4-Y25 / 600	4-Y20 / 6-Y16 / 6-Y16 / 4-Y16 / 4-Y20 / 600	4-Y20 / 6-Y16 / 6-Y16 / 4-Y16 / 4-Y20 / 600	4-Y20 / 6-Y12 / 6-Y12 / 4-Y12 / 4-Y20 / 600		
COL-C9	16-Y25 / Y8-TIES @ 200C/C	-	-	-	-	-		-
COL-C10	6-Y16 / Y12-150C/C / Y8-TIES @ 200C/C / 6-Y16	6-Y16 / Y12-150C/C / Y8-TIES @ 200C/C / 6-Y16	6-Y16 / Y12-150C/C / Y8-TIES @ 200C/C / 6-Y16	6-Y16 / Y12-150C/C / Y8-TIES @ 200C/C / 6-Y16	6-Y16 / Y10-150C/C / Y8-TIES @ 200C/C / 6-Y16	6-Y16 / Y10-150C/C / Y8-TIES @ 200C/C / 6-Y16		
COL-C11	4-Y25 / 4-Y25 / 38-Y12 / Y8-TIES @ 200C/C / 4-Y25	4-Y25 / 4-Y25 / 38-Y12 / Y8-TIES @ 200C/C / 4-Y25	4-Y20 / 4-Y20 / 38-Y12 / Y8-TIES @ 200C/C / 4-Y20	4-Y20 / 4-Y16 / 38-Y12 / Y8-TIES @ 200C/C / 4-Y20	4-Y16 / 4-Y16 / 38-Y12 / Y8-TIES @ 200C/C / 4-Y16	4-Y12 / 4-Y12 / 38-Y10 / Y8-TIES @ 200C/C / 4-Y12		

COLUMN NO	BASEMENT+ STILT FLOOR	FIRST & SECOND FLOOR	THIRD & FOURTH FLOOR	FIFTH & SIXTH FLOOR	SEVENTH & EIGHT FLOOR	NINETH FLOOR	TIE DETAIL	
							BASEMENT+STILT FLOOR	TYPICAL FLOOR
COL-C12	4-Y20 / Y12-150C/C / Y8-TIES @ 200C/C / 4-Y20	4-Y20 / Y12-150C/C / Y8-TIES @ 200C/C / 4-Y20	4-Y20 / Y12-150C/C / Y8-TIES @ 200C/C / 4-Y20	4-Y16 / Y12-150C/C / Y8-TIES @ 200C/C / 4-Y16	4-Y16 / Y10-150C/C / Y8-TIES @ 200C/C / 4-Y16	4-Y16 / Y10-150C/C / Y8-TIES @ 200C/C / 4-Y16		
COL-C13	42-Y20 / Y8-TIES @ 200C/C	42-Y20 / Y8-TIES @ 200C/C	42-Y20 / 20-Y25+ 22-Y16 / Y8-TIES @ 200C/C	42-Y16 / Y8-TIES @ 200C/C	42-Y16 / 20-Y16+ 22-Y12 / Y8-TIES @ 200C/C	42-Y12 / Y8-TIES @ 200C/C		
COL-C14	16-Y25 / Y8-TIES @ 200C/C	-	-	-	-	-		-
COL-C15	20-Y25 / Y8-TIES @ 200C/C	16-Y25 / Y8-TIES @ 200C/C	6-Y25+8-Y20 / Y8-TIES @ 200C/C	4-Y25+10-Y20 / Y8-TIES @ 200C/C	16-Y20 / Y8-TIES @ 200C/C	4-Y20+10-Y16 / Y8-TIES @ 200C/C		
COL-C16	22-Y20 / Y8-TIES @ 200C/C	22-Y20 / Y8-TIES @ 200C/C	12-Y20+10-Y16 / Y8-TIES @ 200C/C	6-Y20(6)+8-Y16(6)+ 8-Y12(c) / Y8-TIES @ 200C/C	8-Y20+14-Y12 / Y8-TIES @ 200C/C	8-Y16+14-Y12 / Y8-TIES @ 200C/C		
COL-C17	16-Y25 / Y8-TIES @ 200C/C	16-Y25 / Y8-TIES @ 200C/C	8-Y25+8-Y20 / Y8-TIES @ 200C/C	16-Y20 / Y8-TIES @ 200C/C	8-Y20+8-Y16 / Y8-TIES @ 200C/C	16-Y16 / Y8-TIES @ 200C/C		
COL-C18	12-Y20 / Y8-TIES @ 200C/C	12-Y20 / Y8-TIES @ 200C/C	6-Y20+8-Y16 / Y8-TIES @ 200C/C	12-Y16 / Y8-TIES @ 200C/C	8-Y16+8-Y12 / Y8-TIES @ 200C/C	12-Y12 / Y8-TIES @ 200C/C		
COL-C19	16-Y25 / Y8-TIES @ 200C/C	16-Y25 / Y8-TIES @ 200C/C	8-Y25+ 8-Y20 / Y8-TIES @ 200C/C	16-Y20 / Y8-TIES @ 200C/C	8-Y20+ 8-Y16 / Y8-TIES @ 200C/C	16-Y16 / Y8-TIES @ 200C/C		
COL-C20	26-Y25 / Y8-TIES @ 200C/C	26-Y25 / Y8-TIES @ 200C/C	12-Y25+14-Y20 / Y8-TIES @ 200C/C	26-Y20 / Y8-TIES @ 200C/C	12-Y20+14-Y16 / Y8-TIES @ 200C/C	4-Y20(6)+12-Y16(6)+ 10-Y10(c) / Y8-TIES @ 200C/C		
COL-PC	-	8-Y25+4-Y20 / Y8-TIES @ 200C/C	8-Y25+4-Y20 / Y8-TIES @ 200C/C	8-Y25+4-Y20 / Y8-TIES @ 200C/C	8-Y25+4-Y20 / Y8-TIES @ 200C/C	8-Y25+4-Y20 / Y8-TIES @ 200C/C	-	

Notes: –

1. This drawing should be read along with architectural drawings.
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11. Not more than 40% of Reinforcement shall be Lapped at any particular junction.
12. Cantilever props should not be released until the roof is concreted.
13. Foundation is designed for B+G+9 upper floor only.
14. For Earthquake analysis Zone III is taken as per IS : 1893–2016 code.
15. Removal of formworks :
    i) For Slabs :
    a. Slabs spanning upto 4.5 m (15'–0") – 7 days
    b. Slabs spanning over 4.5 m (15'–0") – 14 days
    ii) For Beams and Arches :
    c. Beams and Arches spanning upto 6 m (20'–0") –14days
    d. Beams and Arches spanning over 6 m (20'–0") –21days

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT NARAYANAPURAM, MADURAI.

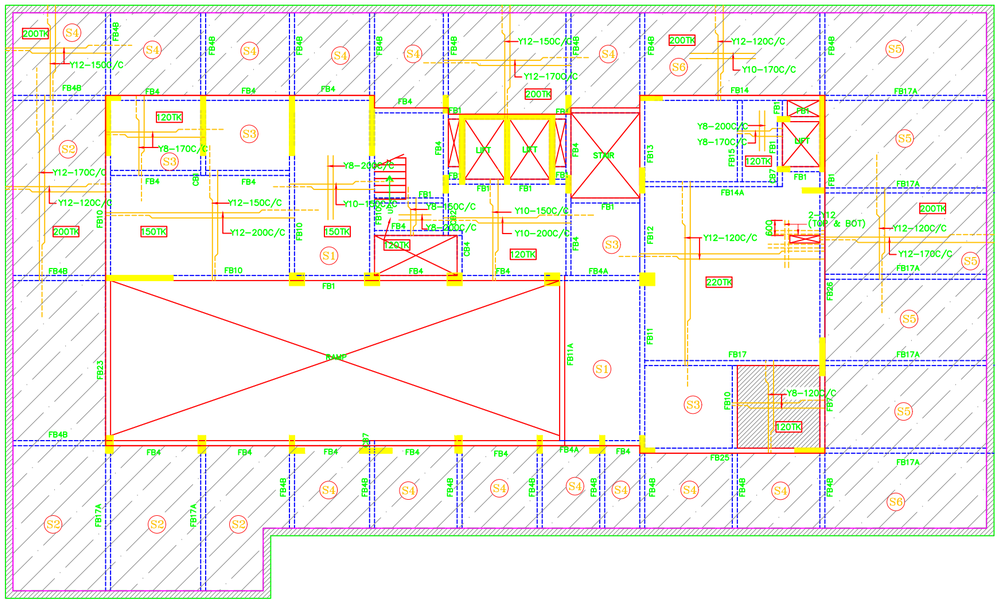
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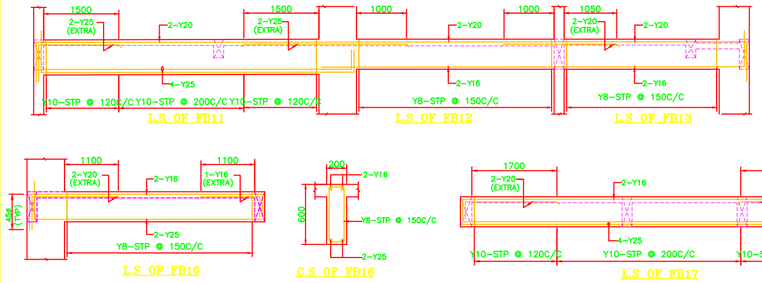
DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	MAHALINGAM BALAJI		DATE	28-03-2024

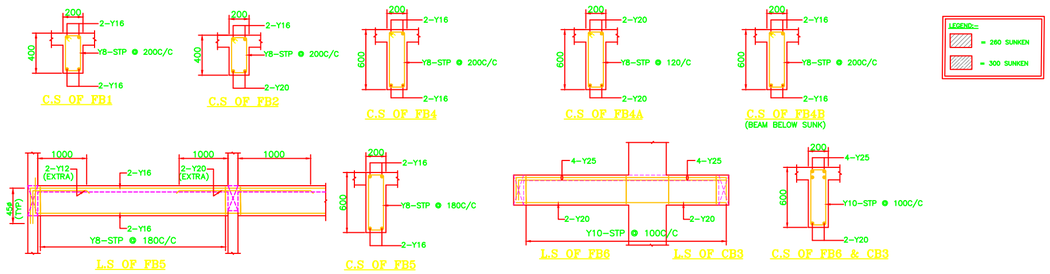
STRUCTURAL CONSULTANTS:

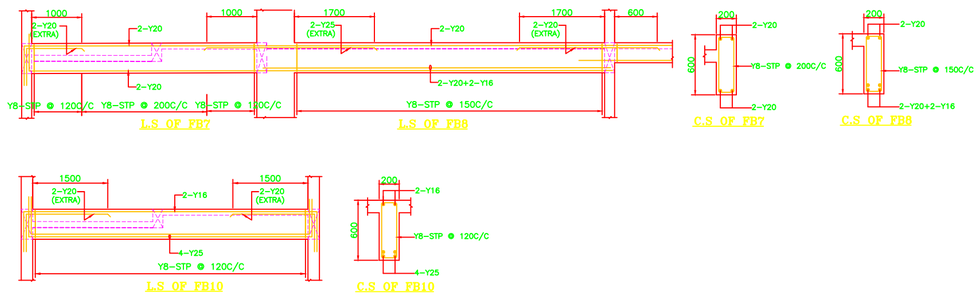
C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:257–W,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI–20.
MOBILE NO: 098412 49815.
E–MAIL:kannankds2007@gmail.com

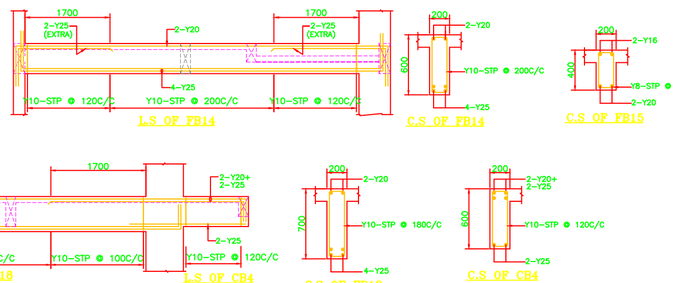
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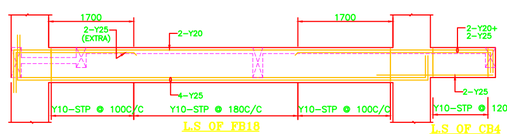


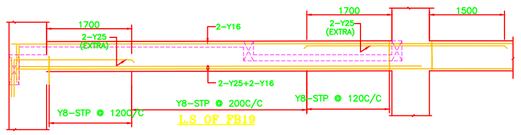


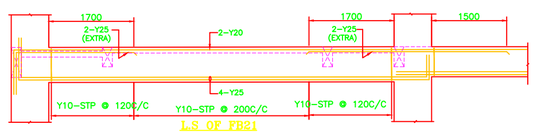


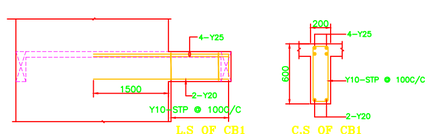


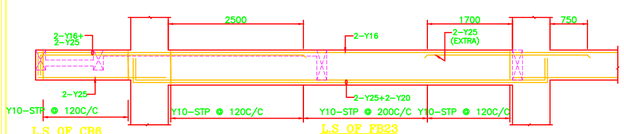


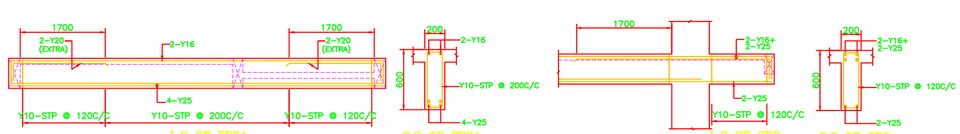


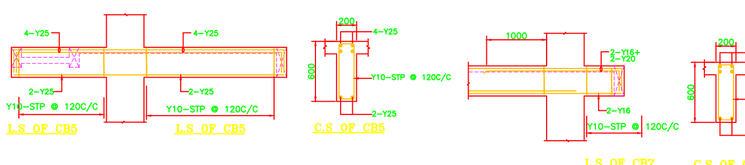


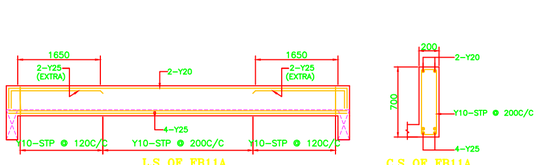


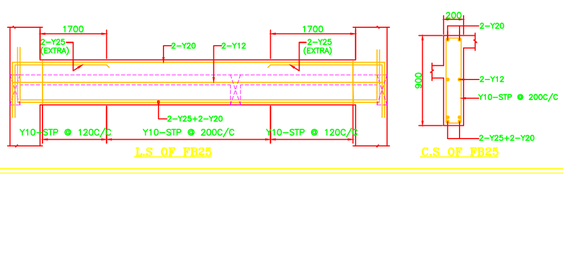


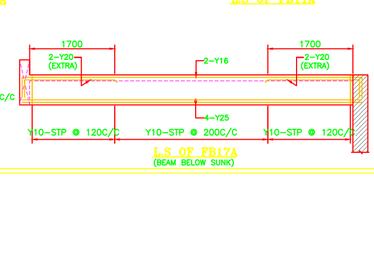


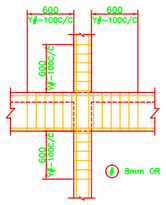












TYP. SEC. FOR STP. DETAILS

Notes:-

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14. For Earthquake analysis Zone III is taken as per IS : 1893–2016 code.
15. Removal of formworks :
    i) For Slabs :
    a. Slabs spanning upto 4.5 m (15'-0") – 7 days
    b. Slabs spanning over 4.5 m (15'-0") – 14 days
    ii) For Beams and Arches :
    c. Beams and Arches spanning upto 6 m (20'-0") –14days
    d. Beams and Arches spanning over 6 m (20'-0") –21days

ADVANCE COPY

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT NARAYANAPURAM, MADURAI.

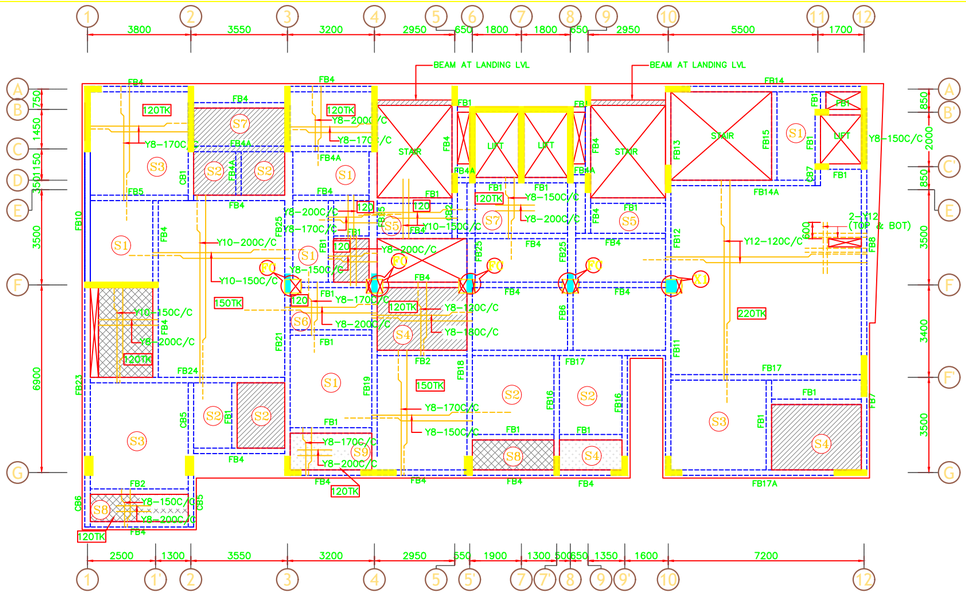
BASEMENT ROOF DETAILS

DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	MAHALINGAM		DATE	30-01-2024

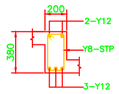
STRUCTURAL CONSULTANTS:

C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:257–W,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
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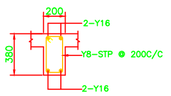
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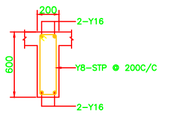




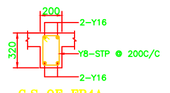
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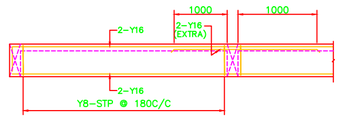
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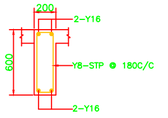
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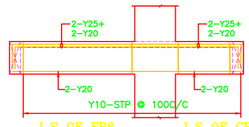
C.S OF FB4A
(BELOW SUNKEN)



L.S OF FB5

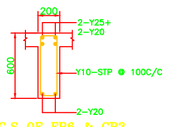


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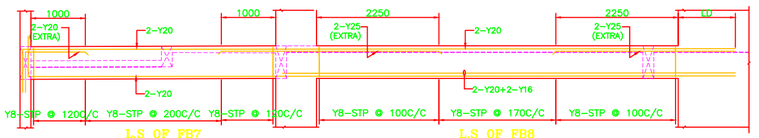


L.S OF FB6

L.S OF CB3

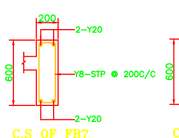


C.S OF FB6 & CB3

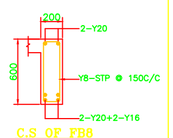


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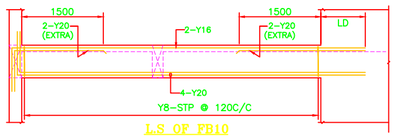
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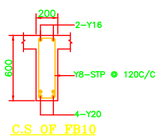
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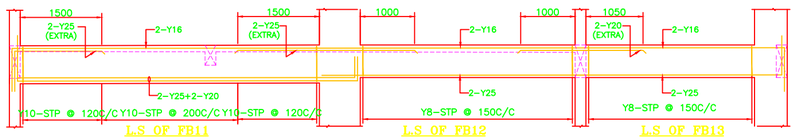
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L.S OF FB10



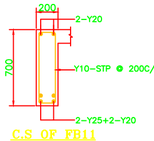
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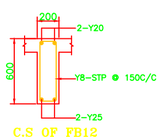
L.S OF FB11

L.S OF FB12

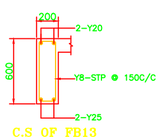
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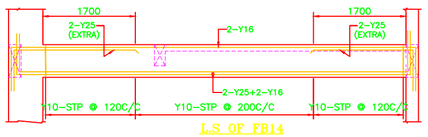
C.S OF FB11



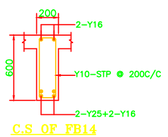
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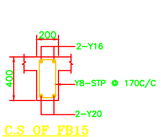
C.S OF FB13



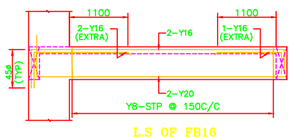
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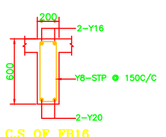
C.S OF FB14



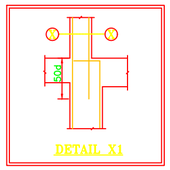
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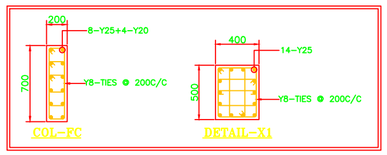
L.S OF FB16



C.S OF FB16



DETAIL X1



COL-FC

DETAIL-X1

L.S OF FB17

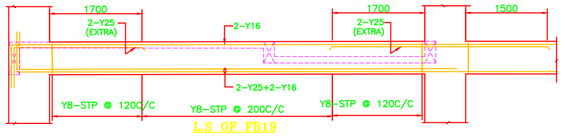
C.S OF FB17

L.S OF FB18

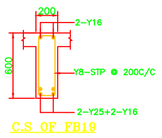
L.S OF CB4

C.S OF FB18

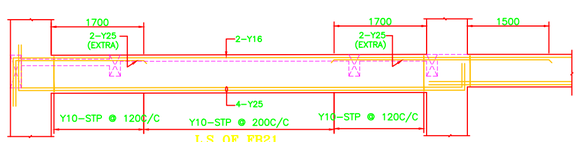
C.S OF CB4



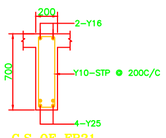
L.S OF FB19



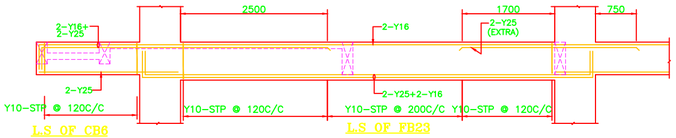
C.S OF FB19



L.S OF FB21

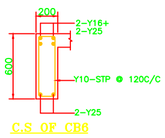


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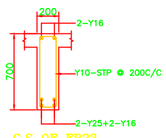


L.S OF CB6

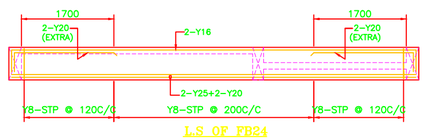
L.S OF FB23



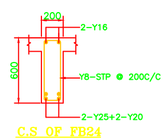
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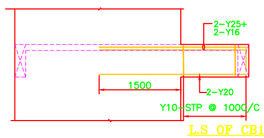
C.S OF FB23



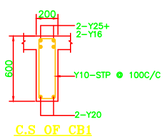
L.S OF FB24



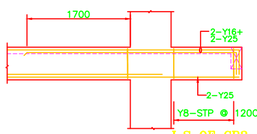
C.S OF FB24



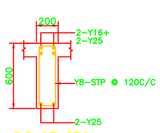
L.S OF CB1



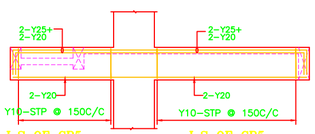
C.S OF CB1



L.S OF CB2



C.S OF CB2



L.S OF CB5

L.S OF CB5

C.S OF CB5

L.S OF CB7

C.S OF CB7

L.S OF FB14A

C.S OF FB14A

L.S OF FB25

C.S OF FB25

C.S OF FB4A

L.S OF FB17A

C.S OF FB17A

TYP. SEC. FOR
STP. DETAILS

Notes:-

1. This drawing should be read along with architectural drawings.
2. Grade of R.C.C. items shall be M40 for column & M25 for all other R.C.C works
3. Y Denotes TOR50 Steel confirming to I.S. 1786 – 1985. Grade – Fe 500
4. Clear cover to the main steel
   50 for Footings , Raft Slabs & Raft Beams.
   40 for Columns.
   25 for Lintel & Beams.
   15 for Sunshade & Slab.
5. Lap length shall be 50 d (Max. dia) for all bars.
6. —— Bottom Reinforcement
7. ------ Top Reinforcement
8. Provide Continuous Chairs to keep the top Reinforcement in position
9. Provide Y 8 at 200 as Distribution steel for all top Reinforcement.
10. Spacer Bar to be Provided in Between Two Layers Of Reinforcement of Same Dia at Every 1000 C/ C.
11. Not more than 40% of Reinforcement shall be Lapped at any particular junction.
12. Cantilever props should not be released until the roof is concreted.
13. Foundation is designed for B+G+9 upper floor only.
14. For Earthquake analysis Zone III is taken as per IS : 1893-2016 code.
15. Removal of formworks :
    i) For Slabs :
    a. Slabs spanning upto 4.5 m (15'-0") – 7 days
    b. Slabs spanning over 4.5 m (15'-0") – 14 days
    ii) For Beams and Arches :
    c. Beams and Arches spanning upto 6 m (20'-0") –14days
    d. Beams and Arches spanning over 6 m (20'-0") –21days

ADVANCE COPY

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT NARAYANAPURAM, MADURAI.

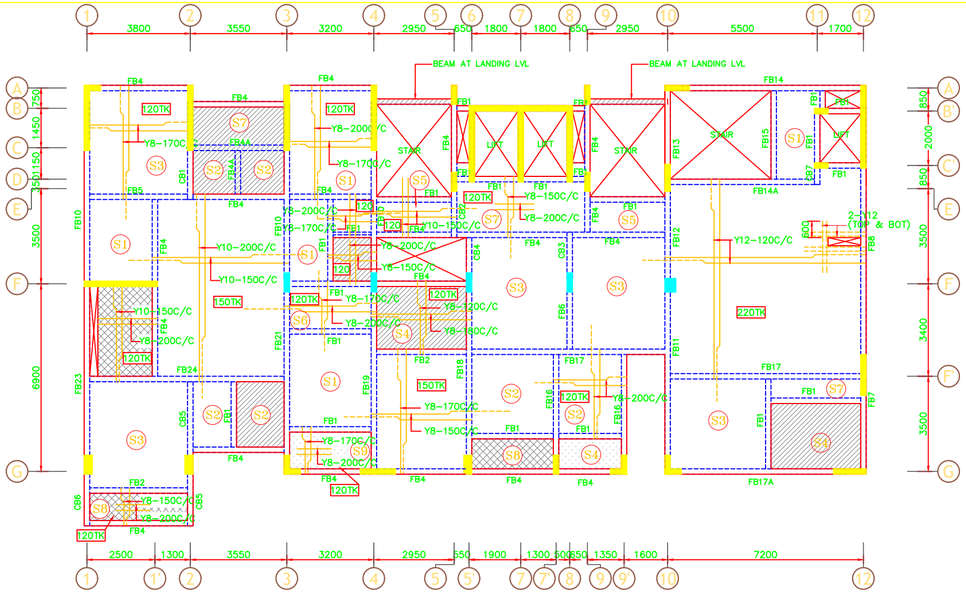
STILT FLOOR ROOF DETAILS

DESIGNED	KANNAN	SCALE	1 : 100
DRAWN	MAHALINGAM BALAJI	DATE	28-03-2024

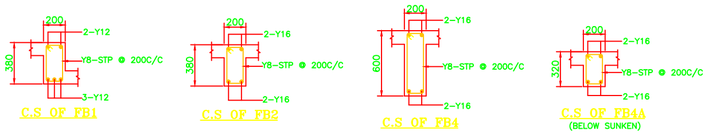
STRUCTURAL CONSULTANTS:

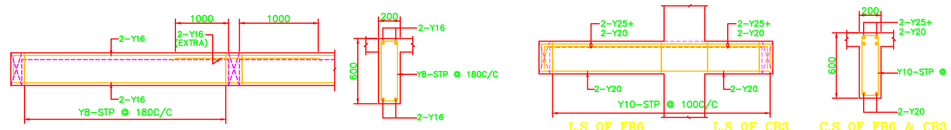
C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:257-W,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI-20.
MOBILE NO: 098412 49815.
E-MAIL:kannanks2007@gmail.com

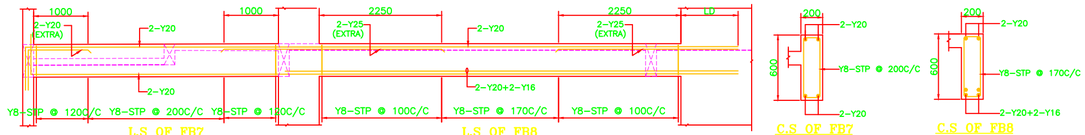
FILE NAME : D/MAHALINGAM/UMAIZENARAYANAPURAM MADURAI

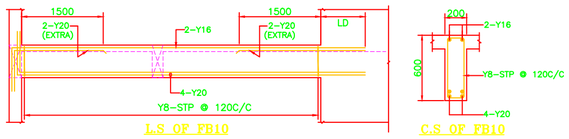


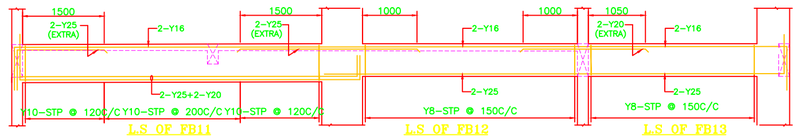


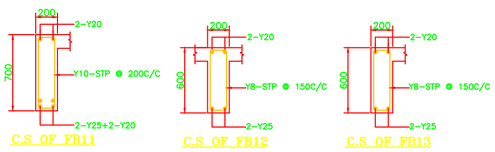


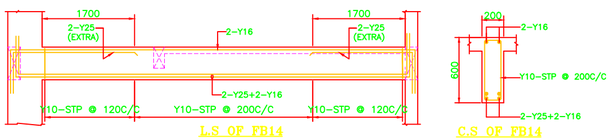


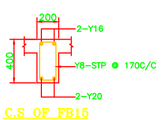


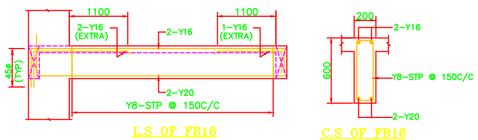


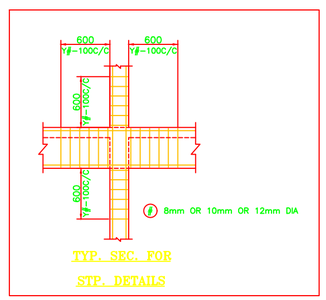


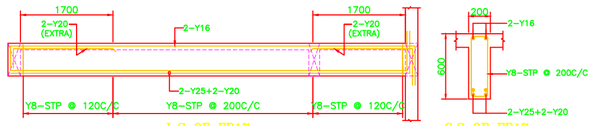


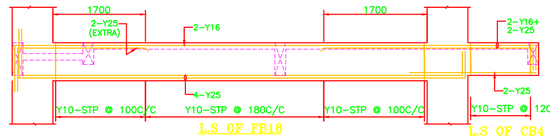


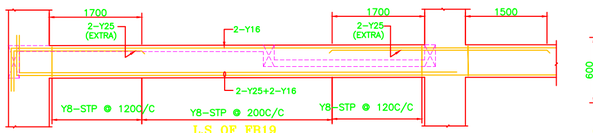


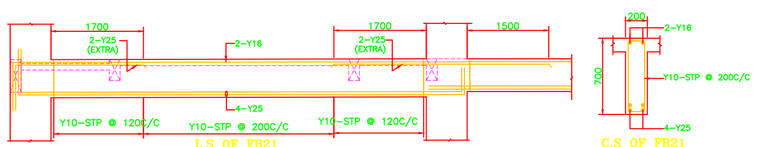


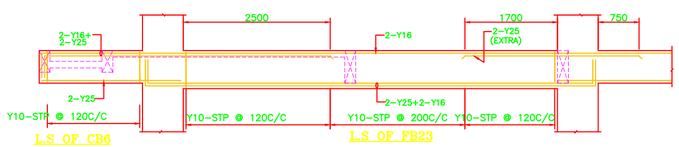


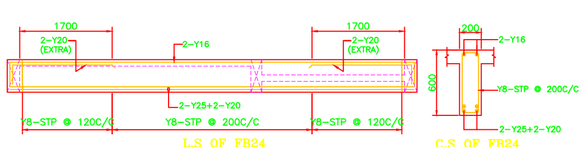


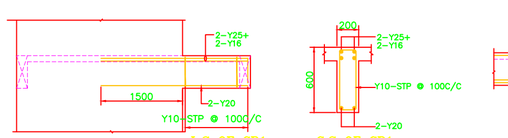


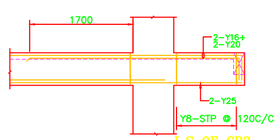


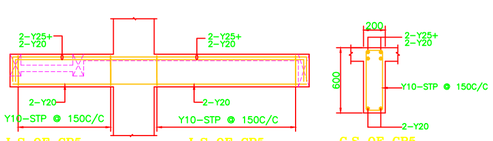


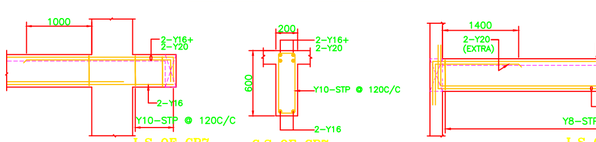


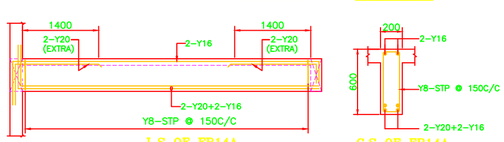


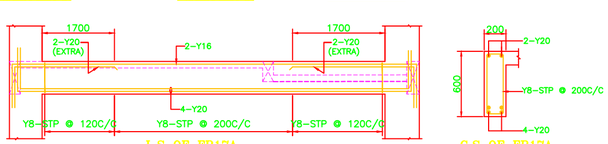












Notes:-

1. This drawing should be read along with architectural drawings.
2. Grade of R.C.C. items shall be M40 for column & M25 for all other R.C.C works
3. Y Denotes TOR50 Steel confirming to I.S. 1786 – 1985. Grade – Fe 500
4. Clear cover to the main steel
   50 for Footings , Raft Slabs & Raft Beams.
   40 for Columns.
   25 for Lintel & Beams.
   15 for Sunshade & Slab.
5. Lap length shall be 50 d (Max. dia) for all bars.
6. —— Bottom Reinforcement
7. ------ Top Reinforcement
8. Provide Continuous Chairs to keep the top Reinforcement in position
9. Provide Y 8 at 200 as Distribution steel for all top Reinforcement.
10. Spacer Bar to be Provided in Between Two Layers Of Reinforcement of Same Dia at Every 1000 C/ C.
11. Not more than 40% of Reinforcement shall be Lapped at any particular junction.
12. Cantilever props should not be released until the roof is concreted.
13. Foundation is designed for B+G+9 upper floor only.
14. For Earthquake analysis Zone III is taken as per IS : 1893–2016 code.
15. Removal of formworks :
    i) For Slabs :
    a. Slabs spanning upto 4.5 m (15'–0") – 7 days
    b. Slabs spanning over 4.5 m (15'–0") – 14 days
    ii) For Beams and Arches :
    c. Beams and Arches spanning upto 6 m (20'–0") –14days
    d. Beams and Arches spanning over 6 m (20'–0") –21days

ADVANCE COPY

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT NARAYANAPURAM, MADURAI.

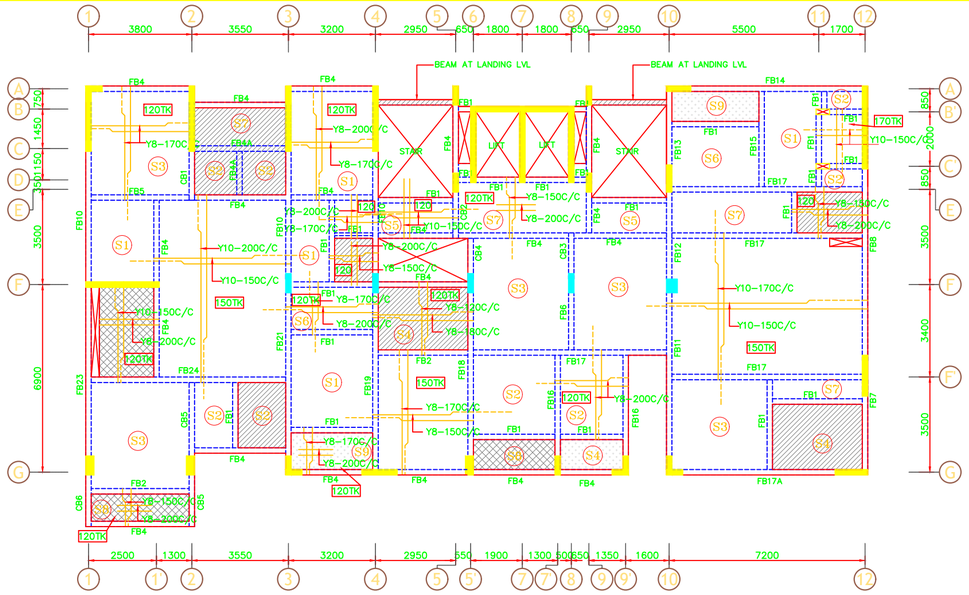
FIRST & SECOND FLOOR ROOF DETAILS

DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	MAHALINGAM BALAJI		DATE	28-03-2024

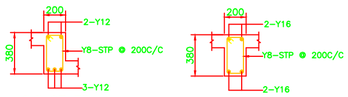
STRUCTURAL CONSULTANTS:

C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:257–W,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI–20.
MOBILE NO: 098412 49815.
E–MAIL:kannankds2007@gmail.com

FILE NAME : D/MAHALINGAM/UMAIZENARAYANAPURAM MADURAI

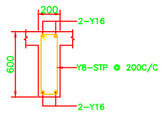


LEGEND:-
= 260 SUNKEN
= 75 SUNKEN
= 150 SUNKEN

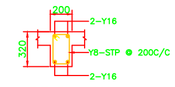


C.S OF FB1

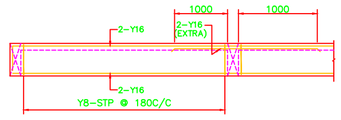
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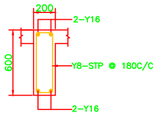
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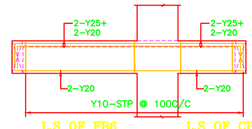
C.S OF FB4A
(BELOW SUNKEN)



L.S OF FB5

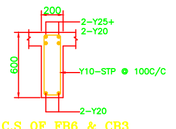


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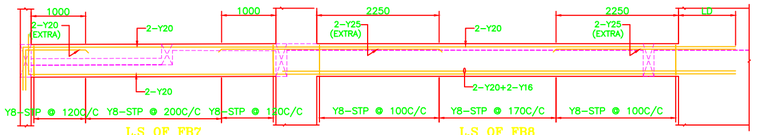


L.S OF FB6

L.S OF CB3

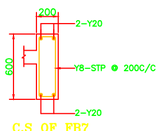


C.S OF FB6 & CB3

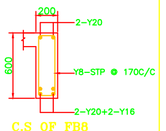


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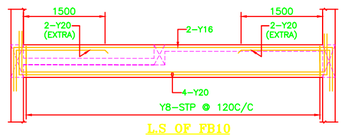
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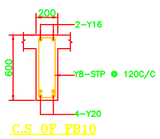
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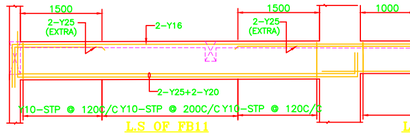
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L.S OF FB10



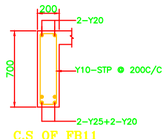
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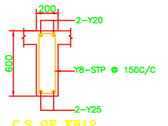
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L.S OF FB12

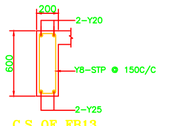
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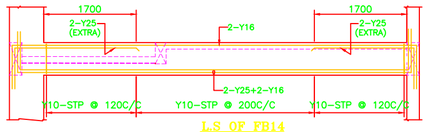
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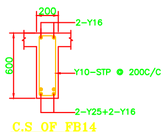
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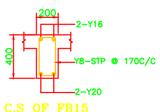
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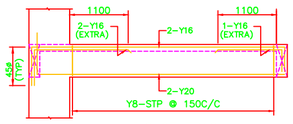
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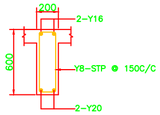
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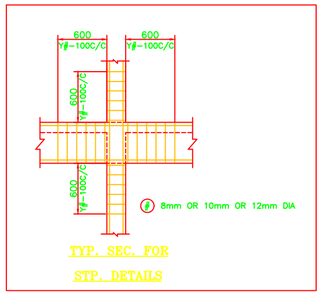
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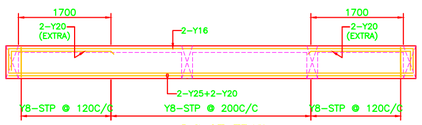
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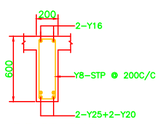
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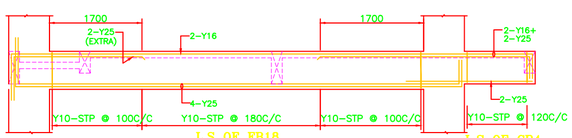
TYP. SEC. FOR
STP. DETAILS



L.S OF FB17

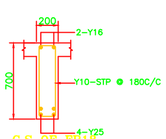


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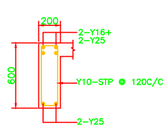


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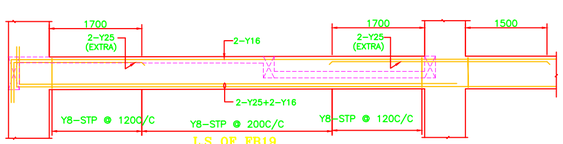
L.S OF CB4



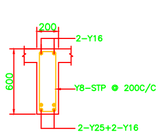
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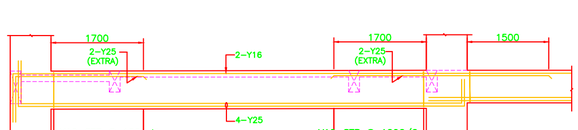
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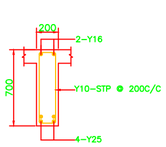
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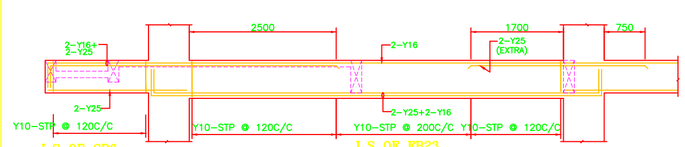
C.S OF FB19



L.S OF FB21

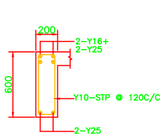


C.S OF FB21

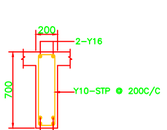


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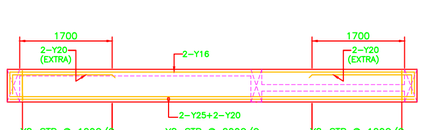
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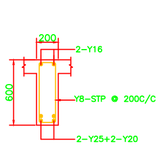
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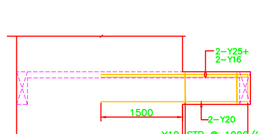
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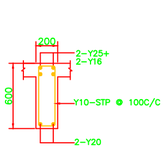
L.S OF FB24



C.S OF FB24



L.S OF CB1



C.S OF CB1

L.S OF CB2

C.S OF CB2

L.S OF CB5

C.S OF CB5

L.S OF FB17A

C.S OF FB17A

Notes:-

1. This drawing should be read along with architectural drawings.
2. Grade of R.C.C. items shall be M40 for column & M25 for all other R.C.C works
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4. Clear cover to the main steel
   50 for Footings , Raft Slabs & Raft Beams.
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   25 for Lintel & Beams.
   15 for Sunshade & Slab.
5. Lap length shall be 50 d (Max. dia) for all bars.
6. —— Bottom Reinforcement
7. ------ Top Reinforcement
8. Provide Continuous Chairs to keep the top Reinforcement in position
9. Provide Y 8 at 200 as Distribution steel for all top Reinforcement.
10. Spacer Bar to be Provided in Between Two Layers Of Reinforcement of Same Dia at Every 1000 C/ C.
11. Not more than 40% of Reinforcement shall be Lapped at any particular junction.
12. Cantilever props should not be released until the roof is concreted.
13. Foundation is designed for B+G+9 upper floor only.
14. For Earthquake analysis Zone III is taken as per IS : 1893-2016 code.
15. Removal of formworks :
    i) For Slabs :
    a. Slabs spanning upto 4.5 m (15'-0") – 7 days
    b. Slabs spanning over 4.5 m (15'-0") – 14 days
    ii) For Beams and Arches :
    c. Beams and Arches spanning upto 6 m (20'-0") –14days
    d. Beams and Arches spanning over 6 m (20'-0") –21days

ADVANCE COPY

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT NARAYANAPURAM, MADURAI.

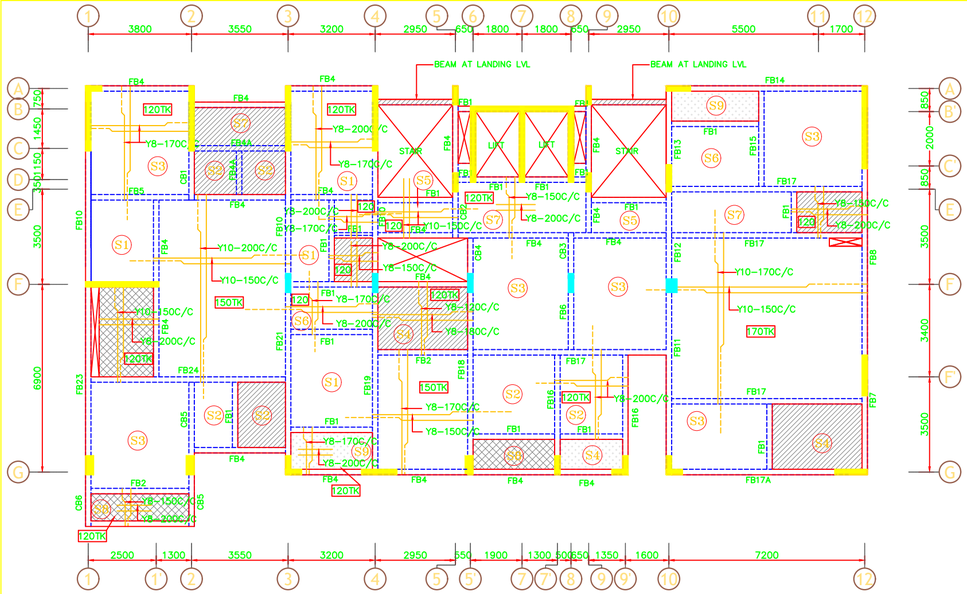
THIRD FLOOR ROOF DETAILS

DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	MAHALINGAM BALAJI		DATE	28-03-2024

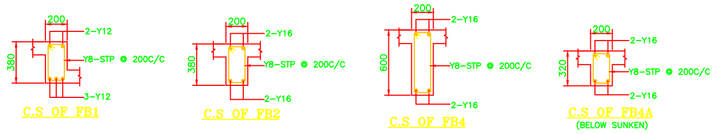
STRUCTURAL CONSULTANTS:

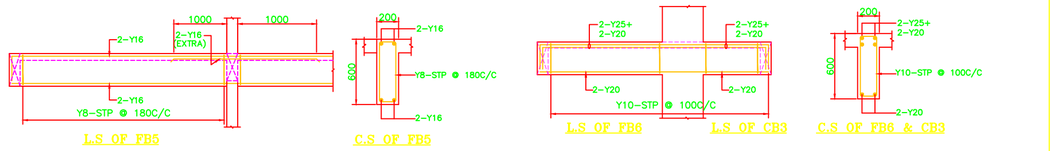
C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:257-W,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI-20.
MOBILE NO: 098412 49815.
E-MAIL:kannankds2007@gmail.com

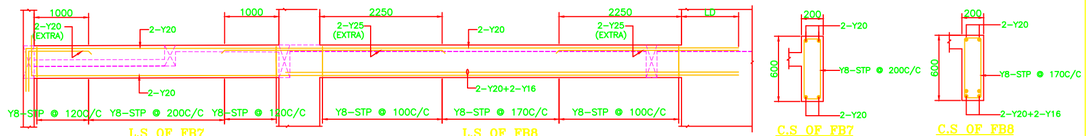
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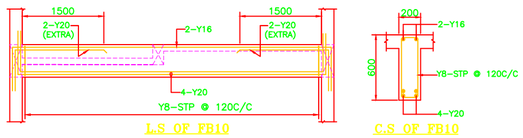


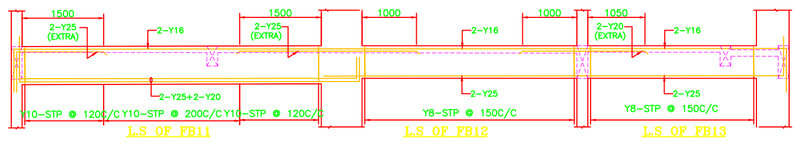


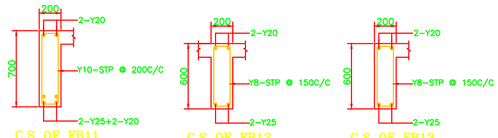


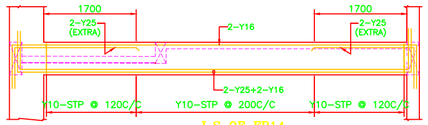


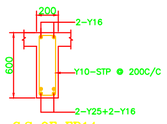


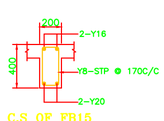


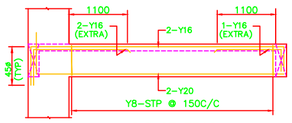


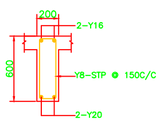


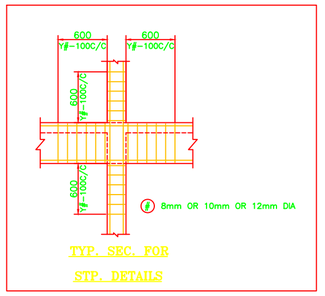


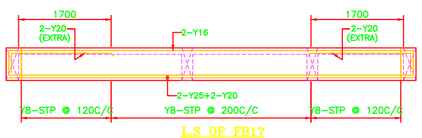


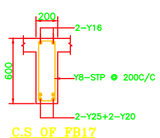


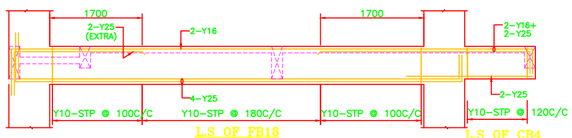


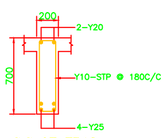


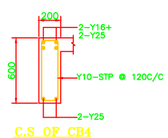


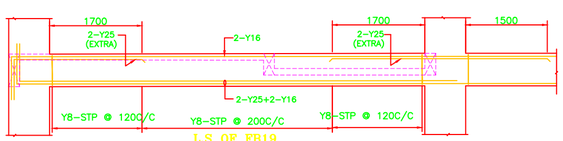


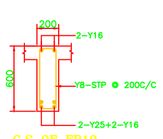


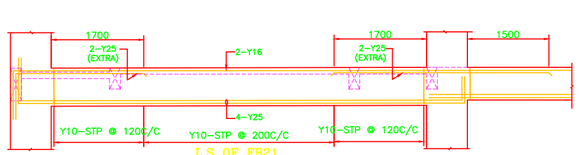


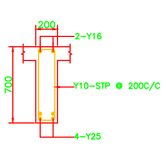


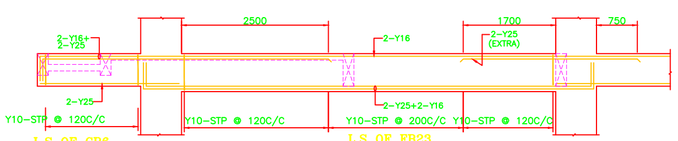


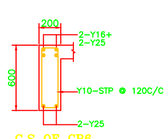


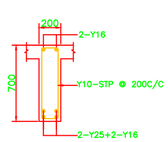


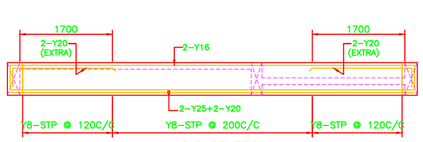


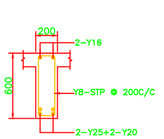


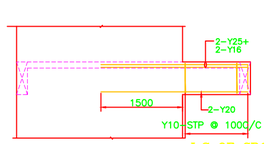


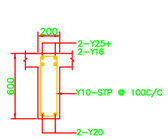


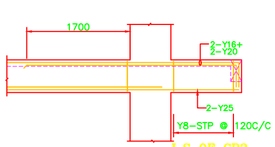


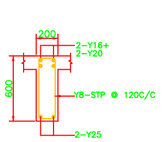


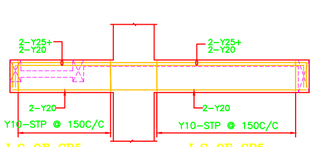


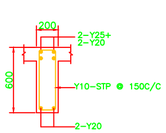


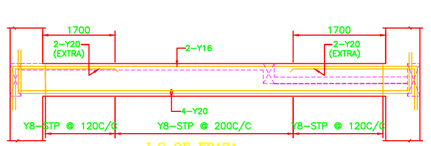


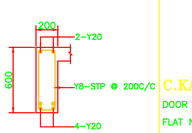












Notes:-

1. This drawing should be read along with architectural drawings.
2. Grade of R.C.C. items shall be M40 for column & M25 for all other R.C.C works
3. Y Denotes TOR50 Steel confirming to I.S. 1786 – 1985. Grade – Fe 500
4. Clear cover to the main steel
   50 for Footings , Raft Slabs & Raft Beams.
   40 for Columns.
   25 for Lintel & Beams.
   15 for Sunshade & Slab.
5. Lap length shall be 50 d (Max. dia) for all bars.
6. —— Bottom Reinforcement
7. - - - - - Top Reinforcement
8. Provide Continuous Chairs to keep the top Reinforcement in position
9. Provide Y 8 at 200 as Distribution steel for all top Reinforcement.
10. Spacer Bar to be Provided in Between Two Layers Of Reinforcement of Same Dia at Every 1000 C/ C.
11. Not more than 40% of Reinforcement shall be Lapped at any particular junction.
12. Cantilever props should not be released until the roof is concreted.
13. Foundation is designed for B+G+9 upper floor only.
14. For Earthquake analysis Zone III is taken as per IS : 1893–2016 code.
15. Removal of formworks :
    i) For Slabs :
    a. Slabs spanning upto 4.5 m (15'–0") – 7 days
    b. Slabs spanning over 4.5 m (15'–0") – 14 days
    ii) For Beams and Arches :
    c. Beams and Arches spanning upto 6 m (20'–0") –14days
    d. Beams and Arches spanning over 6 m (20'–0") –21days

ADVANCE COPY

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT NARAYANAPURAM, MADURAI.

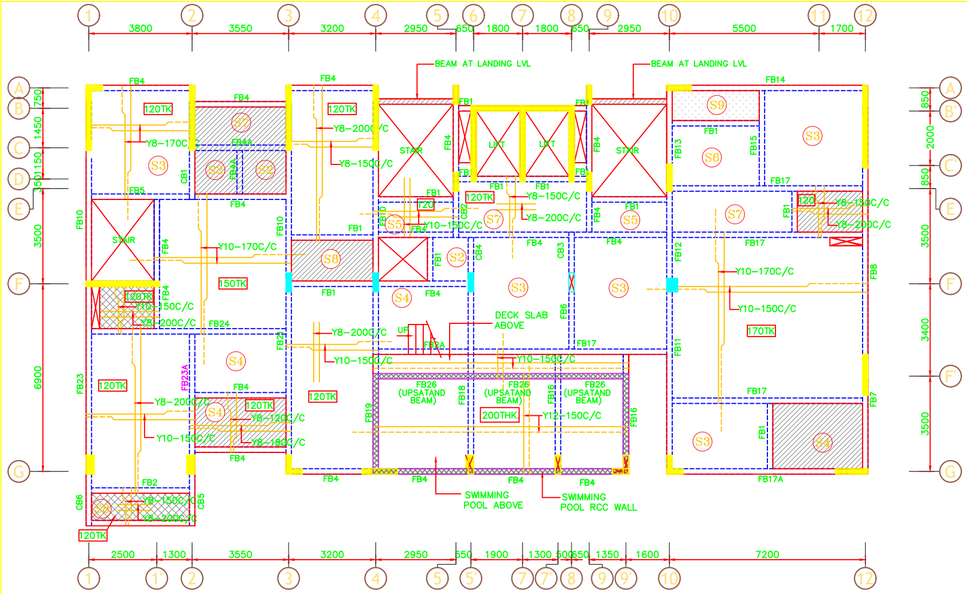
TYPICAL FLOOR ROOF DETAILS

DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	MAHALINGAM BALAJI		DATE	28-03-2024

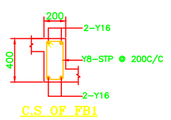
STRUCTURAL CONSULTANTS:

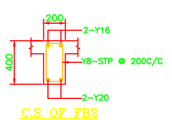
C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:257–W,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI–20.
MOBILE NO: 098412 49815.
E–MAIL:kannankds2007@gmail.com

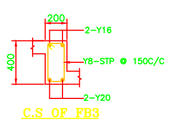
FILE NAME : D/MAHALINGAM/UMAIZENARAYANAPURAM MADURAI

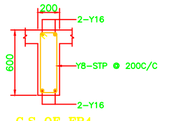


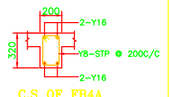


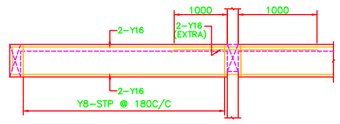


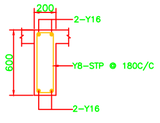


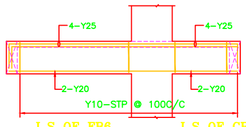


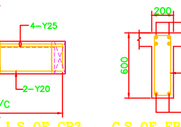


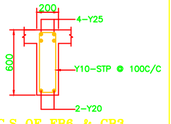


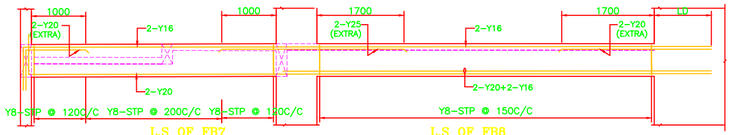


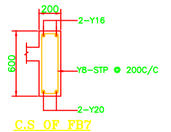


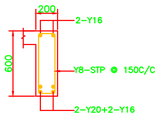


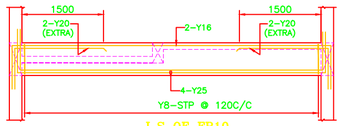


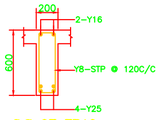


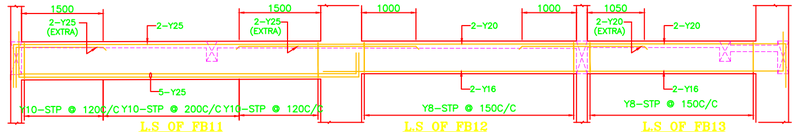


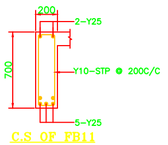


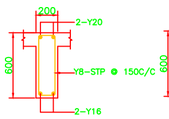


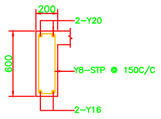


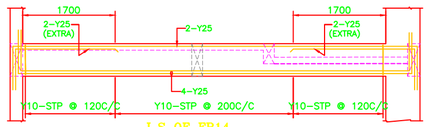


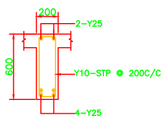


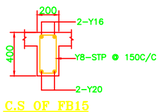


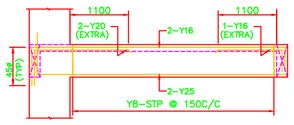


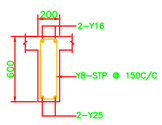


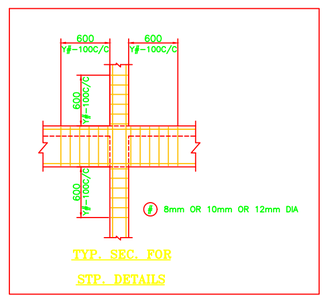


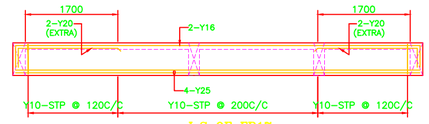


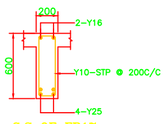


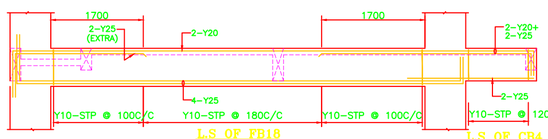


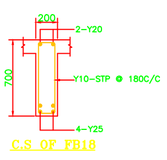


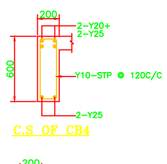


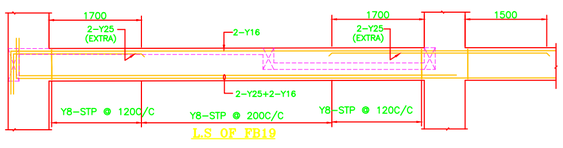


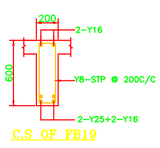


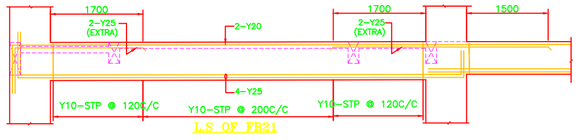


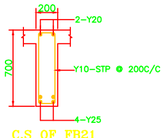


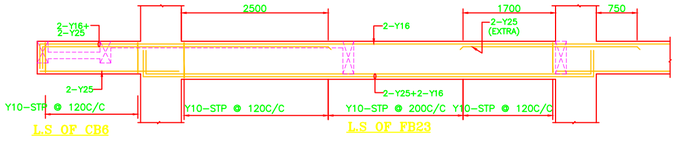


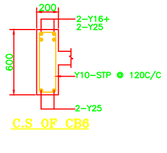


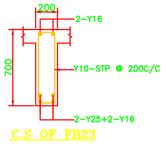












Notes:-

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ADVANCE COPY

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT NARAYANAPURAM, MADURAI.

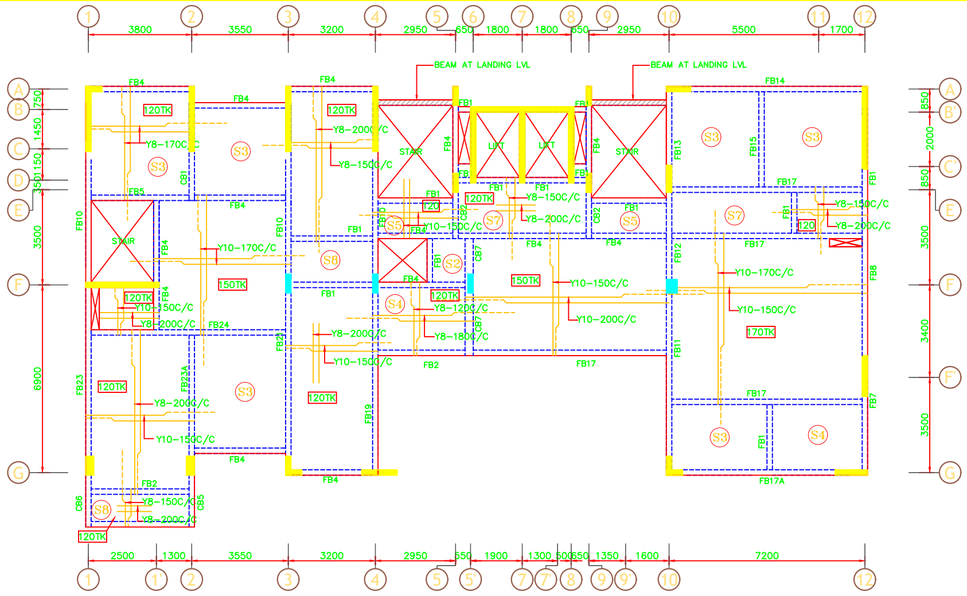
EIGHTH FLOOR ROOF DETAILS

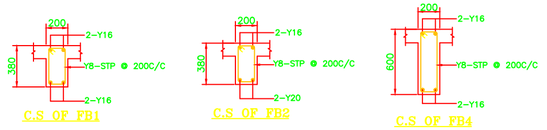
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DRAWN	MAHALINGAM BALAJI		DATE	28-03-2024

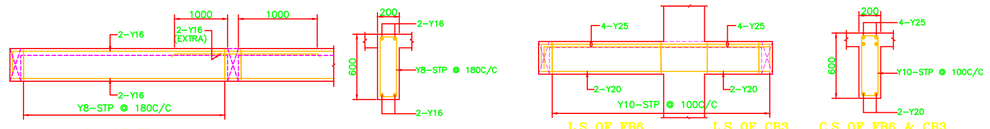
STRUCTURAL CONSULTANTS:

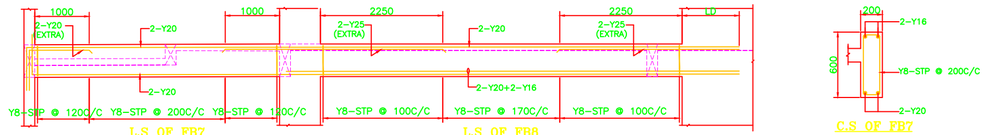
C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:257–W,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI–20.
MOBILE NO: 098412 49815.
E–MAIL:kannanks2007@gmail.com

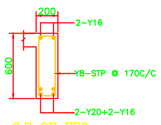
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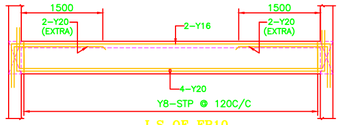


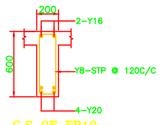


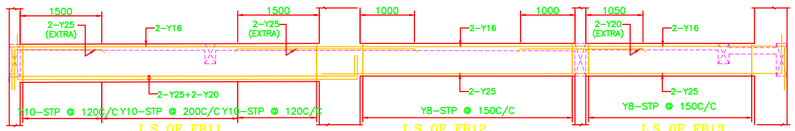


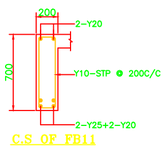


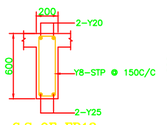


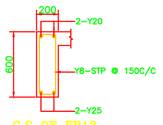


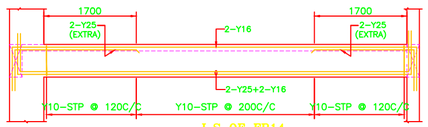


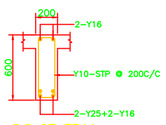


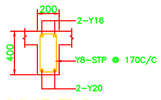


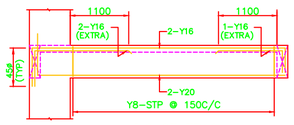


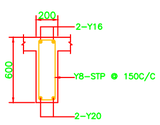


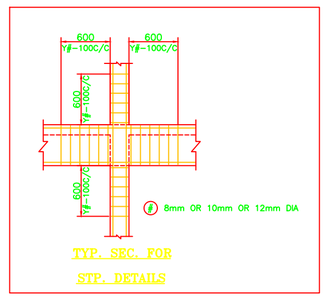


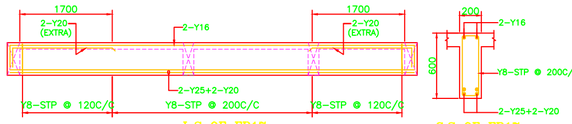


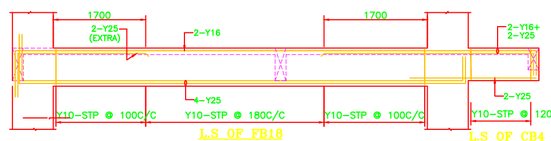


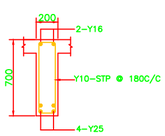


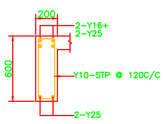


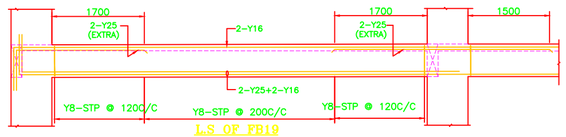


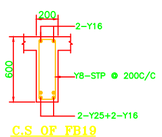


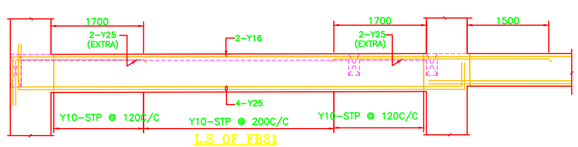


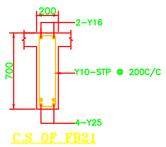


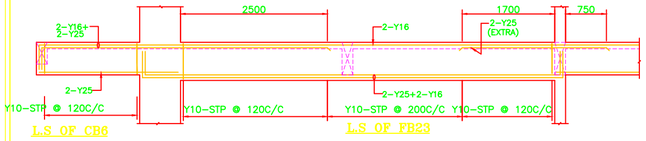


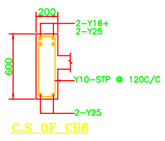


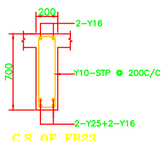


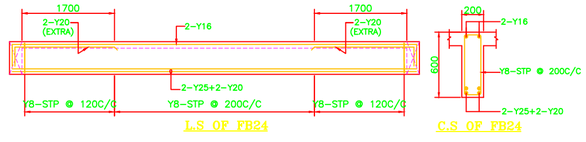


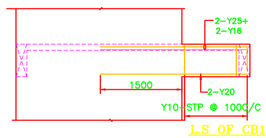


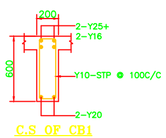


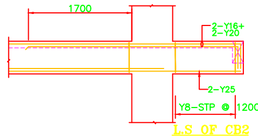


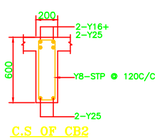


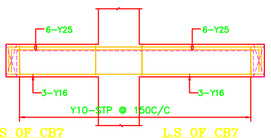


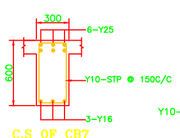


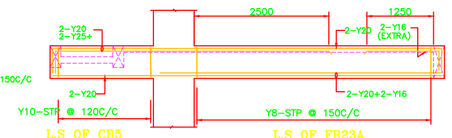


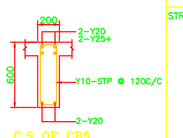


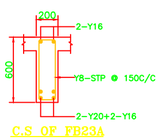












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ADVANCE COPY

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT NARAYANAPURAM, MADURAI.

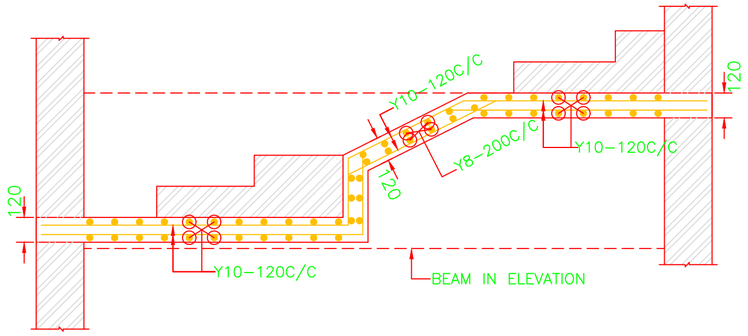
NINTH FLOOR ROOF DETAILS

DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	MAHALINGAM BALAJI		DATE	28-03-2024

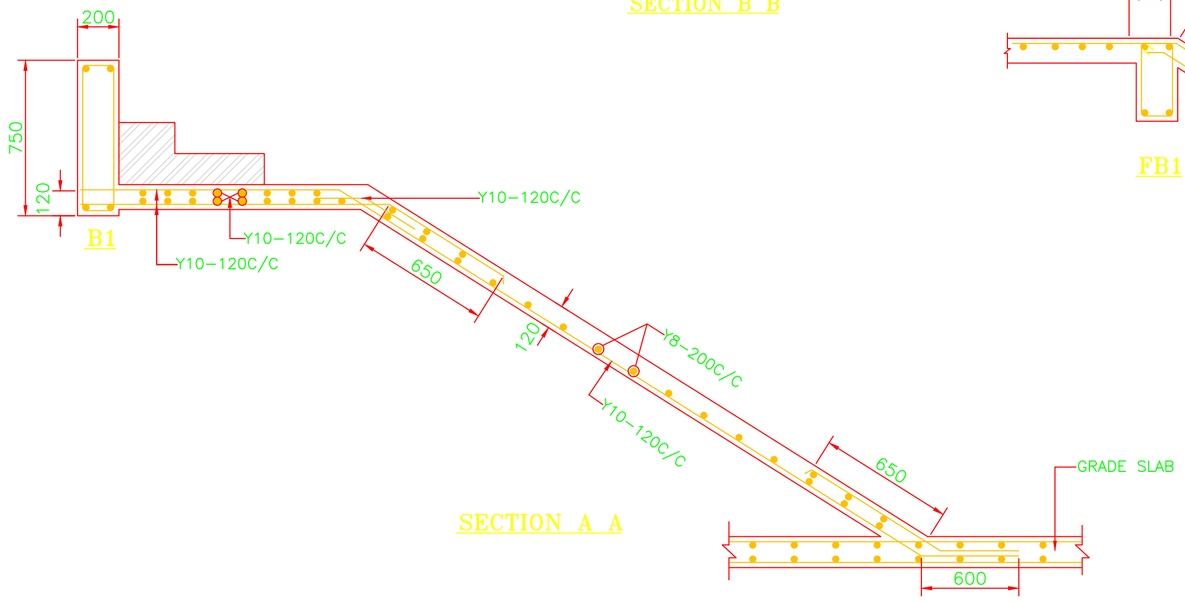
STRUCTURAL CONSULTANTS:

C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:257–W,
FLAT NO:2B, "UTOPIA APARTMENTS",
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MOBILE NO: 098412 49815.
E–MAIL:kannankds2007@gmail.com

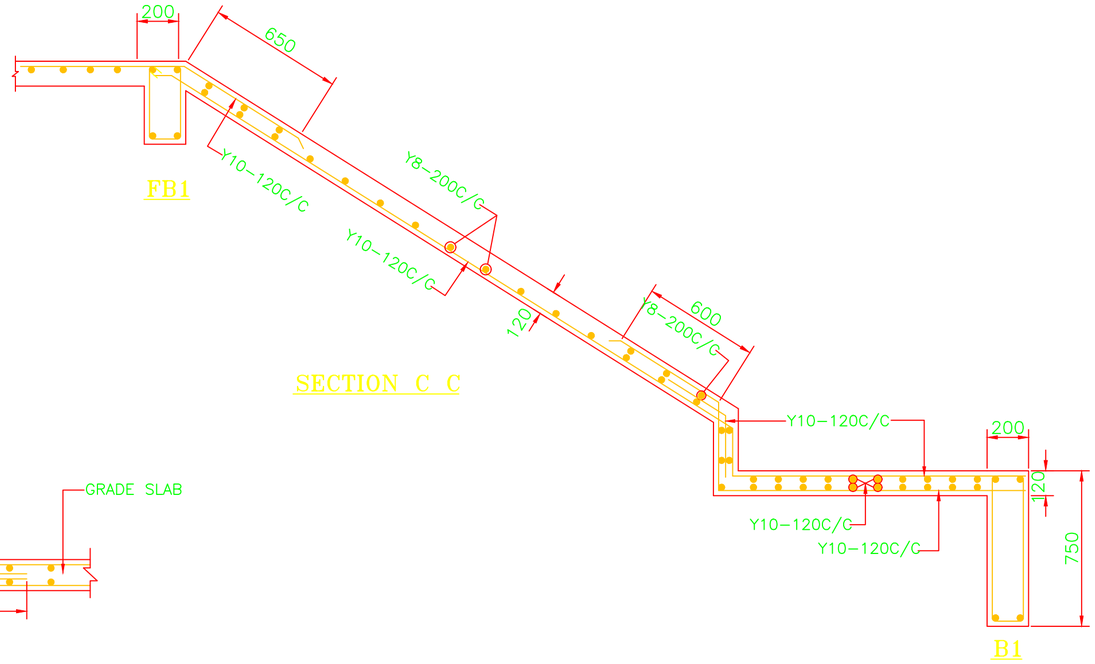
FILE NAME : D/MAHALINGAM/UMAIZENARAYANAPURAM MADURAI



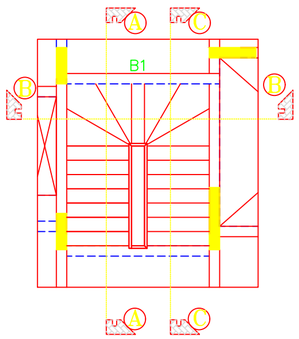
SECTION B B



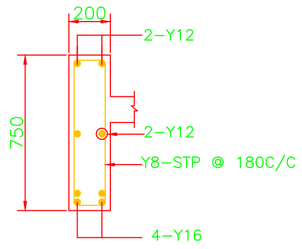
SECTION A A



SECTION C C



BASEMENT TO STILT FLOOR
STAIRCASE LAYOUT



C.S OF FB1

Notes:-

1. This drawing should be read along with architectural drawings.
2. Grade of R.C.C. Items shall be M40 for column & M25 for all other R.C.C works
3. Y Denotes TOR50 Steel confirming to I.S. 1786 – 1985. Grade – Fe 500
4. Clear cover to the main steel
   50 for Footings , Raft Slabs & Raft Beams.
   40 for Columns.
   25 for Lintel & Beams.
   15 for Sunshade & Slab.
5. Lap length shall be 50 d (Max. dia) for all bars.
6. —— Bottom Reinforcement
7. – – – Top Reinforcement
8. Provide Continuous Chairs to keep the top Reinforcement in position
9. Provide Y 8 at 200 as Distribution steel for all top Reinforcement.
10. Spacer Bar to be Provided in Between Two Layers Of Reinforcement of Same Dia at Every 1000 C/ C.
11. Not more than 40% of Reinforcement shall be Lapped at any particular junction.
12. Cantilever props should not be released until the roof is concreted.
13. Foundation is designed for B+G+9 upper floor only.
14. For Earthquake analysis Zone III is taken as per IS : 1893-2016 code.
15. Removal of formworks :
    i) For Slabs :
    a. Slabs spanning upto 4.5 m (15'-0") – 7 days
    b. Slabs spanning over 4.5 m (15'-0") – 14 days
    ii) For Beams and Arches :
    c. Beams and Arches spanning upto 6 m (20'-0") –14days
    d. Beams and Arches spanning over 6 m (20'-0") –21days

ADVANCE COPY

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT NARAYANAPURAM, MADURAI.

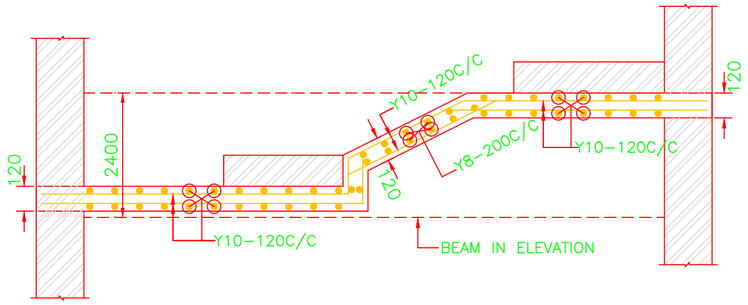
BASEMENT TO STILT FLOOR STAIRCASE LAYOUT

DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	BALAJI		DATE	28-03-2024

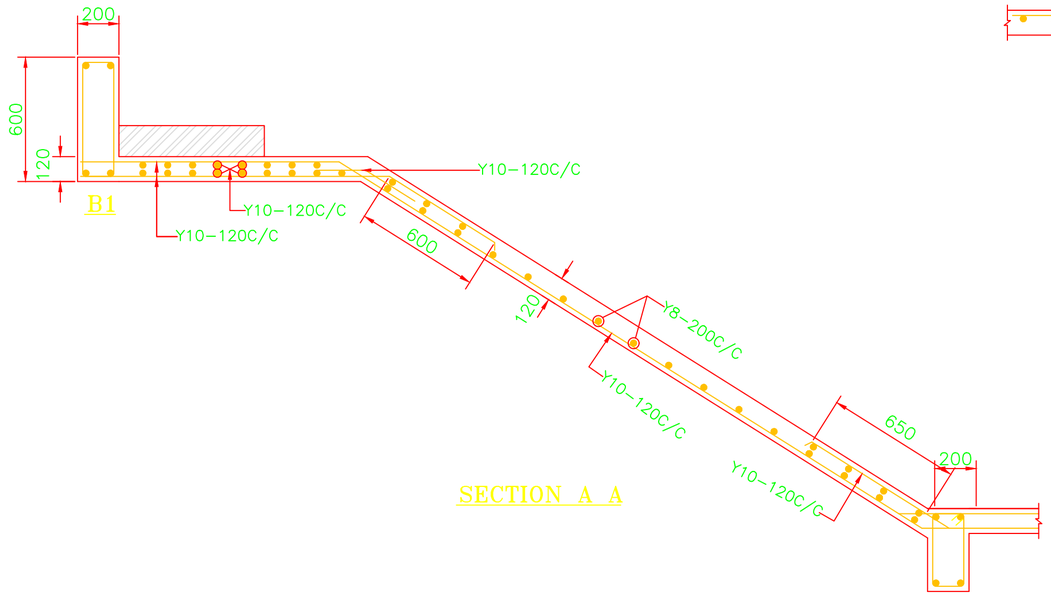
STRUCTURAL CONSULTANTS:

C.KANNAN B.E., M.E(STRUCTURE)
DOOR NO:21, PLOT NO:257-W,
FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI-20.
MOBILE NO: 098412 49815.
E-MAIL:kannankds2007@gmail.com

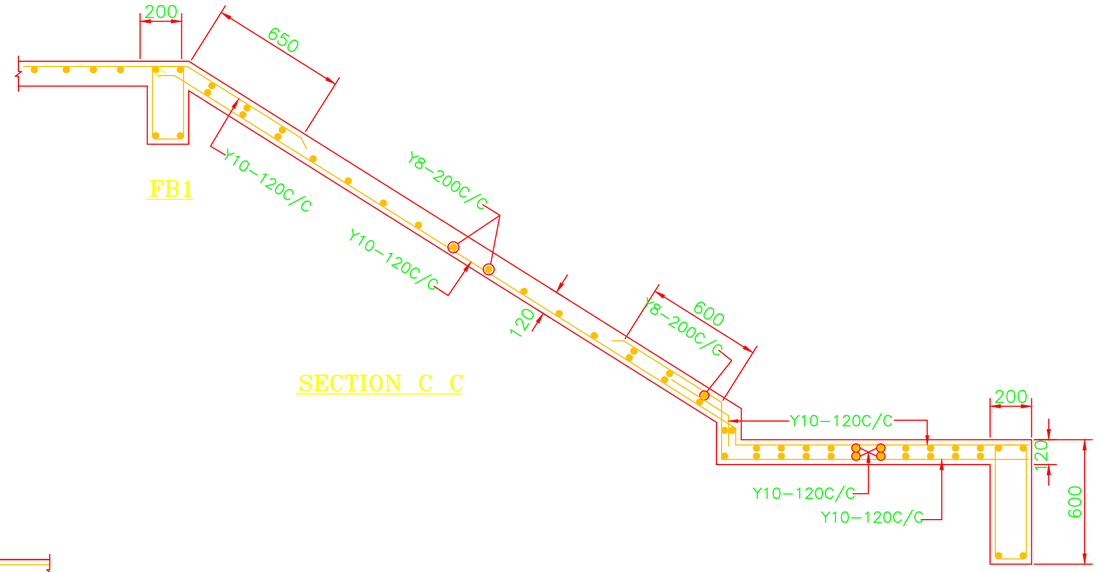
FILE NAME : D/MAHALINGAM/UMAIZENARAYANAPURAM MADURAI



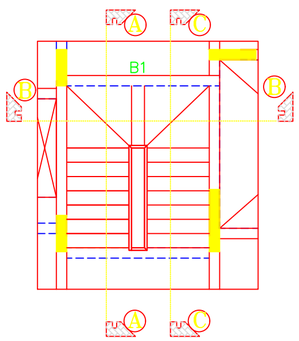
SECTION B B



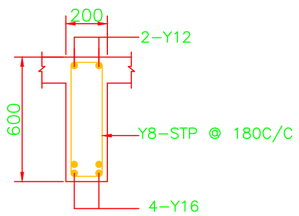
SECTION A A



SECTION C C



STILT FLOOR TO FIRST FLOOR
STAIRCASE LAYOUT



C.S OF FB1

Notes:-

1. This drawing should be read along with architectural drawings.
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    ii) For Beams and Arches :
    c. Beams and Arches spanning upto 6 m (20'–0") –14days
    d. Beams and Arches spanning over 6 m (20'–0") –21days

ADVANCE COPY

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT NARAYANAPURAM, MADURAI.

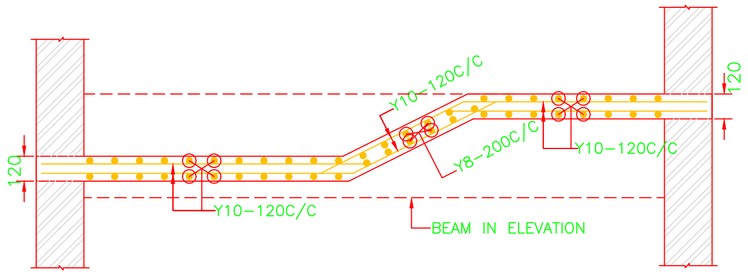
TYPICAL STAIRCASE DETAILS FOR STILT FLOOR TO FIRST FLOOR

DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	BALAJI		DATE	28-03-2024

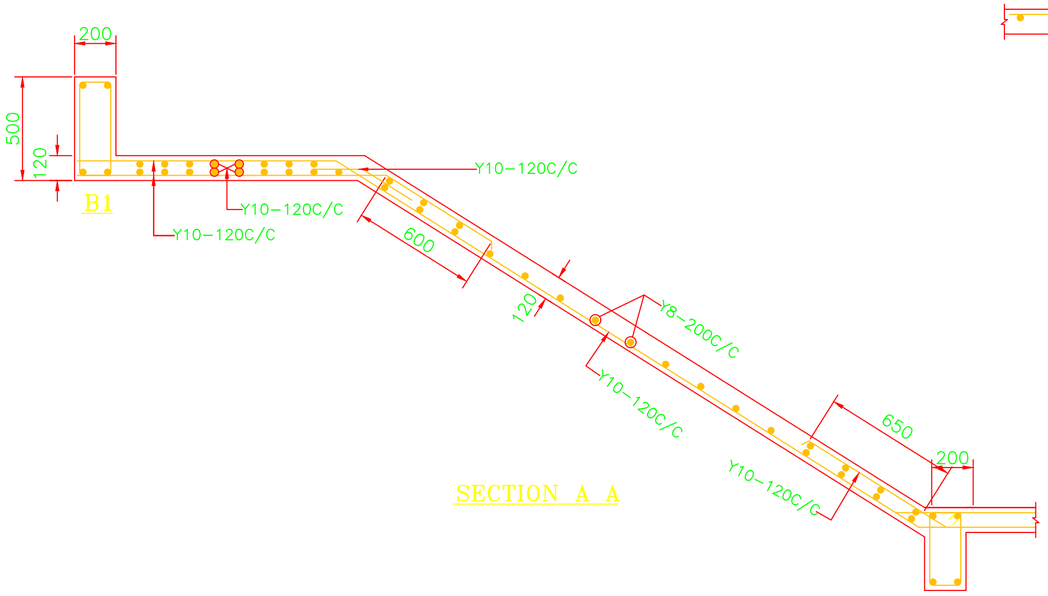
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E–MAIL:kannankds2007@gmail.com

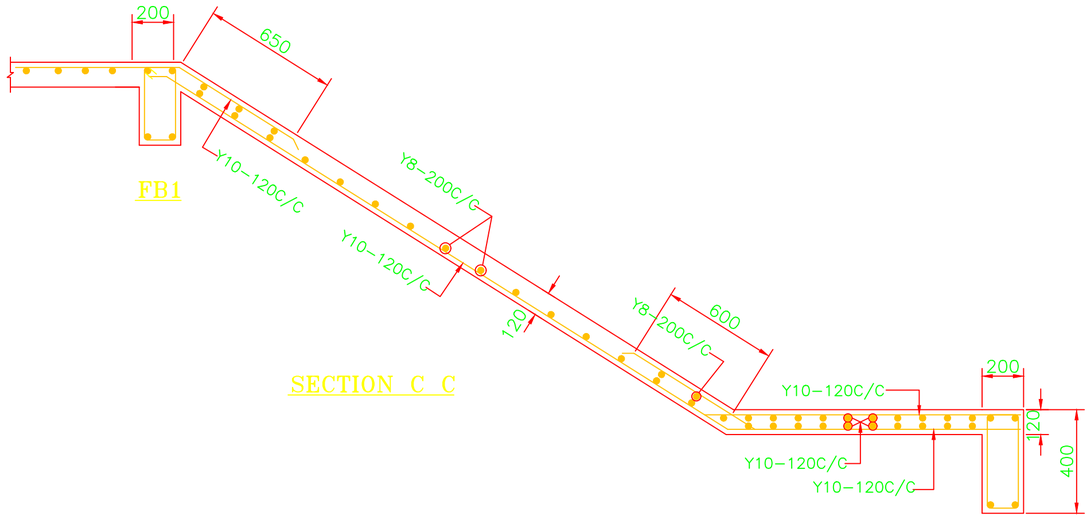
FILE NAME : D/MAHALINGAM/UMAIZENARAYANAPURAM MADURAI



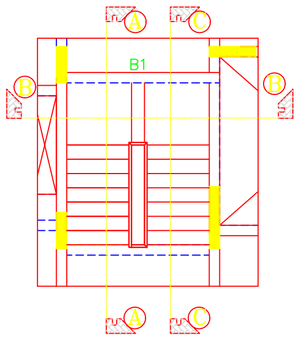
SECTION B B



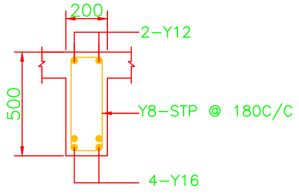
SECTION A A



SECTION C C



TYPICAL FLOOR STAIRCASE LAYOUT



C.S OF FB1

Notes:-

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ADVANCE COPY

R.NO	DATE	DESCRIPTION

PROJECT

PROPOSED COMMERCIAL CUM RESIDENTIAL BUILDING AT NARAYANAPURAM, MADURAI.

TYPICAL FLOOR STAIRCASE DETAILS

DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	BALAJI		DATE	28-03-2024

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FILE NAME : D/MAHALINGAM/UMAIZENARAYANAPURAM MADURAI



our services doesn't just end there

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Property Buying Assistance, Property Selling Support, Market Price Analysis, Owner Outreach and Negotiation.

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Guideline Value, Apartment Composite Value, Stamp Duty & Registration Fees Calculator, Building Value Calculator, Capital Gains Calculator, Area Unit Converter, Length Unit Converter

Ownership, Compliance & Legal Verification

Encumbrance Certificate (EC) Search, Find Your SRO, Temple Property Check, WAQF Property Check, View Patta/Chitta, View FMB, Patta Analyzer, EC Analyzer

Zoning & Land Use Analysis

Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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OMR Thoraipakkam,
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