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C.KANNAN, M.E. (Structure)
STRUCTURAL ENGINEER

Door .21, plot No. 257- W, Flat No. 2B
"Utopia Apartments" 2nd Floor,
4th Main Road, Indira Nagar,
Chennai- 600 020
Mobile: 9841249815
Email: kannankds2007@gmail.com

24-12-2024

STRUCTURAL STABILITY CERTIFICATE

It is certified that the Proposed Residential Building At Plot No. P.P.6, abutting TNHB Main Road, Neighbourhood Scheme Phase-III, TNHB Block No. 6, Sholinganallur, Chennai - 600 119. Comprised in Survey No. 347/1B2, 1C2, 1D2, 1E2, 2A2, 2B2, 348/3B2, 3C, & 4B of Sholinganallur Village, Within the limits of Greater Chennai Corporation Having Basement Plus Stilt plus Eleven upper floors is designed to resist earthquake. Check has been made safe and sound, I hereby certify that,

1. The minimum column width is 300 in stilt floor areas
2. The minimum grade of concrete is M25.
3. The design analysis using the code of practice for loading Standards as per IS-875 Part I to III and seismic force as per one code IS 1893, is carried out.

The Structure is safe and sound when used for the purpose for which it is designed.

C. KANNAN, B.E., M.E, (Structure)
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CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

PROPOSED RESIDENTIAL BUILDING AT PLOT NO. P.P.6, ABUTTING TNHB MAIN ROAD, NEIGHBOURHOOD SCHEME PHASE-III, TNHB BLOCK NO. 6, SHOLINGANALLUR, CHENNAI -600 119. COMPRISED IN SURVEY NO. 347/1B2, 1C2, 1D2, 1E2, 2A2, 2B2, 348/3B2, 3C, & 4B OF SHOLINGANALLUR VILLAGE, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION

GENERAL NOTE ON STRUCTURAL DESIGN.

1.0 GENERAL.

1.1 DESIGN BASIS

The proposed residential building consists of Stilt plus Eleven upper floors.

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

1.2 CODES AND STANDARDS

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

1. I.S. 456 - 2000
2. I.S. 875 - Part I to III
3. I.S.1893 - 2016

2.0 BASIC CIVIL DESIGN LOADS

2.1 DEAD LOADS & LIVE LOADS

Typical slab dead load is calculated as follows

Self weight of slab	=	3.25kN/m²
Floor finish	=	2.0kN/m²
Live load	=	2.0kN/m²
		7.25kN/m²

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3.0 SOIL DETAILS

Based on soil test report Pile Foundation is adopted.

DESIGN METHODS

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

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

4.1

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

4.3 **MINIMUM COVER**

Slab	15 mm
Beam	25 mm
Columns	40 mm
Foundations	50 mm

The Structure is safe and sound when used for the purpose for which it is designed.

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Indira Nagar, Chennai-600 020.

```
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*          STAAD.Pro CONNECT Edition             *
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*          Proprietary Program of                *
*          Bentley Systems, Inc.                 *
*          Date=    DEC 24, 2024                 *
*          Time=    15:44:11                     *
*                                                *
*  Licensed to: C.Kannan                         *
**************************************************
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     3. ENGINEER DATE 24-DEC-24
     4. JOB NAME PROPOSED RESIDENTIAL BUILDING AT PLOT NO. P.P.6, ABUTTING TNHB MAIN -
     5. ROAD, NEIGHBOURHOOD SCHEME PHASE-III, TNHB BLOCK NO. 6, SHOLINGANALLUR, -
     6. CHENNAI -600 119. COMPRISED IN SURVEY NO. 347/1B2, 1C2, 1D2, 1E2, 2A2, 2B2, -
     7. 348/3B2, 3C, & 4B OF SHOLINGANALLUR VILLAGE, WITHIN THE LIMITS OF GREATER -
     8. CHENNAI
     9. ENGINEER NAME KANNAN
    10. CHECKER NAME KANNAN
    11. APPROVED NAME KANNAN
    12. END JOB INFORMATION
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Indira Nagar, Chennai-600 020.

```
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65. DEFINE MATERIAL START
66. ISOTROPIC CONCRETE
67. E 2.17185E+07
68. POISSON 0.17
69. DENSITY 23.5616
70. ALPHA 1E-05
71. DAMP 0.05
72. G 9.28139E+06
73. TYPE CONCRETE
74. STRENGTH FCU 27579
75. END DEFINE MATERIAL
76. MEMBER PROPERTY
77. 85 TO 154 PRIS YD 0.8 ZD 0.23
78. 1 TO 84 PRIS YD 0.8 ZD 0.23
79. CONSTANTS
80. MATERIAL CONCRETE ALL
81. UNIT MMS KN
82. SUPPORTS
83. 99 TO 103 FIXED
84. UNIT METER KN
85. 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.

86. TYPE 1 WIND 1
87. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
88. CUSTOM:PARAMS
89. !> END GENERATED DATA BLOCK
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Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

STAAD SPACE -- PAGE NO. 3

```
 90. INT 1.22 1.35 1.48 1.51 1.63 1.76 1.89 HEIG  10  15  20  25  30  35  39
 91. EXP 1 JOINT 1 TO 103
 92. DEFINE IS1893 2016 LOAD
 93. ZONE 0.16 RF 5 I 1 SS 1 ST 1 DM 0.05 DT 2
 94. SELFWEIGHT 1
 95. MEMBER WEIGHT
 96. 1 TO 84 UNI 12 0 0
 97. 1 TO 84 UNI 25 0 0
 98. LOAD 1 LOADTYPE SEISMIC-H  TITLE EQX
 99. 1893 LOAD X 1
100. LOAD 2 LOADTYPE SEISMIC-H  TITLE EQX
101. 1893 LOAD X -1.
102. LOAD 3 LOADTYPE SEISMIC-V  TITLE EQZ
103. 1893 LOAD Z 1
104. LOAD 4 LOADTYPE SEISMIC-V  TITLE EQZ
105. 1893 LOAD Z -1.
106. LOAD 5 LOADTYPE WIND  TITLE WIND +X
107. WIND LOAD X 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
108. LOAD 6 LOADTYPE WIND  TITLE WIND -X
109. WIND LOAD -X 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
110. LOAD 7 LOADTYPE WIND  TITLE WIND +Z
111. WIND LOAD Z 1 TYPE 1
112. LOAD 8 LOADTYPE WIND  TITLE WIND -Z
113. WIND LOAD -Z 1 TYPE 1
114. LOAD 9 LOADTYPE LIVE  TITLE L.L
115. MEMBER LOAD
116. 1 TO 84 UNI GY -12
117. LOAD 10 LOADTYPE DEAD  TITLE D.L
118. SELFWEIGHT Y -1 LIST ALL
119. MEMBER LOAD
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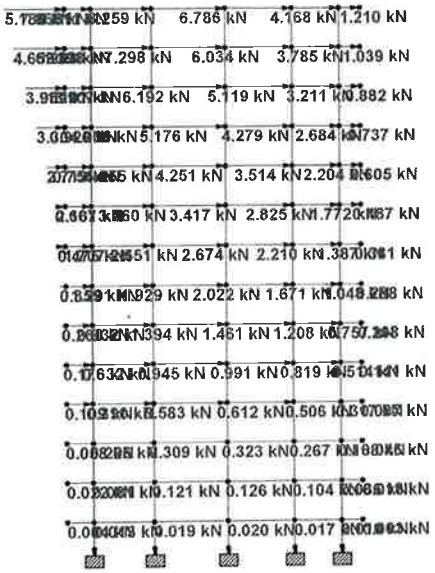


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CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

```
120. 1 TO 84 UNI GY -25
121. LOAD COMB 11 1.5(DL+IL)
122. 9 1.5 10 1.5
123. LOAD COMB 12 1.2(DL+IL+ELX)
124. 9 1.5 10 1.2 1 1.2
125. LOAD COMB 13 1.2(DL+IL-ELX)
126. 9 1.2 10 1.2 2 1.2
127. LOAD COMB 14 1.2(DL+IL+ELZ)
128. 9 1.2 10 1.2 3 1.2
129. LOAD COMB 15 1.2(DL+IL-ELZ)
130. 9 1.2 10 1.2 4 1.2
131. LOAD COMB 16 1.2(DL+IL+WLX)
132. 9 1.2 10 1.2 5 1.2
133. LOAD COMB 17 1.2(DL+IL-WLX)
134. 10 1.2 6 1.2
135. LOAD COMB 18 1.2(DL+IL+WLZ)
136. 9 1.2 10 1.2 7 1.2
137. LOAD COMB 19 1.2(DL+IL-WLZ)
138. 9 1.2 10 1.2 8 1.2
139. LOAD COMB 20 1.5(DL+ELX)
140. 9 1.5 10 1.5 1 1.5
141. LOAD COMB 21 1.5(DL-ELX)
142. 9 1.5 10 1.5 2 1.5
143. LOAD COMB 22 1.5(DL+ELZ)
144. 9 1.5 10 1.5 3 1.5
145. LOAD COMB 23 1.5(DL-ELZ)
146. 10 1.5 4 1.5
147. LOAD COMB 24 1.5(DL+WLX)
148. 10 1.5 5 1.5
149. LOAD COMB 25 1.5(DL-WLX)
150. 10 1.5 6 1.5
151. LOAD COMB 26 1.5(DL+WLZ)
152. 10 1.5 7 1.5
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154. 10 1.5 8 1.5
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158. 10 0.9 2 1.5
159. LOAD COMB 30 0.9 DL+ELZ
160. 10 0.9 3 1.5
161. LOAD COMB 31 0.9 DL-ELZ
162. 10 0.9 4 1.5
163. LOAD COMB 32 0.9 DL+WLX
164. 10 0.9 5 1.5
165. LOAD COMB 33 0.9 DL-WLX
166. 10 0.9 6 1.5
167. LOAD COMB 34 0.9 DL+WLZ
168. 10 0.9 7 1.5
169. LOAD COMB 35 0.9 DL-WLZ
170. 10 0.9 8 1.5
171. PERFORM ANALYSIS PRINT ALL
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Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

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Software licensed to C.Kannan CONNECTED User: Kannan Chinnasamy	Part		
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	By Kannan	Date 24-Dec-24	Chd Kannan
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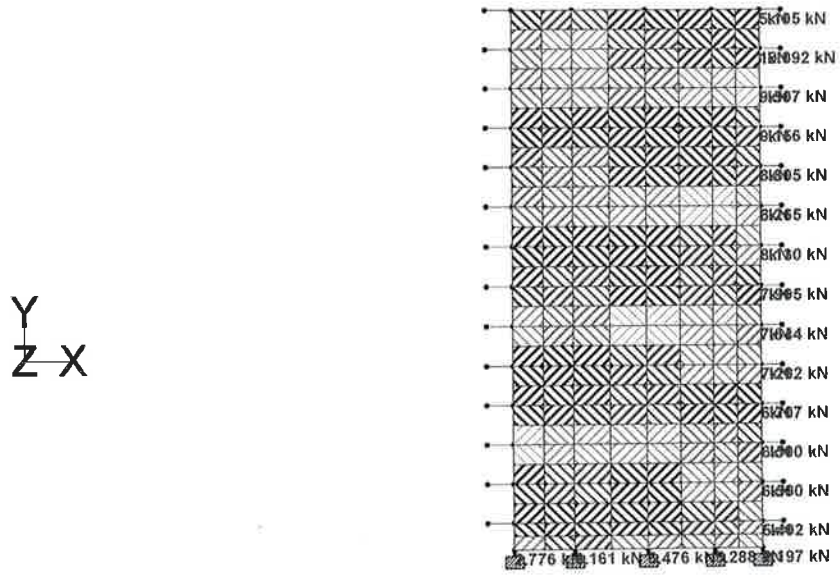


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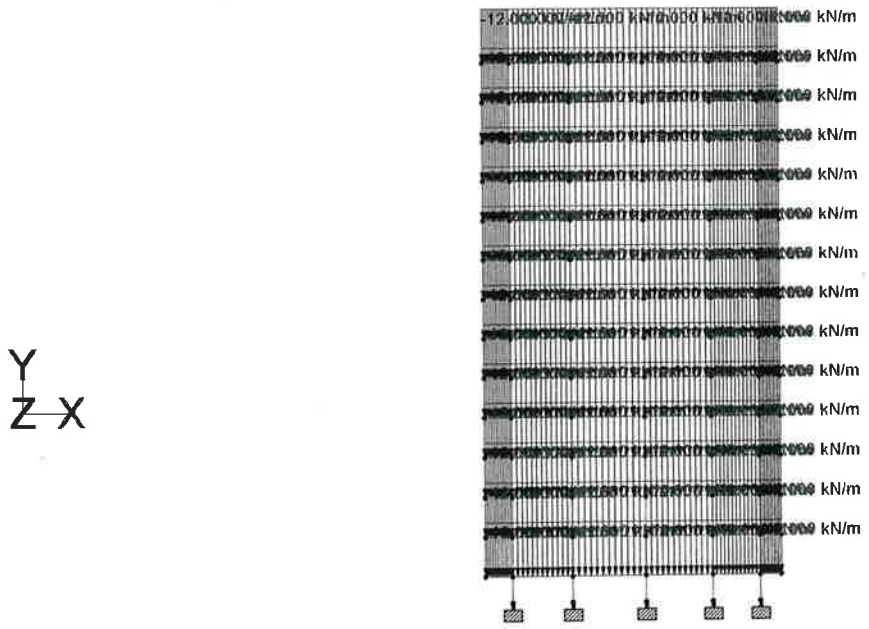
C. KANNAN, B.E., M.E, (Structure)
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CMDA Reg. No: SE/I/2024/2/0047
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Bentley	Job No	Sheet No 1	Rev
Software licensed to C.Kannan CONNECTED User: Kannan Chinnasamy	Part		
Job Title **Proposed Residential Building At Plot No. P.P.6, abutting TNHB Main Road, Neighbourhood Scheme Phase-III, TNHB Block No. 6, Sholinganallur,**	Ref		
	By Kannan	Date 24-Dec-24	Chd Kannan
Client	File ANKUR-TNHB (SHOLIN(	Date/Time	24-Dec-2024 15:43



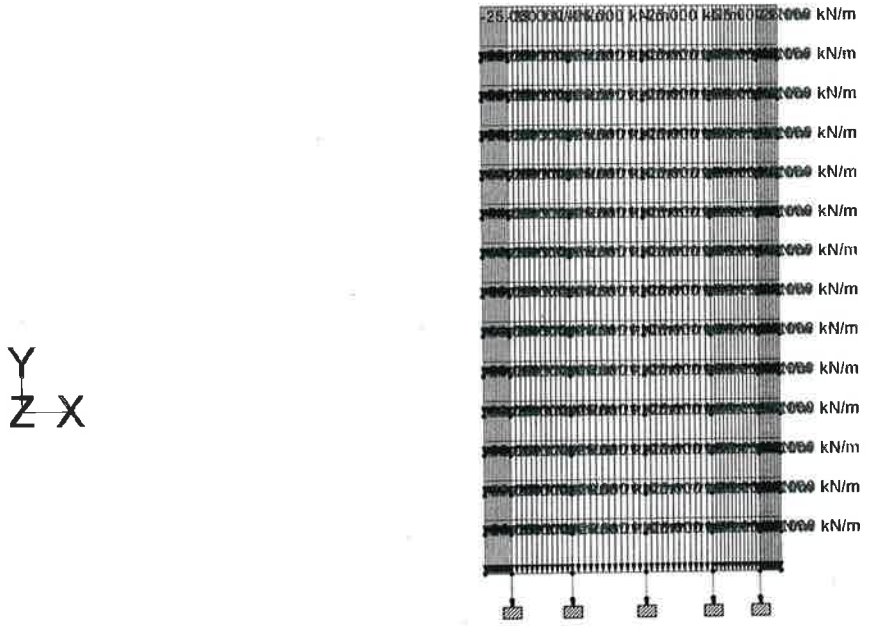
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C. KANNAN, B.E., M.E. (Structure)
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CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.



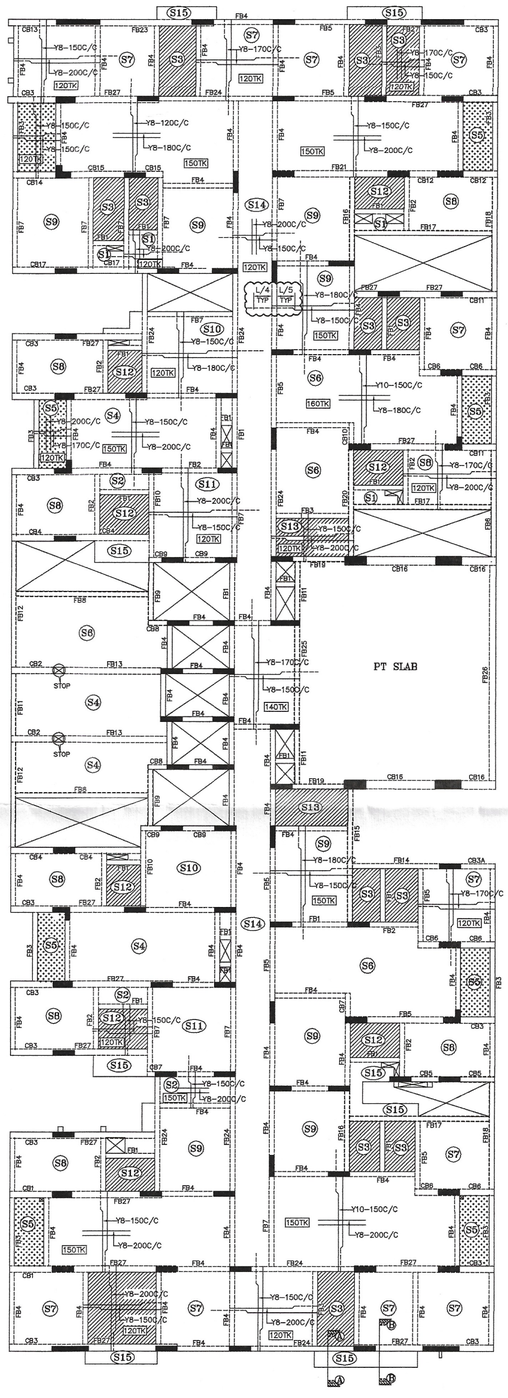
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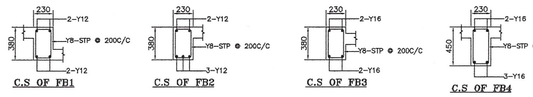
C. KANNAN, B.E., M.E, (Structure)
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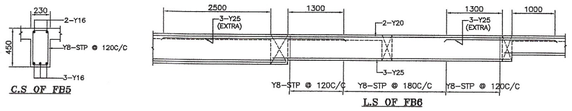


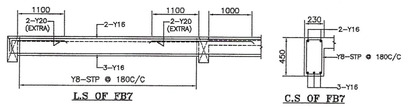
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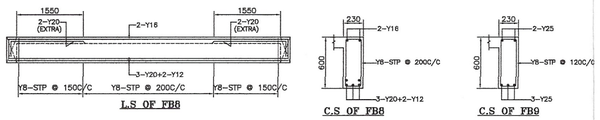
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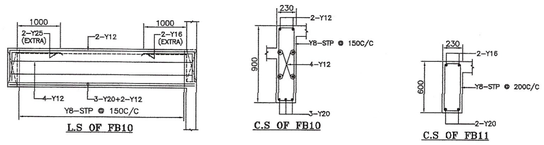


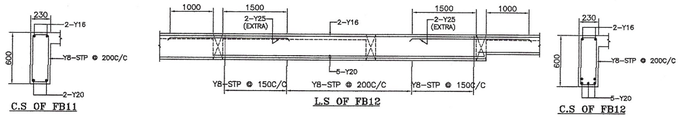


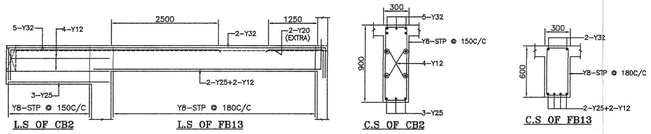


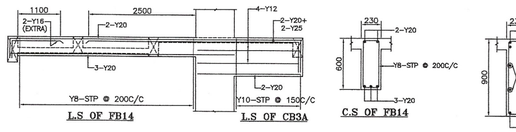


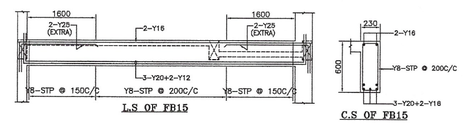


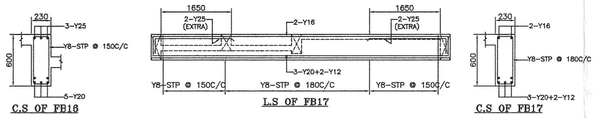


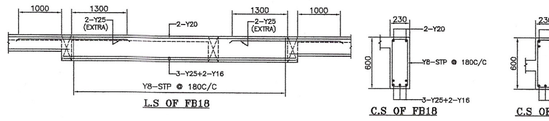


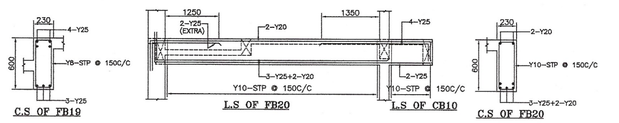


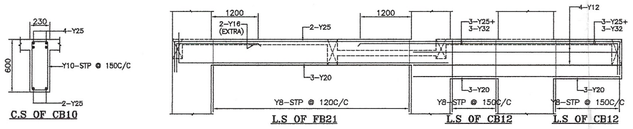


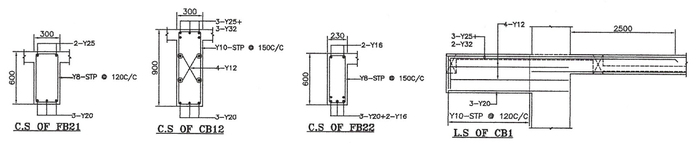


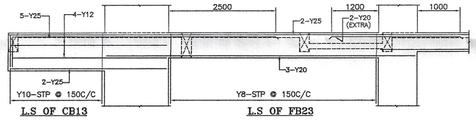


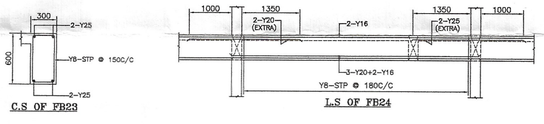


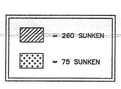


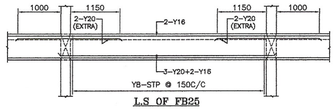


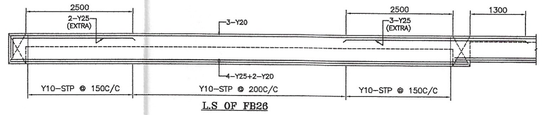


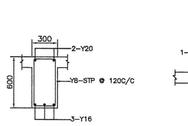


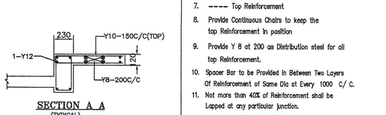


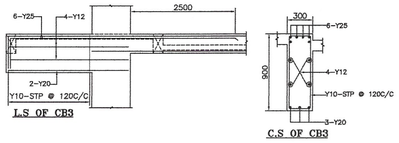


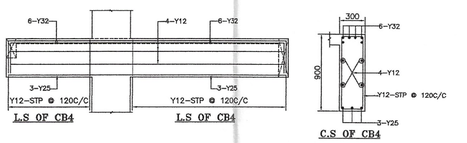


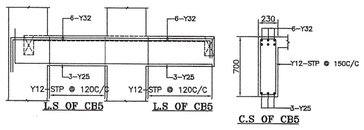


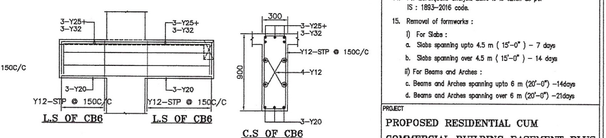


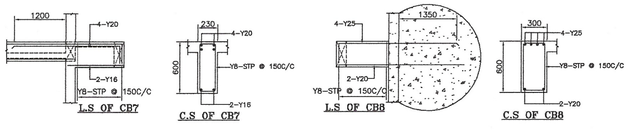


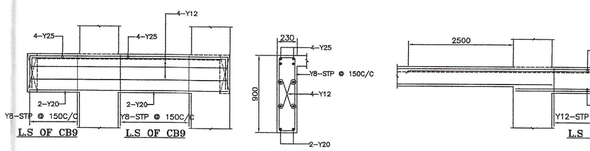


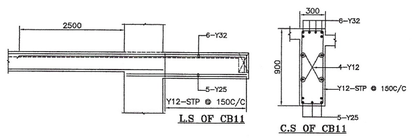


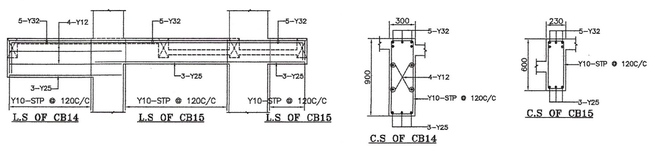


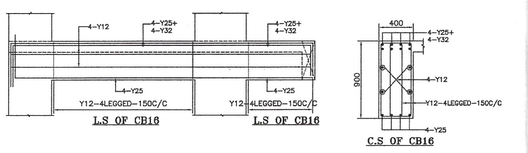


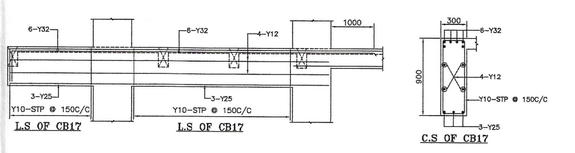


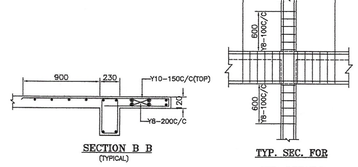












R.NO	DATE	DESCRIPTION

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
   Grade of pile elements shall be M30 with minimum cement content 400 kg/m3
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4. Clear cover to the main steel
   50 for Footings , Raft Slabs & Raft Beams.
   40 for Columns.
   25 for Lintel & Beams.
   20 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 ct 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+Eleven 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

PROJECT

PROPOSED RESIDENTIAL CUM COMMERCIAL BUILDING BASEMENT PLUS STILT PLUS ELEVEN FLOORS AT PLOT NO: P.P.6TNHB MAIN ROAD NEIGHBOUR NEIGHBOURHOOD SCHEME PHASE-III TNHB BLOCK NO:6, SHOLINGANALLUR, CHENNAI-600 119. COMPRISED IN SURVEY NO.347/1B2, 1C2, 1D2, 1E2 2A2,2B2,348/3B2,3C & 4B OF SHOLINGANALLUR VILLAGE, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

FIRST FLOOR ROOF DETAIL

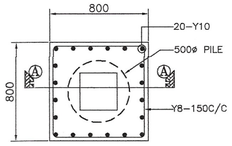
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DRAWN	DHEVA	DATE	16-04-2024

STRUCTURAL CONSULTANTS:

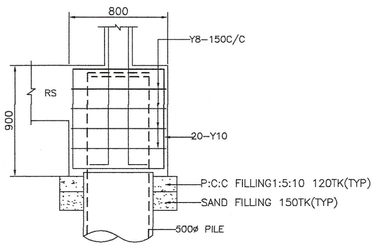
C.KANNAN, B.E.,M.E, (Structure)
Structural Engineer
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road
Indira Nagar, Chennai - 600 020.

C.KANNAN, STRUCTURAL ENGINEER,
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

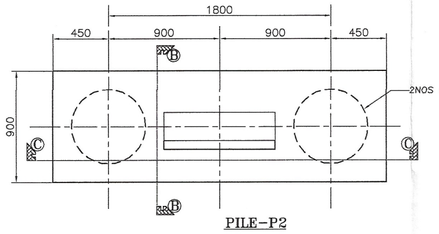
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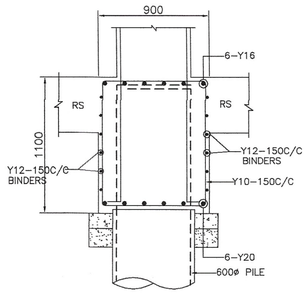
PILE–P1



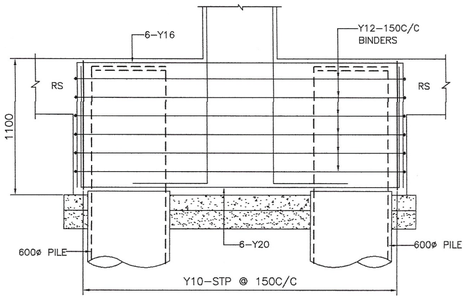
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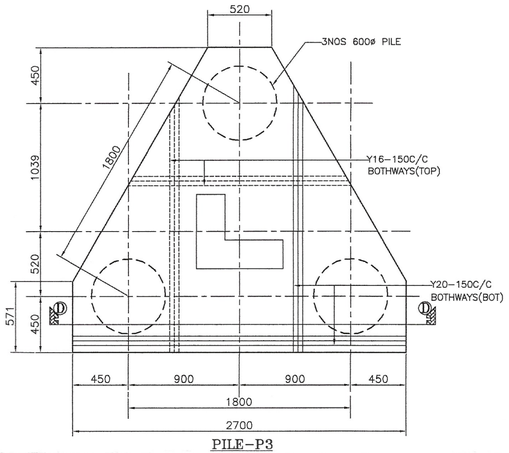
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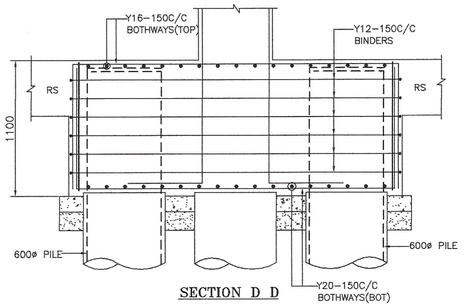
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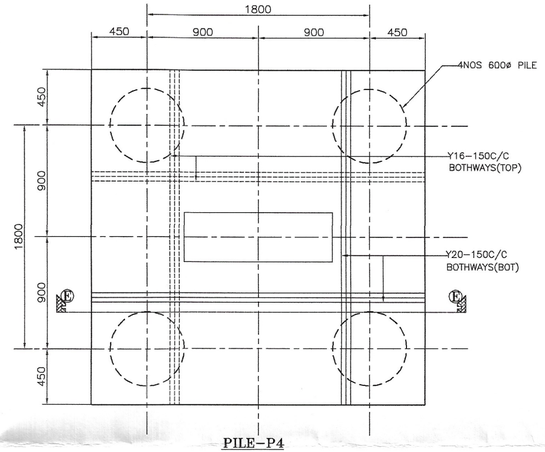
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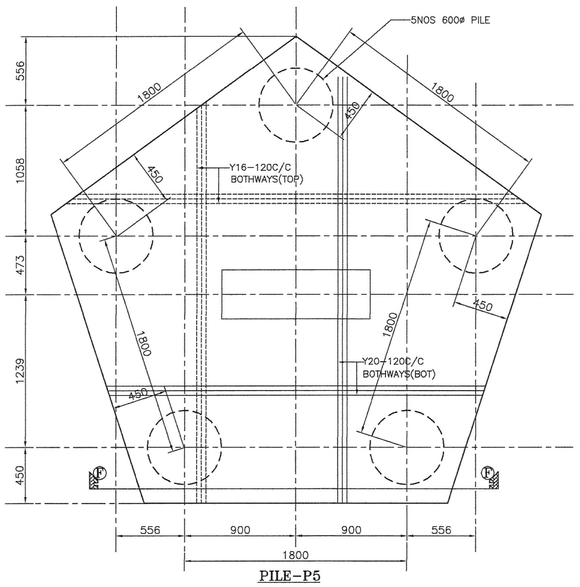
PILE–P3



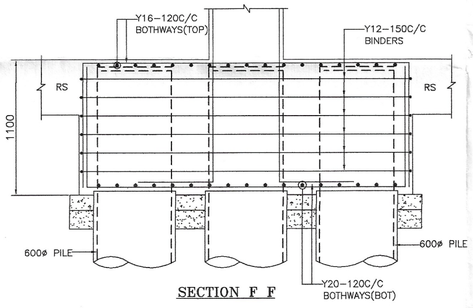
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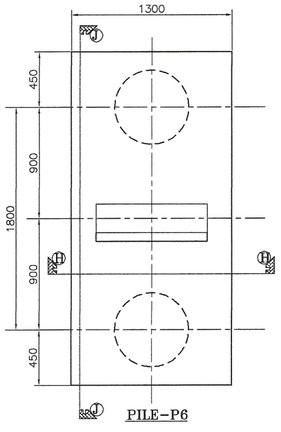
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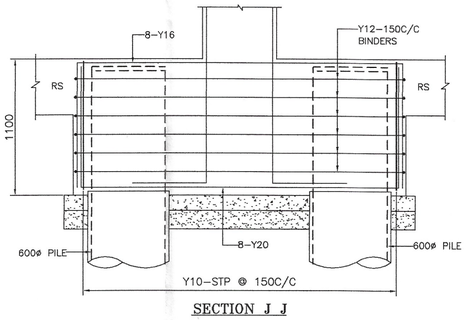
PILE–P5



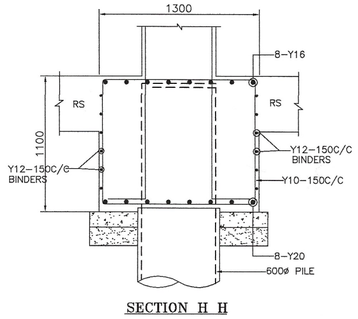
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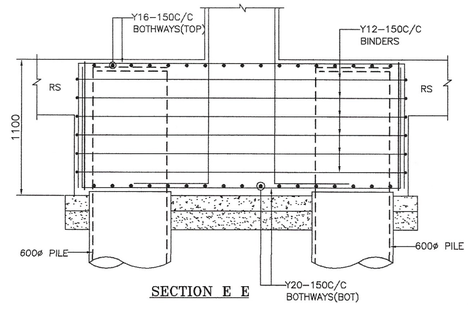
PILE–P6



SECTION J J



SECTION H H



SECTION E E

R.NO	DATE	DESCRIPTION

Notes: –

1. This drawing should be read along with architectural drawings.
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   Grade – Fe 500
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   25 for Lintel & Beams.
   20 for Sunshade & Slab.
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6. ——— Bottom Reinforcement
7. - - - - Top Reinforcement
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15. Removal of formworks :
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    b. Slabs spanning over 4.5 m (15'–0") – 14 days
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    c. Beams and Arches spanning upto 6 m (20'–0") –14days
    d. Beams and Arches spanning over 6 m (20'–0") –21days

PROJECT

PROPOSED RESIDENTIAL CUM COMMERCIAL BUILDING BASEMENT PLUS STILT PLUS ELEVEN FLOORS AT PLOT NO: P.P.6TNHB MAIN ROAD NEIGHBOUR NEIGHBOURHOOD SCHEME PHASE–III TNHB BLOCK NO:6, SHOLINGANALLUR, CHENNAI–600 119. COMPRISED IN SURVEY NO.347/1B2, 1C2, 1D2, 1E2 2A2,2B2,348/3B2,3C & 4B OF SHOLINGANALLUR VILLAGE, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

PILE CAP DETAIL (SHEET–2/2)

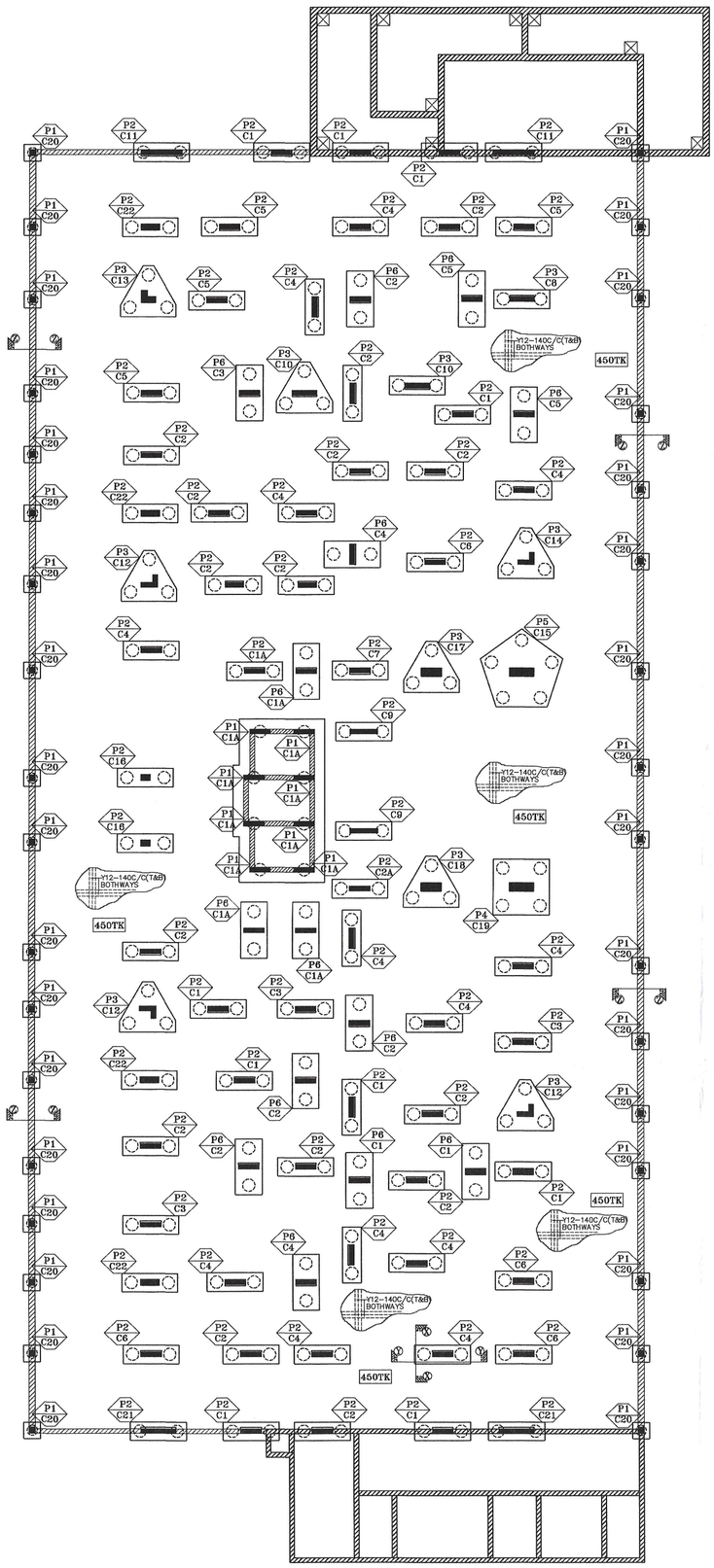
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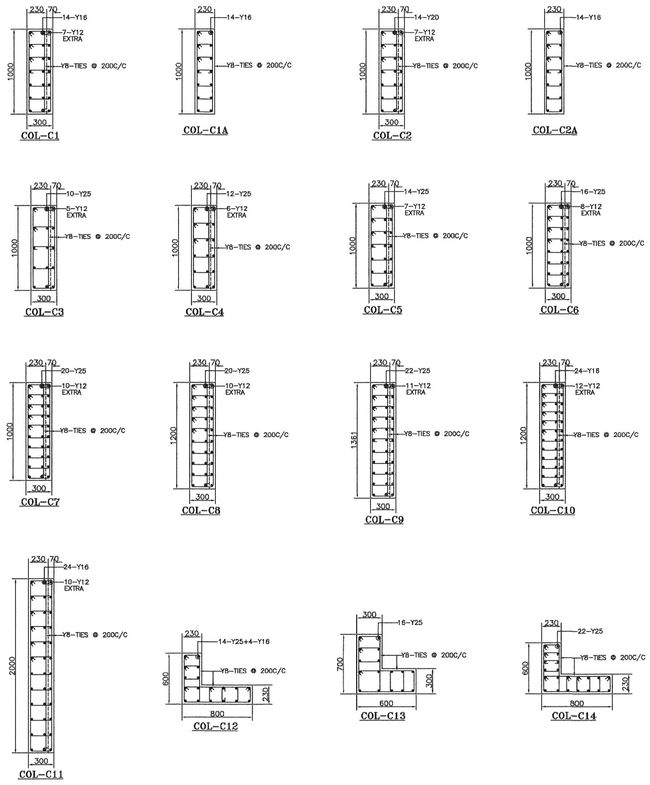
STRUCTURAL CONSULTANTS:

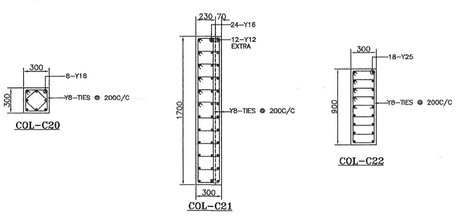
C.KANNAN, B.E., M.E, (Structure)
Structural Engineer,
CMDA Reg. No: SE/I/20[illegible]47
Door No: 21, 4th Main
Indira Nagar, Chennai-[illegible].

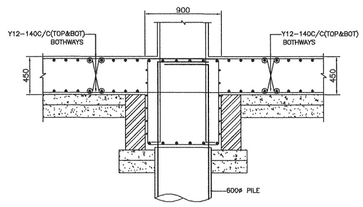
C.KANNAN B.E., M.E(STRUCTURE)
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FLAT NO:2B, "UTOPIA APARTMENTS",
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI–20.
MOBILE NO: 098412 49815.
E–MAIL:kannankds2007@gmail.com

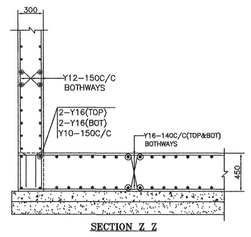
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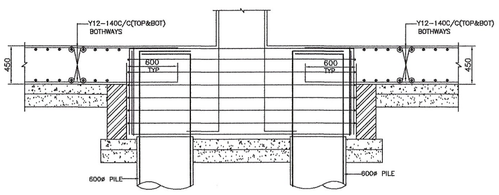




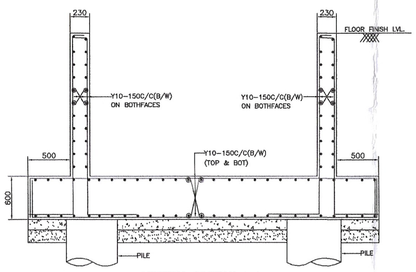


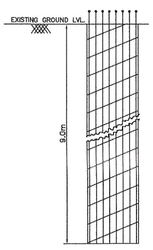


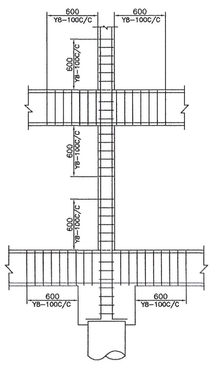












R.NO	DATE	DESCRIPTION

Notes :-

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    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

PROJECT

PROPOSED RESIDENTIAL CUM COMMERCIAL BUILDING BASEMENT PLUS STILT PLUS ELEVEN FLOORS AT PLOT NO: P.P.6TNHB MAIN ROAD NEIGHBOUR NEIGHBOURHOOD SCHEME PHASE-III TNHB BLOCK NO:6, SHOLINGANALLUR, CHENNAI-600 119. COMPRISED IN SURVEY NO.347/1B2, 1C2, 1D2, 1E2 2A2,2B2,348/3B2,3C & 4B OF SHOLINGANALLUR VILLAGE, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

COLUMN DETAIL (SHEET-1/2)

DESIGNED	KANNAN		SCALE	1 : 100
DRAWN	CHITRA		DATE	13-04-2024

STRUCTURAL CONSULTANTS:

C.KANNAN, B.E.,M.E, (Structure)
Structural Engineer,
Regn. No: SE/I/2024/2/0047
No. 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

C.KANNAN B.E., M.E.(STRUCTURE)
DOOR NO:21, 4th MAIN ROAD,
FLAT NO:2B, INDIRA APARTMENTS,
2nd FLOOR, 4th MAIN ROAD,
INDIRA NAGAR, CHENNAI-20.
MOBILE NO: 098412 46815.
E-MAIL:kannanks2007@gmail.com

FILE NAME: D/CHITRA/2020-2024/ANKUR-SHOLINGANALLUR



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

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3/350/2 Mettukuppam,
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