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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

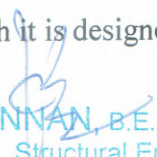
24-01-2025

STRUCTURAL STABILITY CERTIFICATE

The detailed engineering and structure design of the Proposed of High Rise Building with Extended B. Floor (Meant for Parking) + Stilt Floor Part (Meant for Mechanical Car Parking) Cum G. Floor Part + 10 Floors For Commercial (Office) Use comprising of Basement Plus Stilt Plus Ten upper floors at abutting TNHB Main Road, Shopping Complex Site No. 12, Sholinganallur, Chennai- 600 119. Comprised in Survey No. 235/26 Of Sholinganallur Village, Within the limits Of Greater Chennai Corporation, has been done based on the report of geotechnical investigation (soil test) done by Geo Marine Consultants (P) Ltd. and considering the functional requirement of the building.

1. It is certified that among other factors, the proposed building has been designed to resist earthquake. I have checked various parameters and found that the proposed building would be safe.
2. I further certify that:
 - (i) The minimum grade of concrete is M25
 - (ii) The design and analysis has been done using the code of practice for plain and reinforced concrete as per IS 456, design loads as per IS-875 Part I to III and design of earthquake resistant structure 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)
Structural Engineer,
CMDA Reg. No: SE/I/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

PROPOSED CONSTRUCTION OF HIGH RISE BUILDING WITH EXTENDED B. FLOOR (MEANT FOR PARKING) + STILT FLOOR PART (MEANT FOR MECHANICAL CAR PARKING) CUM G. FLOOR PART + 10 FLOORS FOR COMMERCIAL (OFFICE) USE, AT ABUTTING TNHB MAIN ROAD, SHOPPING COMPLEX SITE NO. 12, SHOLINGANALLUR, CHENNAI- 600 119. COMPRISED IN SURVEY NO. 235/26 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 Basement plus Stilt plus Ten 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	=	7.5kN/m ²
Floor finish	=	2.0kN/m ²
Live load	=	5.0kN/m ²

		14.5kN/m ²


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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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PAGE NO. 1

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*****
*                                     *
*      STAAD.Pro CONNECT Edition      *
*      Version  22.12.00.142          *
*      Proprietary Program of         *
*      Bentley Systems, Inc.          *
*      Date=    JAN 22, 2025          *
*      Time=    12:13:41              *
*                                     *
*      Licensed to: C.Kannan          *
*****

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1. STAAD SPACE
INPUT FILE: D:\AGAN\4.STABILITY\Ankur-Npl Sholinganalur\Staad\Ankur-Npl.. .STD
2. START JOB INFORMATION
3. ENGINEER DATE 1/22/2025
4. JOB NAME PROPOSED CONSTRUCTION OF HIGH RISE BUILDING WITH EXTENDED B.FLOOR -
5. (MEANT FOR PARKING) + STILT FLOOR PART (MEANT FOR MECHANICAL CAR PARKING) -
6. CUM G.FLOOR PART + 10 FLOORS FOR COMMERCIAL (OFFICE) USE, AT ABUTTING TNHB -
7. MAIN ROAD, SHOPPING COMPLEX SITE NO.12, SHOLINGANALLUR, CHENNAI-600 119. -
8. COMPRISED IN SURVEY NO. 235/26 OF SHOLINGANALLUR VILLAGE, WITHIN THE LIMITS -
9. OF GREATER CHENNAI CORPORATION
10. ENGINEER NAME KANNAN
11. CHECKER NAME KANNAN
12. APPROVED NAME KANNAN
13. CHECKER DATE 1/22/2025
14. APPROVED DATE 1/22/2025
15. END JOB INFORMATION
16. INPUT WIDTH 79
17. SET NL 250
18. UNIT MMS KN
19. JOINT COORDINATES
20. 3 15975 0 0; 4 24974.9 0 0; 5 33774.9 0 0; 6 42774.9 0 0; 9 15975 3000 0
21. 10 24974.9 3000 0; 11 33774.9 3000 0; 12 42774.9 3000 0; 15 15975 6000 0
22. 16 24974.9 6000 0; 17 33774.9 6000 0; 18 42774.9 6000 0; 21 15975 9000 0
23. 22 24974.9 9000 0; 23 33774.9 9000 0; 24 42774.9 9000 0; 27 15975 12000 0
24. 28 24974.9 12000 0; 29 33774.9 12000 0; 30 42774.9 12000 0; 33 15975 15000 0
25. 34 24974.9 15000 0; 35 33774.9 15000 0; 36 42774.9 15000 0; 39 15975 18000 0
26. 40 24974.9 18000 0; 41 33774.9 18000 0; 42 42774.9 18000 0; 45 15975 21000 0
27. 46 24974.9 21000 0; 47 33774.9 21000 0; 48 42774.9 21000 0; 51 15975 24000 0
28. 52 24974.9 24000 0; 53 33774.9 24000 0; 54 42774.9 24000 0; 57 15975 27000 0
29. 58 24974.9 27000 0; 59 33774.9 27000 0; 60 42774.9 27000 0; 63 15975 30000 0
30. 64 24974.9 30000 0; 65 33774.9 30000 0; 66 42774.9 30000 0; 69 15975 33000 0
31. 70 24974.9 33000 0; 71 33774.9 33000 0; 72 42774.9 33000 0; 75 15975 36000 0
32. 76 24974.9 36000 0; 77 33774.9 36000 0; 78 42774.9 36000 0; 81 15975 -2000 0
33. 82 24974.9 -2000 0; 83 33774.9 -2000 0; 84 42774.9 -2000 0
34. MEMBER INCIDENCES
35. 3 3 4; 4 4 5; 5 5 6; 8 9 10; 9 10 11; 10 11 12; 13 15 16; 14 16 17; 15 17 18
36. 18 21 22; 19 22 23; 20 23 24; 23 27 28; 24 28 29; 25 29 30; 28 33 34; 29 34 35
37. 30 35 36; 33 39 40; 34 40 41; 35 41 42; 38 45 46; 39 46 47; 40 47 48; 43 51 52
38. 44 52 53; 45 53 54; 48 57 58; 49 58 59; 50 59 60; 53 63 64; 54 64 65; 55 65 66

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 Indira Nagar, Chennai-600 020.

STAAD SPACE

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39. 58 69 70; 59 70 71; 60 71 72; 63 75 76; 64 76 77; 65 77 78; 92 81 3; 93 3 9
 40. 94 9 15; 95 15 21; 96 21 27; 97 27 33; 98 33 39; 99 39 45; 100 45 51
 41. 101 51 57; 102 57 63; 103 63 69; 104 69 75; 105 82 4; 106 4 10; 107 10 16
 42. 108 16 22; 109 22 28; 110 28 34; 111 34 40; 112 40 46; 113 46 52; 114 52 58
 43. 115 58 64; 116 64 70; 117 70 76; 118 83 5; 119 5 11; 120 11 17; 121 17 23
 44. 122 23 29; 123 29 35; 124 35 41; 125 41 47; 126 47 53; 127 53 59; 128 59 65
 45. 129 65 71; 130 71 77; 131 6 12; 132 12 18; 133 18 24; 134 24 30; 135 30 36
 46. 136 36 42; 137 42 48; 138 48 54; 139 54 60; 140 60 66; 141 66 72; 142 72 78
 47. 143 84 6
 48. UNIT METER KN
 49. DEFINE MATERIAL START
 50. ISOTROPIC CONCRETE
 51. E 2.17185E+07
 52. POISSON 0.17
 53. DENSITY 23.5616
 54. ALPHA 1E-05
 55. DAMP 0.05
 56. G 9.28139E+06
 57. TYPE CONCRETE
 58. STRENGTH FCU 27579
 59. END DEFINE MATERIAL
 60. MEMBER PROPERTY
 61. 92 TO 143 PRIS YD 0.6 ZD 0.2
 62. 3 TO 5 8 TO 10 13 TO 15 18 TO 20 23 TO 25 28 TO 30 33 TO 35 38 TO 40 -
 63. 43 TO 45 48 TO 50 53 TO 55 58 TO 60 63 TO 65 PRIS YD 0.6 ZD 0.2
 64. CONSTANTS
 65. MATERIAL CONCRETE ALL
 66. UNIT MMS KN
 67. SUPPORTS
 68. 81 TO 84 FIXED
 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. INT 1.22 1.35 1.48 1.51 1.64 1.77 HEIG 10 15 20 25 30 36
 73. EXP 1 JOINT 3 TO 6 9 TO 12 15 TO 18 21 TO 24 27 TO 30 33 TO 36 39 TO 42 45 -
 74. 46 TO 48 51 TO 54 57 TO 60 63 TO 66 69 TO 72 75 TO 78 81 TO 84
 75. DEFINE IS1893 2016 LOAD
 76. ZONE 0.16 RF 3 I 1.5 SS 1 ST 1 DM 0.05 DT 2
 77. MEMBER WEIGHT
 78. 3 TO 5 8 TO 10 13 TO 15 18 TO 20 23 TO 25 28 TO 30 33 TO 35 38 TO 40 -
 79. 43 TO 45 48 TO 50 53 TO 55 58 TO 60 63 TO 65 UNI 12 0 0
 80. 3 TO 5 8 TO 10 13 TO 15 18 TO 20 23 TO 25 28 TO 30 33 TO 35 38 TO 40 -
 81. 43 TO 45 48 TO 50 53 TO 55 58 TO 60 63 TO 65 UNI 25 0 0
 82. SELFWEIGHT 1
 83. LOAD 1 LOADTYPE SEISMIC-H TITLE EQX
 84. 1893 LOAD X 1
 85. LOAD 2 LOADTYPE SEISMIC-H TITLE EQX
 86. 1893 LOAD X -1.


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 Structural Engineer,
 CMDA Reg. No: SE/I/2024/2/0047
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STAAD SPACE

-- PAGE NO. 3

87. LOAD 3 LOADTYPE SEISMIC-V TITLE EQZ
88. 1893 LOAD Z 1
89. LOAD 4 LOADTYPE SEISMIC-V TITLE EQZ
90. 1893 LOAD Z -1.
91. LOAD 5 LOADTYPE WIND TITLE WIND +X
92. WIND LOAD X 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
93. LOAD 6 LOADTYPE WIND TITLE WIND -X
94. WIND LOAD -X 1 TYPE 1
*WARNING- NO MEMBERS LOADED FOR A WIND LOAD GENERATION.
95. LOAD 7 LOADTYPE WIND TITLE WIND +Z
96. WIND LOAD Z 1 TYPE 1
97. LOAD 8 LOADTYPE WIND TITLE WIND -Z
98. WIND LOAD -Z 1 TYPE 1
99. LOAD 9 LOADTYPE LIVE TITLE L.L
100. MEMBER LOAD
101. 3 TO 5 8 TO 10 13 TO 15 18 TO 20 23 TO 25 28 TO 30 33 TO 35 38 TO 40 -
102. 43 TO 45 48 TO 50 53 TO 55 58 TO 60 63 TO 65 UNI GY -12
103. LOAD 10 LOADTYPE DEAD TITLE D.L
104. SELFWEIGHT Y -1
105. MEMBER LOAD
106. 3 TO 5 8 TO 10 13 TO 15 18 TO 20 23 TO 25 28 TO 30 33 TO 35 38 TO 40 -
107. 43 TO 45 48 TO 50 53 TO 55 58 TO 60 63 TO 65 UNI GY -25
108. LOAD COMB 11 1.5(DL+IL)
109. 9 1.5 10 1.5
110. LOAD COMB 12 1.2(DL+IL+ELX)
111. 9 1.5 10 1.2 1 1.2
112. LOAD COMB 13 1.2(DL+IL-ELX)
113. 9 1.2 10 1.2 2 1.2
114. LOAD COMB 14 1.2(DL+IL+ELZ)
115. 9 1.2 10 1.2 3 1.2
116. LOAD COMB 15 1.2(DL+IL-ELZ)
117. 9 1.2 10 1.2 4 1.2
118. LOAD COMB 16 1.2(DL+IL+WLX)
119. 9 1.2 10 1.2 5 1.2



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STAAD SPACE

-- PAGE NO. 4

120. LOAD COMB 17 1.2(DL+IL-WLX)
 121. 10 1.2 6 1.2
 122. LOAD COMB 18 1.2(DL+IL+WLZ)
 123. 9 1.2 10 1.2 7 1.2
 124. LOAD COMB 19 1.2(DL+IL-WLZ)
 125. 9 1.2 10 1.2 8 1.2
 126. LOAD COMB 20 1.5(DL+ELX)
 127. 9 1.5 10 1.5 1 1.5
 128. LOAD COMB 21 1.5(DL-ELX)
 129. 9 1.5 10 1.5 2 1.5
 130. LOAD COMB 22 1.5(DL+ELZ)
 131. 9 1.5 10 1.5 3 1.5
 132. LOAD COMB 23 1.5(DL-ELZ)
 133. 10 1.5 4 1.5
 134. LOAD COMB 24 1.5(DL+WLX)
 135. 10 1.5 5 1.5
 136. LOAD COMB 25 1.5(DL-WLX)
 137. 10 1.5 6 1.5
 138. LOAD COMB 26 1.5(DL+WLZ)
 139. 10 1.5 7 1.5
 140. LOAD COMB 27 1.5(DL-WLZ)
 141. 10 1.5 8 1.5
 142. LOAD COMB 28 0.9 DL+ELX
 143. 10 0.9 1 1.5
 144. LOAD COMB 29 0.9 DL-ELX
 145. 10 0.9 2 1.5
 146. LOAD COMB 30 0.9 DL+ELZ
 147. 10 0.9 3 1.5
 148. LOAD COMB 31 0.9 DL-ELZ
 149. 10 0.9 4 1.5
 150. LOAD COMB 32 0.9 DL+WLX
 151. 10 0.9 5 1.5
 152. LOAD COMB 33 0.9 DL-WLX
 153. 10 0.9 6 1.5
 154. LOAD COMB 34 0.9 DL+WLZ
 155. 10 0.9 7 1.5
 156. LOAD COMB 35 0.9 DL-WLZ
 157. 10 0.9 8 1.5
 158. PERFORM ANALYSIS PRINT ALL

PROBLEM STATISTICS

NUMBER OF JOINTS	56	NUMBER OF MEMBERS	91
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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Job Title PROPOSED CONSTRUCTION OF HIGH RISE BUILDING WITH
EXTENDED B.FLOOR (MEANT FOR PARKING) + STILT FLOOR PARTY
Z X

17.594 kN	34.399 kN	34.400 kN	17.594 kN
15.271 kN	29.527 kN	29.527 kN	15.271 kN
12.765 kN	24.682 kN	24.683 kN	12.765 kN
10.484 kN	20.271 kN	20.272 kN	10.484 kN
8.427 kN	16.294 kN	16.294 kN	8.427 kN
6.594 kN	12.751 kN	12.751 kN	6.594 kN
4.986 kN	9.642 kN	9.642 kN	4.986 kN
3.603 kN	6.966 kN	6.966 kN	3.603 kN
2.443 kN	4.724 kN	4.724 kN	2.443 kN
1.508 kN	2.917 kN	2.917 kN	1.508 kN
0.798 kN	1.543 kN	1.543 kN	0.798 kN
0.312 kN	0.603 kN	0.603 kN	0.312 kN
0.049 kN	0.096 kN	0.096 kN	0.049 kN

Load 1



C. KANNAN, B.E., M.E, (Structure)
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CMDA Reg. No: SE/I/2024/2/0047
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Job Title **PROPOSED CONSTRUCTION OF HIGH RISE BUILDING WITH
EXTENDED B.FLOOR (MEANT FOR PARKING) + STILT FLOOR PART**

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By **Kannan**

Date **1/22/2025**

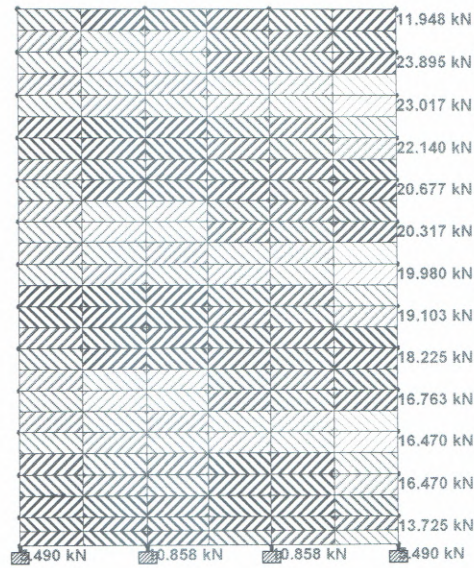
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Z-X



Load 7

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.

Job Title **PROPOSED CONSTRUCTION OF HIGH RISE BUILDING WITH
EXTENDED B.FLOOR (MEANT FOR PARKING) + STILT FLOOR PART**

Ref

By Kannan

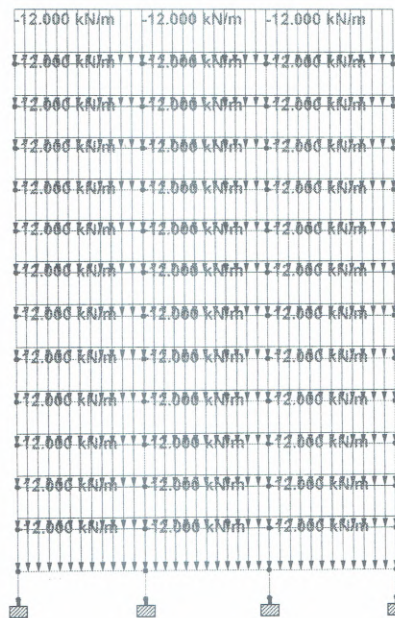
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Client

File Ankur-Npl Sholinganalur.!

Date/Time 22-Jan-2025 12:13

Y
Z-X

Load 9

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.

Job Title **PROPOSED CONSTRUCTION OF HIGH RISE BUILDING WITH
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Ref

By **Kannan**

Date **1/22/2025**

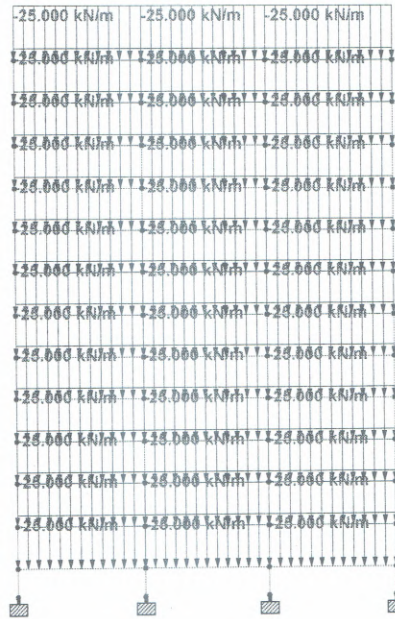
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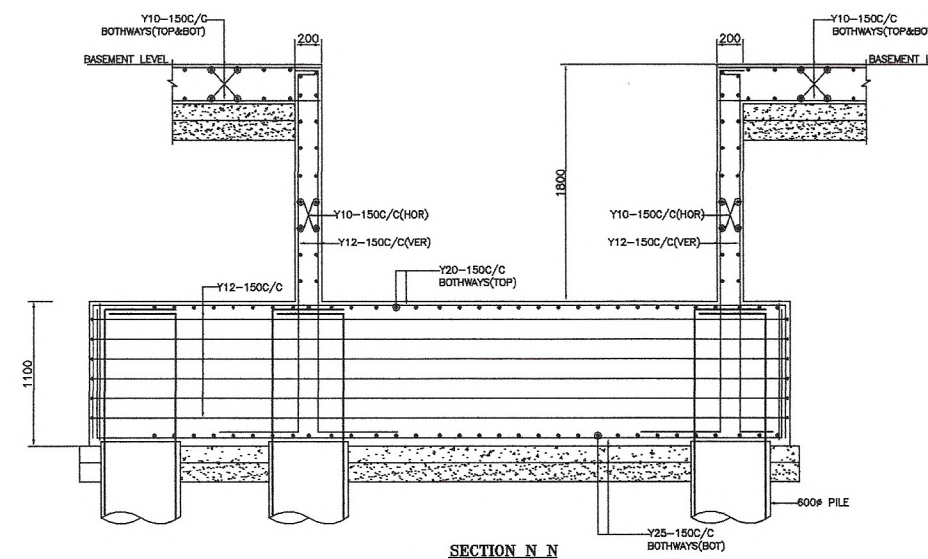
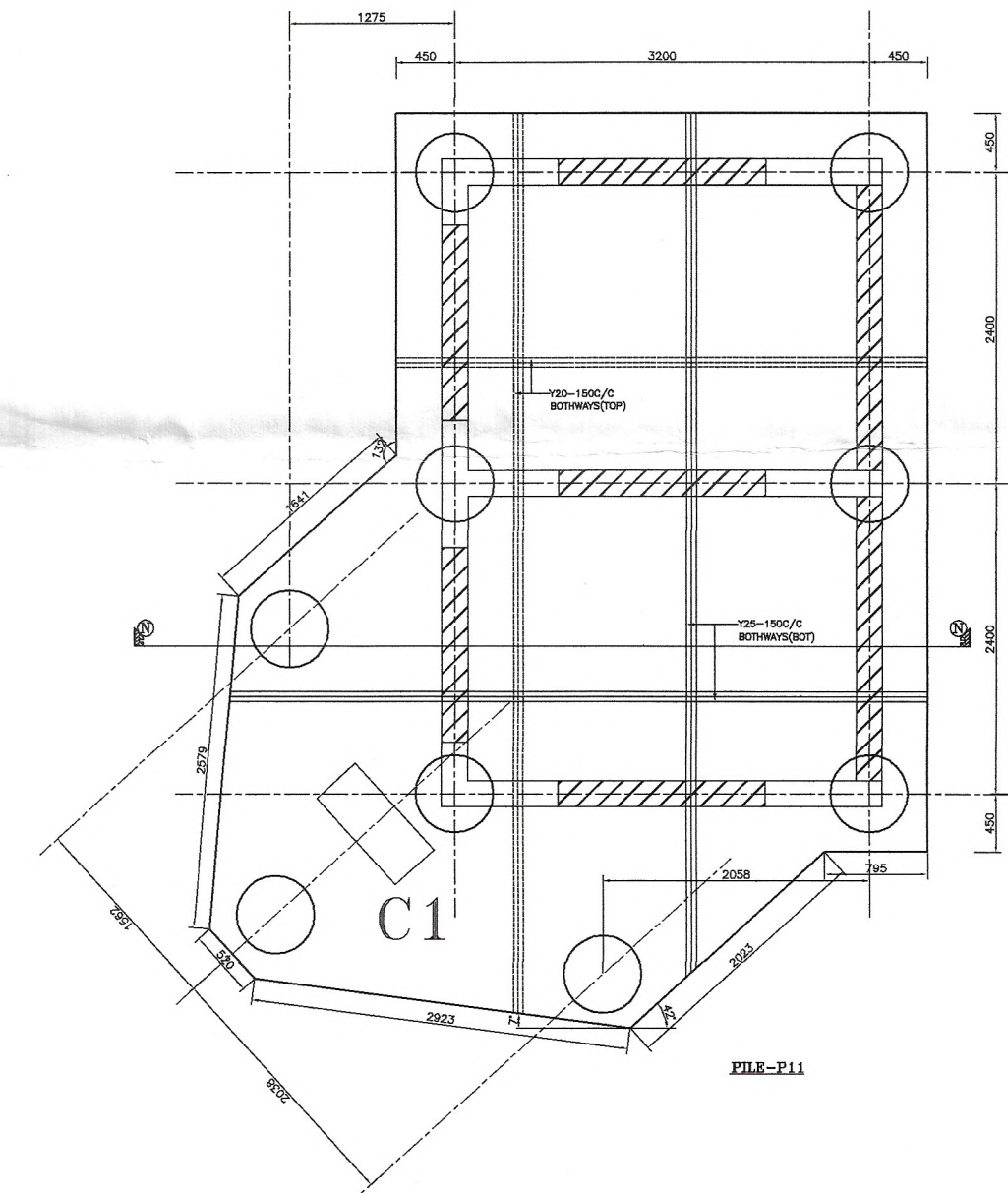
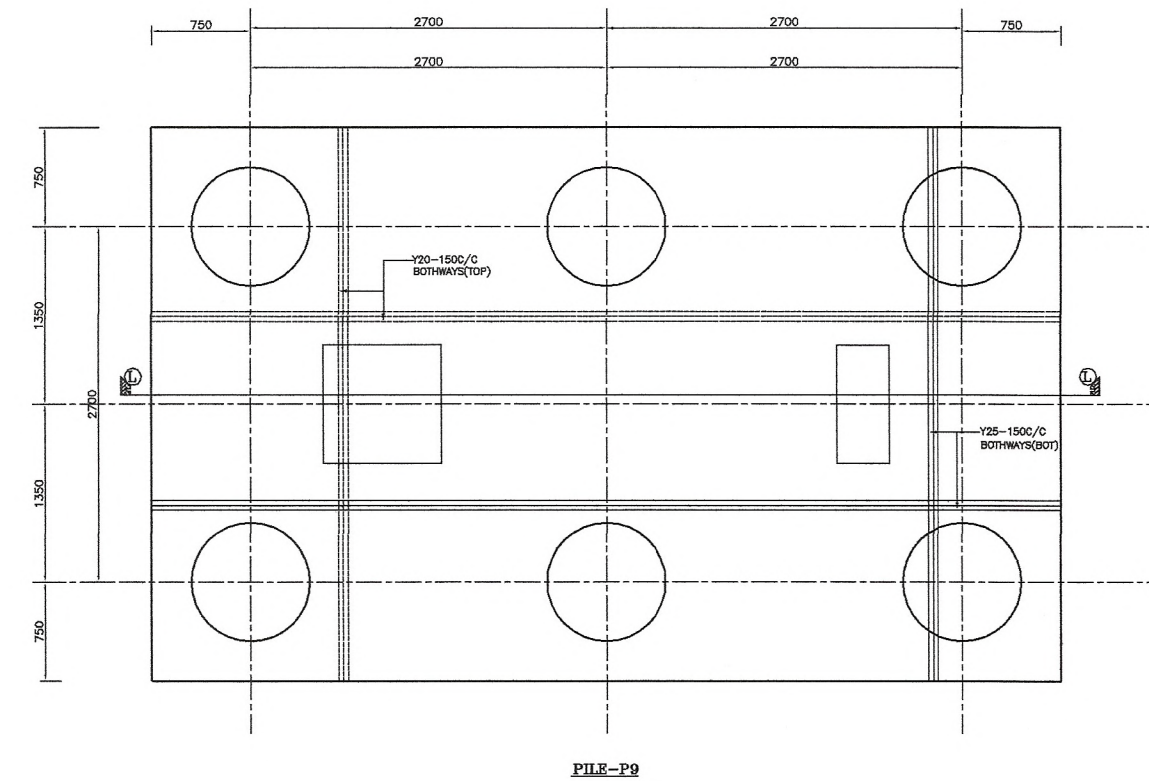
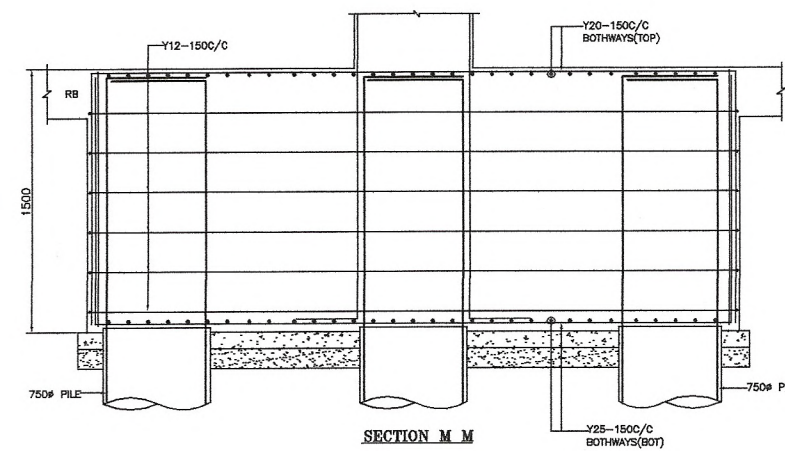
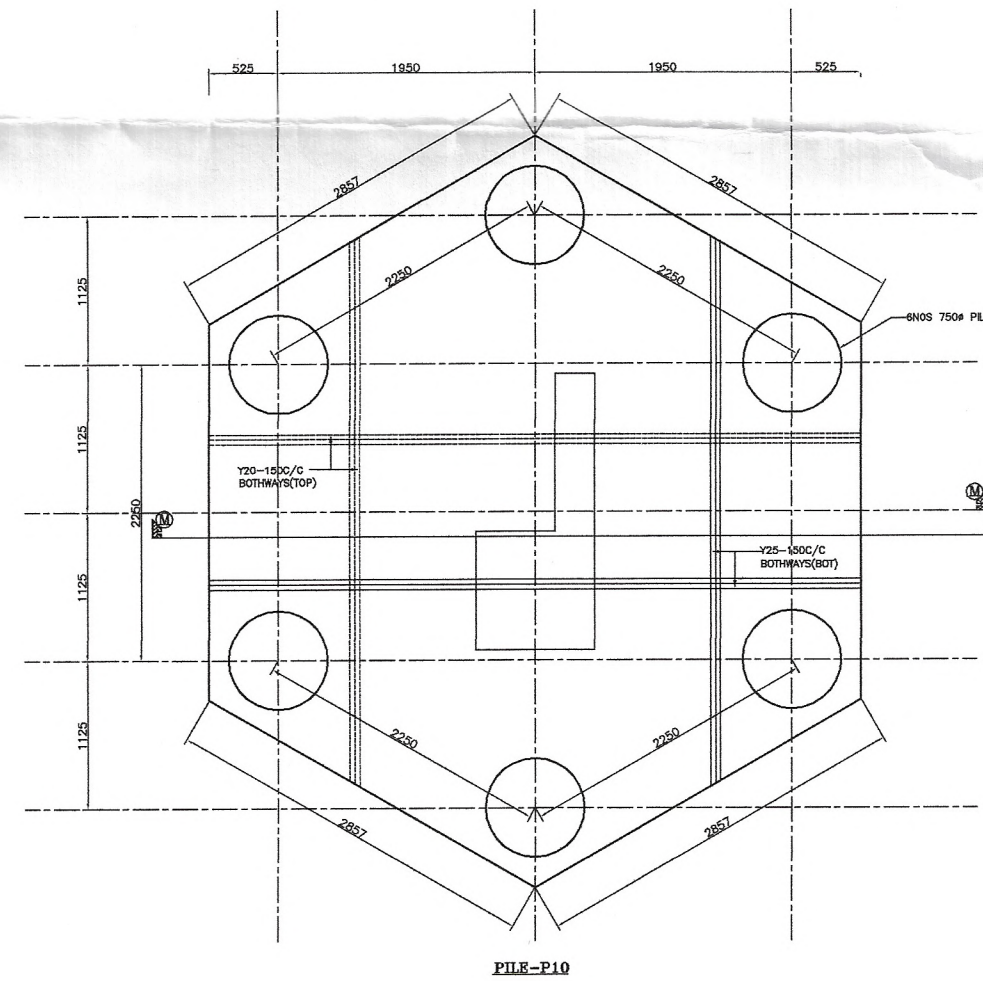
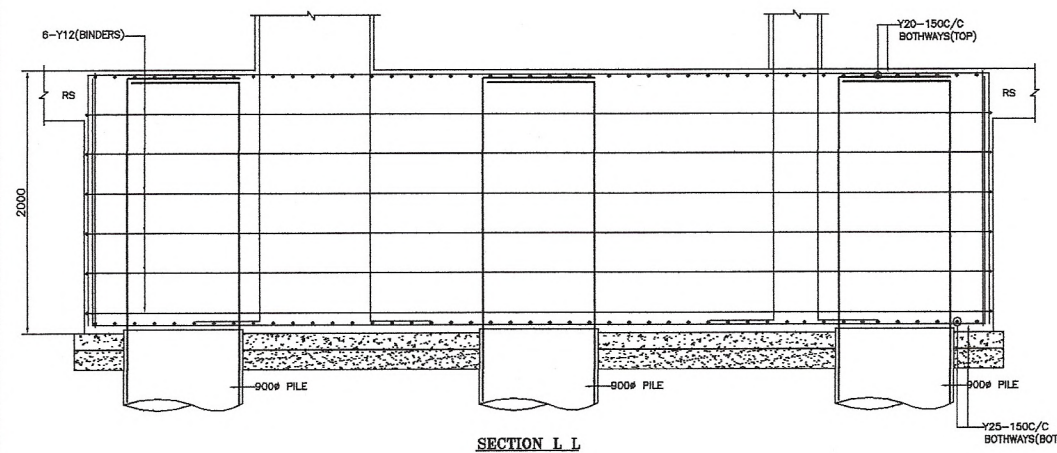
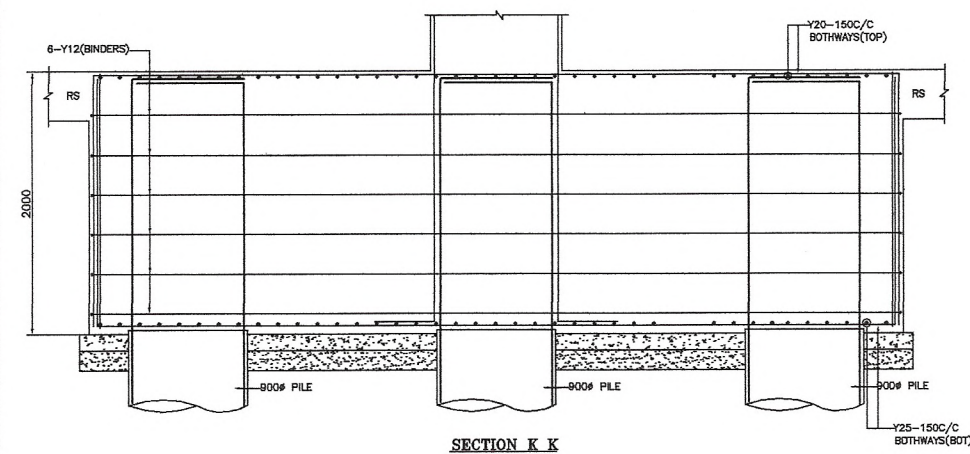
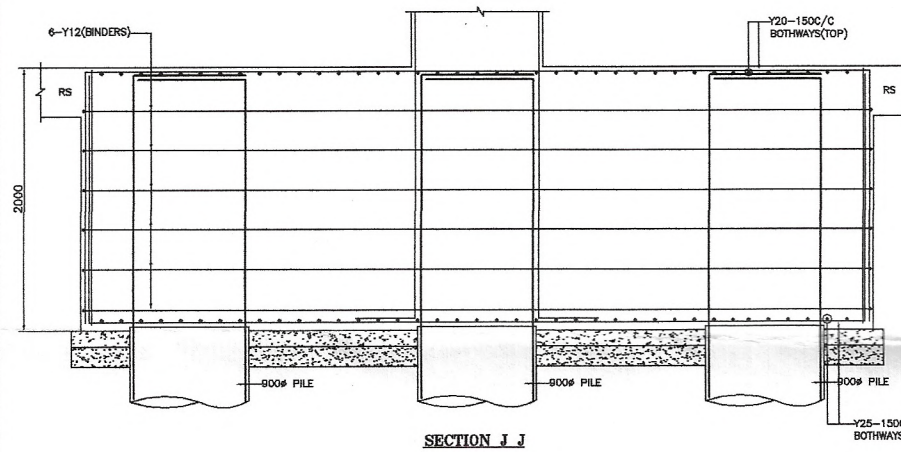
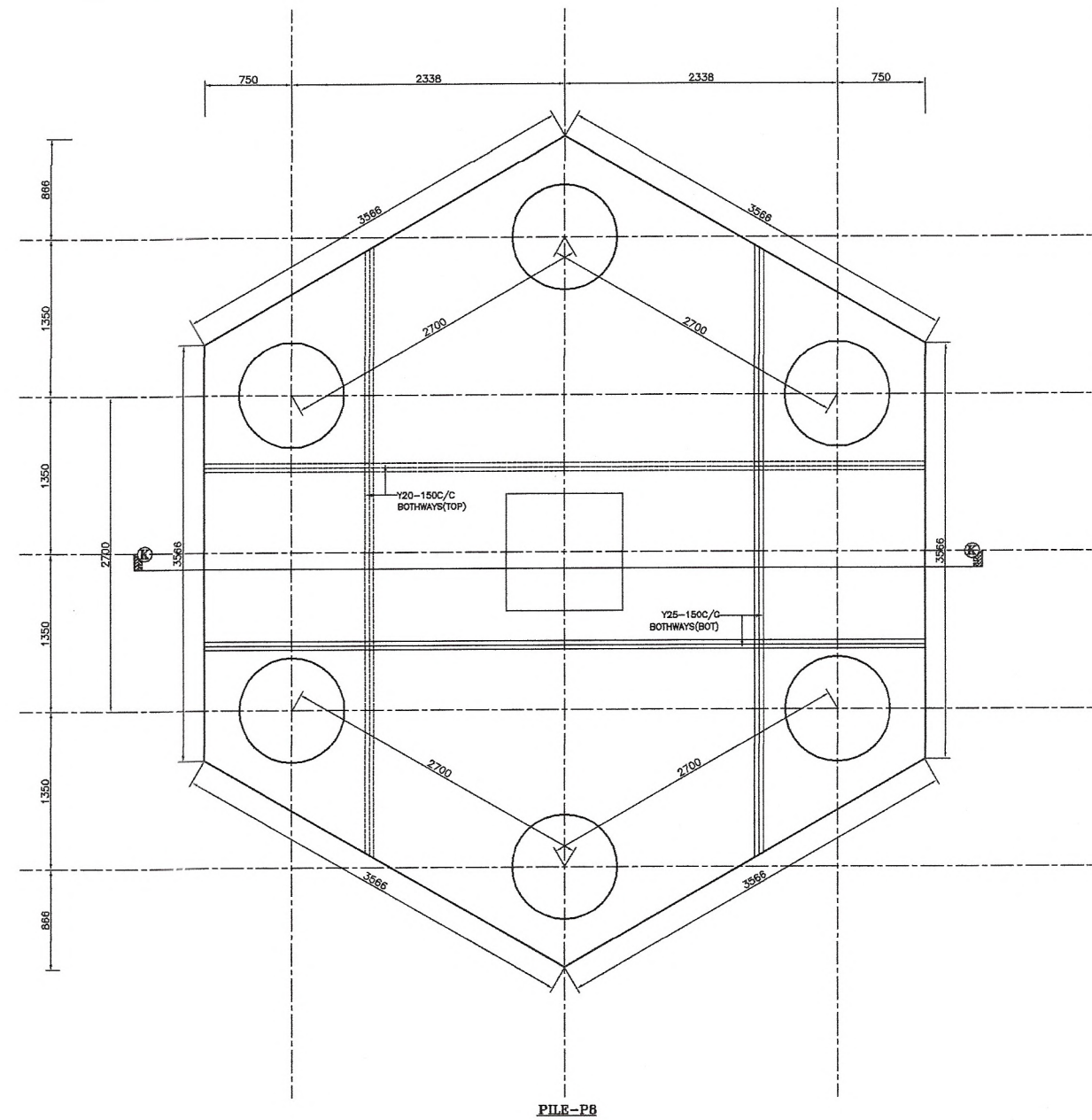
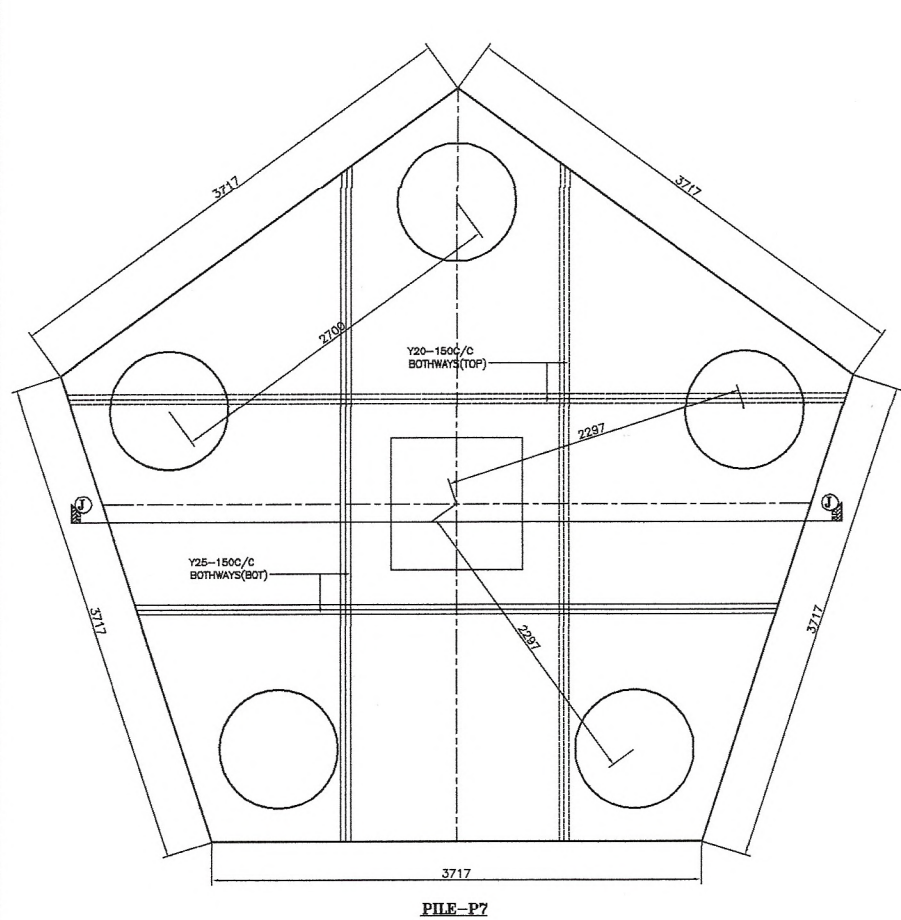
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Y
Z-X



Load 10

C. KANNAN, B.E., M.E, (Structure)
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Notes:-

- This drawing should be read along with architectural drawings.
- Grade of R.C.C. items shall be M40 for column & M35 for all other R.C.C works
Grade of pile elements shall be M30 with minimum cement content 400 kg/m³
- Y Denotes TOR50 Steel conforming to I.S. 1786 - 2008.
Grade - Fe 500
- Clear cover to the main steel
 - 60 for Pile
 - 50 for Pile Cap, Footings, Raft Slabs & Raft Beams.
 - 40 for Columns.
 - 25 for Lintel & Beams.
 - 15 for Sunshade & Slab.
- Lap length shall be 50 d (Max. dia) for all bars.
- Bottom Reinforcement
- Top Reinforcement
- Provide Continuous Chairs to keep the top Reinforcement in position
- Provide Y 8 at 200 as Distribution steel for all top Reinforcement.
- Spacer Bar to be Provided in Between Two Layers Of Reinforcement of Same Dia at Every 1000 C/ C.
- Not more than 40% of Reinforcement shall be Lapped at any particular junction.
- Cantilever props should not be released until the roof is concreted.
- Foundation is designed for Basement+stilt+Ten upper floor only.
- For Earthquake analysis Zone III is taken as per IS : 1893-2016 code.
- 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
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PROJECT
PROPOSED CONSTRUCTION OF HIGH RISE BUILDING WITH EXTENDED B.FLOOR (MEANT FOR PARKING) + STILT FLOOR PART (MEANT FOR MECHANICAL CAR PARKING) CUM G.FLOOR PART + 10 FLOORS FOR COMMERCIAL (OFFICE) USE, AT ABUTTING TNHB MAIN ROAD, SHOPPING COMPLEX SITE NO.12, SHOLINGANALLUR, CHENNAI - 600 119. COMPRISED IN SURVEY NO. 235/26 OF SHOLINGANALLUR VILLAGE, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

FOUNDATION DETAILS

DESIGNED	KANNAN	SCALE	1 : 100
DRAWN	BALAJI	DATE	18-07-2024

STRUCTURAL CONSULTANTS:

C.KANNAN, B.E., M.E. (Structure)
 Structural Engineer,
 CMDA Reg. No: SE/1/2024/2/0047
 Door No: 21, 4th Main Road,
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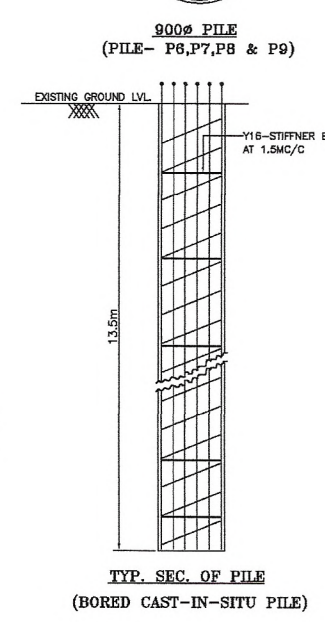
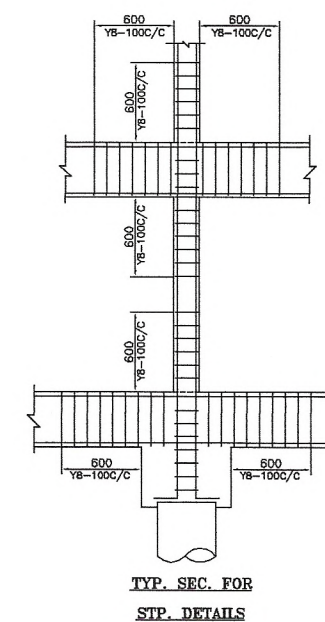
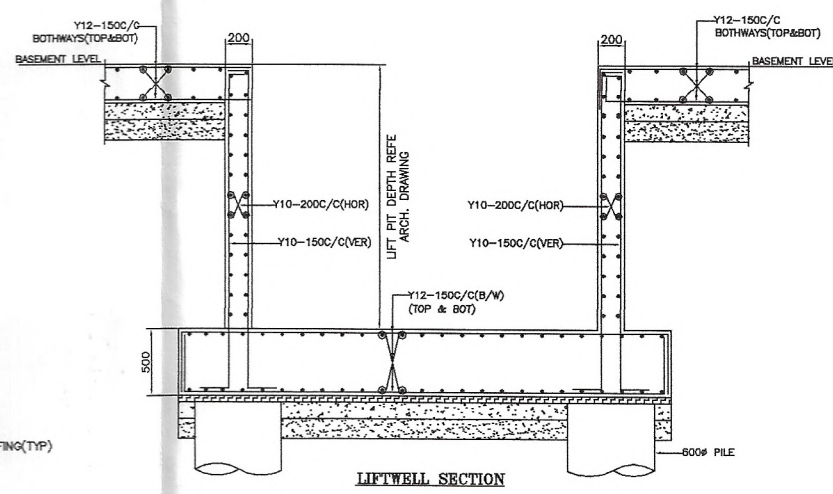
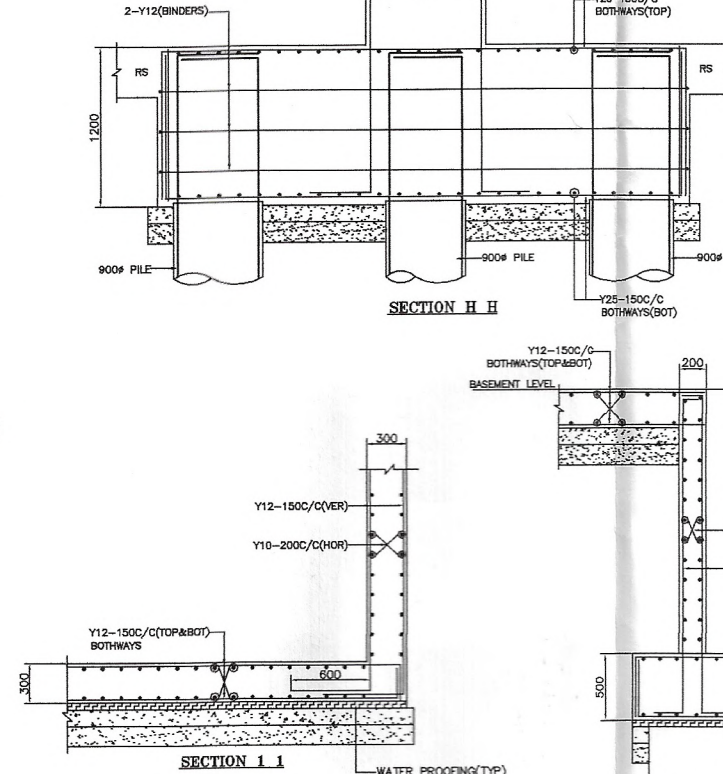
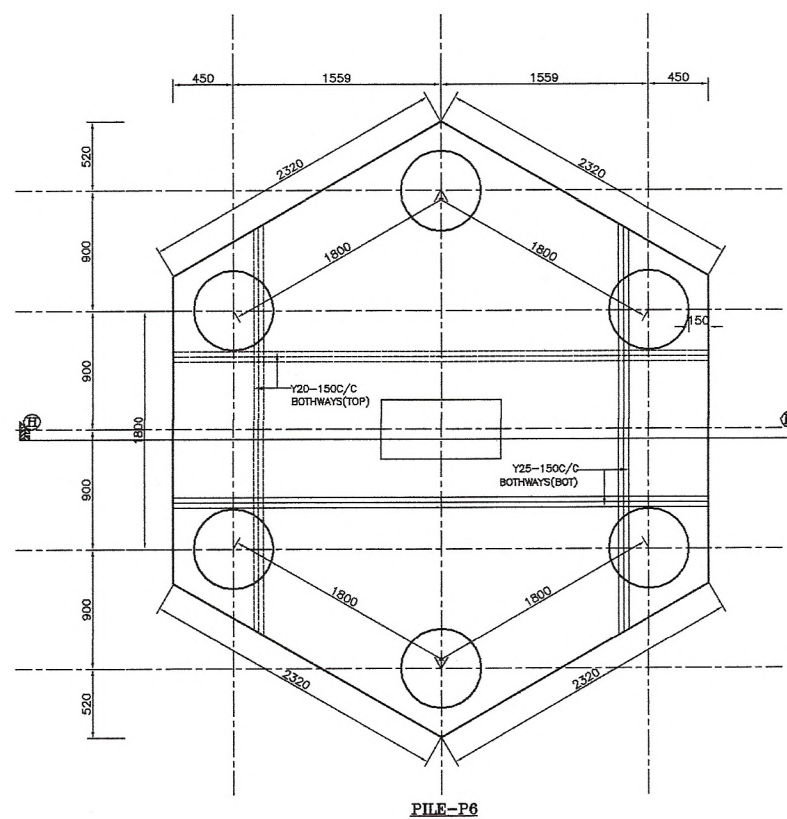
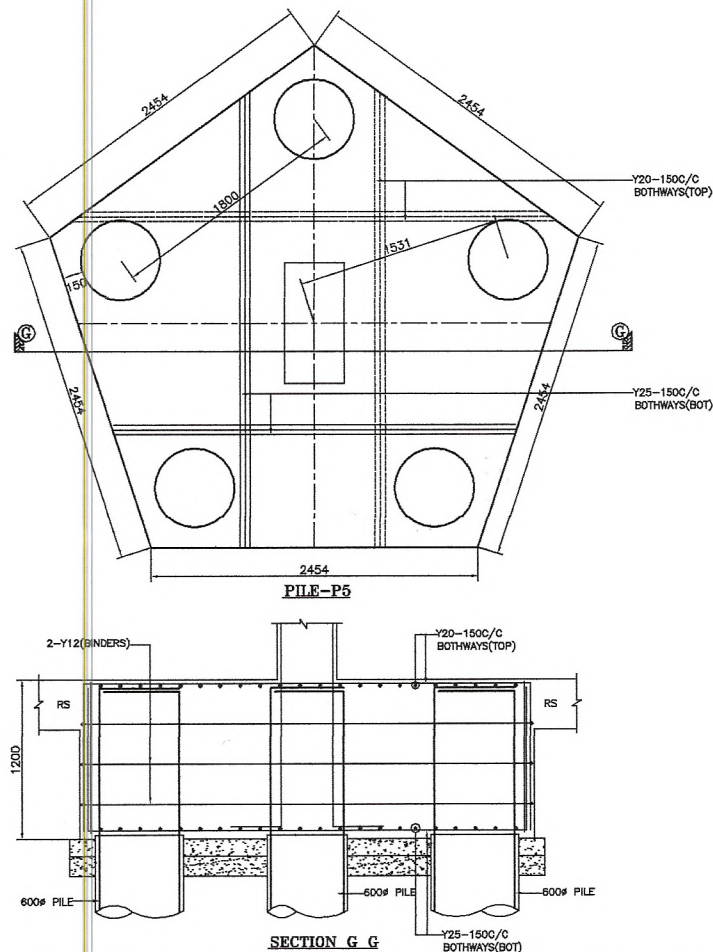
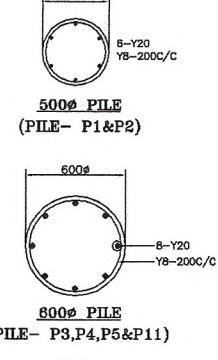
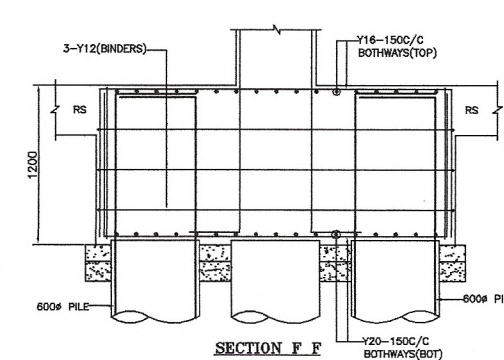
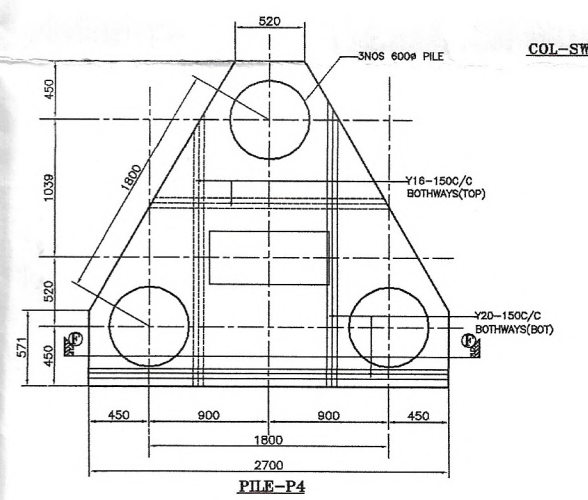
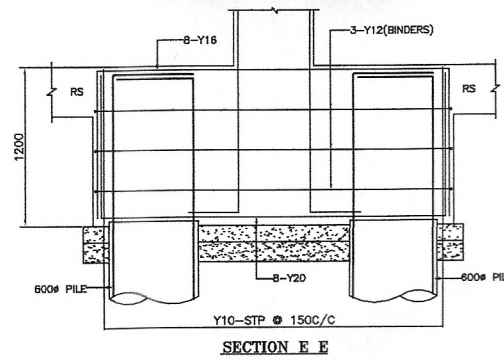
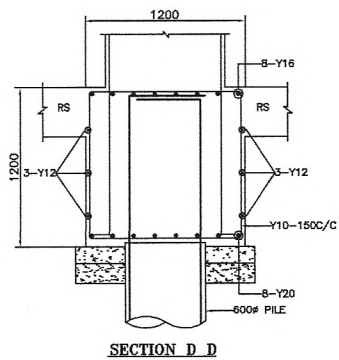
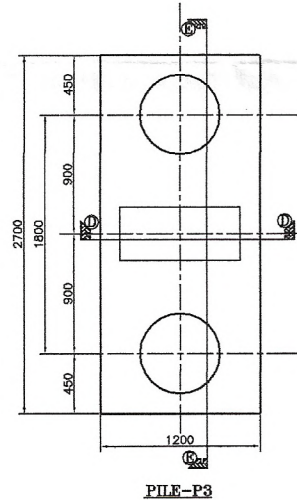
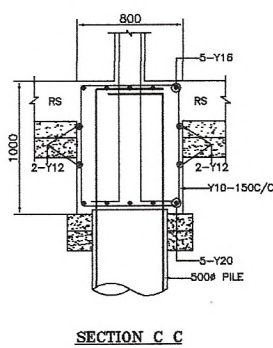
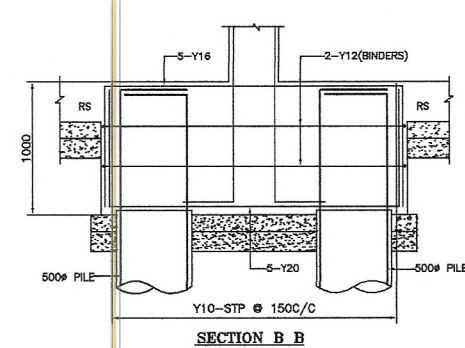
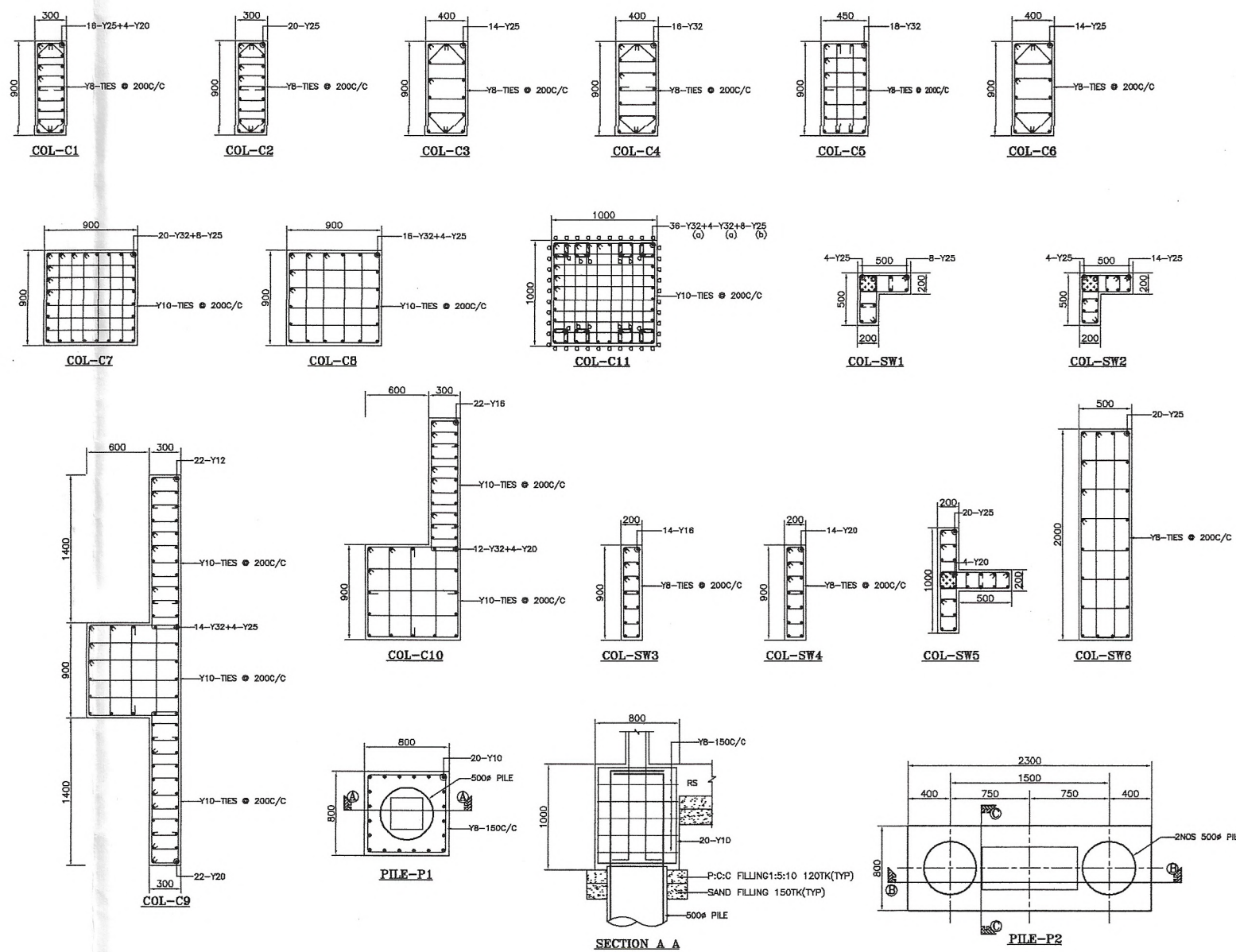
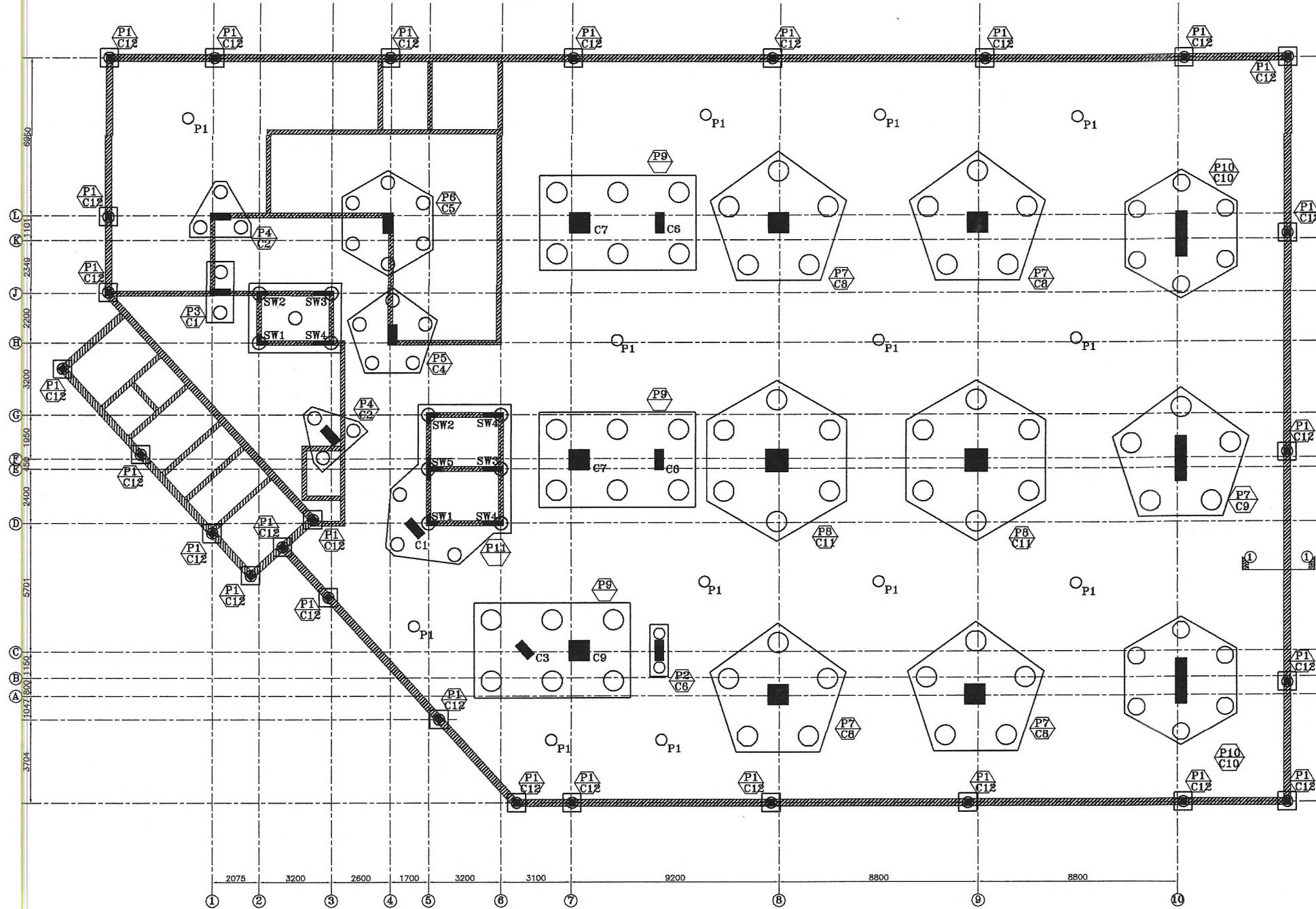
C.KANNAN B.E., M.E.(STRUCTURE)

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:\BALAJI\NVA\ANKUR\NPL_SHOLINGANALLUR



Notes:-

- This drawing should be read along with architectural drawings.
- Grade of R.C.C. items shall be M40 for column & M35 for all other R.C.C. works
Grade of pile elements shall be M30 with minimum cement content 400 kg/m³
- Y Denotes TOR50 Steel conforming to I.S. 1786 - 2008.
Grade - Fe 500
- Clear cover to the main steel
60 for Pile
50 for Pile Cap, Footings, Raft Slabs & Raft Beams.
40 for Columns.
25 for Lintel & Beams.
15 for Sunshade & Slab.
- Lap length shall be 50 d (Max. dia) for all bars.
- Bottom Reinforcement
- Top Reinforcement
- Provide Continuous Chairs to keep the top Reinforcement in position
- Provide Y 8 at 200 as Distribution steel for all top Reinforcement.
- Spacer Bar to be Provided in Between Two Layers Of Reinforcement of Same Dia at Every 1000 C/C.
- Not more than 40% of Reinforcement shall be Lapped at any particular junction.
- Cantilever props should not be released until the roof is concreted.
- Foundation is designed for Basement+stilt+Ten upper floor only.
- For Earthquake analysis Zone III is taken as per IS : 1893-2016 code.
- 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 CONSTRUCTION OF HIGH RISE BUILDING WITH EXTENDED B.FLOOR (MEANT FOR PARKING) + STILT FLOOR PART (MEANT FOR MECHANICAL CAR PARKING) CUM G.FLOOR PART + 10 FLOORS FOR COMMERCIAL (OFFICE) USE, AT ABUTTING TNHB MAIN ROAD, SHOLINGANALLUR, CHENNAI - 600 119. COMPRISED IN SURVEY NO. 235/26 OF SHOLINGANALLUR VILLAGE, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

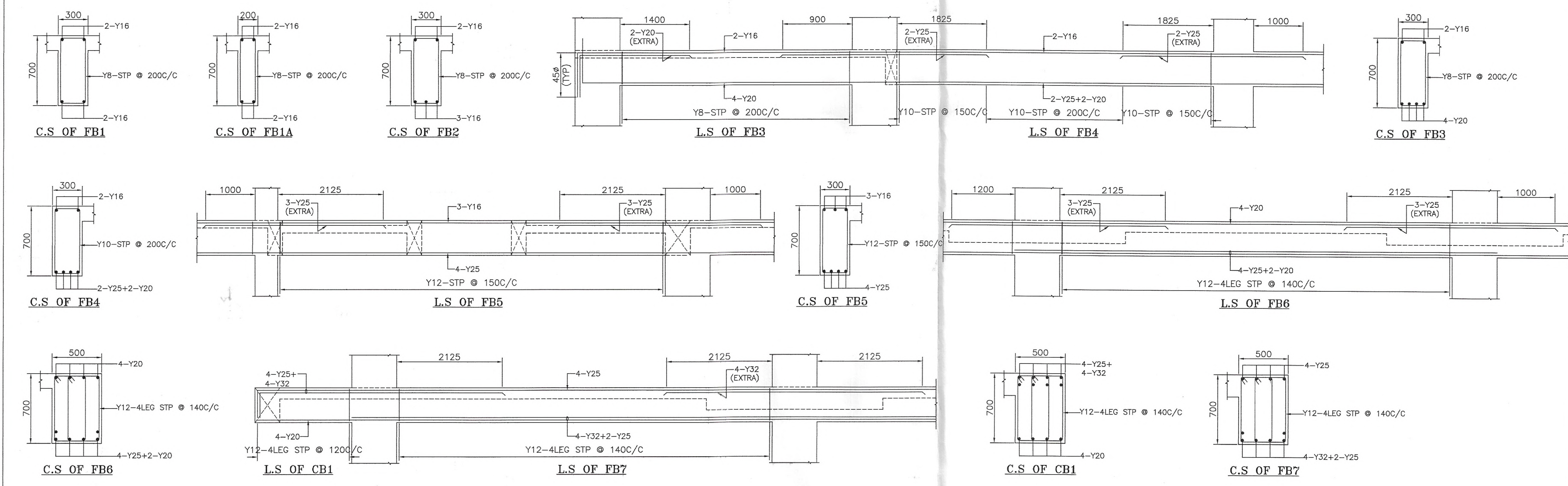
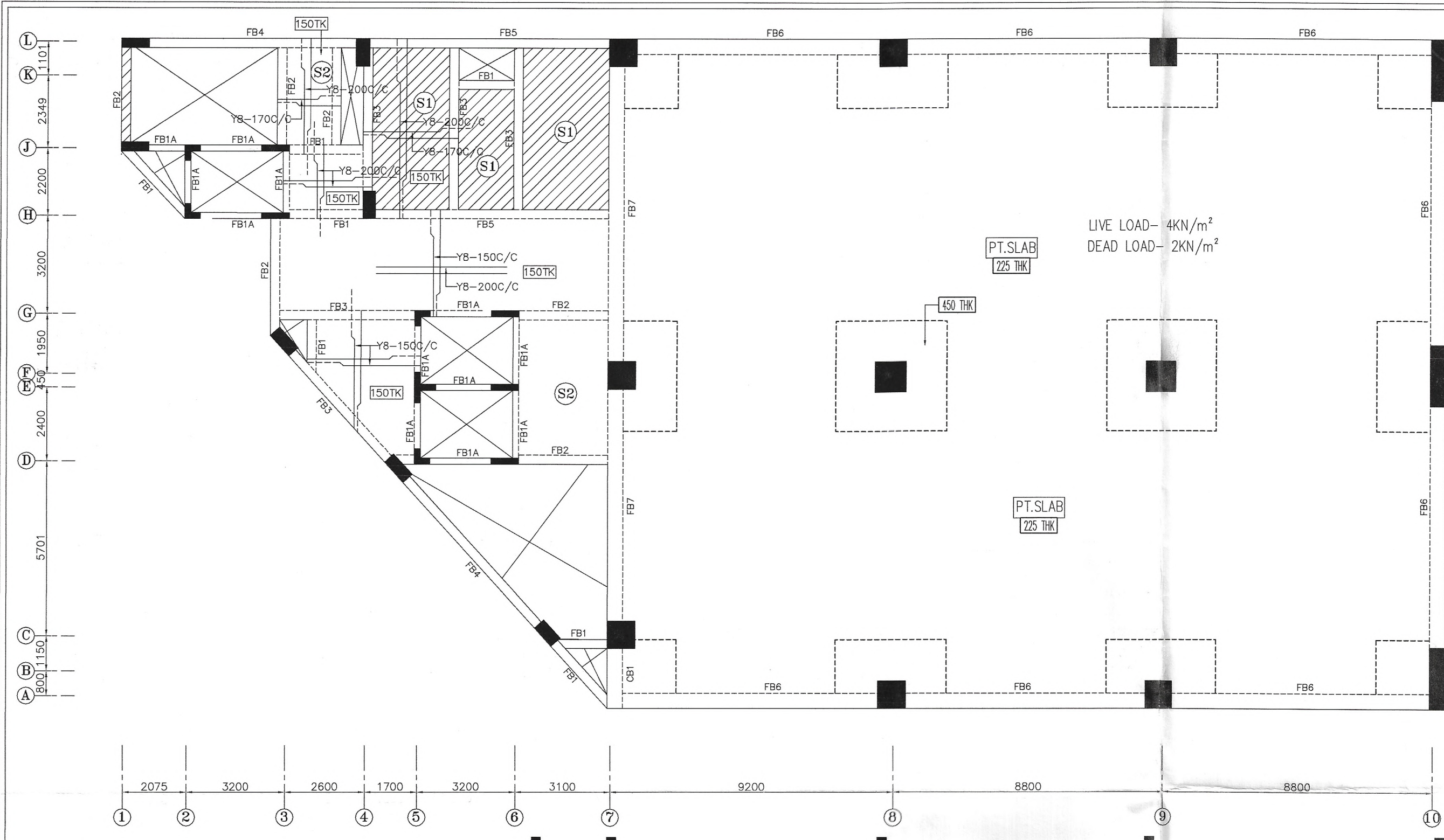
FOUNDATION DETAILS

DESIGNED	KANNAN	SCALE	1 : 100
DRAWN	BALAJI	DATE	18-07-2024

STRUCTURAL CONSULTANTS:

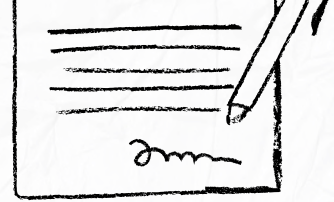
C. KANNAN, B.E., M.E. (Structure)
Structural Engineer,
CMDA Reg. No: SE/1/2024/2/0047
Door No: 21, 4th Main Road,
Indira Nagar, Chennai-600 020.

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:\BALAJI\NVA\ANKUR\NPL SHOLINGANALLUR



- Notes:-
- This drawing should be read along with architectural drawings.
 - Grade of R.C.C. items shall be M40 for column & M35 for all other R.C.C. works
 - Y Denotes TOR50 Steel conforming to I.S. 1786 - 2008.
Grade - Fe 500
 - Clear cover to the main steel
60 for Pile
50 for Pile Cap, Footings, Raft Slabs & Raft Beams.
40 for Columns.
25 for Lintel & Beams.
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 - Removal of formworks :
 - For Slabs :
 - Slabs spanning upto 4.5 m (15'-0") - 7 days
 - Slabs spanning over 4.5 m (15'-0") - 14 days
 - For Beams and Arches :
 - Beams and Arches spanning upto 6 m (20'-0") -14days
 - Beams and Arches spanning over 6 m (20'-0") -21days

R.NO	DATE	DESCRIPTION
PROJECT		
PROPOSED CONSTRUCTION OF HIGH RISE BUILDING WITH EXTENDED B.FLOOR (MEANT FOR PARKING) + STILT FLOOR PART (MEANT FOR MECHANICAL CAR PARKING) CUM G.FLOOR PART + 10 FLOORS FOR COMMERCIAL (OFFICE) USE, AT ABUTTING TNHB MAIN ROAD, SHOPPING COMPLEX SITE NO.12, SHOLINGANALLUR, CHENNAI - 600 119. COMPRISED IN SURVEY NO. 235/26 OF SHOLINGANALLUR VILLAGE, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.		
TYPICAL FLOOR ROOF DETAILS (1st to 10th FLOOR)		
DESIGNED	KANNAN	SCALE 1 : 100
DRAWN	NASURTHEEN	DATE 18-07-2024
STRUCTURAL CONSULTANTS:		
C. KANNAN, B.E., M.E. (Structure) Structural Engineer, CMDA Reg. No: SE/1/2024/2/0047 C. KANNAN, B.E., M.E. (Structure) 21, 4th Main Road, Indira Nagar, Chennai-600 020. 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:\BALAJI\NVA\ANKUR\NPL SHOLINGANALLUR		



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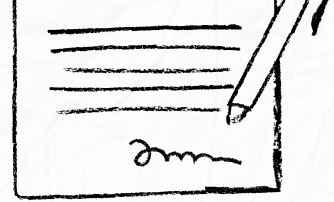
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Chennai, India

hello@verified.realestate
[+91 9996 12 9996](tel:+919996129996)
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