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V.JAGEN
B.E., M.E., (Struct.) M.I.E., A.I.V., M.B.A.
CHARTERED ENGINEER, CONSULTANT
CIVIL & STRUCTURAL., APPROVED VALUER,
CMDA REGN NOS: SE / GR - I / 19 / 03 / 24 , QA / 19 / 04 / 21.
CORPORATION OF CHENNAI , REGN NO: RSE100172019.

FLAT NO:3B, RAMANIYAM GAURAVV 2
BLOCK-2, MODEL SCHOOL ROAD,
SHOLINGANALLUR, CHENNAI –107.
MOBILE : 98412 69154

27.06.2024

CERTIFICATE

IT IS CERTIFIED THAT THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS (18.30M HEIGHT), RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AVAILING PREMIUM FSI AT PLOT NO.224 & 225, 42ND STREET, 8TH SECTOR, K.K.NAGAR, CHENNAI - 600 078 COMPRISED IN OLD S.NOS: 261/1 PART, T.S.NO: 42 & 43, BLOCK NO: 48 OF VIRUGAMBAKKAM VILLAGE, MAMBALAM TALUK, WITHIN THE LIMIT OF GREATER CHENNAI CORPORATION, ZONE - X, DIVISION – 137, IS DESIGNED TO RESIST EARTHQUAKE. CHECK HAS BEEN MADE AND FOUND SAFE AND I HEREBY CERTIFY THAT,

1. The minimum grade of concrete is M25.

2. The design and analysis using the code of practice for loading Standards as per IS-875 Part I to V and seismic force as per code IS 1893, is carried out.

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

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SHOLINGANALLUR, CHENNAI - 600 119.
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CORPORATION OF CHENNAI , REGN NO: RSE100172019.

FLAT NO:3B, RAMANIYAM GAURAVV 2
BLOCK-2, MODEL SCHOOL ROAD,
SHOLINGANALLUR, CHENNAI – 107.
MOBILE : 98412 69154

THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS (18.30M HEIGHT), RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AVAILING PREMIUM FSI AT PLOT NO.224 & 225, 42ND STREET, 8TH SECTOR, K.K.NAGAR, CHENNAI - 600 078 COMPRISED IN OLD S.NOS: 261/1 PART, T.S.NO: 42 & 43, BLOCK NO: 48 OF VIRUGAMBAKKAM VILLAGE, MAMBALAM TALUK, WITHIN THE LIMIT OF GREATER CHENNAI CORPORATION, ZONE - X, DIVISION – 137.

GENERAL NOTE ON STRUCTURAL DESIGN.

1.0 GENERAL.

1.1 DESIGN BASIS

Residential Building having Stilt + 5 Floors.
The design of this building is carried out based on frame analysis using STAAD PRO CONNECT EDITION.

1.2 CODES AND STANDARDS

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

1. I.S. 456 - 2000
2. I.S. 875 - Part I to V
3. I.S.1893 - Part -1: 2016.
4. I.S.13920 : 2016.

2.0 BASIC CIVIL DESIGN LOADS

2.1 DEAD LOADS & LIVE LOADS

Typical slab dead load is calculated as follows

Residential Building

Self weight of slab	=	3 0kN/m²
Floor finish	=	2.0kN/m²
Live load	=	2.0kN/m²
		7.0kN/m²

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3.0 SOIL DETAILS

Based on Soil Test Report Pile foundation is adopted.

4.0 DESIGN METHODS

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

Seismic Zone III load is taken into account for the analysis. The predominant direction of vibration is horizontal. Relevant combination of forces has been taken into account. Ductile detailing of Reinforcement as per I.S.13920 - 2016 is considered.

4.1

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

4.2.1 MINIMUM COVER

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

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

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```
**************************************************
*                                                *
*          STAAD.Pro CONNECT Edition             *
*          Version  22.12.00.142                 *
*          Proprietary Program of                *
*          Bentley Systems, Inc.                 *
*          Date=    JUN 27, 2024                 *
*          Time=    10: 0:38                     *
*                                                *
*  Licensed to: Ramaniyam Real Estates Pvt Ltd   *
**************************************************
```

```
     1. STAAD SPACE
INPUT FILE: F:\Ramaniyam\Ramaniyam stadd\RRE STAAD 2024\Akshayam\Akshayam Seismic.STD
     2. START JOB INFORMATION
     3. ENGINEER DATE 10-JUN-24
     4. *PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS
     5. *(HEIGHT - 18.30M) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS
     6. *AVAILING PREMIUM FSI AT PLOT NO.224 & 225, 42ND STREET, 8TH SECTOR,
     7. *K.K NAGAR, CHENNAI - 600 078. COMPRISED IN OLD S.NO: 261/1 PART,
     8. *T.S.NO: 42 & 43, BLOCK NO: 48 OF VIRUGAMBAKKAM VILLAGE, WITHIN THE
     9. *LIMITS OF GREATER CHENNAI CORPORATION. ZONE :X, DIVISION NO - 137.
    10. END JOB INFORMATION
    11. INPUT WIDTH 79
    12. UNIT METER KN
    13. JOINT COORDINATES
    14. 1 0 0 0; 2 6.39 0 0; 3 9.06 0 0; 4 11.14 0 0; 5 18.08 0 0; 6 16.68 0 3.07
    15. 7 0 0 3.2; 8 6.39 0 3.2; 9 9.06 0 3.2; 10 -1.42 0 6.68; 11 5.28 0 6.68
    16. 12 9.06 0 7.52; 13 11.14 0 7.52; 14 5.28 0 7.965; 15 7.08 0 7.965
    17. 16 -1.42 0 9.95; 17 5.28 0 9.95; 18 7.08 0 9.95; 19 9.06 0 10.8
    18. 20 11.14 0 10.8; 21 16.68 0 10.8; 22 0.1 0 13.25; 23 5.53 0 15.03
    19. 24 11.14 0 15.03; 25 16.68 0 15.03; 26 -1.42 0 16.68; 27 4.36 0 17.96
    20. 28 -0.86 0 23.26; 29 4.36 0 23.26; 30 0 1 0; 31 6.39 1 0; 32 9.06 1 0
    21. 33 11.14 1 0; 34 18.08 1 0; 35 16.68 1 3.07; 36 0 1 3.2; 37 6.39 1 3.2
    22. 38 9.06 1 3.2; 39 -1.42 1 6.68; 40 5.28 1 6.68; 41 9.06 1 7.52
    23. 42 11.14 1 7.52; 43 5.28 1 7.965; 44 7.08 1 7.965; 45 -1.42 1 9.95
    24. 46 5.28 1 9.95; 47 7.08 1 9.95; 48 9.06 1 10.8; 49 11.14 1 10.8
    25. 50 16.68 1 10.8; 51 0.1 1 13.25; 52 5.53 1 15.03; 53 11.14 1 15.03
    26. 54 16.68 1 15.03; 55 -1.42 1 16.68; 56 4.36 1 17.96; 57 -0.86 1 23.26
    27. 58 4.36 1 23.26; 59 0 4.1 0; 60 6.39 4.1 0; 61 9.06 4.1 0; 62 11.14 4.1 0
    28. 63 18.08 4.1 0; 64 16.68 4.1 3.07; 65 0 4.1 3.2; 66 6.39 4.1 3.2
    29. 67 9.06 4.1 3.2; 68 -1.42 4.1 6.68; 69 5.28 4.1 6.68; 70 9.06 4.1 7.52
    30. 71 11.14 4.1 7.52; 72 5.28 4.1 7.965; 73 7.08 4.1 7.965; 74 -1.42 4.1 9.95
    31. 75 5.28 4.1 9.95; 76 7.08 4.1 9.95; 77 9.06 4.1 10.8; 78 11.14 4.1 10.8
    32. 79 16.68 4.1 10.8; 80 0.1 4.1 13.25; 81 5.53 4.1 15.03; 82 11.14 4.1 15.03
    33. 83 16.68 4.1 15.03; 84 -1.42 4.1 16.68; 85 4.36 4.1 17.96; 86 -0.86 4.1 23.26
    34. 87 4.36 4.1 23.26; 88 11.14 1 3.07; 89 9.06 1 3.07; 90 -1.42 1 4.76837E-07
    35. 91 -1.42 1 3.2; 92 4.73 1 3.2; 93 4.73 1 0; 94 4.73 1 0.92; 95 6.39 1 0.92
    36. 96 9.06 1 6.68; 97 6.39 1 6.68; 98 6.39 1 5.16; 99 9.06 1 5.16
    37. 100 -1.42 1 23.26; 101 -1.42 1 17.96; 102 0.1 1 17.96; 103 0.1 1 16.68
    38. 104 -1.42 1 13.25; 105 16.68 1 0; 106 16.68 1 7.52; 107 18.08 1 3.07
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Mobile: 9841269154

39. 108 18.08 1 10.8; 109 18.08 1 15.03; 110 18.08 1 7.52; 111 9.06 1 15.03
40. 112 7.08 1 6.68; 113 5.28 1 15.03; 114 5.28 1 13.25; 115 0.0999998 1 9.95
41. 116 -1.42 4.1 0; 117 -1.42 4.1 3.2; 118 1.11 4.1 3.2; 119 1.11 4.1 0
42. 120 2.94 4.1 3.2; 121 2.94 4.1 0; 122 1.11 4.1 2.02; 123 2.94 4.1 2.02
43. 124 9.06 4.1 6.68; 125 0 4.1 6.68; 126 -1.42 4.1 5.16; 127 0 4.1 5.16
44. 128 0.73 4.1 5.16; 129 0.73 4.1 6.68; 130 6.39 4.1 6.68; 131 5.76 4.1 3.2
45. 132 5.76 4.1 4.06; 133 6.39 4.1 4.06; 134 6.39 4.1 5.16; 135 9.06 4.1 5.16
46. 136 18.08 4.1 3.07; 137 18.08 4.1 10.8; 138 18.08 4.1 15.03
47. 139 16.68 4.1 7.52; 140 18.08 4.1 7.52; 141 12.46 4.1 7.52; 142 12.46 4.1 0
48. 143 12.46 4.1 3.2; 144 9.06 4.1 4.4; 145 12.46 4.1 4.4; 146 9.665 4.1 4.4
49. 147 9.665 4.1 3.2; 148 11.045 4.1 4.4; 149 11.045 4.1 3.2; 150 12.46 4.1 5.42
50. 151 16.68 4.1 5.42; 152 14.2 4.1 7.52; 153 14.2 4.1 5.42; 154 15.095 4.1 7.52
51. 155 15.095 4.1 5.42; 156 14.2 4.1 6.15; 157 15.095 4.1 6.15
52. 158 15.01 4.1 3.07; 159 15.01 4.1 0; 160 12.46 4.1 1.62; 161 15.01 4.1 1.62
53. 162 2.39 4.1 9.95; 163 2.39 4.1 6.68; 164 7.08 4.1 6.68; 165 10.19 4.1 10.8
54. 166 10.19 4.1 7.52; 167 9.06 4.1 9.34; 168 10.19 4.1 9.34; 169 12.61 4.1 10.8
55. 170 15.01 4.1 10.8; 171 15.01 4.1 7.52; 172 12.61 4.1 15.03
56. 173 11.14 4.1 14.47; 174 12.61 4.1 14.47; 175 11.14 4.1 12.03
57. 176 12.61 4.1 12.03; 177 12.61 4.1 13.34; 178 16.68 4.1 13.34
58. 179 15.01 4.1 15.03; 180 15.01 4.1 13.34; 181 16.68 4.1 12.52
59. 182 18.08 4.1 12.52; 183 5.53 4.1 9.95; 184 7.89 4.1 15.03; 186 9.06 4.1 9.95
60. 187 7.89 4.1 9.95; 188 5.53 4.1 13.25; 189 5.53 4.1 11.56; 190 7.89 4.1 11.56
61. 191 -1.42 4.1 13.25; 192 -1.42 4.1 23.26; 193 0.1 4.1 23.26; 194 0.1 4.1 16.68
62. 195 -1.42 4.1 19.03; 196 0.1 4.1 19.03; 197 -1.42 4.1 21.38; 198 0.1 4.1 21.38
63. 199 0.1 4.1 20.01; 200 4.36 4.1 20.01; 201 4.36 4.1 13.25; 202 4.36 4.1 16.68
64. 203 3.13 4.1 20.01; 204 3.13 4.1 16.68; 205 3.13 4.1 13.25; 206 3.13 4.1 15.03
65. 207 4.27 4.1 15.03; 208 4.27 4.1 13.25; 209 4.36 4.1 15.03
66. 210 0.0999992 4.1 9.95; 211 -1.42 4.1 12.52; 212 0.0999998 4.1 12.52
67. 213 16.68 4.1 4.92; 214 18.08 4.1 4.92; 215 0 7.2 0; 216 6.39 7.2 0
68. 217 9.06 7.2 0; 218 11.14 7.2 0; 219 18.08 7.2 0; 220 16.68 7.2 3.07
69. 221 0 7.2 3.2; 222 6.39 7.2 3.2; 223 9.06 7.2 3.2; 224 -1.42 7.2 6.68
70. 225 5.28 7.2 6.68; 226 9.06 7.2 7.52; 227 11.14 7.2 7.52; 228 5.28 7.2 7.965
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72. 233 9.06 7.2 10.8; 234 11.14 7.2 10.8; 235 16.68 7.2 10.8; 236 0.1 7.2 13.25
73. 237 5.53 7.2 15.03; 238 11.14 7.2 15.03; 239 16.68 7.2 15.03
74. 240 -1.42 7.2 16.68; 241 4.36 7.2 17.96; 242 -0.86 7.2 23.26
75. 243 4.36 7.2 23.26; 244 -1.42 7.2 0; 245 -1.42 7.2 3.2; 246 1.11 7.2 3.2
76. 247 1.11 7.2 0; 248 2.94 7.2 3.2; 249 2.94 7.2 0; 250 1.11 7.2 2.02
77. 251 2.94 7.2 2.02; 252 9.06 7.2 6.68; 253 0 7.2 6.68; 254 -1.42 7.2 5.16
78. 255 0 7.2 5.16; 256 0.73 7.2 5.16; 257 0.73 7.2 6.68; 258 6.39 7.2 6.68
79. 259 5.76 7.2 3.2; 260 5.76 7.2 4.06; 261 6.39 7.2 4.06; 262 6.39 7.2 5.16
80. 263 9.06 7.2 5.16; 264 18.08 7.2 3.07; 265 18.08 7.2 10.8; 266 18.08 7.2 15.03
81. 267 16.68 7.2 7.52; 268 18.08 7.2 7.52; 269 12.46 7.2 7.52; 270 12.46 7.2 0
82. 271 12.46 7.2 3.2; 272 9.06 7.2 4.4; 273 12.46 7.2 4.4; 274 9.665 7.2 4.4
83. 275 9.665 7.2 3.2; 276 11.045 7.2 4.4; 277 11.045 7.2 3.2; 278 12.46 7.2 5.42
84. 279 16.68 7.2 5.42; 280 14.2 7.2 7.52; 281 14.2 7.2 5.42; 282 15.095 7.2 7.52
85. 283 15.095 7.2 5.42; 284 14.2 7.2 6.15; 285 15.095 7.2 6.15
86. 286 15.01 7.2 3.07; 287 15.01 7.2 0; 288 12.46 7.2 1.62; 289 15.01 7.2 1.62
87. 290 2.39 7.2 9.95; 291 2.39 7.2 6.68; 292 7.08 7.2 6.68; 293 10.19 7.2 10.8
88. 294 10.19 7.2 7.52; 295 9.06 7.2 9.34; 296 10.19 7.2 9.34; 297 12.61 7.2 10.8
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91. 304 12.61 7.2 12.03; 305 12.61 7.2 13.34; 306 16.68 7.2 13.34
92. 307 15.01 7.2 15.03; 308 15.01 7.2 13.34; 309 16.68 7.2 12.52
93. 310 18.08 7.2 12.52; 311 5.53 7.2 9.95; 312 7.89 7.2 15.03; 313 9.06 7.2 9.95
94. 314 7.89 7.2 9.95; 315 5.53 7.2 13.25; 316 5.53 7.2 11.56; 317 7.89 7.2 11.56

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95. 318 -1.42 7.2 13.25; 319 -1.42 7.2 23.26; 320 0.1 7.2 23.26; 321 0.1 7.2 16.68
96. 322 -1.42 7.2 19.03; 323 0.1 7.2 19.03; 324 -1.42 7.2 21.38; 325 0.1 7.2 21.38
97. 326 0.1 7.2 20.01; 327 4.36 7.2 20.01; 328 4.36 7.2 13.25; 329 4.36 7.2 16.68
98. 330 3.13 7.2 20.01; 331 3.13 7.2 16.68; 332 3.13 7.2 13.25; 333 3.13 7.2 15.03
99. 334 4.27 7.2 15.03; 335 4.27 7.2 13.25; 336 4.36 7.2 15.03
100. 337 0.0999992 7.2 9.95; 338 -1.42 7.2 12.52; 339 0.0999998 7.2 12.52
101. 340 16.68 7.2 4.92; 341 18.08 7.2 4.92; 342 9.06 1 9.95; 343 -1.42 7.2 14.95
102. 344 0.1 7.2 14.95; 345 -1.42 4.1 14.95; 346 0.1 4.1 14.95; 347 0 10.3 0
103. 348 6.39 10.3 0; 349 9.06 10.3 0; 350 11.14 10.3 0; 351 18.08 10.3 0
104. 352 16.68 10.3 3.07; 353 0 10.3 3.2; 354 6.39 10.3 3.2; 355 9.06 10.3 3.2
105. 356 -1.42 10.3 6.68; 357 5.28 10.3 6.68; 358 9.06 10.3 7.52
106. 359 11.14 10.3 7.52; 360 5.28 10.3 7.965; 361 7.08 10.3 7.965
107. 362 -1.42 10.3 9.95; 363 5.28 10.3 9.95; 364 7.08 10.3 9.95
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109. 368 0.1 10.3 13.25; 369 5.53 10.3 15.03; 370 11.14 10.3 15.03
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116. 393 6.39 10.3 4.06; 394 6.39 10.3 5.16; 395 9.06 10.3 5.16
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132. 442 18.08 10.3 12.52; 443 5.53 10.3 9.95; 444 7.89 10.3 15.03
133. 445 9.06 10.3 9.95; 446 7.89 10.3 9.95; 447 5.53 10.3 13.25
134. 448 5.53 10.3 11.56; 449 7.89 10.3 11.56; 450 -1.42 10.3 13.25
135. 451 -1.42 10.3 23.26; 452 0.1 10.3 23.26; 453 0.1 10.3 16.68
136. 454 -1.42 10.3 19.03; 455 0.1 10.3 19.03; 456 -1.42 10.3 21.38
137. 457 0.1 10.3 21.38; 458 0.1 10.3 20.01; 459 4.36 10.3 20.01
138. 460 4.36 10.3 13.25; 461 4.36 10.3 16.68; 462 3.13 10.3 20.01
139. 463 3.13 10.3 16.68; 464 3.13 10.3 13.25; 465 3.13 10.3 15.03
140. 466 4.27 10.3 15.03; 467 4.27 10.3 13.25; 468 4.36 10.3 15.03
141. 469 0.0999992 10.3 9.95; 470 -1.42 10.3 12.52; 471 0.0999998 10.3 12.52
142. 472 16.68 10.3 4.92; 473 18.08 10.3 4.92; 474 -1.42 10.3 14.95
143. 475 0.1 10.3 14.95; 476 0 13.4 0; 477 6.39 13.4 0; 478 9.06 13.4 0
144. 479 11.14 13.4 0; 480 18.08 13.4 0; 481 16.68 13.4 3.07; 482 0 13.4 3.2
145. 483 6.39 13.4 3.2; 484 9.06 13.4 3.2; 485 -1.42 13.4 6.68; 486 5.28 13.4 6.68
146. 487 9.06 13.4 7.52; 488 11.14 13.4 7.52; 489 5.28 13.4 7.965
147. 490 7.08 13.4 7.965; 491 -1.42 13.4 9.95; 492 5.28 13.4 9.95
148. 493 7.08 13.4 9.95; 494 9.06 13.4 10.8; 495 11.14 13.4 10.8
149. 496 16.68 13.4 10.8; 497 0.1 13.4 13.25; 498 5.53 13.4 15.03
150. 499 11.14 13.4 15.03; 500 16.68 13.4 15.03; 501 -1.42 13.4 16.68

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

151. 502 4.36 13.4 17.96; 503 -0.86 13.4 23.26; 504 4.36 13.4 23.26
152. 505 -1.42 13.4 0; 506 -1.42 13.4 3.2; 507 1.11 13.4 3.2; 508 1.11 13.4 0
153. 509 2.94 13.4 3.2; 510 2.94 13.4 0; 511 1.11 13.4 2.02; 512 2.94 13.4 2.02
154. 513 9.06 13.4 6.68; 514 0 13.4 6.68; 515 -1.42 13.4 5.16; 516 0 13.4 5.16
155. 517 0.73 13.4 5.16; 518 0.73 13.4 6.68; 519 6.39 13.4 6.68; 520 5.76 13.4 3.2
156. 521 5.76 13.4 4.06; 522 6.39 13.4 4.06; 523 6.39 13.4 5.16; 524 9.06 13.4 5.16
157. 525 18.08 13.4 3.07; 526 18.08 13.4 10.8; 527 18.08 13.4 15.03
158. 528 16.68 13.4 7.52; 529 18.08 13.4 7.52; 530 12.46 13.4 7.52
159. 531 12.46 13.4 0; 532 12.46 13.4 3.2; 533 9.06 13.4 4.4; 534 12.46 13.4 4.4
160. 535 9.665 13.4 4.4; 536 9.665 13.4 3.2; 537 11.045 13.4 4.4
161. 538 11.045 13.4 3.2; 539 12.46 13.4 5.42; 540 16.68 13.4 5.42
162. 541 14.2 13.4 7.52; 542 14.2 13.4 5.42; 543 15.095 13.4 7.52
163. 544 15.095 13.4 5.42; 545 14.2 13.4 6.15; 546 15.095 13.4 6.15
164. 547 15.01 13.4 3.07; 548 15.01 13.4 0; 549 12.46 13.4 1.62
165. 550 15.01 13.4 1.62; 551 2.39 13.4 9.95; 552 2.39 13.4 6.68
166. 553 7.08 13.4 6.68; 554 10.19 13.4 10.8; 555 10.19 13.4 7.52
167. 556 9.06 13.4 9.34; 557 10.19 13.4 9.34; 558 12.61 13.4 10.8
168. 559 15.01 13.4 10.8; 560 15.01 13.4 7.52; 561 12.61 13.4 15.03
169. 562 11.14 13.4 14.47; 563 12.61 13.4 14.47; 564 11.14 13.4 12.03
170. 565 12.61 13.4 12.03; 566 12.61 13.4 13.34; 567 16.68 13.4 13.34
171. 568 15.01 13.4 15.03; 569 15.01 13.4 13.34; 570 16.68 13.4 12.52
172. 571 18.08 13.4 12.52; 572 5.53 13.4 9.95; 573 7.89 13.4 15.03
173. 574 9.06 13.4 9.95; 575 7.89 13.4 9.95; 576 5.53 13.4 13.25
174. 577 5.53 13.4 11.56; 578 7.89 13.4 11.56; 579 -1.42 13.4 13.25
175. 580 -1.42 13.4 23.26; 581 0.1 13.4 23.26; 582 0.1 13.4 16.68
176. 583 -1.42 13.4 19.03; 584 0.1 13.4 19.03; 585 -1.42 13.4 21.38
177. 586 0.1 13.4 21.38; 587 0.1 13.4 20.01; 588 4.36 13.4 20.01
178. 589 4.36 13.4 13.25; 590 4.36 13.4 16.68; 591 3.13 13.4 20.01
179. 592 3.13 13.4 16.68; 593 3.13 13.4 13.25; 594 3.13 13.4 15.03
180. 595 4.27 13.4 15.03; 596 4.27 13.4 13.25; 597 4.36 13.4 15.03
181. 598 0.0999992 13.4 9.95; 599 -1.42 13.4 12.52; 600 0.0999998 13.4 12.52
182. 601 16.68 13.4 4.92; 602 18.08 13.4 4.92; 603 -1.42 13.4 14.95
183. 604 0.1 13.4 14.95; 605 0 16.5 0; 606 6.39 16.5 0; 607 9.06 16.5 0
184. 608 11.14 16.5 0; 609 18.08 16.5 0; 610 16.68 16.5 3.07; 611 0 16.5 3.2
185. 612 6.39 16.5 3.2; 613 9.06 16.5 3.2; 614 -1.42 16.5 6.68; 615 5.28 16.5 6.68
186. 616 9.06 16.5 7.52; 617 11.14 16.5 7.52; 618 5.28 16.5 7.965
187. 619 7.08 16.5 7.965; 620 -1.42 16.5 9.95; 621 5.28 16.5 9.95
188. 622 7.08 16.5 9.95; 623 9.06 16.5 10.8; 624 11.14 16.5 10.8
189. 625 16.68 16.5 10.8; 626 0.1 16.5 13.25; 627 5.53 16.5 15.03
190. 628 11.14 16.5 15.03; 629 16.68 16.5 15.03; 630 -1.42 16.5 16.68
191. 631 4.36 16.5 17.96; 632 -0.86 16.5 23.26; 633 4.36 16.5 23.26
192. 634 -1.42 16.5 0; 635 -1.42 16.5 3.2; 636 1.11 16.5 3.2; 637 1.11 16.5 0
193. 638 2.94 16.5 3.2; 639 2.94 16.5 0; 640 1.11 16.5 2.02; 641 2.94 16.5 2.02
194. 642 9.06 16.5 6.68; 643 0 16.5 6.68; 644 -1.42 16.5 5.16; 645 0 16.5 5.16
195. 646 0.73 16.5 5.16; 647 0.73 16.5 6.68; 648 6.39 16.5 6.68; 649 5.76 16.5 3.2
196. 650 5.76 16.5 4.06; 651 6.39 16.5 4.06; 652 6.39 16.5 5.16; 653 9.06 16.5 5.16
197. 654 18.08 16.5 3.07; 655 18.08 16.5 10.8; 656 18.08 16.5 15.03
198. 657 16.68 16.5 7.52; 658 18.08 16.5 7.52; 659 12.46 16.5 7.52
199. 660 12.46 16.5 0; 661 12.46 16.5 3.2; 662 9.06 16.5 4.4; 663 12.46 16.5 4.4
200. 664 9.665 16.5 4.4; 665 9.665 16.5 3.2; 666 11.045 16.5 4.4
201. 667 11.045 16.5 3.2; 668 12.46 16.5 5.42; 669 16.68 16.5 5.42
202. 670 14.2 16.5 7.52; 671 14.2 16.5 5.42; 672 15.095 16.5 7.52
203. 673 15.095 16.5 5.42; 674 14.2 16.5 6.15; 675 15.095 16.5 6.15
204. 676 15.01 16.5 3.07; 677 15.01 16.5 0; 678 12.46 16.5 1.62
205. 679 15.01 16.5 1.62; 680 2.39 16.5 9.95; 681 2.39 16.5 6.68
206. 682 7.08 16.5 6.68; 683 10.19 16.5 10.8; 684 10.19 16.5 7.52



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BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

207. 685 9.06 16.5 9.34; 686 10.19 16.5 9.34; 687 12.61 16.5 10.8
208. 688 15.01 16.5 10.8; 689 15.01 16.5 7.52; 690 12.61 16.5 15.03
209. 691 11.14 16.5 14.47; 692 12.61 16.5 14.47; 693 11.14 16.5 12.03
210. 694 12.61 16.5 12.03; 695 12.61 16.5 13.34; 696 16.68 16.5 13.34
211. 697 15.01 16.5 15.03; 698 15.01 16.5 13.34; 699 16.68 16.5 12.52
212. 700 18.08 16.5 12.52; 701 5.53 16.5 9.95; 702 7.89 16.5 15.03
213. 703 9.06 16.5 9.95; 704 7.89 16.5 9.95; 705 5.53 16.5 13.25
214. 706 5.53 16.5 11.56; 707 7.89 16.5 11.56; 708 -1.42 16.5 13.25
215. 709 -1.42 16.5 23.26; 710 0.1 16.5 23.26; 711 0.1 16.5 16.68
216. 712 -1.42 16.5 19.03; 713 0.1 16.5 19.03; 714 -1.42 16.5 21.38
217. 715 0.1 16.5 21.38; 716 0.1 16.5 20.01; 717 4.36 16.5 20.01
218. 718 4.36 16.5 13.25; 719 4.36 16.5 16.68; 720 3.13 16.5 20.01
219. 721 3.13 16.5 16.68; 722 3.13 16.5 13.25; 723 3.13 16.5 15.03
220. 724 4.27 16.5 15.03; 725 4.27 16.5 13.25; 726 4.36 16.5 15.03
221. 727 0.0999992 16.5 9.95; 728 -1.42 16.5 12.52; 729 0.0999998 16.5 12.52
222. 730 16.68 16.5 4.92; 731 18.08 16.5 4.92; 732 -1.42 16.5 14.95
223. 733 0.1 16.5 14.95; 734 0 19.6 0; 735 6.39 19.6 0; 736 9.06 19.6 0
224. 737 11.14 19.6 0; 738 18.08 19.6 0; 739 16.68 19.6 3.07; 740 0 19.6 3.2
225. 741 6.39 19.6 3.2; 742 9.06 19.6 3.2; 743 -1.42 19.6 6.68; 744 5.28 19.6 6.68
226. 745 9.06 19.6 7.52; 746 11.14 19.6 7.52; 747 5.28 19.6 7.965
227. 748 7.08 19.6 7.965; 749 -1.42 19.6 9.95; 750 5.28 19.6 9.95
228. 751 7.08 19.6 9.95; 752 9.06 19.6 10.8; 753 11.14 19.6 10.8
229. 754 16.68 19.6 10.8; 755 0.1 19.6 13.25; 756 5.53 19.6 15.03
230. 757 11.14 19.6 15.03; 758 16.68 19.6 15.03; 759 -1.42 19.6 16.68
231. 760 4.36 19.6 17.96; 761 -0.86 19.6 23.26; 762 4.36 19.6 23.26
232. 763 -1.42 19.6 0; 764 -1.42 19.6 3.2; 765 1.11 19.6 3.2; 766 1.11 19.6 0
233. 767 2.94 19.6 3.2; 768 2.94 19.6 0; 769 1.11 19.6 2.02; 770 2.94 19.6 2.02
234. 771 9.06 19.6 6.68; 772 0 19.6 6.68; 773 -1.42 19.6 5.16; 774 0 19.6 5.16
235. 775 0.73 19.6 5.16; 776 0.73 19.6 6.68; 777 6.39 19.6 6.68; 778 5.76 19.6 3.2
236. 779 5.76 19.6 4.06; 780 6.39 19.6 4.06; 781 6.39 19.6 5.16; 782 9.06 19.6 5.16
237. 783 18.08 19.6 3.07; 784 18.08 19.6 10.8; 785 18.08 19.6 15.03
238. 786 16.68 19.6 7.52; 787 18.08 19.6 7.52; 788 12.46 19.6 7.52
239. 789 12.46 19.6 0; 790 12.46 19.6 3.2; 791 9.06 19.6 4.4; 792 12.46 19.6 4.4
240. 793 9.665 19.6 4.4; 794 9.665 19.6 3.2; 795 11.045 19.6 4.4
241. 796 11.045 19.6 3.2; 797 12.46 19.6 5.42; 798 16.68 19.6 5.42
242. 799 14.2 19.6 7.52; 800 14.2 19.6 5.42; 801 15.095 19.6 7.52
243. 802 15.095 19.6 5.42; 803 14.2 19.6 6.15; 804 15.095 19.6 6.15
244. 805 15.01 19.6 3.07; 806 15.01 19.6 0; 807 12.46 19.6 1.62
245. 808 15.01 19.6 1.62; 809 2.39 19.6 9.95; 810 2.39 19.6 6.68
246. 811 7.08 19.6 6.68; 812 10.19 19.6 10.8; 813 10.19 19.6 7.52
247. 814 9.06 19.6 9.34; 815 10.19 19.6 9.34; 816 12.61 19.6 10.8
248. 817 15.01 19.6 10.8; 818 15.01 19.6 7.52; 819 12.61 19.6 15.03
249. 820 11.14 19.6 14.47; 821 12.61 19.6 14.47; 822 11.14 19.6 12.03
250. 823 12.61 19.6 12.03; 824 12.61 19.6 13.34; 825 16.68 19.6 13.34
251. 826 15.01 19.6 15.03; 827 15.01 19.6 13.34; 828 16.68 19.6 12.52
252. 829 18.08 19.6 12.52; 830 5.53 19.6 9.95; 831 7.89 19.6 15.03
253. 832 9.06 19.6 9.95; 833 7.89 19.6 9.95; 834 5.53 19.6 13.25
254. 835 5.53 19.6 11.56; 836 7.89 19.6 11.56; 837 -1.42 19.6 13.25
255. 838 -1.42 19.6 23.26; 839 0.1 19.6 23.26; 840 0.1 19.6 16.68
256. 841 -1.42 19.6 19.03; 842 0.1 19.6 19.03; 843 -1.42 19.6 21.38
257. 844 0.1 19.6 21.38; 845 0.1 19.6 20.01; 846 4.36 19.6 20.01
258. 847 4.36 19.6 13.25; 848 4.36 19.6 16.68; 849 3.13 19.6 20.01
259. 850 3.13 19.6 16.68; 851 3.13 19.6 13.25; 852 3.13 19.6 15.03
260. 853 4.27 19.6 15.03; 854 4.27 19.6 13.25; 855 4.36 19.6 15.03
261. 856 0.0999992 19.6 9.95; 857 -1.42 19.6 12.52; 858 0.0999998 19.6 12.52
262. 859 16.68 19.6 4.92; 860 18.08 19.6 4.92; 861 -1.42 19.6 14.95



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263. 862 0.1 19.6 14.95; 863 0 22.7 0; 864 6.39 22.7 0; 865 9.06 22.7 0
264. 866 0 22.7 3.2; 867 6.39 22.7 3.2; 868 9.06 22.7 3.2; 869 5.28 22.7 6.68
265. 870 9.06 22.7 7.52; 871 5.28 22.7 7.965; 872 7.08 22.7 7.965
266. 873 5.28 22.7 9.95; 874 7.08 22.7 9.95; 875 9.06 22.7 10.8; 876 1.11 22.7 3.2
267. 877 1.11 22.7 0; 878 2.94 22.7 3.2; 879 2.94 22.7 0; 882 9.06 22.7 6.68
268. 883 6.39 22.7 6.68; 884 5.76 22.7 3.2; 885 6.39 22.7 4.06; 886 6.39 22.7 5.16
269. 887 9.06 22.7 5.16; 888 9.06 22.7 4.4; 889 7.08 22.7 6.68; 890 9.06 22.7 9.34
270. 891 5.53 22.7 9.95; 892 9.06 22.7 9.95; 893 7.89 22.7 9.95; 894 11.14 22.7 0
271. 896 11.14 19.6 3.2; 897 11.14 22.7 3.2; 898 5.28 23.9 7.965
272. 899 7.08 23.9 7.965; 900 5.28 23.9 9.95; 901 7.08 23.9 9.95
273. 902 5.53 23.9 9.95; 903 5.28 0.5 9.95; 904 5.28 1.3875 9.95
274. 905 5.28 1.775 9.95; 906 5.28 2.1625 9.95; 907 5.28 2.55 9.95
275. 908 5.28 2.9375 9.95; 909 5.28 3.325 9.95; 910 5.28 3.7125 9.95
276. 911 5.28 4.4875 9.95; 912 5.28 4.875 9.95; 913 5.28 5.2625 9.95
277. 914 5.28 5.65 9.95; 915 5.28 6.0375 9.95; 916 5.28 6.425 9.95
278. 917 5.28 6.8125 9.95; 918 5.28 7.5875 9.95; 919 5.28 7.975 9.95
279. 920 5.28 8.3625 9.95; 921 5.28 8.75 9.95; 922 5.28 9.1375 9.95
280. 923 5.28 9.525 9.95; 924 5.28 9.9125 9.95; 925 5.28 10.6875 9.95
281. 926 5.28 11.075 9.95; 927 5.28 11.4625 9.95; 928 5.28 11.85 9.95
282. 929 5.28 12.2375 9.95; 930 5.28 12.625 9.95; 931 5.28 13.0125 9.95
283. 932 5.28 13.7875 9.95; 933 5.28 14.175 9.95; 934 5.28 14.5625 9.95
284. 935 5.28 14.95 9.95; 936 5.28 15.3375 9.95; 937 5.28 15.725 9.95
285. 938 5.28 16.1125 9.95; 939 5.28 16.8875 9.95; 940 5.28 17.275 9.95
286. 941 5.28 17.6625 9.95; 942 5.28 18.05 9.95; 943 5.28 18.4375 9.95
287. 944 5.28 18.825 9.95; 945 5.28 19.2125 9.95; 946 5.28 19.9875 9.95
288. 947 5.28 20.375 9.95; 948 5.28 20.7625 9.95; 949 5.28 21.15 9.95
289. 950 5.28 21.5375 9.95; 951 5.28 21.925 9.95; 952 5.28 22.3125 9.95
290. 953 5.28 23 9.95; 954 5.28 23.3 9.95; 955 5.28 23.6 9.95; 956 5.405 23.9 9.95
291. 957 5.9175 23.9 9.95; 958 6.305 23.9 9.95; 959 6.6925 23.9 9.95
292. 960 7.08 23.6 9.95; 961 7.08 23.3 9.95; 962 7.08 23 9.95
293. 963 7.08 22.3125 9.95; 964 7.08 21.925 9.95; 965 7.08 21.5375 9.95
294. 966 7.08 21.15 9.95; 967 7.08 20.7625 9.95; 968 7.08 20.375 9.95
295. 969 7.08 19.9875 9.95; 970 7.08 19.2125 9.95; 971 7.08 18.825 9.95
296. 972 7.08 18.4375 9.95; 973 7.08 18.05 9.95; 974 7.08 17.6625 9.95
297. 975 7.08 17.275 9.95; 976 7.08 16.8875 9.95; 977 7.08 16.1125 9.95
298. 978 7.08 15.725 9.95; 979 7.08 15.3375 9.95; 980 7.08 14.95 9.95
299. 981 7.08 14.5625 9.95; 982 7.08 14.175 9.95; 983 7.08 13.7875 9.95
300. 984 7.08 13.0125 9.95; 985 7.08 12.625 9.95; 986 7.08 12.2375 9.95
301. 987 7.08 11.85 9.95; 988 7.08 11.4625 9.95; 989 7.08 11.075 9.95
302. 990 7.08 10.6875 9.95; 991 7.08 9.9125 9.95; 992 7.08 9.525 9.95
303. 993 7.08 9.1375 9.95; 994 7.08 8.75 9.95; 995 7.08 8.3625 9.95
304. 996 7.08 7.975 9.95; 997 7.08 7.5875 9.95; 998 7.08 6.8125 9.95
305. 999 7.08 6.425 9.95; 1000 7.08 6.0375 9.95; 1001 7.08 5.65 9.95
306. 1002 7.08 5.2625 9.95; 1003 7.08 4.875 9.95; 1004 7.08 4.4875 9.95
307. 1005 7.08 3.7125 9.95; 1006 7.08 3.325 9.95; 1007 7.08 2.9375 9.95
308. 1008 7.08 2.55 9.95; 1009 7.08 2.1625 9.95; 1010 7.08 1.775 9.95
309. 1011 7.08 1.3875 9.95; 1012 7.08 0.5 9.95; 1013 6.63 0 9.95; 1014 6.18 0 9.95
310. 1015 5.73 0 9.95; 1016 5.73 1 9.95; 1017 6.18 1 9.95; 1018 6.63 1 9.95
311. 1019 5.405 4.1 9.95; 1020 5.9175 4.1 9.95; 1021 6.305 4.1 9.95
312. 1022 6.6925 4.1 9.95; 1023 5.405 7.2 9.95; 1024 5.9175 7.2 9.95
313. 1025 6.305 7.2 9.95; 1026 6.6925 7.2 9.95; 1027 5.405 10.3 9.95
314. 1028 5.9175 10.3 9.95; 1029 6.305 10.3 9.95; 1030 6.6925 10.3 9.95
315. 1031 5.405 13.4 9.95; 1032 5.9175 13.4 9.95; 1033 6.305 13.4 9.95
316. 1034 6.6925 13.4 9.95; 1035 5.405 16.5 9.95; 1036 5.9175 16.5 9.95
317. 1037 6.305 16.5 9.95; 1038 6.6925 16.5 9.95; 1039 5.405 19.6 9.95
318. 1040 5.9175 19.6 9.95; 1041 6.305 19.6 9.95; 1042 6.6925 19.6 9.95

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319. 1043 5.405 22.7 9.95; 1044 5.9175 22.7 9.95; 1045 6.305 22.7 9.95
320. 1046 6.6925 22.7 9.95; 1047 6.33821 23.304 9.95; 1048 5.68647 23.3112 9.95
321. 1049 5.98824 22.0301 9.95; 1050 6.11352 21.15 9.95; 1051 5.98823 20.2641 9.95
322. 1052 5.98772 18.9302 9.95; 1053 6.11338 18.05 9.95; 1054 5.98823 17.1641 9.95
323. 1055 5.97936 15.8313 9.95; 1056 6.04968 14.95 9.95; 1057 5.9767 14.0587 9.95
324. 1058 5.97867 12.7311 9.95; 1059 6.04968 11.85 9.95; 1060 5.97625 10.9586 9.95
325. 1061 5.97867 9.63106 9.95; 1062 6.04968 8.75 9.95; 1063 5.9767 7.85873 9.95
326. 1064 5.97867 6.53106 9.95; 1065 6.04968 5.65 9.95; 1066 5.97625 4.75857 9.95
327. 1067 5.98132 3.43296 9.95; 1068 6.09557 2.57522 9.95; 1069 6.18 1.79693 9.95
328. 1070 6.56484 11.85 9.95; 1071 5.97921 11.4146 9.95; 1072 6.52596 11.0555 9.95
329. 1073 6.20249 9.94748 9.95; 1074 6.52923 9.5433 9.95; 1075 6.60374 21.15 9.95
330. 1076 6.045 20.7146 9.95; 1077 6.53572 20.355 9.95; 1078 6.20012 10.6521 9.95
331. 1079 5.71522 13.0481 9.95; 1080 5.59062 12.6766 9.95
332. 1081 5.64688 23.6139 9.95; 1082 5.47554 23.3035 9.95; 1083 5.7158 22.3479 9.95
333. 1084 6.2029 22.3474 9.95; 1085 5.71011 16.8401 9.95; 1086 5.59062 17.2234 9.95
334. 1087 6.52596 4.85548 9.95; 1088 6.20012 4.45214 9.95; 1089 6.045 18.4854 9.95
335. 1090 5.59062 18.8766 9.95; 1091 5.69554 18.05 9.95; 1092 5.71025 10.6394 9.95
336. 1093 5.59062 11.0234 9.95; 1094 6.18 1.41335 9.95; 1095 6.63 1.78596 9.95
337. 1096 5.73 1.78596 9.95; 1097 6.58779 2.56261 9.95; 1098 6.13779 2.18607 9.95
338. 1099 6.53783 21.9473 9.95; 1100 6.32168 23.0033 9.95
339. 1101 5.99224 23.3057 9.95; 1102 5.64112 23.0028 9.95
340. 1103 5.59062 20.3234 9.95; 1104 5.69561 21.15 9.95; 1105 6.20249 13.0475 9.95
341. 1106 6.52923 12.6433 9.95; 1107 5.71522 6.8481 9.95; 1108 5.59062 6.47664 9.95
342. 1109 5.71011 19.9401 9.95; 1110 6.20012 19.9521 9.95; 1111 6.18 0.5 9.95
343. 1112 5.66484 8.75 9.95; 1113 5.97921 9.18536 9.95; 1114 5.59062 9.57664 9.95
344. 1115 6.20012 16.8521 9.95; 1116 6.56484 14.95 9.95; 1117 5.97921 14.5146 9.95
345. 1118 6.52613 14.1554 9.95; 1119 6.20249 19.2475 9.95
346. 1120 5.71522 19.2481 9.95; 1121 5.71522 16.1481 9.95
347. 1122 5.59062 15.7766 9.95; 1123 6.20249 16.1475 9.95
348. 1124 5.59062 7.92336 9.95; 1125 5.97921 8.31464 9.95; 1126 6.56484 8.75 9.95
349. 1127 6.32168 23.6007 9.95; 1128 6.73117 23.3019 9.95
350. 1129 5.68779 2.56261 9.95; 1130 5.71522 3.7481 9.95; 1131 6.20249 3.74748 9.95
351. 1132 6.53755 18.8474 9.95; 1133 6.53572 17.255 9.95; 1134 5.66484 5.65 9.95
352. 1135 5.59062 4.82336 9.95; 1136 5.97921 5.21464 9.95
353. 1137 5.71025 4.43938 9.95; 1138 6.52925 15.7433 9.95
354. 1139 5.59062 14.1234 9.95; 1140 5.66484 14.95 9.95; 1141 5.70879 7.53989 9.95
355. 1142 6.20012 7.55214 9.95; 1143 6.20249 6.84748 9.95; 1144 6.52923 6.4433 9.95
356. 1145 6.56484 5.65 9.95; 1146 6.045 17.6146 9.95; 1147 6.52613 7.95545 9.95
357. 1148 6.20012 13.7521 9.95; 1149 5.70879 13.7399 9.95; 1150 5.71522 9.9481 9.95
358. 1151 5.59121 21.9765 9.95; 1152 6.60369 18.05 9.95; 1153 5.66484 11.85 9.95
359. 1154 6.53208 3.34581 9.95; 1155 5.97921 6.08536 9.95
360. 1156 5.97921 12.2854 9.95; 1157 6.04556 21.5853 9.95
361. 1158 6.00238 2.99809 9.95; 1159 5.59062 3.37664 9.95
362. 1160 5.97921 15.3854 9.95; 1161 6.53086 11.4376 9.95
363. 1162 6.61663 9.90408 9.95; 1163 6.5636 20.7376 9.95; 1164 6.61464 10.6962 9.95
364. 1165 5.49168 13.0362 9.95; 1166 5.44509 23.617 9.95; 1167 5.95044 22.4715 9.95
365. 1168 5.48077 16.8638 9.95; 1169 6.61464 4.49625 9.95
366. 1170 5.66141 18.4624 9.95; 1171 5.94288 10.5207 9.95; 1172 5.48284 10.661 9.95
367. 1173 6.63 1.3967 9.95; 1174 5.73 1.3967 9.95; 1175 6.60889 2.17429 9.95
368. 1176 6.61979 22.3061 9.95; 1177 5.96285 23.004 9.95; 1178 5.66141 20.7376 9.95
369. 1179 5.95016 13.1716 9.95; 1180 6.61663 13.0041 9.95
370. 1181 5.49168 6.83621 9.95; 1182 5.48077 19.9638 9.95; 1183 6.6196 19.9935 9.95
371. 1184 6.63 0.5 9.95; 1185 5.62867 9.16237 9.95; 1186 5.94241 16.7204 9.95
372. 1187 6.53086 14.5376 9.95; 1188 5.94241 19.8204 9.95
373. 1189 5.95016 19.3716 9.95; 1190 5.48851 16.1368 9.95
374. 1191 5.95016 16.2716 9.95; 1192 5.62867 8.33763 9.95



V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

375. 1193 6.53086 9.16237 9.95; 1194 5.44051 22.9929 9.95
376. 1195 5.95927 23.6103 9.95; 1196 6.70634 23.0013 9.95
377. 1197 5.70889 2.17429 9.95; 1198 5.95016 3.87163 9.95; 1199 6.6196 19.2061 9.95
378. 1200 6.6196 16.8935 9.95; 1201 5.62867 5.23763 9.95; 1202 5.94288 4.32068 9.95
379. 1203 6.6167 16.1041 9.95; 1204 5.62867 14.5376 9.95; 1205 5.94241 7.4204 9.95
380. 1206 6.61663 6.80408 9.95; 1207 6.53086 5.23763 9.95
381. 1208 5.66141 17.6376 9.95; 1209 6.61475 7.59619 9.95
382. 1210 6.61475 13.7962 9.95; 1211 5.94241 13.6204 9.95
383. 1212 5.48073 13.7636 9.95; 1213 5.95016 10.0716 9.95
384. 1214 5.48878 22.3367 9.95; 1215 6.5636 18.4624 9.95; 1216 6.5636 17.6376 9.95
385. 1217 5.62867 11.4376 9.95; 1218 6.61746 3.70495 9.95
386. 1219 5.95016 6.97163 9.95; 1220 6.53086 6.06237 9.95; 1221 5.73 0.5 9.95
387. 1222 6.53086 12.2624 9.95; 1223 6.53086 8.33763 9.95
388. 1224 5.48073 7.56362 9.95; 1225 6.56386 21.5623 9.95; 1226 5.6402 2.96871 9.95
389. 1227 6.53086 15.3624 9.95; 1228 5.48851 19.2368 9.95
390. 1229 5.66169 21.5623 9.95; 1230 5.49168 9.93621 9.95; 1231 5.48284 4.461 9.95
391. 1232 5.62867 6.06237 9.95; 1233 5.62867 15.3624 9.95
392. 1234 6.70634 23.6006 9.95; 1235 5.49168 3.73621 9.95
393. 1236 6.54239 2.96871 9.95; 1237 5.62867 12.2624 9.95; 1238 5.28 0.5 7.965
394. 1239 5.28 1.3875 7.965; 1240 5.28 1.775 7.965; 1241 5.28 2.1625 7.965
395. 1242 5.28 2.55 7.965; 1243 5.28 2.9375 7.965; 1244 5.28 3.325 7.965
396. 1245 5.28 3.7125 7.965; 1246 5.28 4.4875 7.965; 1247 5.28 4.875 7.965
397. 1248 5.28 5.2625 7.965; 1249 5.28 5.65 7.965; 1250 5.28 6.0375 7.965
398. 1251 5.28 6.425 7.965; 1252 5.28 6.8125 7.965; 1253 5.28 7.5875 7.965
399. 1254 5.28 7.975 7.965; 1255 5.28 8.3625 7.965; 1256 5.28 8.75 7.965
400. 1257 5.28 9.1375 7.965; 1258 5.28 9.525 7.965; 1259 5.28 9.9125 7.965
401. 1260 5.28 10.6875 7.965; 1261 5.28 11.075 7.965; 1262 5.28 11.4625 7.965
402. 1263 5.28 11.85 7.965; 1264 5.28 12.2375 7.965; 1265 5.28 12.625 7.965
403. 1266 5.28 13.0125 7.965; 1267 5.28 13.7875 7.965; 1268 5.28 14.175 7.965
404. 1269 5.28 14.5625 7.965; 1270 5.28 14.95 7.965; 1271 5.28 15.3375 7.965
405. 1272 5.28 15.725 7.965; 1273 5.28 16.1125 7.965; 1274 5.28 16.8875 7.965
406. 1275 5.28 17.275 7.965; 1276 5.28 17.6625 7.965; 1277 5.28 18.05 7.965
407. 1278 5.28 18.4375 7.965; 1279 5.28 18.825 7.965; 1280 5.28 19.2125 7.965
408. 1281 5.28 19.9875 7.965; 1282 5.28 20.375 7.965; 1283 5.28 20.7625 7.965
409. 1284 5.28 21.15 7.965; 1285 5.28 21.5375 7.965; 1286 5.28 21.925 7.965
410. 1287 5.28 22.3125 7.965; 1288 5.28 23 7.965; 1289 5.28 23.3 7.965
411. 1290 5.28 23.6 7.965; 1291 5.28 23.9 8.46125; 1292 5.28 23.9 8.9575
412. 1293 5.28 23.9 9.45375; 1294 5.28 0 9.45375; 1295 5.28 0 8.9575
413. 1296 5.28 0 8.46125; 1297 5.28 1 9.45375; 1298 5.28 1 8.9575
414. 1299 5.28 1 8.46125; 1300 5.28 4.1 9.45375; 1301 5.28 4.1 8.9575
415. 1302 5.28 4.1 8.46125; 1303 5.28 7.2 9.45375; 1304 5.28 7.2 8.9575
416. 1305 5.28 7.2 8.46125; 1306 5.28 10.3 9.45375; 1307 5.28 10.3 8.9575
417. 1308 5.28 10.3 8.46125; 1309 5.28 13.4 9.45375; 1310 5.28 13.4 8.9575
418. 1311 5.28 13.4 8.46125; 1312 5.28 16.5 9.45375; 1313 5.28 16.5 8.9575
419. 1314 5.28 16.5 8.46125; 1315 5.28 19.6 9.45375; 1316 5.28 19.6 8.9575
420. 1317 5.28 19.6 8.46125; 1318 5.28 22.7 9.45375; 1319 5.28 22.7 8.9575
421. 1320 5.28 22.7 8.46125; 1321 5.28 20.39 8.95641; 1322 5.28 18.8149 8.9575
422. 1323 5.28 17.2851 8.9575; 1324 5.28 15.7149 8.9575; 1325 5.28 14.1851 8.9575
423. 1326 5.28 12.6149 8.9575; 1327 5.28 11.0851 8.9575; 1328 5.28 9.51486 8.9575
424. 1329 5.28 7.98514 8.9575; 1330 5.28 6.41486 8.9575; 1331 5.28 4.88514 8.9575
425. 1332 5.28 3.31533 8.9575; 1333 5.28 1.79059 8.95748; 1334 5.28 23.2999 8.96229
426. 1335 5.28 2.55325 8.95751; 1336 5.28 11.85 8.95749; 1337 5.28 5.65 8.95749
427. 1338 5.28 14.95 8.95749; 1339 5.28 8.75 8.95749; 1340 5.28 18.05 8.95749
428. 1341 5.28 21.1499 8.95634; 1342 5.28 21.9114 8.95726; 1343 5.28 0.5 8.9575
429. 1344 5.28 8.75 8.46124; 1345 5.28 9.13446 8.95736; 1346 5.28 9.52011 8.46091
430. 1347 5.28 11.0805 9.4544; 1348 5.28 10.7024 8.95773; 1349 5.28 1.40601 8.9577

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

431. 1350 5.28 1.78366 8.46077; 1351 5.28 9.89657 8.95749
432. 1352 5.28 9.52015 9.45413; 1353 5.28 12.9966 8.95749
433. 1354 5.28 12.6201 9.45413; 1355 5.28 11.85 8.46124; 1356 5.28 12.2345 8.95736
434. 1357 5.28 12.6201 8.46091; 1358 5.28 14.1799 9.45409
435. 1359 5.28 13.8034 8.95751; 1360 5.28 23.3004 8.44824
436. 1361 5.28 23.5962 8.95899; 1362 5.28 1.78384 9.45456
437. 1363 5.28 23.3009 9.47239; 1364 5.28 17.2805 9.4544; 1365 5.28 16.9024 8.95775
438. 1366 5.28 11.85 9.45374; 1367 5.28 6.03451 8.95758; 1368 5.28 5.65 9.45374
439. 1369 5.28 6.42102 9.45395; 1370 5.28 2.1695 8.95748; 1371 5.28 2.55162 8.46125
440. 1372 5.28 20.3835 9.45393; 1373 5.28 20.0056 8.95718
441. 1374 5.28 17.6655 8.95733; 1375 5.28 18.05 8.46124; 1376 5.28 17.279 8.46104
442. 1377 5.28 21.9166 8.46088; 1378 5.28 22.2952 8.95741
443. 1379 5.28 21.9165 9.45378; 1380 5.28 21.5324 8.95695; 1381 5.28 21.15 9.45317
444. 1382 5.28 15.3345 8.95736; 1383 5.28 14.95 9.45374; 1384 5.28 15.7201 9.45413
445. 1385 5.28 18.4345 8.95736; 1386 5.28 18.8201 8.46091
446. 1387 5.28 14.1799 8.46087; 1388 5.28 8.75 9.45374; 1389 5.28 7.60343 8.95751
447. 1390 5.28 7.97985 8.46087; 1391 5.28 20.768 8.95664; 1392 5.28 23.0015 8.95787
448. 1393 5.28 3.32071 8.46056; 1394 5.28 3.69767 8.95725; 1395 5.28 18.05 9.45374
449. 1396 5.28 18.8201 9.45413; 1397 5.28 15.7201 8.46091
450. 1398 5.28 16.0966 8.95749; 1399 5.28 14.5655 8.95763; 1400 5.28 14.95 8.46124
451. 1401 5.28 7.97989 9.45409; 1402 5.28 4.50343 8.95751
452. 1403 5.28 4.87985 8.46087; 1404 5.28 6.41953 8.4606; 1405 5.28 6.7976 8.95727
453. 1406 5.28 5.26554 8.95763; 1407 5.28 4.87989 9.45409
454. 1408 5.28 2.93584 8.95752; 1409 5.28 2.55162 9.45375; 1410 5.28 3.32123 9.454
455. 1411 5.28 19.1966 8.95749; 1412 5.28 5.65 8.46124; 1413 5.28 11.4655 8.95741
456. 1414 5.28 21.15 8.46067; 1415 5.28 8.36554 8.95763; 1416 5.28 20.3834 8.46039
457. 1417 5.28 11.079 8.46104; 1418 5.28 0.5 9.45375; 1419 5.28 9.1375 8.46125
458. 1420 5.28 10.6974 9.45615; 1421 5.28 1.39803 8.46038
459. 1422 5.28 9.90479 9.45465; 1423 5.28 13.0048 9.45465
460. 1424 5.28 12.2375 8.46125; 1425 5.28 13.7957 9.45467; 1426 5.28 23.593 8.44924
461. 1427 5.28 0.5 8.46125; 1428 5.28 1.39945 9.45617; 1429 5.28 23.5935 9.4689
462. 1430 5.28 16.897 9.45616; 1431 5.28 12.2375 9.45375; 1432 5.28 6.0375 9.45375
463. 1433 5.28 2.16655 8.46094; 1434 5.28 19.9994 9.45576
464. 1435 5.28 17.6625 8.46125; 1436 5.28 22.3039 8.46119
465. 1437 5.28 21.5346 9.45356; 1438 5.28 15.3375 9.45375
466. 1439 5.28 13.0043 8.46033; 1440 5.28 18.4375 8.46125
467. 1441 5.28 16.8944 8.46077; 1442 5.28 13.7952 8.46035; 1443 5.28 9.1375 9.45375
468. 1444 5.28 7.59521 8.46035; 1445 5.28 20.7658 9.4536; 1446 5.28 23.0069 8.44926
469. 1447 5.28 23.0065 9.4668; 1448 5.28 3.70311 8.45868; 1449 5.28 18.4375 9.45375
470. 1450 5.28 16.1043 8.46033; 1451 5.28 14.5625 8.46125
471. 1452 5.28 7.59573 9.45467; 1453 5.28 4.49521 8.46035
472. 1454 5.28 6.80263 8.45885; 1455 5.28 5.2625 9.45375; 1456 5.28 2.93831 9.45375
473. 1457 5.28 2.93831 8.46125; 1458 5.28 19.2043 8.46033; 1459 5.28 6.0363 8.46104
474. 1460 5.28 6.80556 9.45423; 1461 5.28 11.4637 9.45395
475. 1462 5.28 21.5341 8.46041; 1463 5.28 22.3039 9.45369; 1464 5.28 8.3625 9.45375
476. 1465 5.28 9.90427 8.46033; 1466 5.28 19.9962 8.46073
477. 1467 5.28 16.1048 9.45465; 1468 5.28 5.2625 8.46125; 1469 5.28 10.6944 8.46077
478. 1470 5.28 15.3375 8.46125; 1471 5.28 8.3625 8.46125; 1472 5.28 4.49573 9.45467
479. 1473 5.28 19.2048 9.45465; 1474 5.28 11.4625 8.46125
480. 1475 5.28 3.70556 9.45423; 1476 5.28 20.7656 8.46023
481. 1477 5.28 17.6637 9.45395; 1478 5.28 14.5625 9.45375
482. 1479 5.28 2.16688 9.45428; 1480 5.73 23.9 7.965; 1481 6.18 23.9 7.965
483. 1482 6.63 23.9 7.965; 1483 7.08 23.6 7.965; 1484 7.08 23.3 7.965
484. 1485 7.08 23 7.965; 1486 7.08 22.3125 7.965; 1487 7.08 21.925 7.965
485. 1488 7.08 21.5375 7.965; 1489 7.08 21.15 7.965; 1490 7.08 20.7625 7.965
486. 1491 7.08 20.375 7.965; 1492 7.08 19.9875 7.965; 1493 7.08 19.2125 7.965

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487. 1494 7.08 18.825 7.965; 1495 7.08 18.4375 7.965; 1496 7.08 18.05 7.965
488. 1497 7.08 17.6625 7.965; 1498 7.08 17.275 7.965; 1499 7.08 16.8875 7.965
489. 1500 7.08 16.1125 7.965; 1501 7.08 15.725 7.965; 1502 7.08 15.3375 7.965
490. 1503 7.08 14.95 7.965; 1504 7.08 14.5625 7.965; 1505 7.08 14.175 7.965
491. 1506 7.08 13.7875 7.965; 1507 7.08 13.0125 7.965; 1508 7.08 12.625 7.965
492. 1509 7.08 12.2375 7.965; 1510 7.08 11.85 7.965; 1511 7.08 11.4625 7.965
493. 1512 7.08 11.075 7.965; 1513 7.08 10.6875 7.965; 1514 7.08 9.9125 7.965
494. 1515 7.08 9.525 7.965; 1516 7.08 9.1375 7.965; 1517 7.08 8.75 7.965
495. 1518 7.08 8.3625 7.965; 1519 7.08 7.975 7.965; 1520 7.08 7.5875 7.965
496. 1521 7.08 6.8125 7.965; 1522 7.08 6.425 7.965; 1523 7.08 6.0375 7.965
497. 1524 7.08 5.65 7.965; 1525 7.08 5.2625 7.965; 1526 7.08 4.875 7.965
498. 1527 7.08 4.4875 7.965; 1528 7.08 3.7125 7.965; 1529 7.08 3.325 7.965
499. 1530 7.08 2.9375 7.965; 1531 7.08 2.55 7.965; 1532 7.08 2.1625 7.965
500. 1533 7.08 1.775 7.965; 1534 7.08 1.3875 7.965; 1535 7.08 0.5 7.965
501. 1536 6.63 0 7.965; 1537 6.18 0 7.965; 1538 5.73 0 7.965; 1539 5.73 1 7.965
502. 1540 6.18 1 7.965; 1541 6.63 1 7.965; 1542 5.73 4.1 7.965; 1543 6.18 4.1 7.965
503. 1544 6.63 4.1 7.965; 1545 5.73 7.2 7.965; 1546 6.18 7.2 7.965
504. 1547 6.63 7.2 7.965; 1548 5.73 10.3 7.965; 1549 6.18 10.3 7.965
505. 1550 6.63 10.3 7.965; 1551 5.73 13.4 7.965; 1552 6.18 13.4 7.965
506. 1553 6.63 13.4 7.965; 1554 5.73 16.5 7.965; 1555 6.18 16.5 7.965
507. 1556 6.63 16.5 7.965; 1557 5.73 19.6 7.965; 1558 6.18 19.6 7.965
508. 1559 6.63 19.6 7.965; 1560 5.73 22.7 7.965; 1561 6.18 22.7 7.965
509. 1562 6.63 22.7 7.965; 1563 6.1812 23.3001 7.965; 1564 6.18 21.9194 7.965
510. 1565 6.18 21.15 7.965; 1566 6.17999 20.3804 7.965; 1567 6.18001 18.8196 7.965
511. 1568 6.18 18.05 7.965; 1569 6.18 17.2806 7.965; 1570 6.18 15.7194 7.965
512. 1571 6.18 14.95 7.965; 1572 6.18 14.1806 7.965; 1573 6.18 12.6194 7.965
513. 1574 6.18 11.85 7.965; 1575 6.18 11.0806 7.965; 1576 6.18001 9.51972 7.965
514. 1577 6.18 8.75 7.965; 1578 6.17999 7.98036 7.965; 1579 6.18 6.41935 7.965
515. 1580 6.18 5.65 7.965; 1581 6.17999 4.88036 7.965; 1582 6.18 3.32007 7.965
516. 1583 6.18 2.55527 7.965; 1584 6.18 1.78494 7.965; 1585 6.18 0.5 7.965
517. 1586 5.72928 9.52125 7.965; 1587 6.17987 9.90265 7.965
518. 1588 6.63053 11.0781 7.965; 1589 6.18012 10.6974 7.965
519. 1590 6.18 1.39836 7.965; 1591 5.72991 1.7803 7.965; 1592 5.73 8.75 7.965
520. 1593 6.18021 9.13604 7.965; 1594 5.72947 12.6219 7.965
521. 1595 6.17988 13.0026 7.965; 1596 6.17994 11.4642 7.965; 1597 5.73 11.85 7.965
522. 1598 5.72981 11.0767 7.965; 1599 6.63053 14.1781 7.965
523. 1600 6.18012 13.7974 7.965; 1601 5.7198 23.3 7.965; 1602 6.18038 23.5905 7.965
524. 1603 5.72947 21.9219 7.965; 1604 6.17988 22.3026 7.965
525. 1605 6.63009 1.7803 7.965; 1606 6.18 20.764 7.965; 1607 6.63006 20.3759 7.965
526. 1608 6.63 21.15 7.965; 1609 6.63 9.525 7.965; 1610 6.63053 17.2781 7.965
527. 1611 6.18012 16.8974 7.965; 1612 6.63 11.85 7.965; 1613 6.63 5.65 7.965
528. 1614 6.18 5.26402 7.965; 1615 6.63006 4.87588 7.965; 1616 6.18 3.70427 7.965
529. 1617 6.63034 3.32204 7.965; 1618 6.17999 19.203 7.965
530. 1619 6.63009 18.8241 7.965; 1620 6.18001 19.997 7.965
531. 1621 5.72991 20.3759 7.965; 1622 6.63 14.95 7.965; 1623 6.17986 14.564 7.965
532. 1624 6.63029 12.6226 7.965; 1625 6.18004 12.236 7.965
533. 1626 5.72981 17.2767 7.965; 1627 5.72981 14.1767 7.965
534. 1628 6.18001 7.59698 7.965; 1629 5.72991 7.97592 7.965
535. 1630 6.63019 21.9233 7.965; 1631 6.18014 21.536 7.965; 1632 5.73 21.15 7.965
536. 1633 6.64049 23.2998 7.965; 1634 6.18017 23.0089 7.965
537. 1635 5.72966 3.32204 7.965; 1636 6.18 18.436 7.965; 1637 5.72994 18.8241 7.965
538. 1638 5.73 18.05 7.965; 1639 6.17986 17.664 7.965; 1640 6.63019 15.7233 7.965
539. 1641 6.18014 15.336 7.965; 1642 6.18 8.36402 7.965; 1643 6.63006 7.97588 7.965
540. 1644 6.63 8.75 7.965; 1645 6.18001 4.49698 7.965; 1646 5.72991 4.87592 7.965
541. 1647 5.72947 6.4219 7.965; 1648 6.17988 6.80263 7.965; 1649 6.18 2.16887 7.965
542. 1650 5.73 2.55264 7.965; 1651 6.18 2.94014 7.965; 1652 6.63 2.55264 7.965

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

543. 1653 6.18004 6.03598 7.965; 1654 6.63029 6.42263 7.965
544. 1655 5.72947 15.7219 7.965; 1656 6.17988 16.1026 7.965; 1657 5.73 5.65 7.965
545. 1658 5.73 14.95 7.965; 1659 6.63 18.05 7.965; 1660 6.63 0.5 7.965
546. 1661 5.72859 9.90682 7.965; 1662 6.63141 10.6932 7.965
547. 1663 5.73 1.39302 7.965; 1664 5.73 9.1375 7.965; 1665 5.72859 13.0068 7.965
548. 1666 5.72995 11.4627 7.965; 1667 6.63141 13.7932 7.965
549. 1668 5.72167 23.5924 7.965; 1669 5.73 0.5 7.965; 1670 5.72859 22.3068 7.965
550. 1671 6.63 1.39302 7.965; 1672 6.63 20.7625 7.965; 1673 6.63057 9.90779 7.965
551. 1674 6.63141 16.8932 7.965; 1675 6.63024 11.4634 7.965; 1676 6.63 5.2625 7.965
552. 1677 6.63 3.70888 7.965; 1678 6.63029 19.2084 7.965
553. 1679 5.72971 19.9916 7.965; 1680 6.63024 14.5634 7.965
554. 1681 6.63 12.2375 7.965; 1682 5.72943 16.8922 7.965
555. 1683 5.72943 13.7922 7.965; 1684 5.72971 7.59164 7.965
556. 1685 6.63057 22.3078 7.965; 1686 5.72976 21.5366 7.965
557. 1687 6.63895 23.5918 7.965; 1688 5.72131 23.0077 7.965
558. 1689 5.72967 3.70831 7.965; 1690 5.73 18.4375 7.965
559. 1691 5.72995 17.6627 7.965; 1692 6.63005 15.3373 7.965; 1693 6.63 8.3625 7.965
560. 1694 5.72971 4.49164 7.965; 1695 5.72859 6.80682 7.965
561. 1696 5.72988 2.16591 7.965; 1697 6.63 2.93882 7.965; 1698 6.63 6.0375 7.965
562. 1699 6.63057 6.80778 7.965; 1700 5.72859 16.1068 7.965
563. 1701 6.63926 23.0074 7.965; 1702 5.73 6.0375 7.965; 1703 5.72995 14.5627 7.965
564. 1704 5.72943 10.6922 7.965; 1705 6.63058 19.9923 7.965
565. 1706 6.63057 16.1078 7.965; 1707 6.63058 7.59228 7.965
566. 1708 6.63024 17.6634 7.965; 1709 6.63005 21.5373 7.965; 1710 5.73 8.3625 7.965
567. 1711 5.72942 19.2077 7.965; 1712 6.63057 13.0078 7.965
568. 1713 5.72976 15.3366 7.965; 1714 6.63 18.4375 7.965; 1715 6.63 9.1375 7.965
569. 1716 6.63058 4.49228 7.965; 1717 5.73 20.7625 7.965; 1718 5.73 12.2375 7.965
570. 1719 6.63 2.16568 7.965; 1720 5.73 5.2625 7.965; 1721 5.73 2.93882 7.965
571. 1722 5.68 4.1 15.03; 1723 5.68 7.2 15.03; 1724 5.68 10.3 15.03
572. 1725 5.68 13.4 15.03; 1726 5.68 16.5 15.03; 1727 5.68 19.6 15.03
573. MEMBER INCIDENCES
574. 1 1 30; 2 2 31; 3 3 32; 4 4 33; 5 5 34; 6 6 35; 7 7 36; 8 8 37; 9 9 38
575. 10 10 39; 11 11 40; 12 12 41; 13 13 42; 16 16 45; 19 19 48; 20 20 49; 21 21 50
576. 22 22 51; 23 23 52; 24 24 53; 25 25 54; 26 26 55; 27 27 56; 28 28 57; 29 29 58
577. 30 30 59; 31 31 60; 32 32 61; 33 33 62; 34 34 63; 35 35 64; 36 36 65; 37 37 66
578. 38 38 67; 39 39 68; 40 40 69; 41 41 70; 42 42 71; 45 45 74; 48 48 77; 49 49 78
579. 50 50 79; 51 51 80; 52 52 81; 53 53 82; 54 54 83; 55 55 84; 56 56 85; 57 57 86
580. 58 58 87; 59 30 93; 60 31 32; 61 32 33; 62 33 105; 63 36 92; 64 42 88
581. 65 88 33; 66 88 35; 67 41 96; 68 38 89; 69 89 32; 70 89 88; 71 41 42
582. 72 50 106; 73 39 40; 74 90 30; 75 39 91; 76 91 90; 77 91 36; 78 36 30
583. 79 37 95; 80 92 37; 81 93 31; 82 92 94; 83 94 93; 84 95 31; 85 94 95; 87 96 99
584. 88 40 97; 89 97 112; 90 97 98; 91 98 37; 92 99 38; 93 98 99; 94 45 39
585. 95 55 104; 96 58 56; 97 57 58; 98 100 57; 99 100 101; 100 101 55; 101 101 102
586. 102 102 56; 103 51 103; 104 103 102; 105 55 103; 106 104 45; 107 104 51
587. 108 45 115; 110 52 111; 111 53 54; 112 54 50; 113 105 34; 114 35 105
588. 115 53 49; 116 49 42; 117 48 49; 118 49 50; 119 106 35; 120 42 106; 121 54 109
589. 122 50 108; 123 106 110; 124 35 107; 125 109 108; 126 108 110; 127 110 107
590. 128 107 34; 129 48 342; 130 111 53; 131 111 48; 134 44 47; 135 43 40
591. 136 112 96; 137 44 112; 138 113 52; 139 113 114; 140 114 46; 141 51 114
592. 142 56 52; 143 115 46; 144 51 115; 145 59 119; 146 60 61; 147 61 62
593. 148 62 142; 149 68 126; 150 116 59; 151 117 116; 152 117 65; 153 65 118
594. 154 66 60; 155 67 61; 156 118 120; 157 119 121; 158 118 122; 159 120 131
595. 160 121 60; 161 120 123; 162 122 119; 163 123 121; 164 122 123; 165 68 125
596. 166 70 124; 167 124 135; 168 69 130; 169 125 129; 170 125 127; 171 126 117
597. 172 127 65; 173 126 127; 174 127 128; 175 129 163; 176 129 128; 177 130 164
598. 178 130 134; 179 131 66; 180 132 131; 181 133 66; 182 132 133; 183 134 133



V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

599. 184 135 144; 185 134 135; 186 70 166; 187 64 136; 188 138 182; 189 137 140
600. 190 136 63; 191 79 137; 192 83 138; 193 79 139; 194 139 151; 195 71 141
601. 196 140 214; 197 139 140; 198 141 152; 199 142 159; 200 141 150; 201 143 160
602. 202 67 147; 203 144 67; 204 145 143; 205 144 146; 206 146 148; 207 147 149
603. 208 146 147; 209 148 145; 210 149 143; 211 148 149; 212 150 145; 213 151 213
604. 214 150 153; 215 152 171; 216 153 155; 217 152 156; 218 154 139; 219 155 151
605. 220 154 157; 221 156 153; 222 157 155; 223 156 157; 224 158 64; 225 159 63
606. 226 158 161; 227 160 142; 228 161 159; 229 160 161; 230 74 68; 231 74 210
607. 234 72 69; 236 76 73; 237 162 75; 238 163 69; 239 162 163; 240 164 124
608. 241 73 164; 242 77 186; 243 77 165; 244 78 169; 245 165 78; 246 166 71
609. 247 165 168; 248 167 70; 249 168 166; 250 167 168; 251 169 170; 252 170 79
610. 253 171 154; 254 170 171; 255 82 172; 256 83 178; 257 82 173; 258 172 179
611. 259 172 174; 260 173 175; 261 174 177; 262 173 174; 263 175 78; 264 176 169
612. 265 175 176; 266 177 176; 267 178 181; 268 177 180; 269 179 83; 270 180 178
613. 271 179 180; 272 181 79; 273 182 137; 274 181 182; 275 81 1722; 277 81 188
614. 278 184 82; 280 186 167; 281 76 187; 282 187 186; 283 184 190; 284 188 189
615. 285 80 205; 286 189 183; 287 190 187; 288 189 190; 289 84 345; 290 191 211
616. 292 86 193; 293 87 200; 294 192 197; 295 192 86; 296 193 87; 297 193 198
617. 298 194 346; 299 84 194; 300 195 84; 301 196 194; 302 195 196; 303 197 195
618. 304 198 199; 305 197 198; 306 199 196; 307 200 85; 308 199 203; 309 201 188
619. 310 85 202; 312 194 204; 313 203 200; 314 204 202; 315 203 204; 316 205 208
620. 317 204 206; 318 206 205; 319 206 207; 320 207 209; 321 208 201; 322 207 208
621. 323 209 81; 325 210 162; 326 80 212; 327 211 74; 328 212 210; 329 211 212
622. 330 213 64; 331 214 136; 332 213 214; 333 59 215; 334 60 216; 335 61 217
623. 336 62 218; 337 63 219; 338 64 220; 339 65 221; 340 66 222; 341 67 223
624. 342 68 224; 343 69 225; 344 70 226; 345 71 227; 348 74 230; 351 77 233
625. 352 78 234; 353 79 235; 354 80 236; 355 81 237; 356 82 238; 357 83 239
626. 358 84 240; 359 85 241; 360 86 242; 361 87 243; 362 215 247; 363 216 217
627. 364 217 218; 365 218 270; 366 224 254; 367 244 215; 368 245 244; 369 245 221
628. 370 221 246; 371 222 216; 372 223 217; 373 246 248; 374 247 249; 375 246 250
629. 376 248 259; 377 249 216; 378 248 251; 379 250 247; 380 251 249; 381 250 251
630. 382 224 253; 383 226 252; 384 252 263; 385 225 258; 386 253 257; 387 253 255
631. 388 254 245; 389 255 221; 390 254 255; 391 255 256; 392 257 291; 393 257 256
632. 394 258 292; 395 258 262; 396 259 222; 397 260 259; 398 261 222; 399 260 261
633. 400 262 261; 401 263 272; 402 262 263; 403 226 294; 404 220 264; 405 266 310
634. 406 265 268; 407 264 219; 408 235 265; 409 239 266; 412 227 269; 413 268 341
635. 414 267 268; 415 269 280; 416 270 287; 417 269 278; 418 271 288; 419 223 275
636. 420 272 223; 421 273 271; 422 272 274; 423 274 276; 424 275 277; 425 274 275
637. 426 276 273; 427 277 271; 428 276 277; 429 278 273; 430 279 340; 431 278 281
638. 432 280 299; 433 281 283; 434 280 284; 435 282 267; 436 283 279; 437 282 285
639. 438 284 281; 439 285 283; 440 284 285; 441 286 220; 442 287 219; 443 286 289
640. 444 288 270; 445 289 287; 446 288 289; 447 230 224; 448 230 337; 451 228 225
641. 453 232 229; 454 290 231; 455 291 225; 456 290 291; 457 292 252; 458 229 292
642. 459 233 313; 460 233 293; 461 234 297; 462 293 234; 463 294 227; 464 293 296
643. 465 295 226; 466 296 294; 467 295 296; 468 297 298; 469 298 235; 470 299 282
644. 471 298 299; 472 238 300; 474 238 301; 475 300 307; 476 300 302; 477 301 303
645. 478 302 305; 479 301 302; 480 303 234; 481 304 297; 482 303 304; 483 305 304
646. 484 306 309; 485 305 308; 486 307 239; 487 308 306; 488 307 308; 489 309 235
647. 490 310 265; 491 309 310; 492 237 1723; 494 237 315; 495 312 238; 496 313 295
648. 497 232 314; 498 314 313; 499 312 317; 500 315 316; 501 236 332; 502 316 311
649. 503 317 314; 504 316 317; 505 240 343; 506 318 338; 507 242 320; 508 243 327
650. 509 319 324; 510 319 242; 511 320 243; 512 320 325; 513 321 344; 514 240 321
651. 515 322 240; 516 323 321; 517 322 323; 518 324 322; 519 325 326; 520 324 325
652. 521 326 323; 522 327 241; 523 326 330; 524 328 315; 525 241 329; 526 321 331
653. 527 330 327; 528 331 329; 529 330 331; 530 332 335; 531 331 333; 532 333 332
654. 533 333 334; 534 334 336; 535 335 328; 536 334 335; 537 336 237; 539 337 290

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

655. 540 236 339; 541 338 230; 542 339 337; 543 338 339; 544 340 220; 545 341 264
656. 546 340 341; 547 342 41; 548 47 342; 549 343 318; 550 344 236; 551 343 344
657. 552 345 191; 553 346 80; 554 345 346; 555 215 347; 556 216 348; 557 217 349
658. 558 218 350; 559 219 351; 560 220 352; 561 221 353; 562 222 354; 563 223 355
659. 564 224 356; 565 225 357; 566 226 358; 567 227 359; 570 230 362; 573 233 365
660. 574 234 366; 575 235 367; 576 236 368; 577 237 369; 578 238 370; 579 239 371
661. 580 240 372; 581 241 373; 582 242 374; 583 243 375; 584 347 379; 585 348 349
662. 586 349 350; 587 350 402; 588 356 386; 589 376 347; 590 377 376; 591 377 353
663. 592 353 378; 593 354 348; 594 355 349; 595 378 380; 596 379 381; 597 378 382
664. 598 380 391; 599 381 348; 600 380 383; 601 382 379; 602 383 381; 603 382 383
665. 604 356 385; 605 358 384; 606 384 395; 607 357 390; 608 385 389; 609 385 387
666. 610 386 377; 611 387 353; 612 386 387; 613 387 388; 614 389 423; 615 389 388
667. 616 390 424; 617 390 394; 618 391 354; 619 392 391; 620 393 354; 621 392 393
668. 622 394 393; 623 395 404; 624 394 395; 625 358 426; 626 352 396; 627 398 442
669. 628 397 400; 629 396 351; 630 367 397; 631 371 398; 632 359 401; 633 400 473
670. 634 399 400; 635 401 412; 636 402 419; 637 401 410; 638 403 420; 639 355 407
671. 640 404 355; 641 405 403; 642 404 406; 643 406 408; 644 407 409; 645 406 407
672. 646 408 405; 647 409 403; 648 408 409; 649 410 405; 650 411 472; 651 410 413
673. 652 412 431; 653 413 415; 654 412 416; 655 414 399; 656 415 411; 657 414 417
674. 658 416 413; 659 417 415; 660 416 417; 661 418 352; 662 419 351; 663 418 421
675. 664 420 402; 665 421 419; 666 420 421; 667 362 356; 668 362 469; 671 360 357
676. 673 364 361; 674 422 363; 675 423 357; 676 422 423; 677 424 384; 678 361 424
677. 679 365 445; 680 365 425; 681 366 429; 682 425 366; 683 426 359; 684 425 428
678. 685 427 358; 686 428 426; 687 427 428; 688 429 430; 689 430 367; 690 431 414
679. 691 430 431; 692 370 432; 693 370 433; 694 432 439; 695 432 434; 696 433 435
680. 697 434 437; 698 433 434; 699 435 366; 700 436 429; 701 435 436; 702 437 436
681. 703 438 441; 704 437 440; 705 439 371; 706 440 438; 707 439 440; 708 441 367
682. 709 442 397; 710 441 442; 711 369 1724; 713 369 447; 714 444 370; 715 445 427
683. 716 364 446; 717 446 445; 718 444 449; 719 447 448; 720 368 464; 721 448 443
684. 722 449 446; 723 448 449; 724 372 474; 725 450 470; 726 374 452; 727 375 459
685. 728 451 456; 729 451 374; 730 452 375; 731 452 457; 732 453 475; 733 372 453
686. 734 454 372; 735 455 453; 736 454 455; 737 456 454; 738 457 458; 739 456 457
687. 740 458 455; 741 459 373; 742 458 462; 743 460 447; 744 373 461; 745 453 463
688. 746 462 459; 747 463 461; 748 462 463; 749 464 467; 750 463 465; 751 465 464
689. 752 465 466; 753 466 468; 754 467 460; 755 466 467; 756 468 369; 758 469 422
690. 759 368 471; 760 470 362; 761 471 469; 762 470 471; 763 472 352; 764 473 396
691. 765 472 473; 766 474 450; 767 475 368; 768 474 475; 769 347 476; 770 348 477
692. 771 349 478; 772 350 479; 773 351 480; 774 352 481; 775 353 482; 776 354 483
693. 777 355 484; 778 356 485; 779 357 486; 780 358 487; 781 359 488; 784 362 491
694. 787 365 494; 788 366 495; 789 367 496; 790 368 497; 791 369 498; 792 370 499
695. 793 371 500; 794 372 501; 795 373 502; 796 374 503; 797 375 504; 798 476 508
696. 799 477 478; 800 478 479; 801 479 531; 802 485 515; 803 505 476; 804 506 505
697. 805 506 482; 806 482 507; 807 483 477; 808 484 478; 809 507 509; 810 508 510
698. 811 507 511; 812 509 520; 813 510 477; 814 509 512; 815 511 508; 816 512 510
699. 817 511 512; 818 485 514; 819 487 513; 820 513 524; 821 486 519; 822 514 518
700. 823 514 516; 824 515 506; 825 516 482; 826 515 516; 827 516 517; 828 518 552
701. 829 518 517; 830 519 553; 831 519 523; 832 520 483; 833 521 520; 834 522 483
702. 835 521 522; 836 523 522; 837 524 533; 838 523 524; 839 487 555; 840 481 525
703. 841 527 571; 842 526 529; 843 525 480; 844 496 526; 845 500 527; 846 488 530
704. 847 529 602; 848 528 529; 849 530 541; 850 531 548; 851 530 539; 852 532 549
705. 853 484 536; 854 533 484; 855 534 532; 856 533 535; 857 535 537; 858 536 538
706. 859 535 536; 860 537 534; 861 538 532; 862 537 538; 863 539 534; 864 540 601
707. 865 539 542; 866 541 560; 867 542 544; 868 541 545; 869 543 528; 870 544 540
708. 871 543 546; 872 545 542; 873 546 544; 874 545 546; 875 547 481; 876 548 480
709. 877 547 550; 878 549 531; 879 550 548; 880 549 550; 881 491 485; 882 491 598
710. 885 489 486; 887 493 490; 888 551 492; 889 552 486; 890 551 552; 891 553 513

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

711. 892 490 553; 893 494 574; 894 494 554; 895 495 558; 896 554 495; 897 555 488
712. 898 554 557; 899 556 487; 900 557 555; 901 556 557; 902 558 559; 903 559 496
713. 904 560 543; 905 559 560; 906 499 561; 907 499 562; 908 561 568; 909 561 563
714. 910 562 564; 911 563 566; 912 562 563; 913 564 495; 914 565 558; 915 564 565
715. 916 566 565; 917 567 570; 918 566 569; 919 568 500; 920 569 567; 921 568 569
716. 922 570 496; 923 571 526; 924 570 571; 925 498 1725; 927 498 576; 928 573 499
717. 929 574 556; 930 493 575; 931 575 574; 932 573 578; 933 576 577; 934 497 593
718. 935 577 572; 936 578 575; 937 577 578; 938 501 603; 939 579 599; 940 503 581
719. 941 504 588; 942 580 585; 943 580 503; 944 581 504; 945 581 586; 946 582 604
720. 947 501 582; 948 583 501; 949 584 582; 950 583 584; 951 585 583; 952 586 587
721. 953 585 586; 954 587 584; 955 588 502; 956 587 591; 957 589 576; 958 502 590
722. 959 582 592; 960 591 588; 961 592 590; 962 591 592; 963 593 596; 964 592 594
723. 965 594 593; 966 594 595; 967 595 597; 968 596 589; 969 595 596; 970 597 498
724. 972 598 551; 973 497 600; 974 599 491; 975 600 598; 976 599 600; 977 601 481
725. 978 602 525; 979 601 602; 980 603 579; 981 604 497; 982 603 604; 983 476 605
726. 984 477 606; 985 478 607; 986 479 608; 987 480 609; 988 481 610; 989 482 611
727. 990 483 612; 991 484 613; 992 485 614; 993 486 615; 994 487 616; 995 488 617
728. 998 491 620; 1001 494 623; 1002 495 624; 1003 496 625; 1004 497 626
729. 1005 498 627; 1006 499 628; 1007 500 629; 1008 501 630; 1009 502 631
730. 1010 503 632; 1011 504 633; 1012 605 637; 1013 606 607; 1014 607 608
731. 1015 608 660; 1016 614 644; 1017 634 605; 1018 635 634; 1019 635 611
732. 1020 611 636; 1021 612 606; 1022 613 607; 1023 636 638; 1024 637 639
733. 1025 636 640; 1026 638 649; 1027 639 606; 1028 638 641; 1029 640 637
734. 1030 641 639; 1031 640 641; 1032 614 643; 1033 616 642; 1034 642 653
735. 1035 615 648; 1036 643 647; 1037 643 645; 1038 644 635; 1039 645 611
736. 1040 644 645; 1041 645 646; 1042 647 681; 1043 647 646; 1044 648 682
737. 1045 648 652; 1046 649 612; 1047 650 649; 1048 651 612; 1049 650 651
738. 1050 652 651; 1051 653 662; 1052 652 653; 1053 616 684; 1054 610 654
739. 1055 656 700; 1056 655 658; 1057 654 609; 1058 625 655; 1059 629 656
740. 1060 617 659; 1061 658 731; 1062 657 658; 1063 659 670; 1064 660 677
741. 1065 659 668; 1066 661 678; 1067 613 665; 1068 662 613; 1069 663 661
742. 1070 662 664; 1071 664 666; 1072 665 667; 1073 664 665; 1074 666 663
743. 1075 667 661; 1076 666 667; 1077 668 663; 1078 669 730; 1079 668 671
744. 1080 670 689; 1081 671 673; 1082 670 674; 1083 672 657; 1084 673 669
745. 1085 672 675; 1086 674 671; 1087 675 673; 1088 674 675; 1089 676 610
746. 1090 677 609; 1091 676 679; 1092 678 660; 1093 679 677; 1094 678 679
747. 1095 620 614; 1096 620 727; 1099 618 615; 1101 622 619; 1102 680 621
748. 1103 681 615; 1104 680 681; 1105 682 642; 1106 619 682; 1107 623 703
749. 1108 623 683; 1109 624 687; 1110 683 624; 1111 684 617; 1112 683 686
750. 1113 685 616; 1114 686 684; 1115 685 686; 1116 687 688; 1117 688 625
751. 1118 689 672; 1119 688 689; 1120 628 690; 1121 628 691; 1122 690 697
752. 1123 690 692; 1124 691 693; 1125 692 695; 1126 691 692; 1127 693 624
753. 1128 694 687; 1129 693 694; 1130 695 694; 1131 696 699; 1132 695 698
754. 1133 697 629; 1134 698 696; 1135 697 698; 1136 699 625; 1137 700 655
755. 1138 699 700; 1139 627 1726; 1141 627 705; 1142 702 628; 1143 703 685
756. 1144 622 704; 1145 704 703; 1146 702 707; 1147 705 706; 1148 626 722
757. 1149 706 701; 1150 707 704; 1151 706 707; 1152 630 732; 1153 708 728
758. 1154 632 710; 1155 633 717; 1156 709 714; 1157 709 632; 1158 710 633
759. 1159 710 715; 1160 711 733; 1161 630 711; 1162 712 630; 1163 713 711
760. 1164 712 713; 1165 714 712; 1166 715 716; 1167 714 715; 1168 716 713
761. 1169 717 631; 1170 716 720; 1171 718 705; 1172 631 719; 1173 711 721
762. 1174 720 717; 1175 721 719; 1176 720 721; 1177 722 725; 1178 721 723
763. 1179 723 722; 1180 723 724; 1181 724 726; 1182 725 718; 1183 724 725
764. 1184 726 627; 1186 727 680; 1187 626 729; 1188 728 620; 1189 729 727
765. 1190 728 729; 1191 730 610; 1192 731 654; 1193 730 731; 1194 732 708
766. 1195 733 626; 1196 732 733; 1197 605 734; 1198 606 735; 1199 607 736

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
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3-B, RAMANIYAM GAURAVV - 2
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767. 1200 608 737; 1201 609 738; 1202 610 739; 1203 611 740; 1204 612 741
768. 1205 613 742; 1206 614 743; 1207 615 744; 1208 616 745; 1209 617 746
769. 1212 620 749; 1215 623 752; 1216 624 753; 1217 625 754; 1218 626 755
770. 1219 627 756; 1220 628 757; 1221 629 758; 1222 630 759; 1223 631 760
771. 1224 632 761; 1225 633 762; 1226 734 766; 1227 735 736; 1228 736 737
772. 1229 737 789; 1230 743 773; 1231 763 734; 1232 764 763; 1233 764 740
773. 1234 740 765; 1235 741 735; 1236 742 736; 1237 765 767; 1238 766 768
774. 1239 765 769; 1240 767 778; 1241 768 735; 1242 767 770; 1243 769 766
775. 1244 770 768; 1245 769 770; 1246 743 772; 1247 745 771; 1248 771 782
776. 1249 744 777; 1250 772 776; 1251 772 774; 1252 773 764; 1253 774 740
777. 1254 773 774; 1255 774 775; 1256 776 810; 1257 776 775; 1258 777 811
778. 1259 777 781; 1260 778 741; 1261 779 778; 1262 780 741; 1263 779 780
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780. 1269 785 829; 1270 784 787; 1271 783 738; 1272 754 784; 1273 758 785
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782. 1279 788 797; 1280 790 807; 1281 742 794; 1282 791 742; 1283 792 790
783. 1284 791 793; 1285 793 795; 1286 794 796; 1287 793 794; 1288 795 792
784. 1289 796 896; 1290 795 796; 1291 797 792; 1292 798 859; 1293 797 800
785. 1294 799 818; 1295 800 802; 1296 799 803; 1297 801 786; 1298 802 798
786. 1299 801 804; 1300 803 800; 1301 804 802; 1302 803 804; 1303 805 739
787. 1304 806 738; 1305 805 808; 1306 807 789; 1307 808 806; 1308 807 808
788. 1309 749 743; 1310 749 856; 1313 747 744; 1315 751 748; 1316 809 750
789. 1317 810 744; 1318 809 810; 1319 811 771; 1320 748 811; 1321 752 832
790. 1322 752 812; 1323 753 816; 1324 812 753; 1325 813 746; 1326 812 815
791. 1327 814 745; 1328 815 813; 1329 814 815; 1330 816 817; 1331 817 754
792. 1332 818 801; 1333 817 818; 1334 757 819; 1335 757 820; 1336 819 826
793. 1337 819 821; 1338 820 822; 1339 821 824; 1340 820 821; 1341 822 753
794. 1342 823 816; 1343 822 823; 1344 824 823; 1345 825 828; 1346 824 827
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796. 1352 828 829; 1353 756 1727; 1355 756 834; 1356 831 757; 1357 832 814
797. 1358 751 833; 1359 833 832; 1360 831 836; 1361 834 835; 1362 755 851
798. 1363 835 830; 1364 836 833; 1365 835 836; 1366 759 861; 1367 837 857
799. 1368 761 839; 1369 762 846; 1370 838 843; 1371 838 761; 1372 839 762
800. 1373 839 844; 1374 840 862; 1375 759 840; 1376 841 759; 1377 842 840
801. 1378 841 842; 1379 843 841; 1380 844 845; 1381 843 844; 1382 845 842
802. 1383 846 760; 1384 845 849; 1385 847 834; 1386 760 848; 1387 840 850
803. 1388 849 846; 1389 850 848; 1390 849 850; 1391 851 854; 1392 850 852
804. 1393 852 851; 1394 852 853; 1395 853 855; 1396 854 847; 1397 853 854
805. 1398 855 756; 1400 856 809; 1401 755 858; 1402 857 749; 1403 858 856
806. 1404 857 858; 1405 859 739; 1406 860 783; 1407 859 860; 1408 861 837
807. 1409 862 755; 1410 861 862; 1411 734 863; 1412 735 864; 1413 736 865
808. 1414 740 866; 1415 741 867; 1416 742 868; 1417 744 869; 1418 745 870
809. 1422 752 875; 1423 863 877; 1424 864 865; 1425 866 876; 1426 867 864
810. 1427 868 865; 1428 876 878; 1429 877 879; 1431 878 884; 1432 879 864
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812. 1442 884 867; 1443 885 867; 1444 886 885; 1445 887 888; 1446 886 887
813. 1447 888 868; 1450 871 869; 1452 874 872; 1453 889 882; 1454 872 889
814. 1455 875 892; 1456 890 870; 1458 892 890; 1459 874 893; 1460 893 892
815. 1461 866 863; 1462 139 267; 1463 181 309; 1464 213 340; 1465 267 399
816. 1466 309 441; 1467 340 472; 1468 399 528; 1469 441 570; 1470 472 601
817. 1471 528 657; 1472 570 699; 1473 601 730; 1474 657 786; 1475 699 828
818. 1476 730 859; 1477 737 894; 1479 865 894; 1482 876 877; 1483 896 790
819. 1484 896 897; 1485 868 897; 1486 897 894; 1496 901 899; 2590 1722 184
820. 2591 202 1722; 2592 1723 312; 2593 329 1723; 2594 1724 444; 2595 461 1724
821. 2596 1725 573; 2597 590 1725; 2598 1726 702; 2599 719 1726; 2600 1727 831
822. 2601 848 1727

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823. ELEMENT INCIDENCES SHELL
824. 1639 1161 1070 987 988; 1640 1162 1030 364 991; 1641 1163 1075 966 967
825. 1642 1030 1164 990 364; 1643 1080 1165 1079 1058; 1644 1082 1166 1081 1048
826. 1645 1167 1044 1045 1084; 1646 1035 1168 1085 701; 1647 1022 1169 1004 76
827. 1648 1091 1170 1089 1053; 1649 1028 1171 1078 1029; 1650 1027 1172 1092 443
828. 1651 1094 1069 1095 1173; 1652 46 904 1174 1016; 1653 1095 1175 1009 1010
829. 1654 1176 1046 874 963; 1655 891 1102 1177 1044; 1656 947 948 1178 1103
830. 1657 1179 1032 1033 1105; 1658 1180 1034 493 984; 1659 1108 1181 1107 1064
831. 1660 1039 1182 1109 830; 1661 1042 1183 969 751; 1662 1184 1018 47 1012
832. 1663 922 923 1114 1185; 1664 1036 1186 1115 1037; 1665 1187 1116 980 981
833. 1666 1040 1188 1110 1041; 1667 1189 1040 1041 1119; 1668 1122 1190 1121 1055
834. 1669 1191 1036 1037 1123; 1670 919 920 1192 1124; 1671 1113 1061 1074 1193
835. 1672 1194 1082 1048 1102; 1673 1081 902 957 1195; 1674 1196 1128 961 962
836. 1675 1197 1129 1068 1098; 1676 1198 1020 1021 1131; 1677 1199 1042 751 970
837. 1678 1038 1200 976 622; 1679 1201 1134 1065 1136; 1680 1020 1202 1088 1021
838. 1681 1055 1123 1203 1138; 1682 933 934 1204 1139; 1683 1024 1205 1142 1025
839. 1684 1206 1026 232 998; 1685 1207 1145 1001 1002; 1686 940 941 1208 1086
840. 1687 1026 1209 997 232; 1688 1034 1210 983 493; 1689 1032 1211 1148 1033
841. 1690 1031 1212 1149 572; 1691 1213 1028 1029 1073; 1692 1151 1214 1083 1049
842. 1693 1089 1052 1132 1215; 1694 1216 1152 973 974; 1695 926 927 1217 1093
843. 1696 1067 1131 1218 1154; 1697 1219 1024 1025 1143; 1698 1145 1220 1000 1001
844. 1699 903 46 1016 1221; 1700 1156 1058 1106 1222; 1701 1223 1126 994 995
845. 1702 1023 1224 1141 311; 1703 1075 1225 965 966; 1704 1129 1226 1158 1068
846. 1705 1116 1227 979 980; 1706 1090 1228 1120 1052; 1707 950 951 1151 1229
847. 1708 1114 1230 1150 1061; 1709 1019 1231 1137 183; 1710 915 916 1108 1232
848. 1711 936 937 1122 1233; 1712 1128 1234 960 961; 1713 1159 1235 1130 1067
849. 1714 1097 1236 1007 1008; 1715 929 930 1080 1237; 1716 1072 1161 988 989
850. 1717 1060 1071 1161 1072; 1718 1071 1059 1070 1161; 1719 1074 1162 991 992
851. 1720 1061 1073 1162 1074; 1721 1073 1029 1030 1162; 1722 1077 1163 967 968
852. 1723 1051 1076 1163 1077; 1724 1076 1050 1075 1163; 1725 1029 1078 1164 1030
853. 1726 1078 1060 1072 1164; 1727 1164 1072 989 990; 1728 930 931 1165 1080
854. 1729 931 492 1031 1165; 1730 1165 1031 572 1079; 1731 954 955 1166 1082
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857. 1738 1168 1086 1054 1085; 1739 1021 1088 1169 1022; 1740 1088 1066 1087 1169
858. 1741 1169 1087 1003 1004; 1742 942 943 1170 1091; 1743 943 944 1090 1170
859. 1744 1170 1090 1052 1089; 1745 443 1092 1171 1028; 1746 1092 1060 1078 1171
860. 1747 363 925 1172 1027; 1748 925 926 1093 1172; 1749 1172 1093 1060 1092
861. 1750 1173 1095 1010 1011; 1751 1018 1173 1011 47; 1752 1017 1094 1173 1018
862. 1753 904 905 1096 1174; 1754 1174 1096 1069 1094; 1755 1016 1174 1094 1017
863. 1756 1069 1098 1175 1095; 1757 1098 1068 1097 1175; 1758 1175 1097 1008 1009
864. 1759 1099 1176 963 964; 1760 1049 1084 1176 1099; 1761 1084 1045 1046 1176
865. 1762 1102 1048 1101 1177; 1763 1177 1101 1047 1100; 1764 1044 1177 1100 1045
866. 1765 948 949 1104 1178; 1766 1178 1104 1050 1076; 1767 1103 1178 1076 1051
867. 1768 1058 1079 1179 1105; 1769 1079 572 1032 1179; 1770 1106 1180 984 985
868. 1771 1058 1105 1180 1106; 1772 1105 1033 1034 1180; 1773 916 917 1181 1108
869. 1774 917 231 1023 1181; 1775 1181 1023 311 1107; 1776 750 946 1182 1039
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871. 1780 1110 1051 1077 1183; 1781 1183 1077 968 969; 1782 1013 1184 1012 18
872. 1783 1014 1111 1184 1013; 1784 1111 1017 1018 1184; 1785 1185 1114 1061 1113
873. 1786 1112 1185 1113 1062; 1787 921 922 1185 1112; 1788 701 1085 1186 1036
874. 1789 1085 1054 1115 1186; 1790 1118 1187 981 982; 1791 1057 1117 1187 1118
875. 1792 1117 1056 1116 1187; 1793 830 1109 1188 1040; 1794 1109 1051 1110 1188
876. 1795 1052 1120 1189 1119; 1796 1120 830 1040 1189; 1797 937 938 1190 1122
877. 1798 938 621 1035 1190; 1799 1190 1035 701 1121; 1800 1055 1121 1191 1123
878. 1801 1121 701 1036 1191; 1802 920 921 1112 1192; 1803 1192 1112 1062 1125
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879. 1804 1124 1192 1125 1063; 1805 1193 1074 992 993; 1806 1126 1193 993 994
880. 1807 1062 1113 1193 1126; 1808 1043 1194 1102 891; 1809 873 953 1194 1043
881. 1810 953 954 1082 1194; 1811 1195 957 958 1127; 1812 1101 1195 1127 1047
882. 1813 1048 1081 1195 1101; 1814 1046 1196 962 874; 1815 1045 1100 1196 1046
883. 1816 1100 1047 1128 1196; 1817 1096 1197 1098 1069; 1818 905 906 1197 1096
884. 1819 906 907 1129 1197; 1820 1067 1130 1198 1131; 1821 1130 183 1020 1198
885. 1822 1132 1199 970 971; 1823 1052 1119 1199 1132; 1824 1119 1041 1042 1199
886. 1825 1037 1115 1200 1038; 1826 1115 1054 1133 1200; 1827 1200 1133 975 976
887. 1828 1135 1201 1136 1066; 1829 912 913 1201 1135; 1830 913 914 1134 1201
888. 1831 183 1137 1202 1020; 1832 1137 1066 1088 1202; 1833 1123 1037 1038 1203
889. 1834 1203 1038 622 977; 1835 1138 1203 977 978; 1836 934 935 1140 1204
890. 1837 1204 1140 1056 1117; 1838 1139 1204 1117 1057; 1839 311 1141 1205 1024
891. 1840 1141 1063 1142 1205; 1841 1144 1206 998 999; 1842 1064 1143 1206 1144
892. 1843 1143 1025 1026 1206; 1844 1087 1207 1002 1003; 1845 1066 1136 1207 1087
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897. 1858 492 932 1212 1031; 1859 932 933 1139 1212; 1860 1212 1139 1057 1149
898. 1861 1061 1150 1213 1073; 1862 1150 443 1028 1213; 1863 951 952 1214 1151
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900. 1867 1152 1215 972 973; 1868 1053 1089 1215 1152; 1869 1133 1216 974 975
901. 1870 1054 1146 1216 1133; 1871 1146 1053 1152 1216; 1872 927 928 1153 1217
902. 1873 1217 1153 1059 1071; 1874 1093 1217 1071 1060; 1875 1131 1021 1022 1218
903. 1876 1218 1022 76 1005; 1877 1154 1218 1005 1006; 1878 1064 1107 1219 1143
904. 1879 1107 311 1024 1219; 1880 1065 1155 1220 1145; 1881 1155 1064 1144 1220
905. 1882 1220 1144 999 1000; 1883 1221 1016 1017 1111; 1884 1015 1221 1111 1014
906. 1885 17 903 1221 1015; 1886 1222 1106 985 986; 1887 1070 1222 986 987
907. 1888 1059 1156 1222 1070; 1889 1147 1223 995 996; 1890 1063 1125 1223 1147
908. 1891 1125 1062 1126 1223; 1892 231 918 1224 1023; 1893 918 919 1124 1224
909. 1894 1224 1124 1063 1141; 1895 1050 1157 1225 1075; 1896 1157 1049 1099 1225
910. 1897 1225 1099 964 965; 1898 907 908 1226 1129; 1899 908 909 1159 1226
911. 1900 1226 1159 1067 1158; 1901 1056 1160 1227 1116; 1902 1160 1055 1138 1227
912. 1903 1227 1138 978 979; 1904 944 945 1228 1090; 1905 945 750 1039 1228
913. 1906 1228 1039 830 1120; 1907 1229 1151 1049 1157; 1908 1104 1229 1157 1050
914. 1909 949 950 1229 1104; 1910 923 924 1230 1114; 1911 924 363 1027 1230
915. 1912 1230 1027 443 1150; 1913 75 911 1231 1019; 1914 911 912 1135 1231
916. 1915 1231 1135 1066 1137; 1916 1232 1108 1064 1155; 1917 1134 1232 1155 1065
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922. 1933 928 929 1237 1153; 2014 1294 1418 903 17; 2015 1256 1257 1419 1344
923. 2016 1307 1348 1420 1306; 2017 43 1239 1421 1299; 2018 1352 1422 924 923
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925. 2022 1289 1290 1426 1360; 2023 1427 1299 1298 1343; 2024 1297 1428 904 46
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931. 2040 1305 1444 1389 1304; 2041 1445 1381 949 948; 2042 1320 1446 1392 1319
932. 2043 1447 1363 954 953; 2044 1244 1245 1448 1393; 2045 1385 1322 1396 1449
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V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
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935. 2052 1408 1332 1410 1456; 2053 1242 1243 1457 1371; 2054 1458 1317 1316 1411
936. 2055 1249 1250 1459 1412; 2056 1405 1304 1303 1460; 2057 1461 1366 928 927
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938. 2061 1465 1308 1307 1351; 2062 1317 1466 1373 1316; 2063 1384 1467 938 937
939. 2064 1403 1468 1406 1331; 2065 1308 1469 1348 1307; 2066 1270 1271 1470 1400
940. 2067 1390 1471 1415 1329; 2068 1472 1407 912 911; 2069 1411 1316 1315 1473
941. 2070 1417 1474 1413 1327; 2071 1394 1301 1300 1475; 2072 1283 1284 1414 1476
942. 2073 1477 1395 942 941; 2074 1478 1383 935 934; 2075 1479 1409 907 906
943. 2076 1295 1343 1418 1294; 2077 1343 1298 1297 1418; 2078 1418 1297 46 903
944. 2079 1257 1258 1346 1419; 2080 1419 1346 1328 1345; 2081 1344 1419 1345 1339
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946. 2085 1239 1240 1350 1421; 2086 1421 1350 1333 1349; 2087 1299 1421 1349 1298
947. 2088 1328 1351 1422 1352; 2089 1351 1307 1306 1422; 2090 1422 1306 363 924
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953. 2106 1298 1349 1428 1297; 2107 1349 1333 1362 1428; 2108 1428 1362 905 904
954. 2109 1429 1293 900 955; 2110 1363 1429 955 954; 2111 1334 1361 1429 1363
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956. 2115 1431 1354 930 929; 2116 1366 1431 929 928; 2117 1336 1356 1431 1366
957. 2118 1432 1369 916 915; 2119 1368 1432 915 914; 2120 1337 1367 1432 1368
958. 2121 1240 1241 1433 1350; 2122 1241 1242 1371 1433; 2123 1433 1371 1335 1370
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960. 2127 1275 1276 1435 1376; 2128 1276 1277 1375 1435; 2129 1435 1375 1340 1374
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963. 2136 1438 1384 937 936; 2137 1383 1438 936 935; 2138 1338 1382 1438 1383
964. 2139 1266 489 1311 1439; 2140 1439 1311 1310 1353; 2141 1357 1439 1353 1326
965. 2142 1278 1279 1386 1440; 2143 1440 1386 1322 1385; 2144 1375 1440 1385 1340
966. 2145 618 1274 1441 1314; 2146 1274 1275 1376 1441; 2147 1441 1376 1323 1365
967. 2148 1442 1387 1325 1359; 2149 1311 1442 1359 1310; 2150 489 1267 1442 1311
968. 2151 1443 1352 923 922; 2152 1388 1443 922 921; 2153 1339 1345 1443 1388
969. 2154 228 1253 1444 1305; 2155 1253 1254 1390 1444; 2156 1444 1390 1329 1389
970. 2157 1372 1445 948 947; 2158 1321 1391 1445 1372; 2159 1391 1341 1381 1445
971. 2160 871 1288 1446 1320; 2161 1288 1289 1360 1446; 2162 1446 1360 1334 1392
972. 2163 1318 1447 953 873; 2164 1319 1392 1447 1318; 2165 1392 1334 1363 1447
973. 2166 1245 72 1302 1448; 2167 1448 1302 1301 1394; 2168 1393 1448 1394 1332
974. 2169 1449 1396 944 943; 2170 1395 1449 943 942; 2171 1340 1385 1449 1395
975. 2172 1397 1450 1398 1324; 2173 1272 1273 1450 1397; 2174 1273 618 1314 1450
976. 2175 1268 1269 1451 1387; 2176 1269 1270 1400 1451; 2177 1451 1400 1338 1399
977. 2178 1303 1452 918 231; 2179 1304 1389 1452 1303; 2180 1389 1329 1401 1452
978. 2181 1453 1403 1331 1402; 2182 1302 1453 1402 1301; 2183 72 1246 1453 1302
979. 2184 1404 1454 1405 1330; 2185 1251 1252 1454 1404; 2186 1252 228 1305 1454
980. 2187 1407 1455 913 912; 2188 1331 1406 1455 1407; 2189 1406 1337 1368 1455
981. 2190 1456 1410 909 908; 2191 1409 1456 908 907; 2192 1335 1408 1456 1409
982. 2193 1243 1244 1393 1457; 2194 1457 1393 1332 1408; 2195 1371 1457 1408 1335
983. 2196 1386 1458 1411 1322; 2197 1279 1280 1458 1386; 2198 1280 747 1317 1458
984. 2199 1250 1251 1404 1459; 2200 1459 1404 1330 1367; 2201 1412 1459 1367 1337
985. 2202 1460 1303 231 917; 2203 1369 1460 917 916; 2204 1330 1405 1460 1369
986. 2205 1347 1461 927 926; 2206 1327 1413 1461 1347; 2207 1413 1336 1366 1461
987. 2208 1414 1462 1380 1341; 2209 1284 1285 1462 1414; 2210 1285 1286 1377 1462
988. 2211 1463 1318 873 952; 2212 1379 1463 952 951; 2213 1342 1378 1463 1379
989. 2214 1401 1464 920 919; 2215 1329 1415 1464 1401; 2216 1415 1339 1388 1464
990. 2217 1346 1465 1351 1328; 2218 1258 1259 1465 1346; 2219 1259 360 1308 1465

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
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991. 2220 747 1281 1466 1317; 2221 1281 1282 1416 1466; 2222 1466 1416 1321 1373
992. 2223 1324 1398 1467 1384; 2224 1398 1313 1312 1467; 2225 1467 1312 621 938
993. 2226 1247 1248 1468 1403; 2227 1248 1249 1412 1468; 2228 1468 1412 1337 1406
994. 2229 360 1260 1469 1308; 2230 1260 1261 1417 1469; 2231 1469 1417 1327 1348
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997. 2238 1300 1472 911 75; 2239 1301 1402 1472 1300; 2240 1402 1331 1407 1472
998. 2241 1473 1315 750 945; 2242 1396 1473 945 944; 2243 1322 1411 1473 1396
999. 2244 1261 1262 1474 1417; 2245 1262 1263 1355 1474; 2246 1474 1355 1336 1413
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1004. 2259 1362 1479 906 905; 2260 1333 1370 1479 1362; 2261 1370 1335 1409 1479
1005. 2342 1536 1660 1535 15; 2343 1661 1548 1549 1587; 2344 1549 1589 1662 1550
1006. 2345 43 1239 1663 1539; 2346 1257 1258 1586 1664; 2347 1665 1551 1552 1595
1007. 2348 1598 1666 1596 1575; 2349 1552 1600 1667 1553; 2350 1289 1290 1668 1601
1008. 2351 1669 1539 1540 1585; 2352 1670 1560 1561 1604; 2353 1541 1671 1534 44
1009. 2354 1606 1565 1608 1672; 2355 1587 1549 1550 1673; 2356 1555 1611 1674 1556
1010. 2357 1575 1596 1675 1588; 2358 1615 1676 1525 1526; 2359 1616 1543 1544 1677
1011. 2360 1618 1558 1559 1678; 2361 1281 1282 1621 1679; 2362 1572 1623 1680 1599
1012. 2363 1574 1625 1681 1612; 2364 1554 1682 1611 1555; 2365 1267 1268 1627 1683
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1016. 2375 1642 1577 1644 1693; 2376 1542 1694 1645 1543; 2377 1695 1545 1546 1648
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1018. 2381 1648 1546 1547 1699; 2382 1272 1273 1700 1655; 2383 1562 1701 1485 872
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1042. 2453 1614 1580 1613 1676; 2454 1676 1613 1524 1525; 2455 1677 1544 73 1528
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1046. 2465 1680 1622 1503 1504; 2466 1599 1680 1504 1505; 2467 1625 1573 1624 1681

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1047. 2468 1681 1624 1508 1509; 2469 1612 1681 1509 1510; 2470 618 1274 1682 1554
1048. 2471 1274 1275 1626 1682; 2472 1682 1626 1569 1611; 2473 1683 1627 1572 1600
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1050. 2477 1253 1254 1629 1684; 2478 1684 1629 1578 1628; 2479 1564 1604 1685 1630
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1063. 2516 1652 1697 1530 1531; 2517 1583 1651 1697 1652; 2518 1698 1654 1522 1523
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1072. 2543 1656 1555 1556 1706; 2544 1706 1556 619 1500; 2545 1628 1578 1643 1707
1073. 2546 1707 1643 1519 1520; 2547 1547 1707 1520 229; 2548 1610 1708 1497 1498
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1081. 2570 1577 1593 1715 1644; 2571 1593 1576 1609 1715; 2572 1645 1581 1615 1716
1082. 2573 1716 1615 1526 1527; 2574 1544 1716 1527 73; 2575 1283 1284 1632 1717
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1084. 2579 1597 1718 1625 1574; 2580 1263 1264 1718 1597; 2581 1584 1649 1719 1605
1085. 2582 1649 1583 1652 1719; 2583 1719 1652 1531 1532; 2584 1248 1249 1657 1720
1086. 2585 1720 1657 1580 1614; 2586 1646 1720 1614 1581; 2587 1243 1244 1635 1721
1087. 2588 1721 1635 1582 1651; 2589 1650 1721 1651 1583
1088. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
1089. PARAMETRIC MODEL MESHED SURFACE 3
1090. TYPE WALL
1091. MESH PARAM 0.5 4 1
1092. MESH ORG 0 1 10
1093. BOUNDARY 20
1094. 14 0 0 43 0 0 72 0 0 228 0 0 360 0 0 489 0 0 618 0 0 747 0 0 871 0 0 898 0 0 -
1095. 899 0 0 872 0 0 748 0 0 619 0 0 490 0 0 361 0 0 229 0 0 73 0 0 44 0 0 15 0 0
1096. DENSITY LINE 5.28 1 7.965 1 7.08 1 7.965 1 0
1097. DENSITY LINE 5.28 4.1 7.965 1 7.08 4.1 7.965 1 0
1098. DENSITY LINE 5.28 7.2 7.965 1 7.08 7.2 7.965 1 0
1099. DENSITY LINE 5.28 10.3 7.965 1 7.08 10.3 7.965 1 0
1100. DENSITY LINE 5.28 13.4 7.965 1 7.08 13.4 7.965 1 0
1101. DENSITY LINE 5.28 16.5 7.965 1 7.08 16.5 7.965 1 0
1102. DENSITY LINE 5.28 19.6 7.965 1 7.08 19.6 7.965 1 0
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V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
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1103. DENSITY LINE 5.28 22.7 7.965 1 7.08 22.7 7.965 1 0
1104. GENERATED NODES 1480 TO 1721
1105. GENERATED PLATES PLATE 2342 TO 2589
1106. END
1107. !> END GENERATED DATA BLOCK
1108. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
1109. PARAMETRIC MODEL MESHED SURFACE 2
1110. TYPE WALL
1111. MESH PARAM 0.5 4 1
1112. MESH ORG 0 1 10
1113. BOUNDARY 20
1114. 14 0 0 43 0 0 72 0 0 228 0 0 360 0 0 489 0 0 618 0 0 747 0 0 871 0 0 898 0 0 -
1115. 900 0 0 873 0 0 750 0 0 621 0 0 492 0 0 363 0 0 231 0 0 75 0 0 46 0 0 17 0 0
1116. DENSITY LINE 5.28 1 9.95 1 5.28 1 7.965 1 0
1117. DENSITY LINE 5.28 4.1 9.95 1 5.28 4.1 7.965 1 0
1118. DENSITY LINE 5.28 7.2 9.95 1 5.28 7.2 7.965 1 0
1119. DENSITY LINE 5.28 10.3 9.95 1 5.28 10.3 7.965 1 0
1120. DENSITY LINE 5.28 13.4 9.95 1 5.28 13.4 7.965 1 0
1121. DENSITY LINE 5.28 16.5 9.95 1 5.28 16.5 7.965 1 0
1122. DENSITY LINE 5.28 19.6 9.95 1 5.28 19.6 7.965 1 0
1123. DENSITY LINE 5.28 22.7 9.95 1 5.28 22.7 7.965 1 0
1124. GENERATED NODES 1238 TO 1479
1125. GENERATED PLATES PLATE 2014 TO 2261
1126. END
1127. !> END GENERATED DATA BLOCK
1128. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
1129. PARAMETRIC MODEL MESHED SURFACE 1
1130. TYPE WALL
1131. MESH PARAM 0.5 4 1
1132. MESH ORG 0 1 11
1133. BOUNDARY 21
1134. 17 0 0 46 0 0 75 0 0 231 0 0 363 0 0 492 0 0 621 0 0 750 0 0 873 0 0 900 0 0 -
1135. 902 0 0 901 0 0 874 0 0 751 0 0 622 0 0 493 0 0 364 0 0 232 0 0 76 0 0 -
1136. 47 0 0 18 0 0
1137. DENSITY POINTS 7
1138. 5.53 4.1 9.95 1 5.53 7.2 9.95 1 5.53 10.3 9.95 1 5.53 13.4 9.95 1 -
1139. 5.53 16.5 9.95 1 5.53 19.6 9.95 1 5.53 22.7 9.95 1
1140. DENSITY LINE 5.28 1 9.95 1 7.08 1 9.95 1 0
1141. DENSITY LINE 5.28 4.1 9.95 1 5.53 4.1 9.95 1 0
1142. DENSITY LINE 5.53 4.1 9.95 1 7.08 4.1 9.95 1 0
1143. DENSITY LINE 5.28 7.2 9.95 1 5.53 7.2 9.95 1 0
1144. DENSITY LINE 5.53 7.2 9.95 1 7.08 7.2 9.95 1 0
1145. DENSITY LINE 5.28 10.3 9.95 1 5.53 10.3 9.95 1 0
1146. DENSITY LINE 5.53 10.3 9.95 1 7.08 10.3 9.95 1 0
1147. DENSITY LINE 5.28 13.4 9.95 1 5.53 13.4 9.95 1 0
1148. DENSITY LINE 5.53 13.4 9.95 1 7.08 13.4 9.95 1 0
1149. DENSITY LINE 5.28 16.5 9.95 1 5.53 16.5 9.95 1 0
1150. DENSITY LINE 5.53 16.5 9.95 1 7.08 16.5 9.95 1 0
1151. DENSITY LINE 5.28 19.6 9.95 1 5.53 19.6 9.95 1 0
1152. DENSITY LINE 5.53 19.6 9.95 1 7.08 19.6 9.95 1 0
1153. DENSITY LINE 5.28 22.7 9.95 1 5.53 22.7 9.95 1 0
1154. DENSITY LINE 5.53 22.7 9.95 1 7.08 22.7 9.95 1 0
1155. GENERATED NODES 903 TO 1237
1156. GENERATED PLATES PLATE 1639 TO 1933
1157. END
1158. !> END GENERATED DATA BLOCK
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1159. START GROUP DEFINITION
1160. FLOOR
1161. _WT 1424 1426 TO 1429 1431 1432 1438 1440 TO 1445 1447 1453 1482
1162. END GROUP DEFINITION
1163. ELEMENT PROPERTY
1164. 1639 TO 1933 2014 TO 2261 2342 TO 2589 THICKNESS 0.2
1165. DEFINE MATERIAL START
1166. ISOTROPIC CONCRETE
1167. E 2.17185E+07
1168. POISSON 0.17
1169. DENSITY 23.5616
1170. ALPHA 1E-05
1171. DAMP 0.05
1172. G 9.28139E+06
1173. TYPE CONCRETE
1174. STRENGTH FCU 27579
1175. END DEFINE MATERIAL
1176. MEMBER PROPERTY
1177. 2 11 13 20 23 24 31 40 42 49 52 53 333 334 336 337 339 342 343 345 348 352 -
1178. 353 TO 358 360 361 555 556 558 559 561 564 565 567 570 574 TO 580 582 583 -
1179. 769 770 772 773 775 778 779 781 784 788 TO 794 796 797 983 984 986 987 989 -
1180. 992 993 995 998 1002 TO 1008 1010 1011 1197 1198 1200 1201 1203 1206 1207 -
1181. 1209 1212 1216 TO 1222 1224 1225 1411 1412 1414 1417 1462 1464 1465 1467 -
1182. 1468 1470 1471 1473 1474 1476 1477 PRIS YD 0.6 ZD 0.23
1183. 3 8 9 19 32 37 38 48 335 340 341 344 351 557 562 563 566 573 771 776 777 780 -
1184. 787 985 990 991 994 1001 1199 1204 1205 1208 1215 1413 1415 1416 1418 -
1185. 1422 PRIS YD 0.23 ZD 0.6
1186. 1 4 5 7 10 16 22 26 28 TO 30 33 34 36 39 45 51 55 57 58 338 560 774 988 -
1187. 1202 PRIS YD 0.6 ZD 0.3
1188. 12 41 PRIS YD 0.3 ZD 0.6
1189. 27 56 PRIS YD 0.3 ZD 1.6
1190. 6 21 25 35 50 54 PRIS YD 0.6 ZD 0.45
1191. 359 581 795 1009 1223 PRIS YD 0.23 ZD 1.6
1192. 59 TO 85 87 TO 108 110 TO 131 135 TO 145 147 150 TO 153 156 157 159 160 165 -
1193. 168 169 175 179 187 TO 192 195 TO 198 200 201 204 212 215 218 224 227 231 -
1194. 237 238 244 251 TO 253 273 275 277 278 284 TO 286 292 293 295 296 299 307 -
1195. 309 310 312 314 316 325 331 332 362 367 369 370 373 374 376 377 382 386 392 -
1196. 396 404 408 409 412 414 415 417 418 421 429 432 435 441 444 448 454 455 461 -
1197. 468 TO 470 492 494 495 500 TO 502 507 508 510 511 514 522 524 TO 526 528 -
1198. 530 539 546 547 584 589 591 592 595 596 598 599 604 608 614 618 626 -
1199. 630 TO 632 634 635 637 638 641 649 652 655 661 664 668 674 675 681 -
1200. 688 TO 690 711 713 714 719 TO 721 726 727 729 730 733 741 743 TO 745 747 -
1201. 749 758 765 798 803 805 806 809 810 812 813 818 822 828 832 840 844 TO 846 -
1202. 848 849 851 852 855 863 866 869 875 878 882 888 889 895 902 TO 904 925 927 -
1203. 928 933 TO 935 940 941 943 944 947 955 957 TO 959 961 963 972 979 1012 1017 -
1204. 1019 1020 1023 1024 1026 1027 1032 1036 1042 1046 1054 1058 TO 1060 1062 -
1205. 1063 1065 1066 1069 1077 1080 1083 1089 1092 1096 1102 1103 1109 -
1206. 1116 TO 1118 1139 1141 1142 1147 TO 1149 1154 1155 1157 1158 1161 1169 1171 -
1207. 1172 TO 1173 1175 1177 2590 TO 2599 2601 PRIS YD 0.6 ZD 0.23
1208. 1186 1193 1226 1231 1233 1234 1237 1238 1240 1241 1246 1250 1256 1260 1268 -
1209. 1272 TO 1274 1276 1277 1279 1280 1283 1291 1294 1297 1303 1306 1310 1316 -
1210. 1317 1323 1330 TO 1332 1353 1355 1356 1361 TO 1363 1368 1369 1371 1372 1375 -
1211. 1383 1385 TO 1387 1389 1391 1400 1407 1423 1425 1428 1429 1431 1432 1442 -
1212. 2600 PRIS YD 0.6 ZD 0.23
1213. 134 PRIS YD 0.6 ZD 0.15
1214. 146 154 155 158 161 TO 164 166 167 170 172 TO 174 176 TO 178 180 TO 186 202 -
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1215. 203 205 TO 211 214 216 217 219 TO 223 226 228 TO 230 234 239 TO 243 -
1216. 245 TO 250 254 257 259 TO 266 268 270 271 274 280 TO 283 287 288 297 298 -
1217. 301 302 304 TO 306 308 313 315 317 TO 323 326 328 329 363 364 368 371 372 -
1218. 375 378 TO 381 383 TO 385 387 389 TO 391 393 TO 395 397 TO 403 405 TO 407 -
1219. 413 419 420 422 TO 428 430 431 433 434 436 TO 440 443 445 TO 447 451 456 -
1220. 457 TO 460 462 TO 467 471 474 476 TO 485 487 TO 491 496 TO 499 503 504 512 -
1221. 513 516 517 519 TO 521 523 527 529 531 TO 537 540 542 TO 545 548 550 551 -
1222. 553 554 585 586 590 593 594 597 600 TO 603 605 TO 607 609 611 TO 613 615 -
1223. 616 TO 617 619 TO 625 627 TO 629 633 639 640 642 TO 648 650 651 653 654 656 -
1224. 657 TO 660 663 665 TO 667 671 676 TO 680 682 TO 687 691 693 695 TO 704 706 -
1225. 707 TO 710 715 TO 718 722 723 731 732 735 736 738 TO 740 742 746 748 -
1226. 750 TO 756 759 761 TO 764 767 768 799 800 804 807 808 811 814 TO 817 819 -
1227. 820 TO 821 823 825 TO 827 829 TO 831 833 TO 839 841 TO 843 847 853 854 856 -
1228. 857 TO 862 864 865 867 868 870 TO 874 877 879 TO 881 885 -
1229. 890  PRIS YD 0.45 ZD 0.23
1230. 891 TO 894 896 TO 901 905 907 909 TO 918 920 TO 924 929 TO 932 936 937 945 -
1231. 946 949 950 952 TO 954 956 960 962 964 TO 970 973 975 TO 978 981 982 1013 -
1232. 1014 1018 1021 1022 1025 1028 TO 1031 1033 TO 1035 1037 1039 TO 1041 1043 -
1233. 1044 TO 1045 1047 TO 1053 1055 TO 1057 1061 1067 1068 1070 TO 1076 1078 1079 -
1234. 1081 1082 1084 TO 1088 1091 1093 TO 1095 1099 1104 TO 1108 1110 TO 1115 -
1235. 1119 1121 1123 TO 1132 1134 TO 1138 1143 TO 1146 1150 1151 1159 1160 1163 -
1236. 1164 1166 TO 1168 1170 1174 1176 1178 TO 1184 1187 1189 TO 1192 1195 1196 -
1237. 1227 1228 1232 1235 1236 1239 1242 TO 1245 1247 TO 1249 1251 1253 TO 1255 -
1238. 1257 TO 1259 1261 TO 1267 1269 TO 1271 1275 1281 1282 1284 TO 1290 1292 -
1239. 1293 1295 1296 1298 TO 1302 1305 1307 TO 1309 1313 1318 TO 1322 -
1240. 1324 TO 1329 1333 1335 1337 TO 1346 1348 TO 1352 1357 TO 1360 1364 1365 -
1241. 1373 1374 1377 1378 1380 TO 1382 1384 1388 1390 1392 TO 1398 1401 -
1242. 1403 TO 1406 1409 1410 1424 1426 1427 1437 TO 1441 1443 TO 1447 1450 1453 -
1243. 1454 TO 1456 1458 TO 1461 1479 1482 1483 1485 1486 PRIS YD 0.45 ZD 0.23
1244. 148 149 171 199 225 255 258 269 289 290 294 300 303 327 365 366 388 416 442 -
1245. 472 475 486 505 506 509 515 518 541 549 552 587 588 610 636 662 692 694 705 -
1246. 724 725 728 734 737 760 766 801 802 824 850 876 906 908 919 938 939 942 948 -
1247. 951 974 980 1015 1016 1038 1064 1090 1120 1122 1133 1152 1153 1156 1162 -
1248. 1165 1188 1194 1229 1230 1252 1278 1304 1334 1336 1347 1366 1367 1370 1376 -
1249. 1379 1402 1408 PRIS YD 0.525 ZD 0.23
1250. 236 453 673 887 1101 1315 1452 1496 PRIS YD 0.45 ZD 0.15
1251. 193 194 213 256 267 272 330 PRIS YD 0.8 ZD 0.6
1252. 1463 1466 1469 1472 1475 PRIS YD 0.45 ZD 0.23
1253. 1484 PRIS YD 0.23 ZD 0.23
1254. CONSTANTS
1255. MATERIAL CONCRETE ALL
1256. SUPPORTS
1257. 1 TO 29 1013 TO 1015 1294 TO 1296 1536 TO 1538 FIXED
1258. CUT OFF MODE SHAPE 15
1259. DEFINE REFERENCE LOADS
1260. LOAD R1 LOADTYPE MASS  TITLE REF MASS MODEL
1261. MEMBER LOAD
1262. 131 153 158 159 161 TO 165 169 174 TO 176 187 191 200 203 204 210 212 214 -
1263. 220 221 223 224 226 238 239 244 245 251 252 254 260 263 TO 266 272 274 277 -
1264. 284 285 287 288 297 304 TO 306 308 309 312 313 315 TO 318 322 330 332 370 -
1265. 373 376 378 TO 382 386 391 TO 393 404 408 417 421 427 429 431 437 438 440 -
1266. 441 443 455 456 461 462 469 471 477 481 TO 483 489 491 494 500 501 504 513 -
1267. 519 TO 521 523 524 526 529 531 532 536 544 546 550 553 554 592 595 598 600 -
1268. 601 TO 604 608 613 TO 615 626 630 637 641 647 649 651 657 658 660 661 663 -
1269. 675 676 681 682 689 691 696 700 TO 702 708 710 713 719 720 723 732 -
1270. 738 TO 740 742 743 745 748 750 751 755 763 765 767 806 809 812 814 TO 818 -
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3-9, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

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1271. 822 827 TO 829 840 844 851 855 861 863 865 871 872 874 875 877 889 890 895 -
1272. 896 903 905 910 914 TO 916 922 924 927 933 934 937 946 952 TO 954 956 957 -
1273. 959 962 964 965 969 977 979 981 1020 1023 1026 1028 TO 1032 1036 -
1274. 1041 TO 1043 1054 1058 1065 1069 1075 1077 1079 1085 1086 1088 1089 1091 -
1275. 1103 1104 1109 1110 1117 1119 1124 1128 TO 1130 1136 1138 1141 1147 1148 -
1276. 1151 1160 1166 TO 1168 1170 1171 1173 1176 1178 1179 1183 1191 1193 -
1277. 1195 UNI GX 5
1278. 131 153 158 159 161 TO 165 169 174 TO 176 187 191 200 203 204 210 212 214 -
1279. 220 221 223 224 226 238 239 244 245 251 252 254 260 263 TO 266 272 274 277 -
1280. 284 285 287 288 297 304 TO 306 308 309 312 313 315 TO 318 322 330 332 370 -
1281. 373 376 378 TO 382 386 391 TO 393 404 408 417 421 427 429 431 437 438 440 -
1282. 441 443 455 456 461 462 469 471 477 481 TO 483 489 491 494 500 501 504 513 -
1283. 519 TO 521 523 524 526 529 531 532 536 544 546 550 553 554 592 595 598 600 -
1284. 601 TO 604 608 613 TO 615 626 630 637 641 647 649 651 657 658 660 661 663 -
1285. 675 676 681 682 689 691 696 700 TO 702 708 710 713 719 720 723 732 -
1286. 738 TO 740 742 743 745 748 750 751 755 763 765 767 806 809 812 814 TO 818 -
1287. 822 827 TO 829 840 844 851 855 861 863 865 871 872 874 875 877 889 890 895 -
1288. 896 903 905 910 914 TO 916 922 924 927 933 934 937 946 952 TO 954 956 957 -
1289. 959 962 964 965 969 977 979 981 1020 1023 1026 1028 TO 1032 1036 -
1290. 1041 TO 1043 1054 1058 1065 1069 1075 1077 1079 1085 1086 1088 1089 1091 -
1291. 1103 1104 1109 1110 1117 1119 1124 1128 TO 1130 1136 1138 1141 1147 1148 -
1292. 1151 1160 1166 TO 1168 1170 1171 1173 1176 1178 1179 1183 1191 1193 -
1293. 1195 UNI GY 5
1294. 131 153 158 159 161 TO 165 169 174 TO 176 187 191 200 203 204 210 212 214 -
1295. 220 221 223 224 226 238 239 244 245 251 252 254 260 263 TO 266 272 274 277 -
1296. 284 285 287 288 297 304 TO 306 308 309 312 313 315 TO 318 322 330 332 370 -
1297. 373 376 378 TO 382 386 391 TO 393 404 408 417 421 427 429 431 437 438 440 -
1298. 441 443 455 456 461 462 469 471 477 481 TO 483 489 491 494 500 501 504 513 -
1299. 519 TO 521 523 524 526 529 531 532 536 544 546 550 553 554 592 595 598 600 -
1300. 601 TO 604 608 613 TO 615 626 630 637 641 647 649 651 657 658 660 661 663 -
1301. 675 676 681 682 689 691 696 700 TO 702 708 710 713 719 720 723 732 -
1302. 738 TO 740 742 743 745 748 750 751 755 763 765 767 806 809 812 814 TO 818 -
1303. 822 827 TO 829 840 844 851 855 861 863 865 871 872 874 875 877 889 890 895 -
1304. 896 903 905 910 914 TO 916 922 924 927 933 934 937 946 952 TO 954 956 957 -
1305. 959 962 964 965 969 977 979 981 1020 1023 1026 1028 TO 1032 1036 -
1306. 1041 TO 1043 1054 1058 1065 1069 1075 1077 1079 1085 1086 1088 1089 1091 -
1307. 1103 1104 1109 1110 1117 1119 1124 1128 TO 1130 1136 1138 1141 1147 1148 -
1308. 1151 1160 1166 TO 1168 1170 1171 1173 1176 1178 1179 1183 1191 1193 -
1309. 1195 UNI GZ 5
1310. MEMBER LOAD
1311. 60 67 68 80 82 85 87 TO 89 92 115 117 129 134 137 139 140 145 TO 152 157 160 -
1312. 166 TO 168 172 173 177 179 180 182 184 185 188 TO 190 192 196 202 -
1313. 205 TO 208 211 217 225 227 TO 231 234 241 TO 243 247 248 250 255 257 259 -
1314. 261 262 268 269 271 273 275 278 280 TO 282 289 290 292 TO 296 299 -
1315. 301 TO 303 307 310 319 323 326 328 329 331 362 TO 369 374 377 383 TO 385 -
1316. 389 390 394 396 397 399 401 402 405 TO 407 409 413 419 422 TO 425 428 434 -
1317. 442 444 TO 448 451 458 TO 460 464 465 467 474 476 478 479 485 486 488 490 -
1318. 492 495 496 498 499 505 TO 511 514 516 TO 518 522 525 537 540 542 543 545 -
1319. 547 549 552 584 TO 591 596 599 605 TO 607 611 612 616 618 619 621 623 624 -
1320. 627 TO 629 631 633 639 642 TO 645 648 654 662 664 TO 668 671 678 TO 680 684 -
1321. 685 687 693 695 697 698 704 705 707 709 711 714 715 717 718 724 TO 730 733 -
1322. 735 TO 737 741 744 756 759 761 762 764 766 798 TO 805 810 813 819 TO 821 -
1323. 825 826 830 832 833 835 837 838 841 TO 843 845 847 853 856 TO 859 862 868 -
1324. 876 878 TO 882 885 892 TO 894 898 899 901 907 909 911 912 918 919 921 923 -
1325. 925 928 929 931 932 938 TO 944 947 949 2590 2592 2594 2596 UNI GX 6
1326. 60 67 68 80 82 85 87 TO 89 92 115 117 129 134 137 139 140 145 TO 152 157 160 -
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1327. 166 TO 168 172 173 177 179 180 182 184 185 188 TO 190 192 196 202 -
1328. 205 TO 208 211 217 225 227 TO 231 234 241 TO 243 247 248 250 255 257 259 -
1329. 261 262 268 269 271 273 275 278 280 TO 282 289 290 292 TO 296 299 -
1330. 301 TO 303 307 310 319 323 326 328 329 331 362 TO 369 374 377 383 TO 385 -
1331. 389 390 394 396 397 399 401 402 405 TO 407 409 413 419 422 TO 425 428 434 -
1332. 442 444 TO 448 451 458 TO 460 464 465 467 474 476 478 479 485 486 488 490 -
1333. 492 495 496 498 499 505 TO 511 514 516 TO 518 522 525 537 540 542 543 545 -
1334. 547 549 552 584 TO 591 596 599 605 TO 607 611 612 616 618 619 621 623 624 -
1335. 627 TO 629 631 633 639 642 TO 645 648 654 662 664 TO 668 671 678 TO 680 684 -
1336. 685 687 693 695 697 698 704 705 707 709 711 714 715 717 718 724 TO 730 733 -
1337. 735 TO 737 741 744 756 759 761 762 764 766 798 TO 805 810 813 819 TO 821 -
1338. 825 826 830 832 833 835 837 838 841 TO 843 845 847 853 856 TO 859 862 868 -
1339. 876 878 TO 882 885 892 TO 894 898 899 901 907 909 911 912 918 919 921 923 -
1340. 925 928 929 931 932 938 TO 944 947 949 2590 2592 2594 2596 UNI GY 6
1341. 60 67 68 80 82 85 87 TO 89 92 115 117 129 134 137 139 140 145 TO 152 157 160 -
1342. 166 TO 168 172 173 177 179 180 182 184 185 188 TO 190 192 196 202 -
1343. 205 TO 208 211 217 225 227 TO 231 234 241 TO 243 247 248 250 255 257 259 -
1344. 261 262 268 269 271 273 275 278 280 TO 282 289 290 292 TO 296 299 -
1345. 301 TO 303 307 310 319 323 326 328 329 331 362 TO 369 374 377 383 TO 385 -
1346. 389 390 394 396 397 399 401 402 405 TO 407 409 413 419 422 TO 425 428 434 -
1347. 442 444 TO 448 451 458 TO 460 464 465 467 474 476 478 479 485 486 488 490 -
1348. 492 495 496 498 499 505 TO 511 514 516 TO 518 522 525 537 540 542 543 545 -
1349. 547 549 552 584 TO 591 596 599 605 TO 607 611 612 616 618 619 621 623 624 -
1350. 627 TO 629 631 633 639 642 TO 645 648 654 662 664 TO 668 671 678 TO 680 684 -
1351. 685 687 693 695 697 698 704 705 707 709 711 714 715 717 718 724 TO 730 733 -
1352. 735 TO 737 741 744 756 759 761 762 764 766 798 TO 805 810 813 819 TO 821 -
1353. 825 826 830 832 833 835 837 838 841 TO 843 845 847 853 856 TO 859 862 868 -
1354. 876 878 TO 882 885 892 TO 894 898 899 901 907 909 911 912 918 919 921 923 -
1355. 925 928 929 931 932 938 TO 944 947 949 2590 2592 2594 2596 UNI GZ 6
1356. MEMBER LOAD
1357. 950 951 955 958 970 973 975 976 978 980 1012 TO 1019 1024 1027 1033 TO 1035 -
1358. 1039 1040 1044 1046 1047 1049 1051 1052 1055 TO 1057 1059 1061 1067 1070 -
1359. 1071 TO 1073 1076 1082 1090 1092 TO 1096 1099 1106 TO 1108 1112 1113 1115 -
1360. 1121 1123 1125 1126 1132 1133 1135 1137 1139 1142 1143 1145 1146 -
1361. 1152 TO 1158 1161 1163 TO 1165 1169 1172 1184 1187 1189 1190 1192 1194 1227 -
1362. 1235 1236 1247 TO 1249 1259 1262 1264 1265 1282 1313 1321 1327 1357 TO 1359 -
1363. 2598 UNI GX 6
1364. 950 951 955 958 970 973 975 976 978 980 1012 TO 1019 1024 1027 1033 TO 1035 -
1365. 1039 1040 1044 1046 1047 1049 1051 1052 1055 TO 1057 1059 1061 1067 1070 -
1366. 1071 TO 1073 1076 1082 1090 1092 TO 1096 1099 1106 TO 1108 1112 1113 1115 -
1367. 1121 1123 1125 1126 1132 1133 1135 1137 1139 1142 1143 1145 1146 -
1368. 1152 TO 1158 1161 1163 TO 1165 1169 1172 1184 1187 1189 1190 1192 1194 1227 -
1369. 1235 1236 1247 TO 1249 1259 1262 1264 1265 1282 1313 1321 1327 1357 TO 1359 -
1370. 2598 UNI GY 6
1371. 950 951 955 958 970 973 975 976 978 980 1012 TO 1019 1024 1027 1033 TO 1035 -
1372. 1039 1040 1044 1046 1047 1049 1051 1052 1055 TO 1057 1059 1061 1067 1070 -
1373. 1071 TO 1073 1076 1082 1090 1092 TO 1096 1099 1106 TO 1108 1112 1113 1115 -
1374. 1121 1123 1125 1126 1132 1133 1135 1137 1139 1142 1143 1145 1146 -
1375. 1152 TO 1158 1161 1163 TO 1165 1169 1172 1184 1187 1189 1190 1192 1194 1227 -
1376. 1235 1236 1247 TO 1249 1259 1262 1264 1265 1282 1313 1321 1327 1357 TO 1359 -
1377. 2598 UNI GZ 6
1378. MEMBER LOAD
1379. 69 79 84 90 91 110 130 138 154 155 178 181 183 186 195 197 198 215 218 237 -
1380. 246 253 283 325 371 372 395 398 400 403 412 414 415 432 435 453 454 463 499 -
1381. 539 593 594 617 620 622 625 632 634 635 652 655 673 674 683 718 758 807 808 -
1382. 831 834 836 839 846 848 849 866 869 887 888 897 932 972 1021 1022 1045 1048 -
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1383. 1050 1053 1060 1062 1063 1080 1083 1101 1102 1111 1146 1186 UNI GX 7
1384. 69 79 84 90 91 110 130 138 154 155 178 181 183 186 195 197 198 215 218 237 -
1385. 246 253 283 325 371 372 395 398 400 403 412 414 415 432 435 453 454 463 499 -
1386. 539 593 594 617 620 622 625 632 634 635 652 655 673 674 683 718 758 807 808 -
1387. 831 834 836 839 846 848 849 866 869 887 888 897 932 972 1021 1022 1045 1048 -
1388. 1050 1053 1060 1062 1063 1080 1083 1101 1102 1111 1146 1186 UNI GY 7
1389. 69 79 84 90 91 110 130 138 154 155 178 181 183 186 195 197 198 215 218 237 -
1390. 246 253 283 325 371 372 395 398 400 403 412 414 415 432 435 453 454 463 499 -
1391. 539 593 594 617 620 622 625 632 634 635 652 655 673 674 683 718 758 807 808 -
1392. 831 834 836 839 846 848 849 866 869 887 888 897 932 972 1021 1022 1045 1048 -
1393. 1050 1053 1060 1062 1063 1080 1083 1101 1102 1111 1146 1186 UNI GZ 7
1394. MEMBER LOAD
1395. 1315 UNI GX 13
1396. 1315 UNI GY 13
1397. 1315 UNI GZ 13
1398. MEMBER LOAD
1399. 171 199 258 300 327 388 416 475 515 541 610 636 694 734 760 824 850 908 948 -
1400. 974 1038 1064 1122 1162 1188 1226 TO 1232 1238 1241 1252 1269 TO 1271 1273 -
1401. 1275 1278 1304 1309 1334 1336 1347 1351 1353 1356 1366 TO 1372 1376 1379 -
1402. 1383 1386 1398 1402 1406 1408 2600 UNI GX 3
1403. 171 199 258 300 327 388 416 475 515 541 610 636 694 734 760 824 850 908 948 -
1404. 974 1038 1064 1122 1162 1188 1226 TO 1232 1238 1241 1252 1269 TO 1271 1273 -
1405. 1275 1278 1304 1309 1334 1336 1347 1351 1353 1356 1366 TO 1372 1376 1379 -
1406. 1383 1386 1398 1402 1406 1408 2600 UNI GY 3
1407. 171 199 258 300 327 388 416 475 515 541 610 636 694 734 760 824 850 908 948 -
1408. 974 1038 1064 1122 1162 1188 1226 TO 1232 1238 1241 1252 1269 TO 1271 1273 -
1409. 1275 1278 1304 1309 1334 1336 1347 1351 1353 1356 1366 TO 1372 1376 1379 -
1410. 1383 1386 1398 1402 1406 1408 2600 UNI GZ 3
1411. FLOOR LOAD
1412. YRANGE 4 22.8 FLOAD 5.125 GX
1413. YRANGE 4 22.8 FLOAD 5.125 GY
1414. YRANGE 4 22.8 FLOAD 5.125 GZ
1415. FLOOR LOAD
1416. YRANGE 19.5 19.7 FLOAD 1.6 GX
1417. YRANGE 19.5 19.7 FLOAD 1.6 GY
1418. YRANGE 19.5 19.7 FLOAD 1.6 GZ
1419. FLOOR LOAD
1420. _WT FLOAD 15 GX
1421. _WT FLOAD 15 GY
1422. _WT FLOAD 15 GZ
1423. SELFWEIGHT X 1
1424. SELFWEIGHT Y 1
1425. SELFWEIGHT Z 1
1426. FLOOR LOAD
1427. YRANGE 4 16.6 FLOAD 0.5 GX
1428. YRANGE 4 16.6 FLOAD 0.5 GY
1429. YRANGE 4 16.6 FLOAD 0.5 GZ
1430. END DEFINE REFERENCE LOADS

 *** NOTE: MASS MODEL FORMED WILL BE USED IN SEISMIC/RESPONSE/TIME HISTORY LOADING, IF ANY.
           IF MASS MODEL IS SEPARATELY PROVIDED IN INDIVIDUAL LOADING, THE GENERATED MASS
           WILL BE REPLACED BY THE MASS PROVIDED IN INDIVIDUAL LOADING.

1431. FLOOR DIAPHRAGM
1432. DIA 1 TYPE RIG HEI 4.1
1433. DIA 2 TYPE RIG HEI 7.2
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1434. DIA 3 TYPE RIG HEI 10.3
1435. DIA 4 TYPE RIG HEI 13.4
1436. DIA 5 TYPE RIG HEI 16.5
1437. DIA 6 TYPE RIG HEI 19.6
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FLOOR DIAPHRAGM

FLOOR DIAPHRAGM UNIT - KN METE

NO.	TYPE	FL. LEVEL	FL. WT	CENTRE OF MASS X	Z	CONTROL JOINT NO.
1	RIGID	4.100	4542.72	7.789	9.276	1728
2	RIGID	7.200	4346.43	7.532	9.223	1729
3	RIGID	10.300	4346.43	7.532	9.223	1730
4	RIGID	13.400	4346.43	7.532	9.223	1731
5	RIGID	16.500	4346.43	7.532	9.223	1732
6	RIGID	19.600	3505.56	7.582	8.989	1733

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1439. DEFINE IS1893 2016 LOAD
1440. ZONE 0.16 RF 5 I 1 SS 2 ST 1 DM 0.05 PX 0.38 PZ 0.35
1441. DEFINE WIND LOAD
1442. TYPE 1 IS875 RECT CLAD (+X)
1443. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
1444. IS875-2015:PARAMS 1 0 0 22.700 0.000 5.000 0 CHENNAI 50.000 0 1.000 2 6 -
1445. 0.910 0.910 0.910 0.970 1.010 1.023 1.000 2 1.000 0.200 0 19.500 23.260 -
1446. 22.700 1 1 1 0.200 0 0 4 0 4 1.000 0.000 0.000 0.000 NA NA 6 0.000 0.000 -
1447. 0.000 0.000 0.000 0.000 1 1 4 0.000 1.000 0.000 0.000 NA NA 6 0.000 0.000 -
1448. 0.000 0.000 0.000 0.000 1 2 4 0.000 0.000 1.000 0.000 NA NA 6 0.000 0.000 -
1449. 0.000 0.000 0.000 0.000 1 3 4 0.000 0.000 0.000 1.000 NA NA 6 0.000 0.000 -
1450. 0.000 0.000 0.000 0.000 1 0.900 1.000 0.900 TYPES 4 1 2 3 4 LOADS 4 9 10 11 -
1451. 12
1452. !> END GENERATED DATA BLOCK
1453. INT 1.00614 1.00614 1.00614 1.14319 1.23942 1.27278 HEIG 0 5 10 15 20 22.7
1454. TYPE 2 IS875 RECT CLAD (-X)
1455. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
1456. IS875-2015:PARAMS 1  1
1457. !> END GENERATED DATA BLOCK
1458. INT 1.00614 1.00614 1.00614 1.14319 1.23942 1.27278 HEIG 0 5 10 15 20 22.7
1459. TYPE 3 IS875 RECT CLAD (+Z)
1460. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
1461. IS875-2015:PARAMS 1  1
1462. !> END GENERATED DATA BLOCK
1463. INT 1.00614 1.00614 1.00614 1.14319 1.23942 1.27278 HEIG 0 5 10 15 20 22.7
1464. TYPE 4 IS875 RECT CLAD (-Z)
1465. <! STAAD PRO GENERATED DATA DO NOT MODIFY !!!
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```
1466. IS875-2015:PARAMS 1  1
1467. !> END GENERATED DATA BLOCK
1468. INT 1.00614 1.00614 1.00614 1.14319 1.23942 1.27278 HEIG 0 5 10 15 20 22.7
1469. LOAD 5 LOADTYPE SEISMIC-H  TITLE EQ+X
1470. 1893 LOAD X 1
1471. LOAD 6 LOADTYPE SEISMIC-H  TITLE EQ-X
1472. 1893 LOAD X -1.
1473. LOAD 7 LOADTYPE SEISMIC-H  TITLE EQ+Z
1474. 1893 LOAD Z 1
1475. LOAD 8 LOADTYPE SEISMIC-H  TITLE EQ-Z
1476. 1893 LOAD Z -1.
1477. LOAD 1 LOADTYPE DEAD  TITLE DL
1478. MEMBER LOAD
1479. 131 153 158 159 161 TO 165 169 174 TO 176 187 191 200 203 204 210 212 214 -
1480. 220 221 223 224 226 238 239 244 245 251 252 254 260 263 TO 266 272 274 277 -
1481. 284 285 287 288 297 304 TO 306 308 309 312 313 315 TO 318 322 330 332 370 -
1482. 373 376 378 TO 382 386 391 TO 393 404 408 417 421 427 429 431 437 438 440 -
1483. 441 443 455 456 461 462 469 471 477 481 TO 483 489 491 494 500 501 504 513 -
1484. 519 TO 521 523 524 526 529 531 532 536 544 546 550 553 554 592 595 598 600 -
1485. 601 TO 604 608 613 TO 615 626 630 637 641 647 649 651 657 658 660 661 663 -
1486. 675 676 681 682 689 691 696 700 TO 702 708 710 713 719 720 723 732 -
1487. 738 TO 740 742 743 745 748 750 751 755 763 765 767 806 809 812 814 TO 818 -
1488. 822 827 TO 829 840 844 851 855 861 863 865 871 872 874 875 877 889 890 895 -
1489. 896 903 905 910 914 TO 916 922 924 927 933 934 937 946 952 TO 954 956 957 -
1490. 959 962 964 965 969 977 979 981 1020 1023 1026 1028 TO 1032 1036 -
1491. 1041 TO 1043 1054 1058 1065 1069 1075 1077 1079 1085 1086 1088 1089 1091 -
1492. 1103 1104 1109 1110 1117 1119 1124 1128 TO 1130 1136 1138 1141 1147 1148 -
1493. 1151 1160 1166 TO 1168 1170 1171 1173 1176 1178 1179 1183 1191 1193 -
1494. 1195 UNI GY -5
1495. 60 67 68 80 82 85 87 TO 89 92 115 117 129 134 137 139 140 145 TO 152 157 160 -
1496. 166 TO 168 172 173 177 179 180 182 184 185 188 TO 190 192 196 202 -
1497. 205 TO 208 211 217 225 227 TO 231 234 241 TO 243 247 248 250 255 257 259 -
1498. 261 262 268 269 271 273 275 278 280 TO 282 289 290 292 TO 296 299 -
1499. 301 TO 303 307 310 319 323 326 328 329 331 362 TO 369 374 377 383 TO 385 -
1500. 389 390 394 396 397 399 401 402 405 TO 407 409 413 419 422 TO 425 428 434 -
1501. 442 444 TO 448 451 458 TO 460 464 465 467 474 476 478 479 485 486 488 490 -
1502. 492 495 496 498 499 505 TO 511 514 516 TO 518 522 525 537 540 542 543 545 -
1503. 547 549 552 584 TO 591 596 599 605 TO 607 611 612 616 618 619 621 623 624 -
1504. 627 TO 629 631 633 639 642 TO 645 648 654 662 664 TO 668 671 678 TO 680 684 -
1505. 685 687 693 695 697 698 704 705 707 709 711 714 715 717 718 724 TO 730 733 -
1506. 735 TO 737 741 744 756 759 761 762 764 766 798 TO 805 810 813 819 TO 821 -
1507. 825 826 830 832 833 835 837 838 841 TO 843 845 847 853 856 TO 859 862 868 -
1508. 876 878 TO 882 885 892 TO 894 898 899 901 907 909 911 912 918 919 921 923 -
1509. 925 928 929 931 932 938 TO 944 947 949 2590 2592 2594 2596 UNI GY -6
```

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```
1510. 950 951 955 958 970 973 975 976 978 980 1012 TO 1019 1024 1027 1033 TO 1035 -
1511. 1039 1040 1044 1046 1047 1049 1051 1052 1055 TO 1057 1059 1061 1067 1070 -
1512. 1071 TO 1073 1076 1082 1090 1092 TO 1096 1099 1106 TO 1108 1112 1113 1115 -
1513. 1121 1123 1125 1126 1132 1133 1135 1137 1139 1142 1143 1145 1146 -
1514. 1152 TO 1158 1161 1163 TO 1165 1169 1172 1184 1187 1189 1190 1192 1194 1227 -
1515. 1235 1236 1247 TO 1249 1259 1262 1264 1265 1282 1313 1321 1327 1357 TO 1359 -
1516. 2598 UNI GY -6
1517. 69 79 84 90 91 110 130 138 154 155 178 181 183 186 195 197 198 215 218 237 -
1518. 246 253 283 325 371 372 395 398 400 403 412 414 415 432 435 453 454 463 499 -
1519. 539 593 594 617 620 622 625 632 634 635 652 655 673 674 683 718 758 807 808 -
1520. 831 834 836 839 846 848 849 866 869 887 888 897 932 972 1021 1022 1045 1048 -
1521. 1050 1053 1060 1062 1063 1080 1083 1101 1102 1111 1146 1186 UNI GY -7
1522. 1315 UNI GY -13
1523. 171 199 258 300 327 388 416 475 515 541 610 636 694 734 760 824 850 908 948 -
1524. 974 1038 1064 1122 1162 1188 1226 TO 1232 1238 1241 1252 1269 TO 1271 1273 -
1525. 1275 1278 1304 1309 1334 1336 1347 1351 1353 1356 1366 TO 1372 1376 1379 -
1526. 1383 1386 1398 1402 1406 1408 2600 UNI GY -3
1527. FLOOR LOAD
1528. YRANGE 4 22.8 FLOAD -5.125 GY
**NOTE** about Floor/OneWay Loads/Weights.
 Please note that depending on the shape of the floor you may
 have to break up the FLOOR/ONEWAY LOAD into multiple commands.
 For details please refer to Technical Reference Manual
 Section 5.32.4.2 Note d and/or "5.32.4.3 Note f.

1529. YRANGE 19.5 19.7 FLOAD -1.6 GY
1530. _WT FLOAD -15 GY
**NOTE** about FLOOR GROUP command
 All floor panels in a floor group should lie in a single plane.
 If not lying in a single plane break single FLOOR GROUP
 command into multiple FLOOR GROUP commands where each
 floor group lie in a single plane / height.

1531. SELFWEIGHT Y -1
1532. LOAD 2 LOADTYPE LIVE  TITLE LL
1533. FLOOR LOAD
1534. YRANGE 4 16.6 FLOAD -2 GY
1535. YRANGE 19.5 19.7 FLOAD -1.5 GY
1536. LOAD 9 LOADTYPE SEISMIC-H  TITLE RS+X
1537. SPECTRUM CQC IS1893 2016 X 0.016 SCALE 2.644 DAMP 0.05
1538. SOIL TYPE 2
1539. LOAD 10 LOADTYPE SEISMIC-H  TITLE RS-X
1540. SPECTRUM CQC IS1893 2016 X -0.016 SCALE 2.644 DAMP 0.05
1541. SOIL TYPE 2
1542. LOAD 11 LOADTYPE SEISMIC-H  TITLE RS+Z
1543. SPECTRUM CQC IS1893 2016 Z 0.016 SCALE 3.037 DAMP 0.05
1544. SOIL TYPE 2
1545. LOAD 12 LOADTYPE SEISMIC-H  TITLE RS-Z
1546. SPECTRUM CQC IS1893 2016 Z -0.016 SCALE 3.037 DAMP 0.05
1547. SOIL TYPE 2
```



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```
1548. LOAD 13 LOADTYPE WIND  TITLE WIND (+X) IS875 RECT CLAD
1549. WIND LOAD X 1 TYPE 1 YR 4.1 22.7
 **WARNING-fx fy fz wind forces:  1.0137E-01  0.0000E+00  0.0000E+00
          at coordinates:        1.6680E+01  4.1000E+00  3.2000E+00 ignored.
 **WARNING-fx fy fz wind forces:  2.0274E-01  0.0000E+00  0.0000E+00
          at coordinates:        1.6680E+01  7.2000E+00  3.2000E+00 ignored.
 **WARNING-fx fy fz wind forces:  2.1922E-01  0.0000E+00  0.0000E+00
          at coordinates:        1.6680E+01  1.0300E+01  3.2000E+00 ignored.
 **WARNING-fx fy fz wind forces:  2.3035E-01  0.0000E+00  0.0000E+00
          at coordinates:        1.6680E+01  1.3400E+01  3.2000E+00 ignored.
 **WARNING-fx fy fz wind forces:  2.4943E-01  0.0000E+00  0.0000E+00
          at coordinates:        1.6680E+01  1.6500E+01  3.2000E+00 ignored.
 **WARNING-fx fy fz wind forces:  1.2487E-01  0.0000E+00  0.0000E+00
          at coordinates:        1.6680E+01  1.9600E+01  3.2000E+00 ignored.
1550. LOAD 14 LOADTYPE WIND  TITLE WIND (-X) IS875 RECT CLAD
1551. WIND LOAD X -1 TYPE 2 YR 4.1 22.7
 **WARNING-fx fy fz wind forces: -1.1073E+00  0.0000E+00  0.0000E+00
          at coordinates:        9.0600E+00  4.1000E+00  4.9200E+00 ignored.
 **WARNING-fx fy fz wind forces: -2.2145E+00  0.0000E+00  0.0000E+00
          at coordinates:        9.0600E+00  7.2000E+00  4.9200E+00 ignored.
 **WARNING-fx fy fz wind forces: -2.3750E+00  0.0000E+00  0.0000E+00
          at coordinates:        9.0600E+00  1.0300E+01  4.9200E+00 ignored.
 **WARNING-fx fy fz wind forces: -2.5162E+00  0.0000E+00  0.0000E+00
          at coordinates:        9.0600E+00  1.3400E+01  4.9200E+00 ignored.
 **WARNING-fx fy fz wind forces: -2.7218E+00  0.0000E+00  0.0000E+00
          at coordinates:        9.0600E+00  1.6500E+01  4.9200E+00 ignored.
 **WARNING-fx fy fz wind forces: -1.3640E+00  0.0000E+00  0.0000E+00
          at coordinates:        9.0600E+00  1.9600E+01  4.9200E+00 ignored.
1552. LOAD 15 LOADTYPE WIND  TITLE WIND (+Z) IS875 RECT CLAD
1553. WIND LOAD Z 1 TYPE 3 YR 4.1 22.7
1554. LOAD 16 LOADTYPE WIND  TITLE WIND (-Z) IS875 RECT CLAD
1555. WIND LOAD Z -1 TYPE 4 YR 4.1 22.7
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -1.4348E+00
          at coordinates:        4.3600E+00  7.2000E+00  6.6800E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -4.3666E-01
          at coordinates:       -8.6000E-01  4.1000E+00  6.6800E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -7.1738E-01
          at coordinates:        4.3600E+00  4.1000E+00  6.6800E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -8.7333E-01
          at coordinates:       -8.6000E-01  7.2000E+00  6.6800E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -1.0917E+00
          at coordinates:        1.6680E+01  4.1000E+00  0.0000E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -2.1833E+00
          at coordinates:        1.6680E+01  7.2000E+00  0.0000E+00 ignored.
```



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```
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -1.5514E+00
          at coordinates:         4.3600E+00  1.0300E+01  6.6800E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -9.4432E-01
          at coordinates:        -8.6000E-01  1.0300E+01  6.6800E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -2.3608E+00
          at coordinates:         1.6680E+01  1.0300E+01  0.0000E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -1.6302E+00
          at coordinates:         4.3600E+00  1.3400E+01  6.6800E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -9.9229E-01
          at coordinates:        -8.6000E-01  1.3400E+01  6.6800E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -2.4807E+00
          at coordinates:         1.6680E+01  1.3400E+01  0.0000E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -1.7652E+00
          at coordinates:         4.3600E+00  1.6500E+01  6.6800E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -1.0745E+00
          at coordinates:        -8.6000E-01  1.6500E+01  6.6800E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -2.6862E+00
          at coordinates:         1.6680E+01  1.6500E+01  0.0000E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -8.8371E-01
          at coordinates:         4.3600E+00  1.9600E+01  6.6800E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -5.3791E-01
          at coordinates:        -8.6000E-01  1.9600E+01  6.6800E+00 ignored.
 **WARNING-fx fy fz wind forces:  0.0000E+00  0.0000E+00 -1.3448E+00
          at coordinates:         1.6680E+01  1.9600E+01  0.0000E+00 ignored.
1556. LOAD COMB 3 DL+LL
1557. 1 1.0 2 1.0
1558. LOAD COMB 4 1.5DL+1.5LL
1559. 1 1.5 2 1.5
1560. LOAD COMB 17 DL+RS(+X)
1561. 1 1.0 9 1.0
1562. LOAD COMB 18 DL+RS(-X)
1563. 1 1.0 10 1.0
1564. LOAD COMB 19 DL+RS(+Z)
1565. 1 1.0 11 1.0
1566. LOAD COMB 20 DL+RS(-Z)
1567. 1 1.0 12 1.0
1568. LOAD COMB 21 DL+WL(+X)
1569. 1 1.0 13 1.0
1570. LOAD COMB 22 DL+WL(-X)
1571. 1 1.0 14 1.0
1572. LOAD COMB 23 DL+WL(+Z)
1573. 1 1.0 15 1.0
1574. LOAD COMB 24 DL+WL(-Z)
1575. 1 1.0 16 1.0
1576. LOAD COMB 25 1.0DL+0.8LL+0.8RS(+X)
1577. 1 1.0 9 0.8 2 0.8
1578. LOAD COMB 26 1.0DL+0.8LL+0.8RS(-X)
1579. 1 1.0 10 0.8 2 0.8
1580. LOAD COMB 27 1.0DL+0.8LL+0.8RS(+Z)
1581. 1 1.0 11 0.8 2 0.8
1582. LOAD COMB 28 1.0DL+0.8LL+0.8RS(-Z)
1583. 1 1.0 12 0.8 2 0.8
1584. LOAD COMB 29 1.0DL+0.8LL+0.8WL(+X)
1585. 1 1.0 13 0.8 2 0.8
1586. LOAD COMB 30 1.0DL+0.8LL+0.8WL(-X)
1587. 1 1.0 14 0.8 2 0.8
```

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```
1588. LOAD COMB 31 1.0DL+0.8LL+0.8WL(+Z)
1589. 1 1.0 15 0.8 2 0.8
1590. LOAD COMB 32 1.0DL+0.8LL+0.8WL(-Z)
1591. 1 1.0 16 0.8 2 0.8
1592. LOAD COMB 33 1.2DL+1.2LL+1.2RS(+X)
1593. 1 1.2 2 1.2 9 1.2
1594. LOAD COMB 34 1.2DL+1.2LL+1.2RS(-X)
1595. 1 1.2 2 1.2 10 1.2
1596. LOAD COMB 35 1.2DL+1.2LL+1.2RS(+Z)
1597. 1 1.2 2 1.2 11 1.2
1598. LOAD COMB 36 1.2DL+1.2LL+1.2RS(-Z)
1599. 1 1.2 2 1.2 12 1.2
1600. LOAD COMB 37 1.2DL+1.2LL+1.2WL(+X)
1601. 1 1.2 2 1.2 13 1.2
1602. LOAD COMB 38 1.2DL+1.2LL+1.2WL(-X)
1603. 1 1.2 2 1.2 14 1.2
1604. LOAD COMB 39 1.2DL+1.2LL+1.2WL(+Z)
1605. 1 1.2 2 1.2 15 1.2
1606. LOAD COMB 40 1.2DL+1.2LL+1.2WL(-Z)
1607. 1 1.2 2 1.2 16 1.2
1608. LOAD COMB 41 0.9DL+1.5RS(+X)
1609. 1 0.9 9 1.5
1610. LOAD COMB 42 0.9DL+1.5RS(-X)
1611. 1 0.9 10 1.5
1612. LOAD COMB 43 0.9DL+1.5RS(+Z)
1613. 1 0.9 11 1.5
1614. LOAD COMB 44 0.9DL+1.5RS(-Z)
1615. 1 0.9 12 1.5
1616. LOAD COMB 45 0.9DL+1.5WL(+X)
1617. 1 0.9 13 1.5
1618. LOAD COMB 46 0.9DL+1.5WL(-X)
1619. 1 0.9 14 1.5
1620. LOAD COMB 47 0.9DL+1.5WL(+Z)
1621. 1 0.9 15 1.5
1622. LOAD COMB 48 0.9DL+1.5WL(-Z)
1623. 1 0.9 16 1.5
1624. LOAD COMB 49 1.5DL+1.5RS(+X)
1625. 1 1.5 9 1.5
1626. LOAD COMB 50 1.5DL+1.5RS(-X)
1627. 1 1.5 10 1.5
1628. LOAD COMB 51 1.5DL+1.5RS(+Z)
1629. 1 1.5 11 1.5
1630. LOAD COMB 52 1.5DL+1.5RS(-Z)
1631. 1 1.5 12 1.5
1632. LOAD COMB 53 1.5DL+1.5WL(+X)
1633. 1 1.5 13 1.5
1634. LOAD COMB 54 1.5DL+1.5WL(-X)
1635. 1 1.5 14 1.5
1636. LOAD COMB 55 1.5DL+1.5WL(+Z)
1637. 1 1.5 15 1.5
1638. LOAD COMB 56 1.5DL+1.5WL(-Z)
1639. 1 1.5 16 1.5
1640. PERFORM ANALYSIS
```

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

NUMBER OF JOINTS	1729	NUMBER OF MEMBERS	1416
NUMBER OF PLATES	791	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	38

Using 64-bit analysis engine.

SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

TOTAL PRIMARY LOAD CASES = 14, TOTAL DEGREES OF FREEDOM = 7623
TOTAL LOAD COMBINATION CASES = 42 SO FAR.

***NOTE: MASSES DEFINED UNDER LOAD# 9 WILL FORM
THE FINAL MASS MATRIX FOR DYNAMIC ANALYSIS.

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

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

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR X 1893 LOADING =    0.38000 SEC       *
* SA/G PER 1893=    2.500, LOAD FACTOR= 1.000           *
* VB PER 1893=    0.0400 X    28355.76=    1134.23 KN   *
* VB Act Based on Clause 7.2.1 =     1134.23 KN         *
* VB Min based on Clause 7.2.2 =      311.91 KN         *
*                                                       *
*********************************************************
```

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

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR X 1893 LOADING =    0.38000 SEC       *
* SA/G PER 1893=    2.500, LOAD FACTOR=-1.000           *
* VB PER 1893=    0.0400 X    28355.76=   -1134.23 KN   *
* VB Act Based on Clause 7.2.1 =    -1134.23 KN         *
* VB Min based on Clause 7.2.2 =     -311.91 KN         *
*                                                       *
*********************************************************
```

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

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STAAD SPACE -- PAGE NO. 34

BASE SHEAR AND TIME PERIOD IN Z

```
   *******************************************************
   * UNITS - KN    METE                                  *
   * TIME PERIOD FOR Z 1893 LOADING =    0.35000 SEC     *
   * SA/G PER 1893=    2.500, LOAD FACTOR= 1.000         *
   * VB PER 1893=    0.0400 X    28355.76=    1134.23 KN  *
   * VB Act Based on Clause 7.2.1 =     1134.23 KN       *
   * VB Min based on Clause 7.2.2 =      311.91 KN       *
   *                                                     *
   *******************************************************
```

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

BASE SHEAR AND TIME PERIOD IN Z

```
   *******************************************************
   * UNITS - KN    METE                                  *
   * TIME PERIOD FOR Z 1893 LOADING =    0.35000 SEC     *
   * SA/G PER 1893=    2.500, LOAD FACTOR=-1.000         *
   * VB PER 1893=    0.0400 X    28355.76=   -1134.23 KN  *
   * VB Act Based on Clause 7.2.1 =    -1134.23 KN       *
   * VB Min based on Clause 7.2.2 =     -311.91 KN       *
   *                                                     *
   *******************************************************

 EIGEN METHOD   : SUBSPACE
 -------------------------
 NUMBER OF MODES REQUESTED              =    15
 NUMBER OF EXISTING MASSES IN THE MODEL =  3391
 NUMBER OF MODES THAT WILL BE USED      =    15

   *** EIGENSOLUTION: ADVANCED METHOD ***
```

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STAAD SPACE -- PAGE NO. 35

CALCULATED FREQUENCIES FOR LOAD CASE 9

MODE	FREQUENCY(CYCLES/SEC)	PERIOD(SEC)
1	0.779	1.28289
2	0.923	1.08362
3	0.948	1.05492
4	2.422	0.41289
5	2.880	0.34723
6	3.084	0.32425
7	3.597	0.27803
8	4.199	0.23816
9	4.907	0.20380
10	5.620	0.17793
11	5.785	0.17287
12	6.097	0.16403
13	6.173	0.16199
14	6.292	0.15893
15	6.510	0.15361

1893 RESPONSE SPECTRUM LOAD 9

RESPONSE LOAD CASE 9

MODE	MODAL WEIGHT (MODAL MASS TIMES g) IN KN X	Y	Z	GENERALIZED WEIGHT
1	9.380843E+02	9.543696E-01	3.998422E+03	5.671607E+03
2	1.043295E+04	1.487222E+00	9.757881E+03	1.315444E+04
3	9.845024E+03	1.405779E+00	6.714583E+03	6.050299E+03
4	1.504307E+02	1.149841E+00	4.661289E+02	7.652406E+03
5	1.026198E-03	1.293634E-02	1.404698E+03	3.706738E+02
6	3.087168E+03	1.182397E+01	1.271120E+02	3.735171E+03
7	4.348322E+01	3.995463E-01	2.202886E+03	1.256000E+03
8	3.047101E+02	2.426182E+00	2.740769E+02	4.091726E+03
9	3.222897E+02	1.183513E+01	1.232450E+02	7.310361E+02
10	1.951949E+01	1.951291E+03	3.395928E-01	4.800388E+02
11	2.045944E+01	3.002228E+03	7.112825E+00	5.564766E+02
12	5.064904E+01	2.725123E+00	6.813153E+01	9.545584E+02
13	5.398881E+00	2.243921E+03	2.361728E+00	4.490965E+02
14	1.309355E+02	3.907543E-01	4.693268E+02	1.996161E+03
15	5.954948E+00	2.542650E+00	1.636019E-02	4.439569E+02

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

CQC MODAL COMBINATION METHOD USED.
DYNAMIC WEIGHT X Y Z 2.829439E+04 2.829439E+04 2.829439E+04 KN
MISSING WEIGHT X Y Z -2.937333E+03 -2.105980E+04 -2.678070E+03 KN
MODAL WEIGHT X Y Z 2.535706E+04 7.234593E+03 2.561632E+04 KN

RESPONSE LOAD CASE 9

MODE	SPECTRAL ACCELERATION	DESIGN SEISMIC COEFFICIENT		
		X	Y	Z
1	1.06010	0.0448	0.0000	0.0000
2	1.25505	0.0531	0.0000	0.0000
3	1.28920	0.0545	0.0000	0.0000
4	2.50000	0.1058	0.0000	0.0000
5	2.50000	0.1058	0.0000	0.0000
6	2.50000	0.1058	0.0000	0.0000
7	2.50000	0.1058	0.0000	0.0000
8	2.50000	0.1058	0.0000	0.0000
9	2.50000	0.1058	0.0000	0.0000
10	2.50000	0.1058	0.0000	0.0000
11	2.50000	0.1058	0.0000	0.0000
12	2.50000	0.1058	0.0000	0.0000
13	2.50000	0.1058	0.0000	0.0000
14	2.50000	0.1058	0.0000	0.0000
15	2.50000	0.1058	0.0000	0.0000

PEAK STORY SHEAR

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN		
		X	Y	Z
6	19.60	379.79	0.00	0.00
5	16.50	621.25	0.00	0.00
4	13.40	797.24	0.00	0.00
3	10.30	944.74	0.00	0.00
2	7.20	1065.54	0.00	0.00
1	4.10	1133.39	0.00	0.00
BASE	0.00	1135.53	0.00	0.00

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

MODE	ACCELERATION-G	DAMPING
1	2.80292	0.05000
2	3.31835	0.05000
3	3.40864	0.05000
4	6.61000	0.05000
5	6.61000	0.05000
6	6.61000	0.05000
7	6.61000	0.05000
8	6.61000	0.05000
9	6.61000	0.05000
10	6.61000	0.05000
11	6.61000	0.05000
12	6.61000	0.05000
13	6.61000	0.05000
14	6.61000	0.05000
15	6.61000	0.05000

MODAL BASE ACTIONS

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
1	1.283	42.07	-1.34	86.86	1282.51	-349.27	-722.49
2	1.084	553.92	-6.61	-535.70	-8073.47	8746.71	-8387.41
3	1.055	536.93	-6.42	443.42	6869.60	1571.69	-7925.27
4	0.413	15.91	1.39	28.01	15.56	25.75	-2.40
5	0.347	0.00	-0.00	-0.13	-0.22	1.25	0.01
6	0.324	326.50	20.21	-66.25	-277.21	3983.26	206.60
7	0.278	4.60	-0.44	32.73	57.09	-181.73	0.59
8	0.238	32.23	-2.88	30.56	125.89	-81.41	-81.35
9	0.204	34.09	-6.53	-21.08	-45.89	348.89	-140.76
10	0.178	2.06	-20.64	0.27	105.87	8.30	-297.89
11	0.173	2.16	26.21	1.28	-125.44	0.63	329.71
12	0.164	5.36	1.24	-6.21	23.95	44.83	10.25
13	0.162	0.57	11.64	-0.38	-224.86	5.63	5.59
14	0.159	13.85	-0.76	-26.22	-45.54	280.23	-30.83
15	0.154	0.63	0.41	0.03	-1.60	5.66	3.40

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SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

STAAD SPACE -- PAGE NO. 38

PARTICIPATION FACTORS

MODE	MASS PARTICIPATION FACTORS IN PERCENT X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	BASE SHEAR IN KN X	Y	Z
1	3.32	0.00	14.13	3.315	0.003	14.131	42.07	0.00	0.00
2	36.87	0.01	34.49	40.188	0.009	48.618	553.92	0.00	0.00
3	34.79	0.00	23.73	74.983	0.014	72.350	536.93	0.00	0.00
4	0.53	0.00	1.65	75.515	0.018	73.997	15.91	0.00	0.00
5	0.00	0.00	4.96	75.515	0.018	78.962	0.00	0.00	0.00
6	10.91	0.04	0.45	86.426	0.059	79.411	326.50	0.00	0.00
7	0.15	0.00	7.79	86.579	0.061	87.196	4.60	0.00	0.00
8	1.08	0.01	0.97	87.656	0.069	88.165	32.23	0.00	0.00
9	1.14	0.04	0.44	88.795	0.111	88.601	34.09	0.00	0.00
10	0.07	6.90	0.00	88.864	7.008	88.602	2.06	0.00	0.00
11	0.07	10.61	0.03	88.937	17.618	88.627	2.16	0.00	0.00
12	0.18	0.01	0.24	89.116	17.628	88.868	5.36	0.00	0.00
13	0.02	7.93	0.01	89.135	25.559	88.876	0.57	0.00	0.00
14	0.46	0.00	1.66	89.598	25.560	90.535	13.85	0.00	0.00
15	0.02	0.01	0.00	89.619	25.569	90.535	0.63	0.00	0.00
					TOTAL SRSS SHEAR		840.36	0.00	0.00
					TOTAL 10PCT SHEAR		1140.77	0.00	0.00
					TOTAL ABS SHEAR		1570.88	0.00	0.00
					TOTAL CSM SHEAR		1443.46	0.00	0.00
					TOTAL CQC SHEAR		1135.53	0.00	0.00

```
*********************************************************
* UNITS - KN    METE                                    *
* TIME PERIOD FOR X 1893 LOADING =    0.38000 SEC       *
* SA/G PER 1893=    2.500, LOAD FACTOR= 1.000           *
*      FACTOR V  PER 1893=    0.0400 X  28355.76        *
* VB Min based on Clause 7.2.2 =      311.91            *
*********************************************************
```

1893 RESPONSE SPECTRUM LOAD 10

RESPONSE LOAD CASE 10

MODE	MODAL WEIGHT (MODAL MASS TIMES g) IN KN X	Y	Z	GENERALIZED WEIGHT
1	9.380843E+02	9.543696E-01	3.998422E+03	5.671607E+03
2	1.043295E+04	1.487222E+00	9.757881E+03	1.315444E+04
3	9.845024E+03	1.405779E+00	6.714583E+03	6.050299E+03

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4	1.504307E+02	1.149841E+00	4.661289E+02	7.652406E+03
5	1.026198E-03	1.293634E-02	1.404698E+03	3.706738E+02
6	3.087168E+03	1.182397E+01	1.271120E+02	3.735171E+03
7	4.348322E+01	3.995463E-01	2.202886E+03	1.256000E+03
8	3.047101E+02	2.426182E+00	2.740769E+02	4.091726E+03
9	3.222897E+02	1.183513E+01	1.232450E+02	7.310361E+02
10	1.951949E+01	1.951291E+03	3.395928E-01	4.800388E+02
11	2.045944E+01	3.002228E+03	7.112825E+00	5.564766E+02
12	5.064904E+01	2.725123E+00	6.813153E+01	9.545584E+02
13	5.398881E+00	2.243921E+03	2.361728E+00	4.490965E+02
14	1.309355E+02	3.907543E-01	4.693268E+02	1.996161E+03
15	5.954948E+00	2.542650E+00	1.636019E-02	4.439569E+02

CQC MODAL COMBINATION METHOD USED.

DYNAMIC WEIGHT X Y Z	2.829439E+04	2.829439E+04	2.829439E+04	KN
MISSING WEIGHT X Y Z	-2.937333E+03	-2.105980E+04	-2.678070E+03	KN
MODAL WEIGHT X Y Z	2.535706E+04	7.234593E+03	2.561632E+04	KN

RESPONSE LOAD CASE 10

MODE	SPECTRAL ACCELERATION	DESIGN SEISMIC COEFFICIENT		
		X	Y	Z
1	1.06010	-0.0448	0.0000	0.0000
2	1.25505	-0.0531	0.0000	0.0000
3	1.28920	-0.0545	0.0000	0.0000
4	2.50000	-0.1058	0.0000	0.0000
5	2.50000	-0.1058	0.0000	0.0000
6	2.50000	-0.1058	0.0000	0.0000
7	2.50000	-0.1058	0.0000	0.0000
8	2.50000	-0.1058	0.0000	0.0000
9	2.50000	-0.1058	0.0000	0.0000
10	2.50000	-0.1058	0.0000	0.0000
11	2.50000	-0.1058	0.0000	0.0000
12	2.50000	-0.1058	0.0000	0.0000
13	2.50000	-0.1058	0.0000	0.0000
14	2.50000	-0.1058	0.0000	0.0000
15	2.50000	-0.1058	0.0000	0.0000

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PEAK STORY SHEAR

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN		
		X	Y	Z
6	19.60	379.79	0.00	0.00
5	16.50	621.25	0.00	0.00
4	13.40	797.24	0.00	0.00
3	10.30	944.74	0.00	0.00
2	7.20	1065.54	0.00	0.00
1	4.10	1133.39	0.00	0.00
BASE	0.00	1135.53	0.00	0.00

MODE	ACCELERATION-G	DAMPING
1	2.80292	0.05000
2	3.31835	0.05000
3	3.40864	0.05000
4	6.61000	0.05000
5	6.61000	0.05000
6	6.61000	0.05000
7	6.61000	0.05000
8	6.61000	0.05000
9	6.61000	0.05000
10	6.61000	0.05000
11	6.61000	0.05000
12	6.61000	0.05000
13	6.61000	0.05000
14	6.61000	0.05000
15	6.61000	0.05000

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MODAL BASE ACTIONS

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
1	1.283	-42.07	1.34	-86.86	-1282.51	349.27	722.49
2	1.084	-553.92	6.61	535.70	8073.47	-8746.71	8387.41
3	1.055	-536.93	6.42	-443.42	-6869.60	-1571.69	7925.27
4	0.413	-15.91	-1.39	-28.01	-15.56	-25.75	2.40
5	0.347	-0.00	0.00	0.13	0.22	-1.25	-0.01
6	0.324	-326.50	-20.21	66.25	277.21	-3983.26	-206.60
7	0.278	-4.60	0.44	-32.73	-57.09	181.73	-0.59
8	0.238	-32.23	2.88	-30.56	-125.89	81.41	81.35
9	0.204	-34.09	6.53	21.08	45.89	-348.89	140.76
10	0.178	-2.06	20.64	-0.27	-105.87	-8.30	297.89
11	0.173	-2.16	-26.21	-1.28	125.44	-0.63	-329.71
12	0.164	-5.36	-1.24	6.21	-23.95	-44.83	-10.25
13	0.162	-0.57	-11.64	0.38	224.86	-5.63	-5.59
14	0.159	-13.85	0.76	26.22	45.54	-280.23	30.83
15	0.154	-0.63	-0.41	-0.03	1.60	-5.66	-3.40

PARTICIPATION FACTORS

	MASS PARTICIPATION FACTORS IN PERCENT						BASE SHEAR IN KN		
MODE	X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	X	Y	Z
1	3.32	0.00	14.13	3.315	0.003	14.131	-42.07	0.00	0.00
2	36.87	0.01	34.49	40.188	0.009	48.618	-553.92	0.00	0.00
3	34.79	0.00	23.73	74.983	0.014	72.350	-536.93	0.00	0.00
4	0.53	0.00	1.65	75.515	0.018	73.997	-15.91	0.00	0.00
5	0.00	0.00	4.96	75.515	0.018	78.962	-0.00	0.00	0.00
6	10.91	0.04	0.45	86.426	0.059	79.411	-326.50	0.00	0.00
7	0.15	0.00	7.79	86.579	0.061	87.196	-4.60	0.00	0.00
8	1.08	0.01	0.97	87.656	0.069	88.165	-32.23	0.00	0.00
9	1.14	0.04	0.44	88.795	0.111	88.601	-34.09	0.00	0.00
10	0.07	6.90	0.00	88.864	7.008	88.602	-2.06	0.00	0.00
11	0.07	10.61	0.03	88.937	17.618	88.627	-2.16	0.00	0.00
12	0.18	0.01	0.24	89.116	17.628	88.868	-5.36	0.00	0.00
13	0.02	7.93	0.01	89.135	25.559	88.876	-0.57	0.00	0.00
14	0.46	0.00	1.66	89.598	25.560	90.535	-13.85	0.00	0.00
15	0.02	0.01	0.00	89.619	25.569	90.535	-0.63	0.00	0.00
					TOTAL SRSS	SHEAR	-840.36	0.00	0.00
					TOTAL 10PCT	SHEAR	-1140.77	0.00	0.00
					TOTAL ABS	SHEAR	-1570.88	0.00	0.00
					TOTAL CSM	SHEAR	-1443.46	0.00	0.00
					TOTAL CQC	SHEAR	-1135.53	0.00	0.00

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SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

1893 RESPONSE SPECTRUM LOAD 11

RESPONSE LOAD CASE 11

MODE	MODAL WEIGHT (MODAL MASS TIMES g) IN KN X	Y	Z	GENERALIZED WEIGHT
1	9.380843E+02	9.543696E-01	3.998422E+03	5.671607E+03
2	1.043295E+04	1.487222E+00	9.757881E+03	1.315444E+04
3	9.845024E+03	1.405779E+00	6.714583E+03	6.050299E+03
4	1.504307E+02	1.149841E+00	4.661289E+02	7.652406E+03
5	1.026198E-03	1.293634E-02	1.404698E+03	3.706738E+02
6	3.087168E+03	1.182397E+01	1.271120E+02	3.735171E+03
7	4.348322E+01	3.995463E-01	2.202886E+03	1.256000E+03
8	3.047101E+02	2.426182E+00	2.740769E+02	4.091726E+03
9	3.222897E+02	1.183513E+01	1.232450E+02	7.310361E+02
10	1.951949E+01	1.951291E+03	3.395928E-01	4.800388E+02
11	2.045944E+01	3.002228E+03	7.112825E+00	5.564766E+02
12	5.064904E+01	2.725123E+00	6.813153E+01	9.545584E+02
13	5.398881E+00	2.243921E+03	2.361728E+00	4.490965E+02
14	1.309355E+02	3.907543E-01	4.693268E+02	1.996161E+03
15	5.954948E+00	2.542650E+00	1.636019E-02	4.439569E+02

CQC MODAL COMBINATION METHOD USED.

DYNAMIC WEIGHT X Y Z	2.829439E+04	2.829439E+04	2.829439E+04	KN
MISSING WEIGHT X Y Z	-2.937333E+03	-2.105980E+04	-2.678070E+03	KN
MODAL WEIGHT X Y Z	2.535706E+04	7.234593E+03	2.561632E+04	KN

RESPONSE LOAD CASE 11

MODE	SPECTRAL ACCELERATION	DESIGN SEISMIC COEFFICIENT X	Y	Z
1	1.06010	0.0000	0.0000	0.0515
2	1.25505	0.0000	0.0000	0.0610
3	1.28920	0.0000	0.0000	0.0626
4	2.50000	0.0000	0.0000	0.1215
5	2.50000	0.0000	0.0000	0.1215
6	2.50000	0.0000	0.0000	0.1215
7	2.50000	0.0000	0.0000	0.1215
8	2.50000	0.0000	0.0000	0.1215
9	2.50000	0.0000	0.0000	0.1215
10	2.50000	0.0000	0.0000	0.1215
11	2.50000	0.0000	0.0000	0.1215
12	2.50000	0.0000	0.0000	0.1215

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13	2.50000	0.0000	0.0000	0.1215
14	2.50000	0.0000	0.0000	0.1215
15	2.50000	0.0000	0.0000	0.1215

PEAK STORY SHEAR

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN		
		X	Y	Z
6	19.60	0.00	0.00	394.92
5	16.50	0.00	0.00	637.86
4	13.40	0.00	0.00	811.47
3	10.30	0.00	0.00	950.47
2	7.20	0.00	0.00	1065.04
1	4.10	0.00	0.00	1132.17
BASE	0.00	0.00	0.00	1134.30

MODE	ACCELERATION-G	DAMPING
1	3.21954	0.05000
2	3.81159	0.05000
3	3.91530	0.05000
4	7.59250	0.05000
5	7.59250	0.05000
6	7.59250	0.05000
7	7.59250	0.05000
8	7.59250	0.05000
9	7.59250	0.05000
10	7.59250	0.05000
11	7.59250	0.05000
12	7.59250	0.05000
13	7.59250	0.05000
14	7.59250	0.05000
15	7.59250	0.05000

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3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

MODAL BASE ACTIONS

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
1	1.283	99.77	-3.18	205.97	3041.36	-828.27	-1713.32
2	1.084	-615.33	7.35	595.09	8968.46	-9716.33	9317.20
3	1.055	509.33	-6.09	420.63	6516.53	1490.91	-7517.94
4	0.413	32.17	2.81	56.63	31.47	52.06	-4.85
5	0.347	-0.15	0.52	170.64	295.45	-1674.37	-11.06
6	0.324	-76.10	-4.71	15.44	64.61	-928.40	-48.15
7	0.278	37.60	-3.60	267.61	466.76	-1485.79	4.85
8	0.238	35.11	-3.13	33.29	137.14	-88.69	-88.62
9	0.204	-24.21	4.64	14.97	32.59	-247.82	99.98
10	0.178	0.31	-3.13	0.04	16.04	1.26	-45.13
11	0.173	1.47	17.75	0.86	-84.96	0.43	223.30
12	0.164	-7.14	-1.66	8.28	-31.91	-59.72	-13.65
13	0.162	-0.43	-8.84	0.29	170.83	-4.28	-4.24
14	0.159	-30.11	1.65	57.01	99.03	-609.40	67.05
15	0.154	0.04	0.02	0.00	-0.10	0.34	0.20

PARTICIPATION FACTORS

MODE	MASS PARTICIPATION FACTORS IN PERCENT X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	BASE SHEAR IN KN X	Y	Z
1	3.32	0.00	14.13	3.315	0.003	14.131	0.00	0.00	205.97
2	36.87	0.01	34.49	40.188	0.009	48.618	0.00	0.00	595.09
3	34.79	0.00	23.73	74.983	0.014	72.350	0.00	0.00	420.63
4	0.53	0.00	1.65	75.515	0.018	73.997	0.00	0.00	56.63
5	0.00	0.00	4.96	75.515	0.018	78.962	0.00	0.00	170.64
6	10.91	0.04	0.45	86.426	0.059	79.411	0.00	0.00	15.44
7	0.15	0.00	7.79	86.579	0.061	87.196	0.00	0.00	267.61
8	1.08	0.01	0.97	87.656	0.069	88.165	0.00	0.00	33.29
9	1.14	0.04	0.44	88.795	0.111	88.601	0.00	0.00	14.97
10	0.07	6.90	0.00	88.864	7.008	88.602	0.00	0.00	0.04
11	0.07	10.61	0.03	88.937	17.618	88.627	0.00	0.00	0.86
12	0.18	0.01	0.24	89.116	17.628	88.868	0.00	0.00	8.28
13	0.02	7.93	0.01	89.135	25.559	88.876	0.00	0.00	0.29
14	0.46	0.00	1.66	89.598	25.560	90.535	0.00	0.00	57.01
15	0.02	0.01	0.00	89.619	25.569	90.535	0.00	0.00	0.00
					TOTAL SRSS SHEAR		0.00	0.00	826.02
					TOTAL 10PCT SHEAR		0.00	0.00	1090.55
					TOTAL ABS SHEAR		0.00	0.00	1846.76
					TOTAL CSM SHEAR		0.00	0.00	1314.21
					TOTAL CQC SHEAR		0.00	0.00	1134.30

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Mobile: 9841269154

```
*********************************************************
* UNITS - KN     METE                                   *
* TIME PERIOD FOR Z 1893 LOADING =     0.35000 SEC      *
* SA/G PER 1893=     2.500, LOAD FACTOR= 1.000          *
*       FACTOR V  PER 1893=     0.0400 X  28355.76      *
* VB Min based on Clause 7.2.2 =       311.91           *
*********************************************************
```

1893 RESPONSE SPECTRUM LOAD 12

RESPONSE LOAD CASE 12

MODE	MODAL WEIGHT (MODAL MASS TIMES g) IN KN X	Y	Z	GENERALIZED WEIGHT
1	9.380843E+02	9.543696E-01	3.998422E+03	5.671607E+03
2	1.043295E+04	1.487222E+00	9.757881E+03	1.315444E+04
3	9.845024E+03	1.405779E+00	6.714583E+03	6.050299E+03
4	1.504307E+02	1.149841E+00	4.661289E+02	7.652406E+03
5	1.026198E-03	1.293634E-02	1.404698E+03	3.706738E+02
6	3.087168E+03	1.182397E+01	1.271120E+02	3.735171E+03
7	4.348322E+01	3.995463E-01	2.202886E+03	1.256000E+03
8	3.047101E+02	2.426182E+00	2.740769E+02	4.091726E+03
9	3.222897E+02	1.183513E+01	1.232450E+02	7.310361E+02
10	1.951949E+01	1.951291E+03	3.395928E-01	4.800388E+02
11	2.045944E+01	3.002228E+03	7.112825E+00	5.564766E+02
12	5.064904E+01	2.725123E+00	6.813153E+01	9.545584E+02
13	5.398881E+00	2.243921E+03	2.361728E+00	4.490965E+02
14	1.309355E+02	3.907543E-01	4.693268E+02	1.996161E+03
15	5.954948E+00	2.542650E+00	1.636019E-02	4.439569E+02

CQC MODAL COMBINATION METHOD USED.

DYNAMIC WEIGHT X Y Z	2.829439E+04	2.829439E+04	2.829439E+04	KN
MISSING WEIGHT X Y Z	-2.937333E+03	-2.105980E+04	-2.678070E+03	KN
MODAL WEIGHT X Y Z	2.535706E+04	7.234593E+03	2.561632E+04	KN

RESPONSE LOAD CASE 12

MODE	SPECTRAL ACCELERATION	DESIGN SEISMIC COEFFICIENT X	Y	Z
1	1.06010	0.0000	0.0000	-0.0515
2	1.25505	0.0000	0.0000	-0.0610

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3	1.28920	0.0000	0.0000	-0.0626
4	2.50000	0.0000	0.0000	-0.1215
5	2.50000	0.0000	0.0000	-0.1215
6	2.50000	0.0000	0.0000	-0.1215
7	2.50000	0.0000	0.0000	-0.1215
8	2.50000	0.0000	0.0000	-0.1215
9	2.50000	0.0000	0.0000	-0.1215
10	2.50000	0.0000	0.0000	-0.1215
11	2.50000	0.0000	0.0000	-0.1215
12	2.50000	0.0000	0.0000	-0.1215
13	2.50000	0.0000	0.0000	-0.1215
14	2.50000	0.0000	0.0000	-0.1215
15	2.50000	0.0000	0.0000	-0.1215

PEAK STORY SHEAR

STORY	LEVEL IN METE	PEAK STORY SHEAR IN KN		
		X	Y	Z
6	19.60	0.00	0.00	394.92
5	16.50	0.00	0.00	637.86
4	13.40	0.00	0.00	811.47
3	10.30	0.00	0.00	950.47
2	7.20	0.00	0.00	1065.04
1	4.10	0.00	0.00	1132.17
BASE	0.00	0.00	0.00	1134.30

MODE	ACCELERATION-G	DAMPING
1	3.21954	0.05000
2	3.81159	0.05000
3	3.91530	0.05000
4	7.59250	0.05000
5	7.59250	0.05000
6	7.59250	0.05000
7	7.59250	0.05000
8	7.59250	0.05000
9	7.59250	0.05000
10	7.59250	0.05000
11	7.59250	0.05000
12	7.59250	0.05000
13	7.59250	0.05000
14	7.59250	0.05000
15	7.59250	0.05000

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MODAL BASE ACTIONS

MODAL BASE ACTIONS FORCES IN KN LENGTH IN METE

MODE	PERIOD	FX	FY	FZ	MOMENTS ARE ABOUT THE ORIGIN MX	MY	MZ
1	1.283	-99.77	3.18	-205.97	-3041.36	828.27	1713.32
2	1.084	615.33	-7.35	-595.09	-8968.46	9716.33	-9317.20
3	1.055	-509.33	6.09	-420.63	-6516.53	-1490.91	7517.94
4	0.413	-32.17	-2.81	-56.63	-31.47	-52.06	4.85
5	0.347	0.15	-0.52	-170.64	-295.45	1674.37	11.06
6	0.324	76.10	4.71	-15.44	-64.61	928.40	48.15
7	0.278	-37.60	3.60	-267.61	-466.76	1485.79	-4.85
8	0.238	-35.11	3.13	-33.29	-137.14	88.69	88.62
9	0.204	24.21	-4.64	-14.97	-32.59	247.82	-99.98
10	0.178	-0.31	3.13	-0.04	-16.04	-1.26	45.13
11	0.173	-1.47	-17.75	-0.86	84.96	-0.43	-223.30
12	0.164	7.14	1.66	-8.28	31.91	59.72	13.65
13	0.162	0.43	8.84	-0.29	-170.83	4.28	4.24
14	0.159	30.11	-1.65	-57.01	-99.03	609.40	-67.05
15	0.154	-0.04	-0.02	-0.00	0.10	-0.34	-0.20

PARTICIPATION FACTORS

MODE	MASS PARTICIPATION FACTORS IN PERCENT X	Y	Z	SUMM-X	SUMM-Y	SUMM-Z	BASE SHEAR IN KN X	Y	Z
1	3.32	0.00	14.13	3.315	0.003	14.131	0.00	0.00	-205.97
2	36.87	0.01	34.49	40.188	0.009	48.618	0.00	0.00	-595.09
3	34.79	0.00	23.73	74.983	0.014	72.350	0.00	0.00	-420.63
4	0.53	0.00	1.65	75.515	0.018	73.997	0.00	0.00	-56.63
5	0.00	0.00	4.96	75.515	0.018	78.962	0.00	0.00	-170.64
6	10.91	0.04	0.45	86.426	0.059	79.411	0.00	0.00	-15.44
7	0.15	0.00	7.79	86.579	0.061	87.196	0.00	0.00	-267.61
8	1.08	0.01	0.97	87.656	0.069	88.165	0.00	0.00	-33.29
9	1.14	0.04	0.44	88.795	0.111	88.601	0.00	0.00	-14.97
10	0.07	6.90	0.00	88.864	7.008	88.602	0.00	0.00	-0.04
11	0.07	10.61	0.03	88.937	17.618	88.627	0.00	0.00	-0.86
12	0.18	0.01	0.24	89.116	17.628	88.868	0.00	0.00	-8.28
13	0.02	7.93	0.01	89.135	25.559	88.876	0.00	0.00	-0.29
14	0.46	0.00	1.66	89.598	25.560	90.535	0.00	0.00	-57.01
15	0.02	0.01	0.00	89.619	25.569	90.535	0.00	0.00	-0.00
					TOTAL SRSS SHEAR		0.00	0.00	-826.02
					TOTAL 10PCT SHEAR		0.00	0.00	-1090.55
					TOTAL ABS SHEAR		0.00	0.00	-1846.76
					TOTAL CSM SHEAR		0.00	0.00	-1314.21
					TOTAL CQC SHEAR		0.00	0.00	-1134.30

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```
1641. DEFINE ENVELOPE
1642. 3 17 TO 32 ENVELOPE 1 TYPE SERVICEABILITY
1643. 4 33 TO 56 ENVELOPE 2 TYPE STRENGTH
1644. END DEFINE ENVELOPE
1645. FINISH
```

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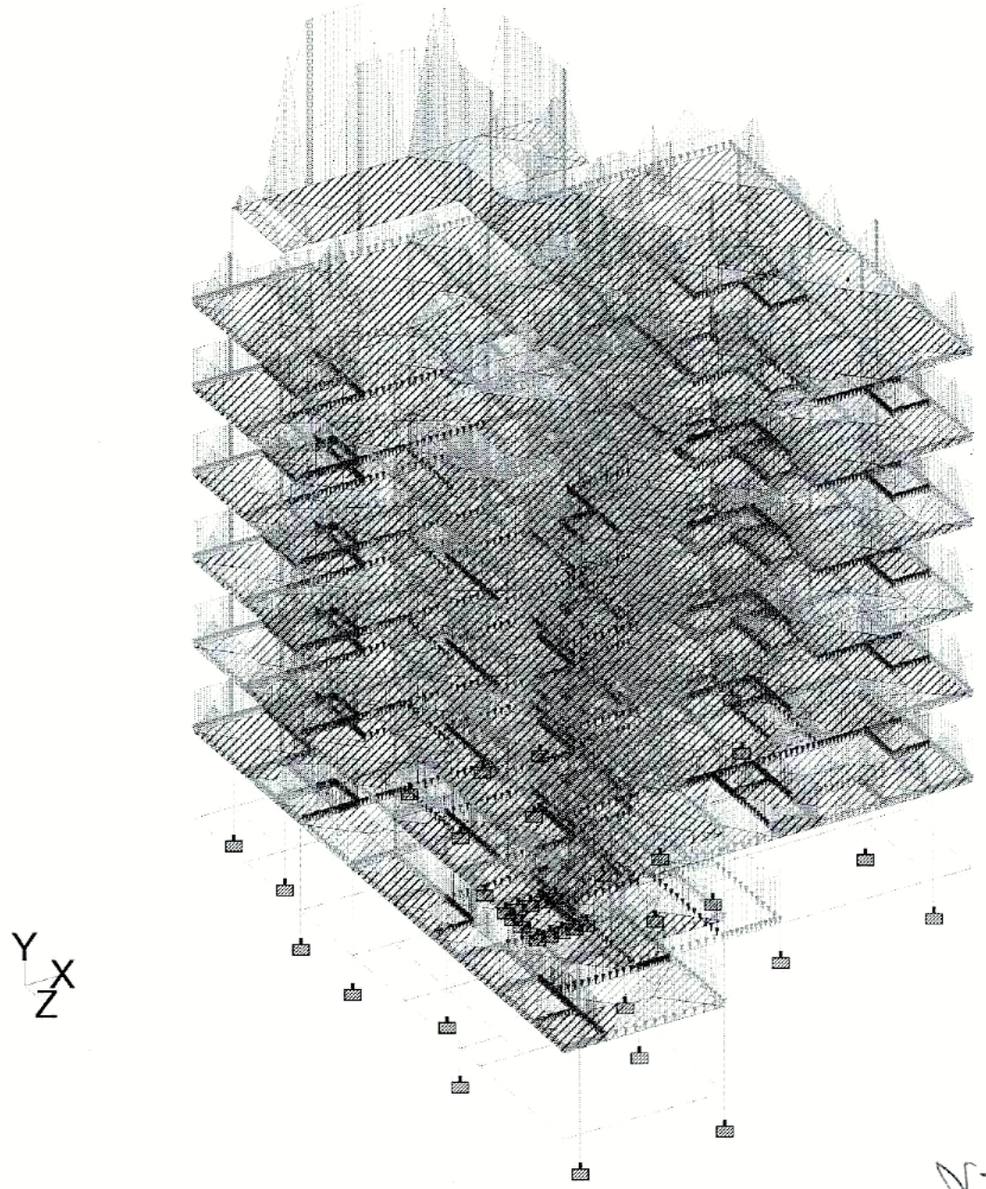
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*   For technical assistance on STAAD.Pro, please visit    *
*   http://www.bentley.com/en/support/                     *
*                                                          *
*   Details about additional assistance from               *
*   Bentley and Partners can be found at program menu      *
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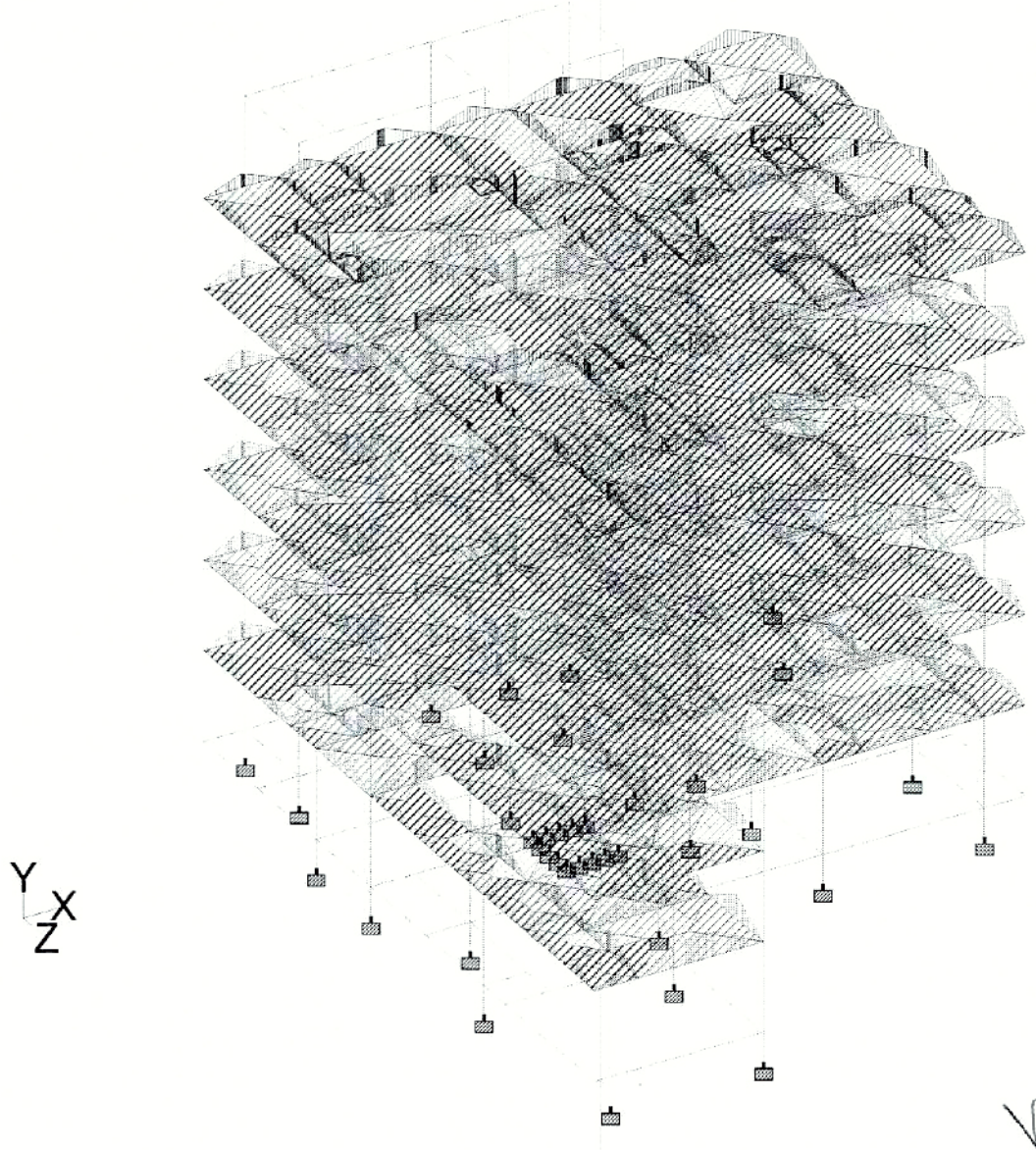


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Bentley	Job No	Sheet No 1	Rev
Software licensed to Ramaniyam Real Estates Pvt Ltd CONNECTED User: Jagen V	Part		
Job Title	Ref		
	By	Date 10-Jun-24	Chd
Client	File Akshayam Seismic.STD	Date/Time 27-Jun-2024 10:00	

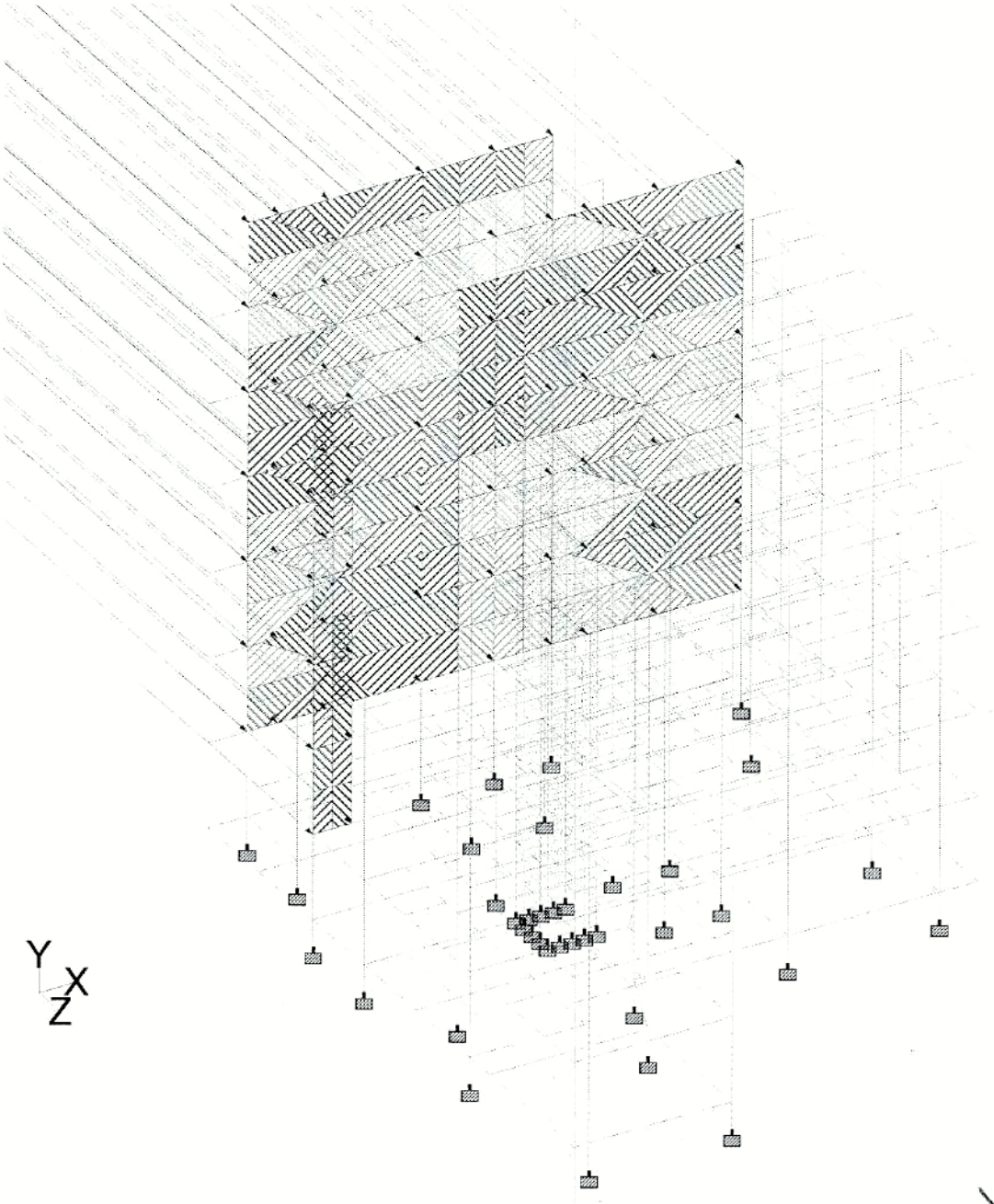


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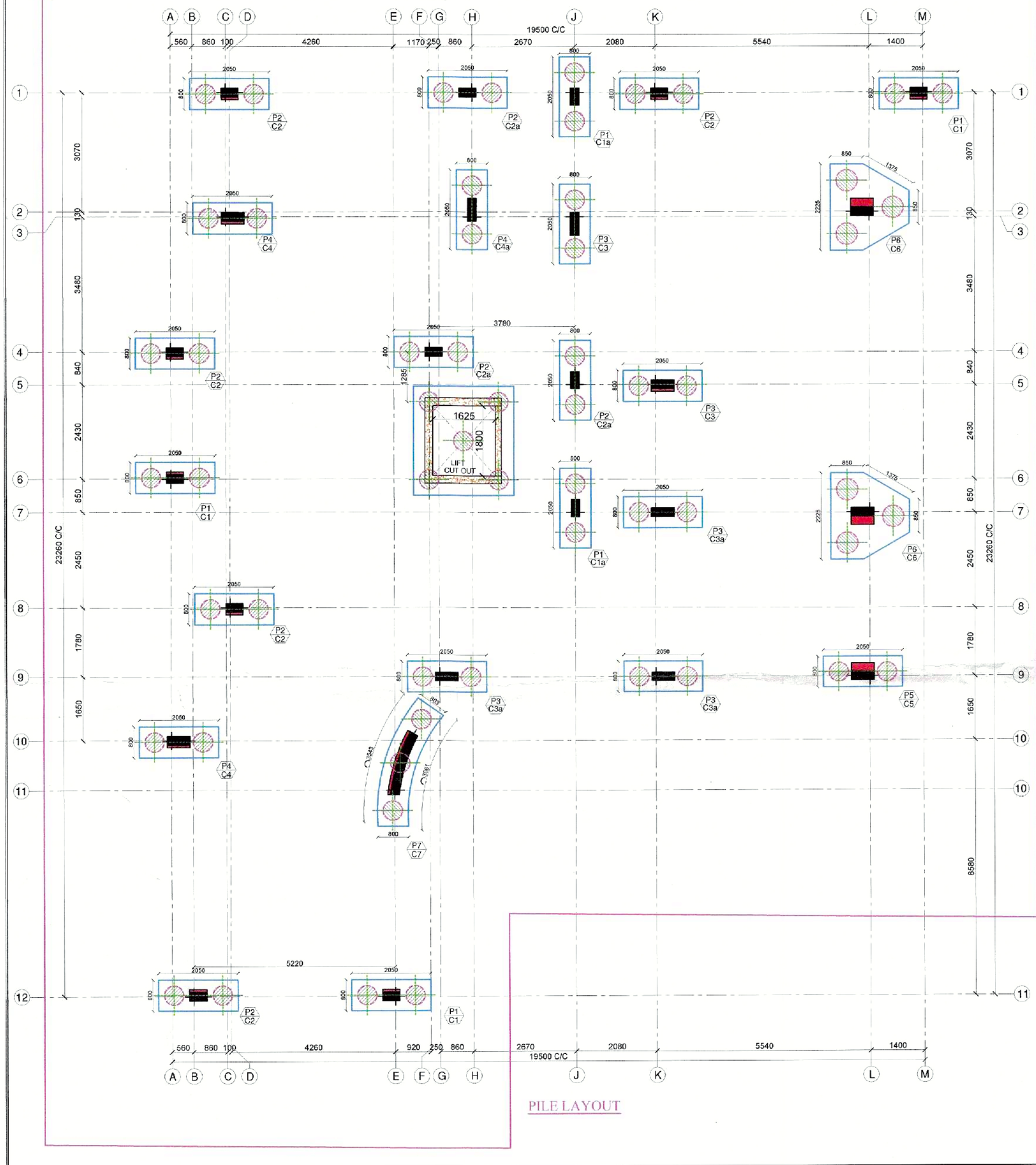
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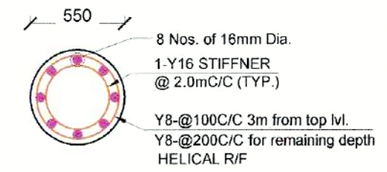


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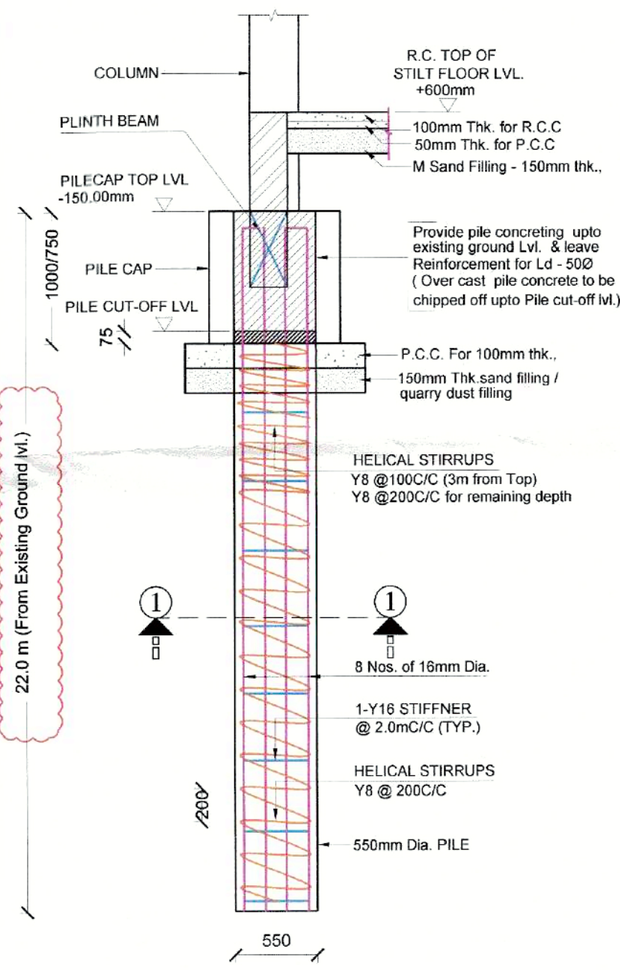
PILE LAYOUT



SECTION 1-1

PILE R/F DETAIL (Safe load - 90 Tons)

(550mm Ø BORED CAST IN-SITU PILE)
(USING TRACTOR MOUNTED RIG)
(DEPTH- 22.0m & COVER - 75mm)



PILE R/F DETAIL (Safe load - 90 Tons)

(550mm Ø BORED CAST IN-SITU PILE)
USING TRACTOR MOUNTED RIG)

(DEPTH - 22.0m & COVER - 75mm)

PROJECT TITLE :

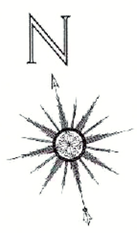
PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT + 5 FLOORS (18.30 m HEIGHT) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AVAILING PREMIUM FSI AT PLOT NO. 224 & 225, 42ND STREET, 8th SECTOR, K.K.NAGAR, CHENNAI - 600 078. COMPRISED IN OLD S.No: 261 / 1 PART,T.S.NO: 42 & 43 BLOCK NO: 48 OF VIRUGAMBAKKAM VILLAGE, WITHIN THE LIMIT OF GREATER CHENNAI CORPORATION, ZONE : X, DIVISION NO - 137.

NOTES

STILT+5

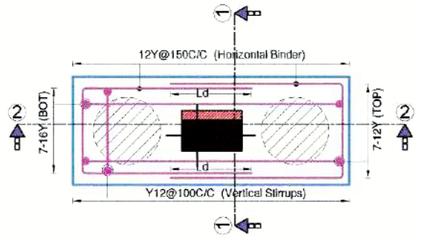
- REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS. CONCRETE MIX SHALL BE M25 FOR COLUMN & ALL OTHER R.C.C WORKS,
- ALL REINFORCEMENTS ARE OF Fe500 GRADE.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
  - (i) SLAB 20mm
  - (ii) COLUMN 40mm
  - (iii) BEAM 25mm
  - (iv) R.C WALL 25mm
- LAP LENGTH SHALL BE 50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

NORTH POINT :

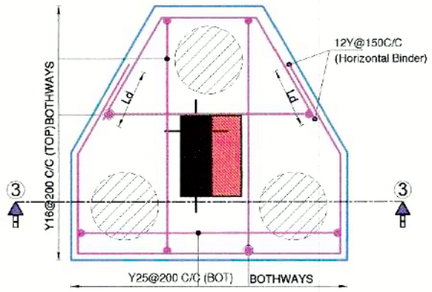


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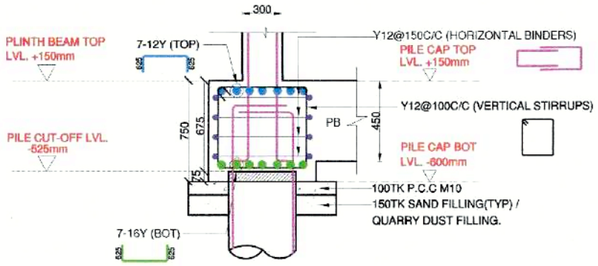
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Mobile: 9841269154



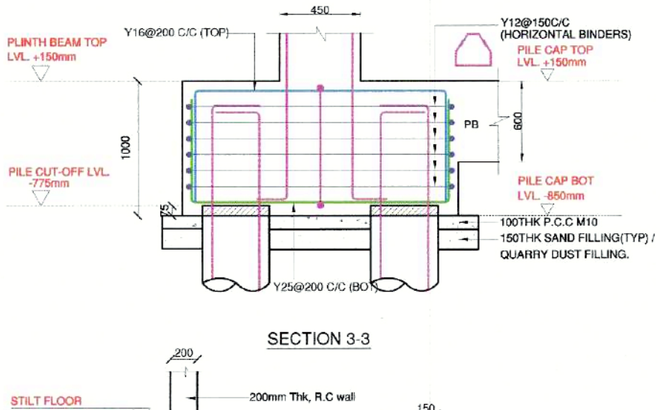
PILE CAP - P2



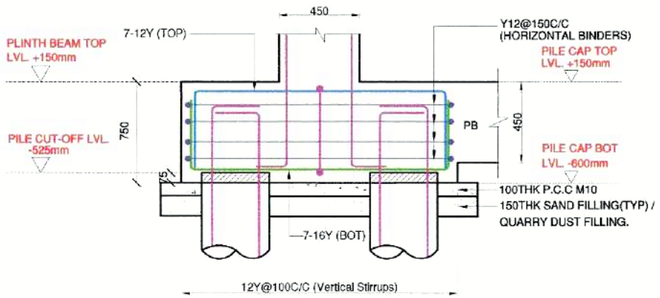
PILE CAP - P6



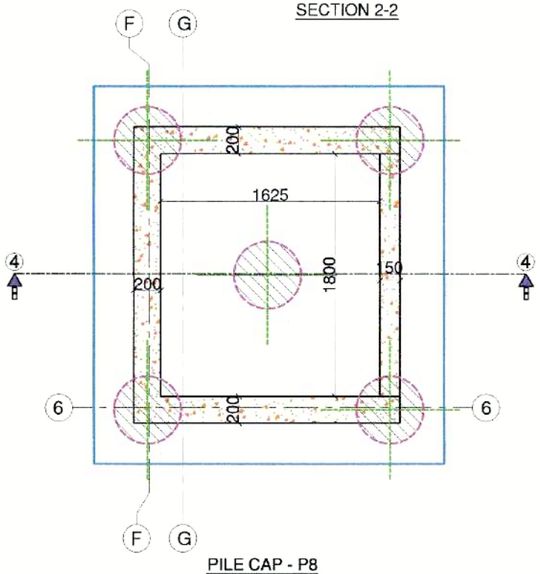
SECTION 1-1



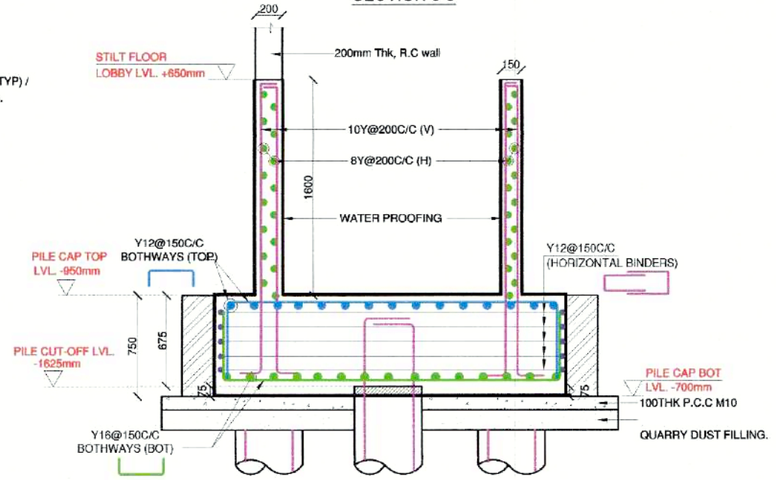
SECTION 3-3



SECTION 2-2



PILE CAP - P8



SECTION 4-4

PILE CAP REINFORCEMENT

PILE CAP	DEPTH	BOTTOM MAT	TOP MAT	HORIZONTAL BINDER	VERTICAL STIRRUPS
PC1	750	6-Nos-16Y	6-Nos-12Y	12Y@150C/C	12Y@120C/C
PC2	750	7-Nos-16Y	7-Nos-12Y	12Y@150C/C	12Y@100C/C
PC3	750	5-Nos-20Y	5-Nos-16Y	12Y@150C/C	12Y@100C/C
PC4	750	6-Nos-20Y	6-Nos-16Y	12Y@150C/C	12Y@100C/C
PC5	750	6-Nos-16Y	6-Nos-12Y	12Y@150C/C	12Y@125C/C
PC6	1000	25Y@200C/C	16Y@200C/C	12Y@150C/C	-
PC7	1000	6-Nos-16Y	6-Nos-12Y	12Y@150C/C	12Y@150C/C
PC8	750	16Y@150C/C (B/W)	12Y@150C/C(B/W)	12Y@150C/C	-

PROJECT TITLE :

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT + 5 FLOORS (18.30 m HEIGHT) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AVAILING PREMIUM FSI AT PLOT NO. 224 & 225, 42ND STREET, 8th SECTOR, K.K.NAGAR, CHENNAI - 600 078. COMPRISED IN OLD S.No: 261 / 1 PART,T.S.NO: 42 & 43 BLOCK NO: 48 OF VIRUGAMBAKKAM VILLAGE, WITHIN THE LIMIT OF GREATER CHENNAI CORPORATION, ZONE : X, DIVISION NO - 137.

NOTES

STILT+5

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

NORTH POINT :

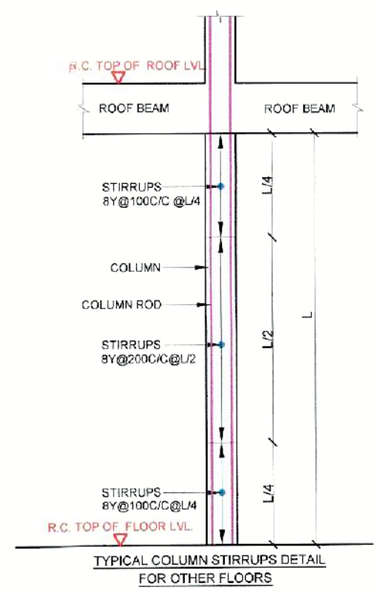
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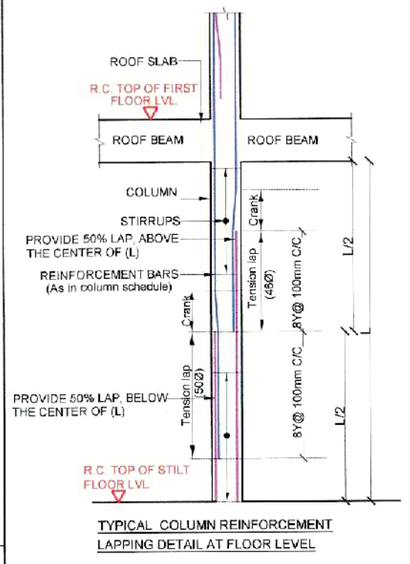
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CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154

COLUMN TYPE	NO.FLOORS	NO OF COLUMNS	COLUMN SIZE	REINFORCEMENT	SHAPE OF TIES
C1	300X450 STILT FLOOR	03 Nos.	70, 230 / 450 / 300	8 Nos -20Y (b) + 4 Nos-12Y (d) TIES 8Y @ 100C/C FOR L ONLY. (For 230mm width) 8Y @ 300C/C FOR L ONLY. (For 300mm width)	
	230X450 FIRST FLOOR		230 / 450	8 Nos -20Y (b) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X450 SECOND & THIRD FLOOR		230 / 450	4 Nos-20Y (b) + 4 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X450 FOURTH & FIFTH FLOOR		230 / 450	8 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
C1a	230X450 STILT FLOOR	02 Nos.	230 / 450	8 Nos -20Y (b) TIES 8Y @ 100C/C FOR L ONLY.	
	230X450 FIRST FLOOR		230 / 450	8 Nos -20Y (b) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X450 SECOND & THIRD FLOOR		230 / 450	4 Nos-20Y (b) + 4 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X450 FOURTH & FIFTH FLOOR		230 / 450	8 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
C2	300X450 STILT FLOOR	06 Nos.	70, 230 / 450 / 300	10 Nos-20Y (b) + 5 Nos-12Y (d) TIES 8Y @ 100C/C FOR L ONLY. (For 230mm width) 8Y @ 300C/C FOR L ONLY. (For 300mm width)	
	230X450 FIRST FLOOR		230 / 450	10 Nos-20Y (b) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X450 SECOND & THIRD FLOOR		230 / 450	4 Nos-20Y (b) + 6 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X450 FOURTH & FIFTH FLOOR		230 / 450	10 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
C2a	230X450 STILT FLOOR	02 Nos.	230 / 450	10 Nos-20Y (b) TIES 8Y @ 100C/C FOR L ONLY.	
	230X450 FIRST FLOOR		230 / 450	10 Nos-20Y (b) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X450 SECOND & THIRD FLOOR		230 / 450	4 Nos-20Y (b) + 6 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X450 FOURTH & FIFTH FLOOR		230 / 450	10 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
C3	300X600 STILT FLOOR	01 Nos.	70, 230 / 600 / 300	10 Nos-20Y (b) + 5 Nos-12Y (d) TIES 8Y @ 100C/C FOR L ONLY. (For 230mm width) 8Y @ 300C/C FOR L ONLY. (For 300mm width)	
	230X600 FIRST FLOOR		230 / 600	10 Nos-20Y (b) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X600 SECOND & THIRD FLOOR		230 / 600	6 Nos-20Y (b) + 4 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X600 FOURTH & FIFTH FLOOR		230 / 600	4 Nos-20Y (b) + 6 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
C3a	230X600 STILT FLOOR	04 Nos.	230 / 600	10 Nos-20Y (b) TIES 8Y @ 100C/C FOR L ONLY.	
	230X600 FIRST FLOOR		230 / 600	10 Nos-20Y (b) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X600 SECOND & THIRD FLOOR		230 / 600	6 Nos-20Y (b) + 4 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X600 FOURTH & FIFTH FLOOR		230 / 600	4 Nos-20Y (b) + 6 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	

COLUMN TYPE	NO.FLOORS	NO OF COLUMNS	COLUMN SIZE	REINFORCEMENT	SHAPE OF TIES
C4	300X600 STILT FLOOR	02 Nos.	70, 230 / 600 / 300	12 Nos-20Y (b) + 6 Nos-12Y (d) TIES 8Y @ 100C/C FOR L ONLY. (For 230mm width) 8Y @ 300C/C FOR L ONLY. (For 300mm width)	
	230X600 FIRST FLOOR		230 / 600	12 Nos-20Y (b) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X600 SECOND & THIRD FLOOR		230 / 600	8 Nos-20Y (b) + 4 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X600 FOURTH & FIFTH FLOOR		230 / 600	4 Nos-20Y (b) + 8 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
C4a	230X600 STILT FLOOR	01 Nos.	230 / 600	12 Nos-20Y (b) TIES 8Y @ 100C/C FOR L ONLY.	
	230X600 FIRST FLOOR		230 / 600	12 Nos-20Y (b) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X600 SECOND & THIRD FLOOR		230 / 600	8 Nos-20Y (b) + 4 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X600 FOURTH & FIFTH FLOOR		230 / 600	4 Nos-20Y (b) + 8 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
C5	450X600 STILT FLOOR	01 Nos.	450 / 600	12 Nos-20Y (b) TIES 8Y @ 100C/C FOR L ONLY.	
	230X450 FIRST & SECOND FLOOR		230 / 450	8 Nos-20Y (b) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X450 THIRD & FOURTH FLOOR		230 / 450	4 Nos-20Y (b) + 4 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X450 FIFTH & TERRACE FLOOR		230 / 450	8 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
C6	450X600 STILT FLOOR	02 Nos.	450 / 600	14 Nos-20Y (b) TIES 8Y @ 100C/C FOR L ONLY.	
	230X600 FIRST & SECOND FLOOR		230 / 600	10 Nos-20Y (b) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X600 THIRD & FOURTH FLOOR		230 / 600	6 Nos-20Y (b) + 4 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
	230X600 FIFTH & TERRACE FLOOR		230 / 600	4 Nos-20Y (b) + 6 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	
C7	300X1600 STILT FLOOR	01 No.	300 / 1752 / 1600 / 300	20 Nos-20Y (c) + 10 Nos-12Y (d) TIES 8Y @ 100C/C FOR L ONLY. (For 230mm width) 8Y @ 300C/C FOR L ONLY. (For 300mm width)	
	230X1600 TYPICAL FLOOR (FIRST TO FIFTH)		230 / 1717 / 1600 / 230	20 Nos-16Y (c) TIES 8Y @ 100C/C @ SUP.FOR L/4 8Y @ 200C/C @ MID.FOR L/2	



TYPICAL COLUMN STIRRUPS DETAIL FOR OTHER FLOORS



TYPICAL COLUMN REINFORCEMENT LAPPING DETAIL AT FLOOR LEVEL

PROJECT TITLE :

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT + 5 FLOORS (18.30 m HEIGHT) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AVAILING PREMIUM FSI AT PLOT NO. 224 & 225, 42ND STREET, 8th SECTOR, K.K.NAGAR, CHENNAI - 600 078. COMPRISED IN OLD S.No: 261 / 1 PART,T.S.NO: 42 & 43 BLOCK NO: 48 OF VIRUGAMBAKKAM VILLAGE, WITHIN THE LIMIT OF GREATER CHENNAI CORPORATION, ZONE : X, DIVISION NO - 137.

STILT+5

NOTES

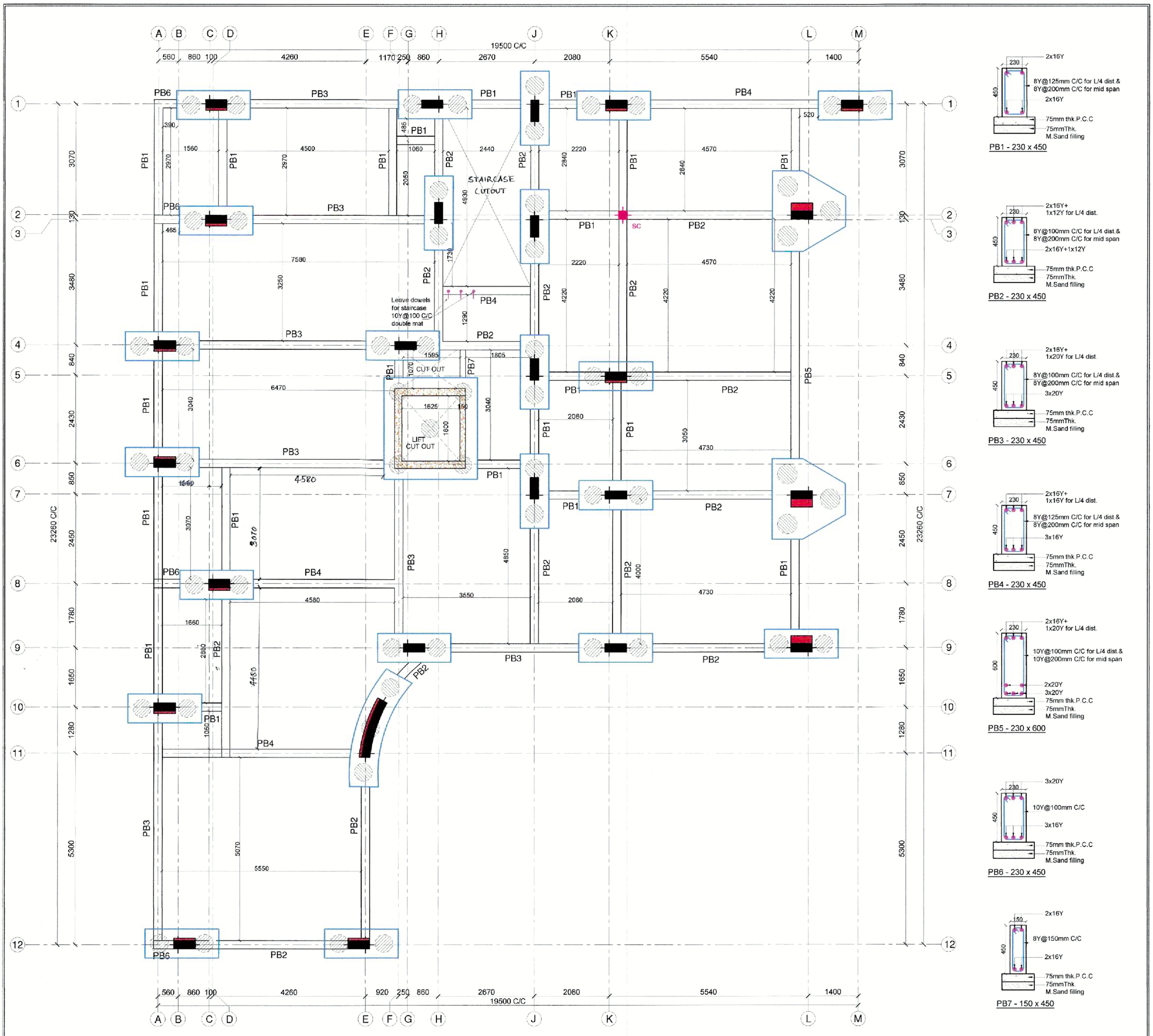
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- ALL REINFORCEMENTS ARE OF Fe500 GRADE.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
  - (i) SLAB 20mm
  - (ii) COLUMN 40mm
  - (iii) BEAM 25mm
  - (iv) R.C WALL 25mm
- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

NORTH POINT :

N

SIGNATURE :

V. JAGEN, B.E.,M.E.,(Struct), M.I.E.,A.I.V.,
CMDA REGN NOS -
SE / GR-I / 2019/03/024, QA/2019/04/021
CHARTERED ENGINEER & APPROVED VALUER
3-B, RAMANIYAM GAURAVV - 2
BLOCK-2, MODEL SCHOOL ROAD
SHOLINGANALLUR, CHENNAI - 600 119.
Mobile: 9841269154



PB1 - 230 x 450

PB2 - 230 x 450

PB3 - 230 x 450

PB4 - 230 x 450

PB5 - 230 x 600

PB6 - 230 x 450

PB7 - 150 x 450

PLINTH BEAM LAYOUT

PROJECT TITLE :
PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT + 5 FLOORS (18.30 m HEIGHT) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AVAILING PREMIUM FSI AT PLOT NO. 224 & 225, 42ND STREET, 8th SECTOR, K.K.NAGAR, CHENNAI - 600 078. COMPRISED IN OLD S.No: 261 / 1 PART,T.S.NO: 42 & 43 BLOCK NO: 48 OF VIRUGAMBAKKAM VILLAGE, WITHIN THE LIMIT OF GREATER CHENNAI CORPORATION, ZONE : X, DIVISION NO - 137.

NOTES

STILT+5

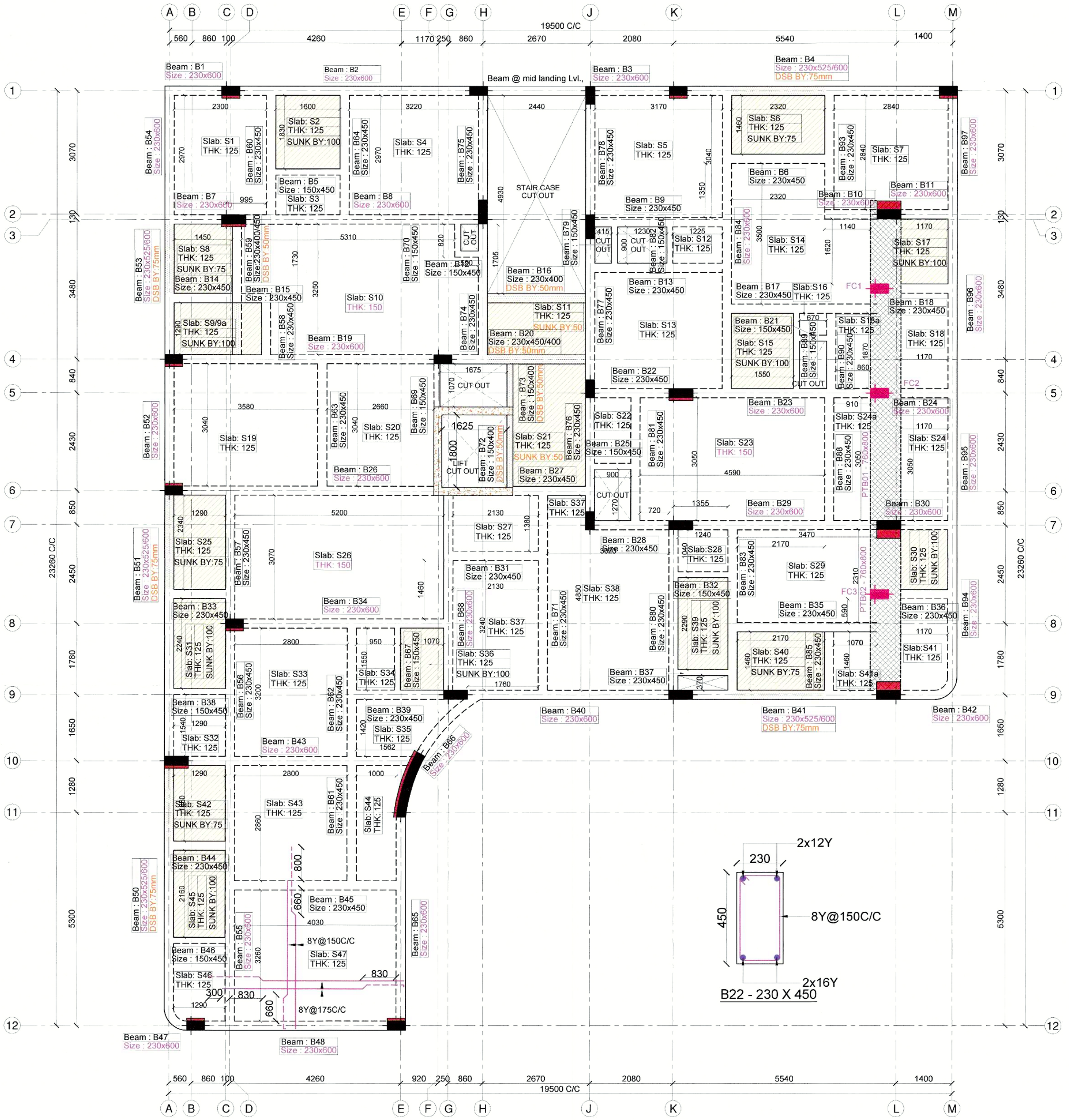
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NORTH POINT :

N

SIGNATURE :

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SHOLINGANALLUR, CHENNAI - 600 119.
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STILT FLOOR ROOF BEAM LAYOUT

PROJECT TITLE :

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NOTES

STILT+5

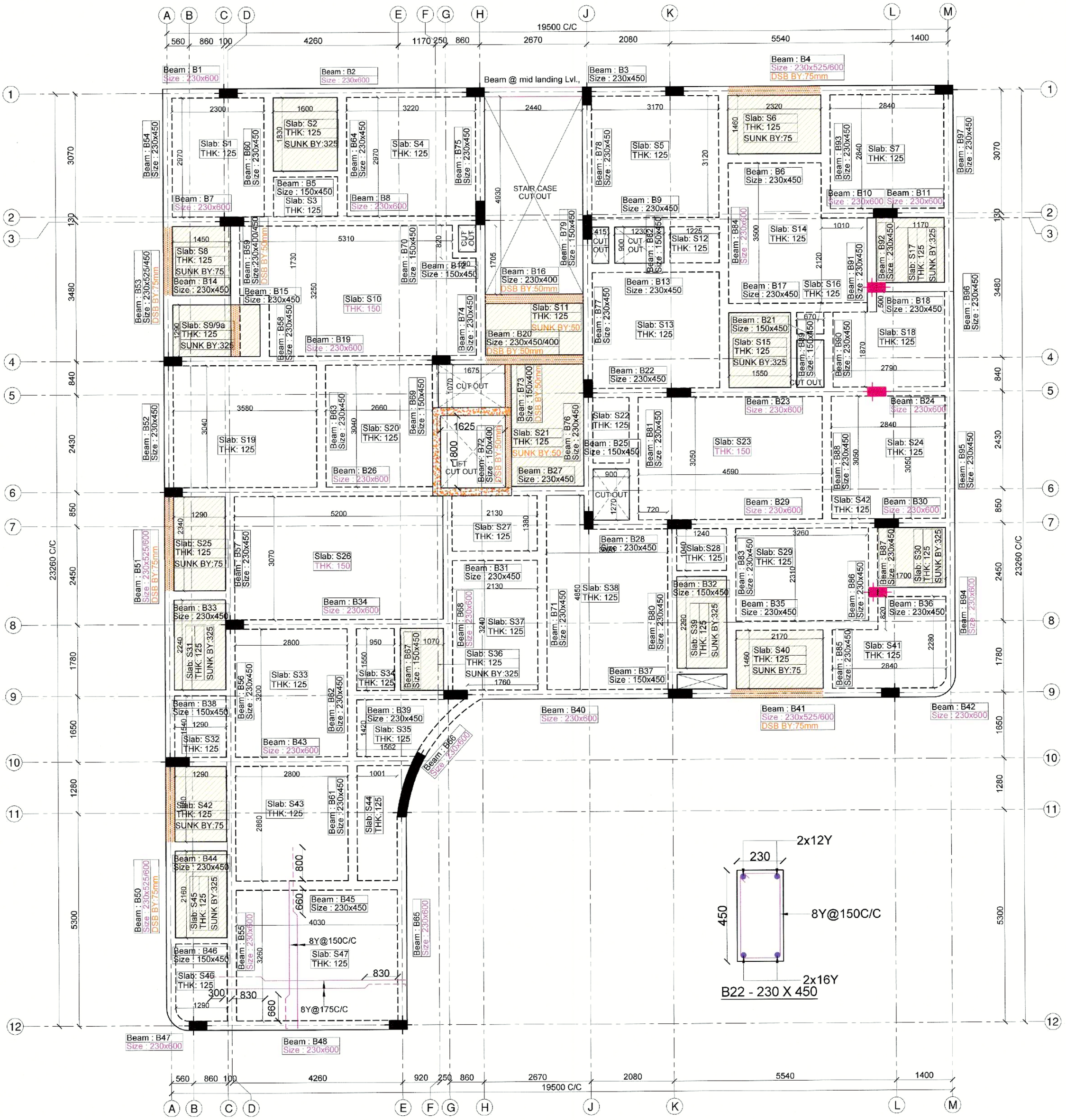
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NORTH POINT :

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TYPICAL FLOOR ROOF BEAM LAYOUT

(FIRST, SECOND, THIRD AND FOURTH)

PROJECT TITLE :

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STILT+5

NOTES

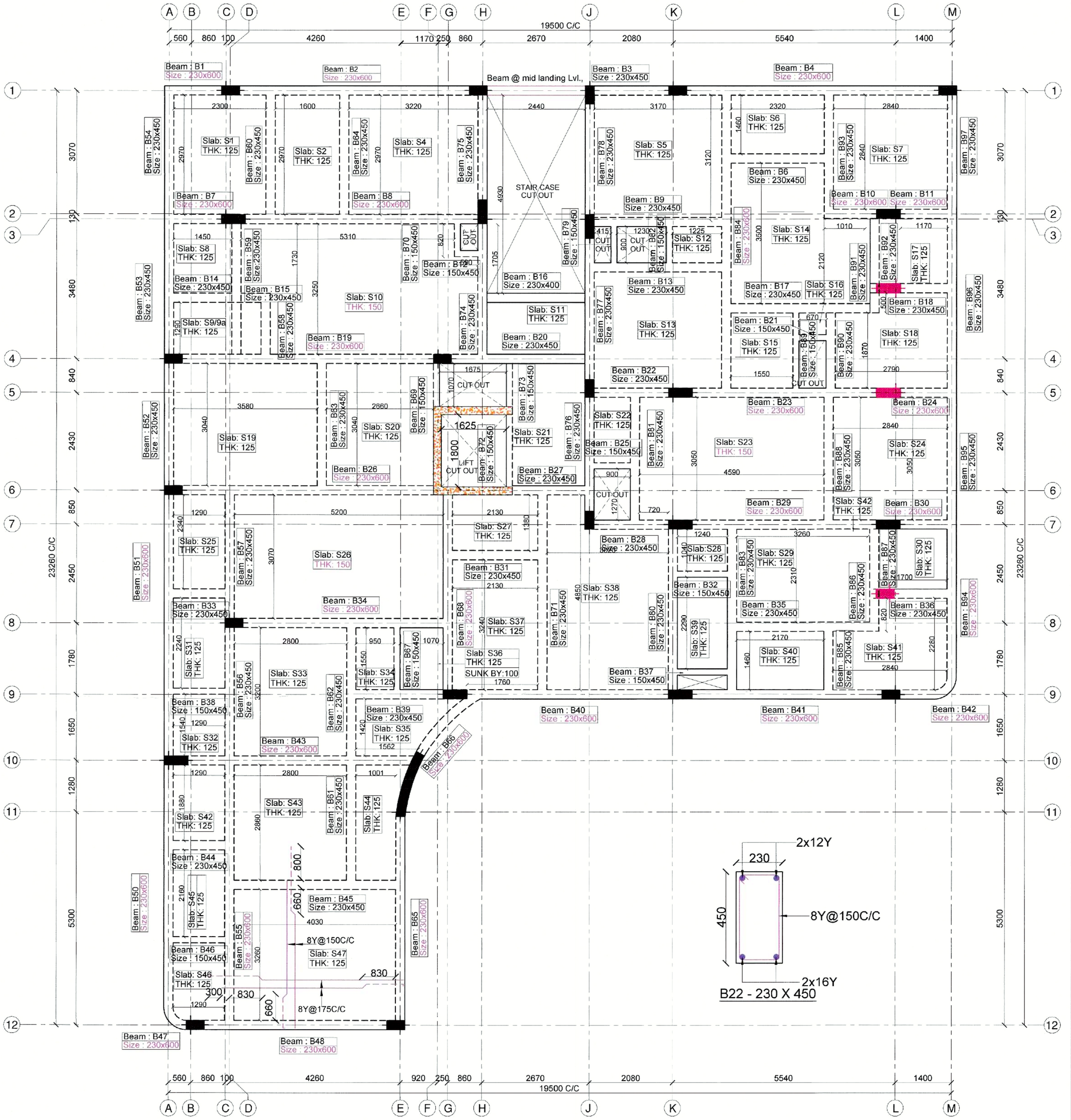
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NORTH POINT :

N

SIGNATURE :

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BLOCK-2, MODEL SCHOOL ROAD
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Mobile: 9841269154



TERRACE FLOOR ROOF BEAM LAYOUT

PROJECT TITLE :

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT + 5 FLOORS (18.30 m HEIGHT) RESIDENTIAL BUILDING WITH 20 DWELLING UNITS AVAILING PREMIUM FSI AT PLOT NO. 224 & 225, 42ND STREET, 8th SECTOR, K.K.NAGAR, CHENNAI - 600 078. COMPRISED IN OLD S.No: 261 / 1 PART,T.S.NO: 42 & 43 BLOCK NO: 48 OF VIRUGAMBAKKAM VILLAGE, WITHIN THE LIMIT OF GREATER CHENNAI CORPORATION, ZONE : X, DIVISION NO - 137.

NOTES

STILT+5

- REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS. CONCRETE MIX SHALL BE M25 FOR COLUMN & ALL OTHER R.C.C WORKS,
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  - (ii) COLUMN 40mm
  - (iii) BEAM 25mm
  - (iv) R.C WALL 25mm
- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

NORTH POINT :

N

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