

PAGE NO. 1

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*
*      STAAD.Pro CONNECT Edition
*      Version 22.00.00.15
*      Proprietary Program of
*      Bentley Systems, Inc.
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*      Time=   14:53:30
*
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1. STAAD SPACE
INPUT FILE: I:\1.MISCELLANEOUS\STABILITY CERTIFICATE\UC-1296-ADYAR 1.75\ADYAR 1.75.STD
2. START JOB INFORMATION
3. JOB NAME THE PROPOSED CONSTRUCTION OF HIGH-RISE GROUP DEVELOPMENT RESIDENTIAL
4. *BUILDING CONSIST OF 4 BLOCKS WITH EXTENDED CUM COMBINED DOUBLE BASEMENT FLOORS
5. *(MEANT FOR PARKING & PUMP ROOM); BLOCK-1 : GROUND FLOOR (PART) / STILT FLOOR
6. *(PART) + 1ST FLOOR TO 10TH FLOOR + 11TH FLOOR WITH 77 DWELLING UNITS WITH
7. *SWIMMING POOL AT TERRACE FLOOR LEVEL; BLOCK-2: GROUND FLOOR + 1ST FLOOR TO 5TH
8. *FLOOR WITH 9 DWELLING UNITS, BLOCK-3: GROUND FLOOR + 1 ST FLOOR & 2ND FLOOR
9. *WITH 6 DWELLING UNITS, BLOCK-4: GROUND FLOOR + 1ST FLOOR TO 5TH FLOOR WITH 6
10. *DWELLING UNITS, TOTALLY 98 DWELLING UNITS ABUTTING AT LATTICE BRIDGE HIGH ROAD
11. *COMPRISED IN NEW T.S.NO: 2/183, 2/184, 2/185 & 2/186 (OLD T.S.NO: 2/5, 2/9,
12. *2/159 & 2/160) (OLD.S.NOS: 64 PART, 66/1 PART, 67/1 PART, 71/1 PART, 72 PART &
13. *73 PART) IN BLOCK NO.22 OF URUR VILLAGE, VELACHERY TALUK, CHENNAI DISTRICT
14. *WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.
15. ENGINEER NAME SURESH
16. CHECKER NAME SURESH
17. APPROVED NAME SURESH
18. ENGINEER DATE 3/27/2026
19. CHECKER DATE 3/27/2026
20. APPROVED DATE 3/27/2026
21. END JOB INFORMATION
22. INPUT WIDTH 79
23. UNIT METER KN
24. JOINT COORDINATES
25. 1 -11 -1 0; 25 -11 -4 0; 26 -4.5 -1 0; 27 -4.5 -4 0; 28 2.2 -1 0; 29 2.2 -4 0
26. 36 -11 2 0; 37 -4.5 2 0; 38 2.2 2 0; 42 -11 5 0; 43 -4.5 5 0; 44 2.2 5 0
27. 57 6.9 -1 0; 58 6.9 -4 0; 59 6.9 2 0; 60 6.9 5 0; 63 13.6 -1 0; 64 13.6 -4 0
28. 65 13.6 2 0; 66 13.6 5 0; 67 -11 8 0; 68 -4.5 8 0; 69 2.2 8 0; 70 6.9 8 0
29. 71 13.6 8 0; 72 -11 11 0; 73 -4.5 11 0; 74 2.2 11 0; 75 6.9 11 0; 76 13.6 11 0
30. 77 -11 14 0; 78 -4.5 14 0; 79 2.2 14 0; 80 6.9 14 0; 81 13.6 14 0; 82 -11 17 0
31. 83 -4.5 17 0; 84 2.2 17 0; 85 6.9 17 0; 86 13.6 17 0; 87 -11 20 0
32. 88 -4.5 20 0; 89 2.2 20 0; 90 6.9 20 0; 91 13.6 20 0; 92 -11 23 0
33. 93 -4.5 23 0; 94 2.2 23 0; 95 6.9 23 0; 96 13.6 23 0; 97 -11 26 0
34. 98 -4.5 26 0; 99 2.2 26 0; 100 6.9 26 0; 101 13.6 26 0; 102 -11 29 0
35. 103 -4.5 29 0; 104 2.2 29 0; 105 6.9 29 0; 106 13.6 29 0; 107 -11 32 0
36. 108 -4.5 32 0; 109 2.2 32 0; 110 6.9 32 0; 111 13.6 32 0; 112 -11 35 0
37. 113 -4.5 35 0; 114 2.2 35 0; 115 6.9 35 0; 116 13.6 35 0; 117 -11 38 0
38. 118 -4.5 38 0; 119 2.2 38 0; 120 6.9 38 0; 121 13.6 38 0

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39. MEMBER INCIDENCES

40. 39 1 25; 40 1 26; 41 25 27; 42 26 27; 43 26 28; 44 27 29; 45 28 29; 55 1 36
 41. 56 26 37; 57 28 38; 61 36 37; 62 37 38; 66 36 42; 67 37 43; 68 38 44; 72 42 43
 42. 73 43 44; 96 28 57; 97 29 58; 98 57 58; 99 57 59; 100 38 59; 101 59 60
 43. 102 44 60; 107 57 63; 108 58 64; 109 63 64; 110 63 65; 111 59 65; 112 65 66
 44. 113 60 66; 114 42 67; 115 43 68; 116 44 69; 117 67 68; 118 68 69; 119 60 70
 45. 120 69 70; 121 66 71; 122 70 71; 123 67 72; 124 68 73; 125 69 74; 126 72 73
 46. 127 73 74; 128 70 75; 129 74 75; 130 71 76; 131 75 76; 132 72 77; 133 73 78
 47. 134 74 79; 135 77 78; 136 78 79; 137 75 80; 138 79 80; 139 76 81; 140 80 81
 48. 141 77 82; 142 78 83; 143 79 84; 144 82 83; 145 83 84; 146 80 85; 147 84 85
 49. 148 81 86; 149 85 86; 150 82 87; 151 83 88; 152 84 89; 153 87 88; 154 88 89
 50. 155 85 90; 156 89 90; 157 86 91; 158 90 91; 159 87 92; 160 88 93; 161 89 94
 51. 162 92 93; 163 93 94; 164 90 95; 165 94 95; 166 91 96; 167 95 96; 168 92 97
 52. 169 93 98; 170 94 99; 171 97 98; 172 98 99; 173 95 100; 174 99 100; 175 96 101
 53. 176 100 101; 177 97 102; 178 98 103; 179 99 104; 180 102 103; 181 103 104
 54. 182 100 105; 183 104 105; 184 101 106; 185 105 106; 186 102 107; 187 103 108
 55. 188 104 109; 189 107 108; 190 108 109; 191 105 110; 192 109 110; 193 106 111
 56. 194 110 111; 195 107 112; 196 108 113; 197 109 114; 198 112 113; 199 113 114
 57. 200 110 115; 201 114 115; 202 111 116; 203 115 116; 204 112 117; 205 113 118
 58. 206 114 119; 207 117 118; 208 118 119; 209 115 120; 210 119 120; 211 116 121
 59. 212 120 121

60. DEFINE MATERIAL START

61. ISOTROPIC CONCRETE

62. E 2.17185E+07

63. POISSON 0.17

64. DENSITY 23.5616

65. ALPHA 1E-05

66. DAMP 0.05

67. END DEFINE MATERIAL

68. MEMBER PROPERTY INDIAN

69. 39 42 45 55 TO 57 66 TO 68 98 99 101 109 110 112 114 TO 116 119 121 -
 70. 123 TO 125 128 130 132 TO 134 137 139 141 TO 143 146 148 150 TO 152 155 157 -
 71. 159 TO 161 164 166 168 TO 170 173 175 177 TO 179 182 184 186 TO 188 191 193 -
 72. 195 TO 197 200 202 204 TO 206 209 211 PRIS YD 0.8 ZD 0.3
 73. 40 41 43 44 61 62 72 73 96 97 100 102 107 108 111 113 117 118 120 122 126 -
 74. 127 129 131 135 136 138 140 144 145 147 149 153 154 156 158 162 163 165 167 -
 75. 171 172 174 176 180 181 183 185 189 190 192 194 198 199 201 203 207 208 210 -
 76. 212 PRIS YD 0.6 ZD 0.2
 77. CONSTANTS
 78. MATERIAL CONCRETE MEMB 39 TO 45 55 TO 57 61 62 66 TO 68 72 73 96 TO 102 107 -
 79. 108 TO 212
 80. SUPPORTS
 81. 25 27 29 58 64 FIXED
 82. DEFINE 1893 LOAD
 83. ZONE 0.16 RF 3 I 1 SS 2 ST 1 DM 0.5
 84. MEMBER WEIGHT
 85. 39 TO 45 55 TO 57 61 62 66 TO 68 72 73 96 TO 102 107 TO 212 UNI -14.5
 86. DEFINE WIND LOAD

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

87. TYPE 1

88. INT 0.673 1.03335 1.3537 1.65375 HEIG 10 30 50 100

89. EXP 1 JOINT 1 25 TO 29 36 TO 38 42 TO 44 57 TO 60 63 TO 121


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90. LOAD 1 LOADTYPE NONE TITLE SLX1
 91. 1893 LOAD X 1
 92. LOAD 2 LOADTYPE NONE TITLE SLZ1
 93. 1893 LOAD Z 1
 94. LOAD 3 LOADTYPE DEAD TITLE DL
 95. SELFWEIGHT Y -1 LIST ALL
 96. MEMBER LOAD
 97. 40 43 61 62 72 73 96 100 102 107 111 113 117 118 120 122 126 127 129 131 135 -
 98. 136 138 140 144 145 147 149 153 154 156 158 162 163 165 167 171 172 174 176 -
 99. 180 181 183 185 189 190 192 194 198 199 201 203 207 208 210 212 UNI GY -25
 100. LOAD 4 LOADTYPE LIVE TITLE LL
 101. MEMBER LOAD
 102. 40 43 61 62 72 73 96 100 102 107 111 113 117 118 120 122 126 127 129 131 135 -
 103. 136 138 140 144 145 147 149 153 154 156 158 162 163 165 167 171 172 174 176 -
 104. 180 181 183 185 189 190 192 194 198 199 201 203 207 208 210 212 UNI GY -15
 105. LOAD 7 LOADTYPE WIND TITLE WLZ1
 106. WIND LOAD Z 1 TYPE 1
 107. LOAD 8 LOADTYPE WIND TITLE WLZ2
 108. WIND LOAD Z -1 TYPE 1
 109. LOAD COMB 9 1.5(DL+LL)
 110. 3 1.5 4 1.5
 111. LOAD COMB 10 1.2(DL+LL+SLX)
 112. 3 1.2 4 1.2 1 1.2
 113. LOAD COMB 11 1.2(DL+LL+SLZ)
 114. 3 1.2 4 1.2 2 1.2
 115. LOAD COMB 14 1.2(DL+LL+WLZ1)
 116. 3 1.2 4 1.2 7 1.2
 117. LOAD COMB 15 1.2(DL+LL+WLZ2)
 118. 3 1.2 4 1.2 8 1.2
 119. LOAD COMB 16 1.5(DL+SLX)
 120. 3 1.5 1 1.5
 121. LOAD COMB 17 1.5(DL+SLZ)
 122. 3 1.5 2 1.5
 123. LOAD COMB 20 1.5(DL+WLZ1)
 124. 3 1.5 7 1.5
 125. LOAD COMB 21 1.5(DL+WLZ2)
 126. 3 1.5 8 1.5
 127. LOAD COMB 22 0.9DL+1.5SLX
 128. 3 0.9 1 1.5
 129. LOAD COMB 23 0.9DL+1.5SLZ
 130. 3 0.9 2 1.5
 131. LOAD COMB 26 0.9DL+1.5WLZ1
 132. 3 0.9 7 1.5
 133. LOAD COMB 27 0.9DL+1.5WLZ2



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134. 3 0.9 8 1.5

135. PERFORM ANALYSIS

PROBLEM STATISTICS

NUMBER OF JOINTS	75	NUMBER OF MEMBERS	130
NUMBER OF PLATES	0	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	5

Using 64-bit analysis engine.

SOLVER USED IS THE OUT-OF-CORE BASIC SOLVER

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ORIGINAL/FINAL BAND-WIDTH=    11/      5/      36 DOF
TOTAL    PRIMARY LOAD CASES =      6, TOTAL DEGREES OF FREEDOM =    420
TOTAL LOAD COMBINATION CASES =     13 SO FAR.
SIZE OF STIFFNESS MATRIX =     16 DOUBLE KILO-WORDS
REQD/AVAIL. DISK SPACE =     12.4/1378472.5 MB

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***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.

[illegible][illegible]

136. FINISH

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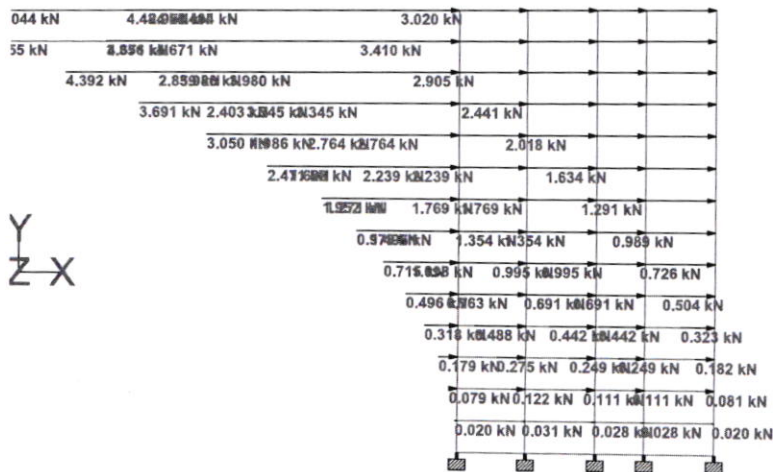
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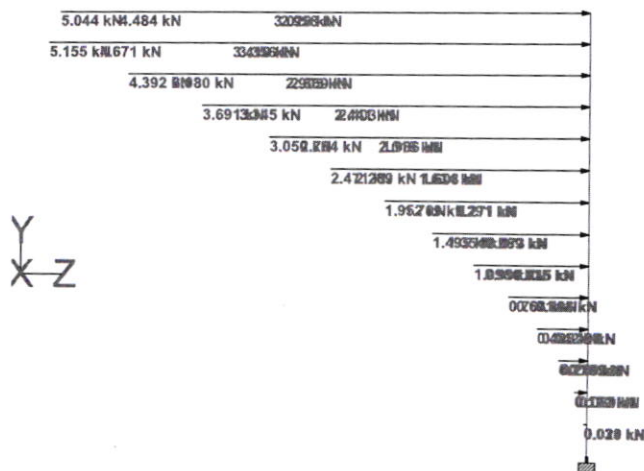
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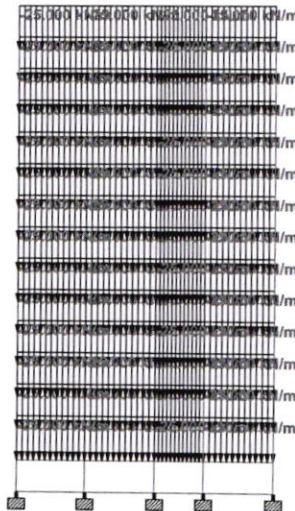
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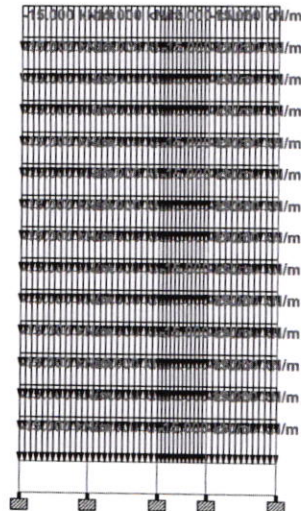
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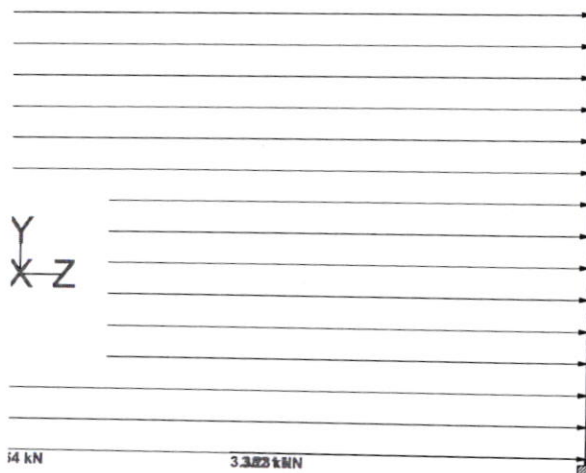
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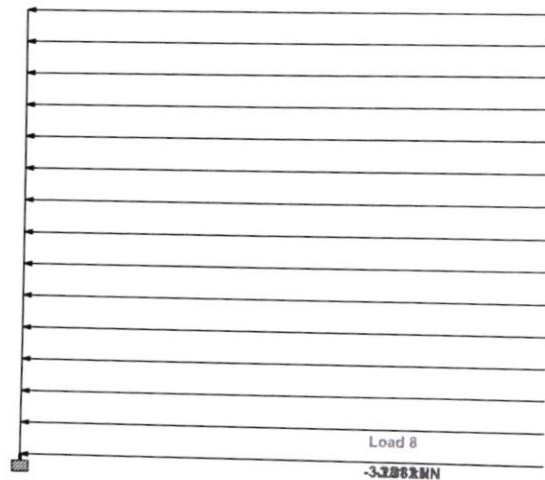
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