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*
*      STAAD.Pro CONNECT Edition
*      Version 22.10.00.153
*      Proprietary Program of
*      Bentley Systems, Inc.
*      Date=   APR 13, 2024
*      Time=   16:50: 5
*
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1. STAAD SPACE
INPUT FILE: C:\Users\suresh\Desktop\UC-SHOLINGANALUR 30A\SHOLINGANALLUR 30A.5TD
2. START JOB INFORMATION
3. JOB NAME THE PROPOSED CONSTRUCTION OF HIGH RISE GROUP DEVELOPMENT
4. *CONSISTING OF COMBINED EXTENDED BASEMENT FLOOR (BLOCK 4 TO 18) WITH BLOCK 1:
5. *GROUND FLOOR + 1ST FLOOR + 2ND FLOOR (PART) ROW HOUSES VILLA (4 DWELLING UNIT)
6. *BLOCK 2: GROUND FLOOR + 1ST FLOOR + 2ND FLOOR (PART) ROW HOUSES VILLA (4
7. *DWELLING UNIT), BLOCK 3: GROUND FLOOR + 1ST FLOOR + 2ND FLOOR (PART) ROW HOUSE
8. *VILLA (14 DWELLING UNIT), BLOCK 4: GROUND FLOOR + 9 FLOOR (138 DWELLING UNIT),
9. *BLOCK 5: GROUND FLOOR + 8 FLOOR (36 DWELLING UNIT), BLOCK 6 : GROUND FLOOR + 9
10. *FLOOR (117 DWELLING UNIT), BLOCK 7: GROUND FLOOR + 9 FLOOR (209 DWELLING UNIT),
11. *BLOCK 8 : GROUND FLOOR + 9 FLOOR (170 DWELLING UNIT), BLOCK 9: GROUND FLOOR +
12. *FLOOR (120 DWELLING UNIT), BLOCK 10 : GROUND FLOOR + 9 FLOOR (150 DWELLING
13. *UNIT), BLOCK 11 : GROUND FLOOR + 9 FLOOR (170 DWELLING UNIT), BLOCK12 : GROUND
14. *FLOOR + 9 FLOOR (170 DWELLING UNIT), BLOCK 13: GROUND FLOOR + 9 FLOOR (170
15. *DWELLING UNIT), BLOCK 14 : GROUND FLOOR + 9 FLOOR (140 DWELLING UNIT), BLOCK 1
16. *: GROUND FLOOR + 8 FLOOR (36 DWELLING UNIT), BLOCK 16 : GROUND FLOOR + 9 FLOOR
17. *(170 DWELLING UNIT), BLOCK 17: CLUB HOUSE 1: GROUND FLOOR + 3 FLOOR, BLOCK 18
18. *CLUB HOUSE -2 : GROUND FLOOR + 5 FLOOR & 2 NOS OF OPEN SWIMMING POOL, TOTALLY
19. *1818 DWELLING UNITS, COMPRISED IN SURVEY NOS: 508/4A, 508/4B, 508/6A1, 508/6A2
20. *508/6B, 508/6C, 508/6D, 508/7A, 508/7B, 508/7C, 508/7D, 508/7E, 508/7F, 508/7G
21. *508/7H, 508/7I, 508/8A, 508/8B1, 508/8B2, 508/11A, 508/11B, 508/21A, 508/28,
22. *508/36B, 508/36C1, 508/36C2, 508/38A1, 508/45, 508/48, 575/2A2A1, 575/2A2A2,
23. *575/2A2A3, 575/2A2B1, 575/2A2B2, 575/2A2B3, 575/2A3, 575/2B, 575/2C, 575/3B1,
24. *575/4A, 575/4B, 575/4C, 575/5A, 575/5B, 575/6A, 575/6B, 575/6C, 575/7A1,
25. *575/7A2, 575/7B, 575/7C, 575/7D, 575/8A1, 575/8A2, 575/8A3, 575/8B1, 575/8B2,
26. *575/9A, 575/9B1, 575/9B2, 575/9B3, 575/9C1, 575/10A1, 575/10A2, 575/10B,
27. *575/10C, 575/10D1, 575/10D2, 575/10E, 575/10F, 575/10G, 575/12A, 575/12B,
28. *575/12C, 575/13A, 575/13B, 575/13C, 575/13D, 575/13E1, 575/13E2, 575/13F,
29. *575/14A, 575/14B, 575/14C, 575/15, 575/16, 575/17, 575/18, 575/19, 575/20,
30. *575/21, 575/22, 575/23, 575/24, 575/25, 579/1, 579/2, 580, 581/1, 581/2, 581/3
31. *581/4, 581/5, 724/3 & 724/5 OF SHOLINGANALLUR-1 VILLAGE, SHOLINGANALLUR TALUK,
32. *CHENNAI DISTRICT, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION
33. ENGINEER NAME SURESH
34. CHECKER NAME SURESH
35. APPROVED NAME SURESH
36. ENGINEER DATE 4/12/2024
37. CHECKER DATE 4/12/2024
38. APPROVED DATE 4/12/2024

```



Dr. J. SURESH, M.E., MIE., Ph.D.
 Structural Engineer
 Plot No. 555, VGP Layout, Mullai Street,
 Uthandi, Chennai - 600 119.
 Reg. No. SE/GR-1/19/02/003
 Reg. No. RSE100382019
 Reg. No. CGLRGN/SE/GR-1/2019/06/012

STAAD SPACE

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39. END JOB INFORMATION

40. INPUT WIDTH 79

41. UNIT METER KN

42. JOINT COORDINATES

43. 1 -10.26 -1.45 0; 25 -10.26 -4.45 0; 26 -5.46 -1.45 0; 27 -5.46 -4.45 0

44. 36 -10.26 1.55 0; 37 -5.46 1.55 0; 66 -14.44 -1.45 0; 67 -14.44 -4.45 0

45. 68 -14.44 1.55 0; 69 -19.54 -1.45 0; 70 -19.54 -4.45 0; 71 -19.54 1.55 0

46. 72 -10.26 4.55 0; 73 -5.46 4.55 0; 74 -14.44 4.55 0; 75 -19.54 4.55 0

47. 76 -10.26 7.55 0; 77 -5.46 7.55 0; 78 -14.44 7.55 0; 79 -19.54 7.55 0

48. 80 -10.26 10.55 0; 81 -5.46 10.55 0; 82 -14.44 10.55 0; 83 -19.54 10.55 0

49. 84 -10.26 13.55 0; 85 -5.46 13.55 0; 86 -14.44 13.55 0; 87 -19.54 13.55 0

50. 88 -10.26 16.55 0; 89 -5.46 16.55 0; 90 -14.44 16.55 0; 91 -19.54 16.55 0

51. 92 -10.26 19.55 0; 93 -5.46 19.55 0; 94 -14.44 19.55 0; 95 -19.54 19.55 0

52. 96 -10.26 22.55 0; 97 -5.46 22.55 0; 98 -14.44 22.55 0; 99 -19.54 22.55 0

53. 100 -10.26 25.55 0; 101 -5.46 25.55 0; 102 -14.44 25.55 0; 103 -19.54 25.55 0

54. 104 -10.26 28.55 0; 105 -5.46 28.55 0; 106 -14.44 28.55 0; 107 -19.54 28.55 0

55. MEMBER INCIDENCES

56. 39 1 25; 40 1 26; 41 25 27; 42 26 27; 55 1 36; 56 26 37; 61 36 37; 111 66 67

57. 112 66 1; 113 67 25; 114 66 68; 115 68 36; 116 69 70; 117 69 66; 118 70 67

58. 119 69 71; 120 71 68; 121 36 72; 122 37 73; 123 72 73; 124 68 74; 125 74 72

59. 126 71 75; 127 75 74; 128 72 76; 129 73 77; 130 76 77; 131 74 78; 132 78 76

60. 133 75 79; 134 79 78; 135 76 80; 136 77 81; 137 80 81; 138 78 82; 139 82 80

61. 140 79 83; 141 83 82; 142 80 84; 143 81 85; 144 84 85; 145 82 86; 146 86 84

62. 147 83 87; 148 87 86; 149 84 88; 150 85 89; 151 88 89; 152 86 90; 153 90 88

63. 154 87 91; 155 91 90; 156 88 92; 157 89 93; 158 92 93; 159 90 94; 160 94 92

64. 161 91 95; 162 95 94; 163 92 96; 164 93 97; 165 96 97; 166 94 98; 167 98 96

65. 168 95 99; 169 99 98; 170 96 100; 171 97 101; 172 100 101; 173 98 102

66. 174 102 100; 175 99 103; 176 103 102; 177 100 104; 178 101 105; 179 104 105

67. 180 102 106; 181 106 104; 182 103 107; 183 107 106

68. DEFINE MATERIAL START

69. ISOTROPIC CONCRETE

70. E 2.17185E+07

71. POISSON 0.17

72. DENSITY 23.5616

73. ALPHA 1E-05

74. DAMP 0.05

75. END DEFINE MATERIAL

76. MEMBER PROPERTY INDIAN

77. 40 41 61 112 113 115 117 118 120 123 125 127 130 132 134 137 139 141 144 146 -

78. 148 151 153 155 158 160 162 165 167 169 172 174 176 179 181 -

79. 183 PRIS YD 0.6 ZD 0.2

80. MEMBER PROPERTY INDIAN

81. 39 42 55 56 111 114 116 119 121 122 124 126 128 129 131 133 135 136 138 140 -

82. 142 143 145 147 149 150 152 154 156 157 159 161 163 164 166 168 170 171 173 -

83. 175 177 178 180 182 PRIS YD 0.8 ZD 0.2

84. CONSTANTS

85. MATERIAL CONCRETE MEMB 39 TO 42 55 56 61 111 TO 183

86. SUPPORTS

87. 25 27 67 70 FIXED

88. DEFINE 1893 LOAD

89. ZONE 0.16 RF 3 I 1 SS 2 ST 1 DM 0.5

90. MEMBER WEIGHT

91. 39 TO 42 55 56 61 111 TO 183 UNI -14.5

92. DEFINE WIND LOAD



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*** 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.

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93. TYPE 1
94. INT 0.673 1.03335 1.3537 1.65375 HEIG 10 30 50 100
95. EXP 1 JOINT 1 25 TO 27 36 37 66 TO 107
96. LOAD 1 LOADTYPE NONE TITLE SLX1
97. 1893 LOAD X 1
98. LOAD 2 LOADTYPE NONE TITLE SLZ1
99. 1893 LOAD Z 1
100. LOAD 3 LOADTYPE DEAD TITLE DL
101. SELFWEIGHT Y -1 LIST ALL
102. MEMBER LOAD
103. 40 61 112 115 117 120 123 125 127 130 132 134 137 139 141 144 146 148 151 -
104. 153 155 158 160 162 165 167 169 172 174 176 179 181 183 UNI GY -25
105. LOAD 4 LOADTYPE LIVE TITLE LL
106. MEMBER LOAD
107. 40 61 112 115 117 120 123 125 127 130 132 134 137 139 141 144 146 148 151 -
108. 153 155 158 160 162 165 167 169 172 174 176 179 181 183 UNI GY -15
109. LOAD 7 LOADTYPE WIND TITLE WLZ1
110. WIND LOAD 7 1 TYPE 1
111. LOAD 8 LOADTYPE WIND TITLE WLZ2
112. WIND LOAD 8 -1 TYPE 1
113. LOAD COMB 9 1.5(DL+LL)
114. 3 1.5 4 1.5
115. LOAD COMB 10 1.2(DL+LL+SLX)
116. 3 1.2 4 1.2 1 1.2
117. LOAD COMB 11 1.2(DL+LL+SLZ)
118. 3 1.2 4 1.2 2 1.2
119. LOAD COMB 14 1.2(DL+LL+WLZ1)
120. 3 1.2 4 1.2 7 1.2
121. LOAD COMB 15 1.2(DL+LL+WLZ2)
122. 3 1.2 4 1.2 8 1.2
123. LOAD COMB 16 1.5(DL+SLX)
124. 3 1.5 1 1.5
125. LOAD COMB 17 1.5(DL+SLZ)
126. 3 1.5 2 1.5
127. LOAD COMB 20 1.5(DL+WLZ1)
128. 3 1.5 7 1.5
129. LOAD COMB 21 1.5(DL+WLZ2)
130. 3 1.5 8 1.5
131. LOAD COMB 22 0.9DL+1.5SLX

```



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132. 3 0.9 1 1.5
 133. LOAD COMB 23 0.9DL+1.5SLZ
 134. 3 0.9 2 1.5
 135. LOAD COMB 26 0.9DL+1.5WLZ1
 136. 3 0.9 7 1.5
 137. LOAD COMB 27 0.9DL+1.5WLZ2
 138. 3 0.9 8 1.5
 139. PERFORM ANALYSIS

PROBLEM STATISTICS

NUMBER OF JOINTS	48	NUMBER OF MEMBERS	80
NUMBER OF PLATES	0	NUMBER OF SOLIDS	0
NUMBER OF SURFACES	0	NUMBER OF SUPPORTS	4

Using 64-bit analysis engine.

SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

TOTAL PRIMARY LOAD CASES = 6, TOTAL DEGREES OF FREEDOM = 264
 TOTAL LOAD COMBINATION CASES = 13 SO FAR.

**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.

 * UNITS KN METE *
 * TIME PERIOD FOR X 1893 LOADING = 1.03263 SEC *
 * SA/G PER 1893= 0.659, LOAD FACTOR= 1.000 *
 * VB PER 1893= 0.0176 X 4363.92= 76.63 KN *
 * *****

 * UNITS - KN METE *
 * TIME PERIOD FOR Z 1893 LOADING = 1.03263 SEC *
 * SA/G PER 1893= 0.659, LOAD FACTOR= 1.000 *
 * VB PER 1893= 0.0176 X 4363.92= 76.63 KN *
 * *****

140. FINISH


 Dr. J. SURESH, M.E., MIE., Ph.D.
 Structural Engineer
 Plot No. 555, VGP Layout, Mullai Street,
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***** END OF THE STAAD.Pro RUN *****

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Dr. J. SURESH, M.E., MIE., Ph.D.
Structural Engineer
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By: Suresh

Date: 4/12/2024

Chd: Suresh

Client

File: SHOLINGANALLUR 30A

Date/Time: 12-Apr-2024 18:02



Dr. J. SURESH, M.E., MIE., Ph.D.

Structural Engineer

Plot No. 555, VGP Layout, Mullai Street,
Uthandi, Chennai - 600 119.

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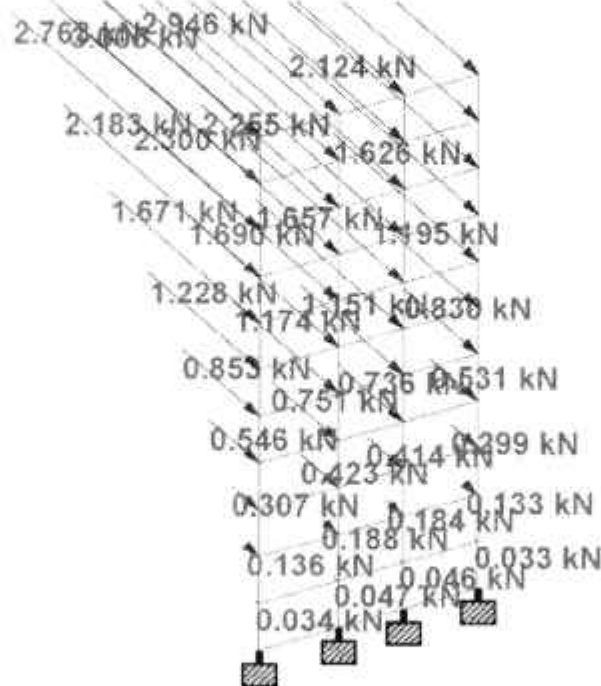
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Level 2

Dr. J. SURESH, M.E., MIE., Ph.D.
Structural Engineer
Plot No. 555, VGP Layout, Mullai Street,
Uthandi, Chennai - 600 119.
Reg. No. SE/GR-1/19/02/003
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Client	File SHOLINGANALLUR 30A	Date/Time 12-Apr-2024 18:02

Job Title The Proposed Construction Of High Rise Group Development

Y
Z-X



Load/3


Dr. J. SURESH, M.E., MIE., Ph.D.
Structural Engineer
Plot No. 555, VGP Layout, Mullai Street,
Uthandi, Chennai - 600 119.
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By Suresh

Date 4/12/2024

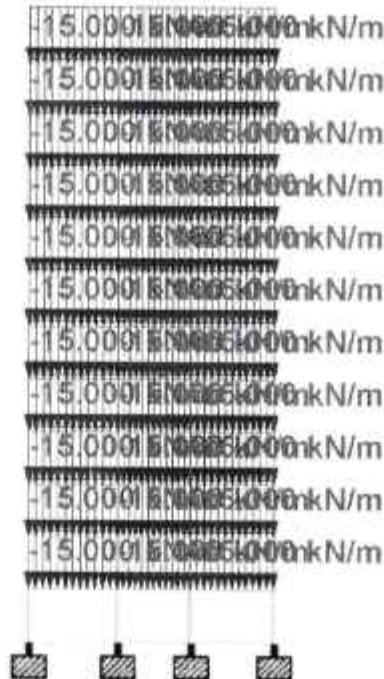
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Y
Z-X




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Structural Engineer
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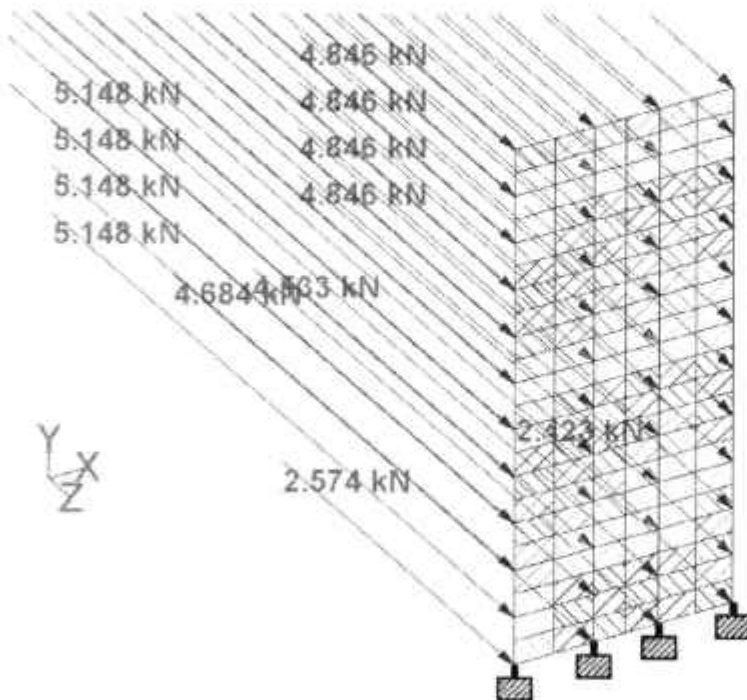
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Load 7

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Structural Engineer

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Uthandi, Chennai - 600 119.

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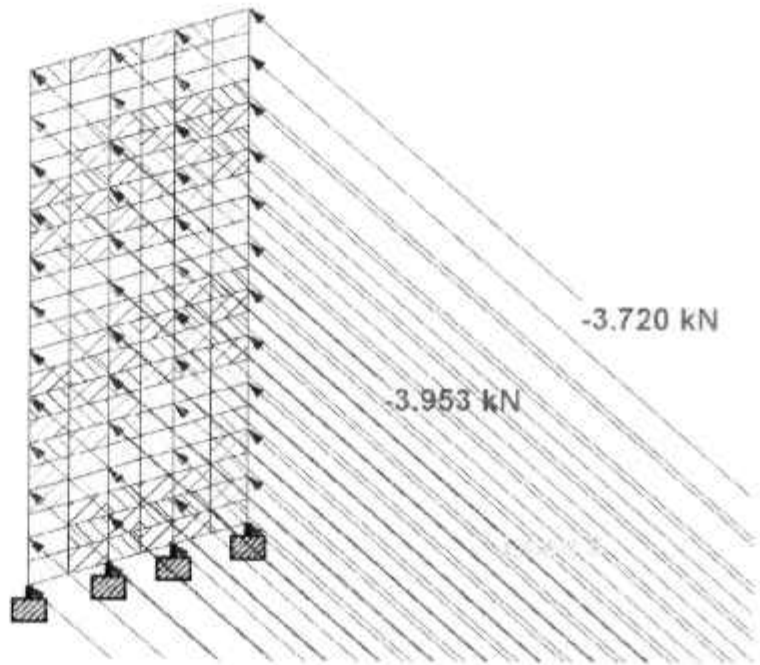


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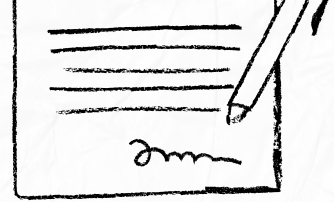
Dr. J. SURESH, M.E., MIE., Ph.D.
Structural Engineer

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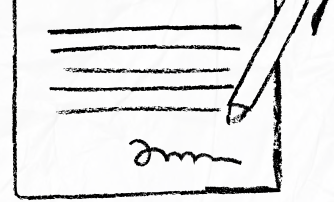
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hello@verified.realestate
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