STAAD SPACE

START JOB INFORMATION

ENGINEER DATE 28-Jun-18

END JOB INFORMATION

INPUT WIDTH 79

UNIT METER KN

JOINT COORDINATES

1 0 0 0; 2 3.315 0 0; 3 3.315 0 3.145; 4 0 0 4.575; 5 2.115 0 4.575;

6 3.315 0 6.446; 7 3.315 0 1.1; 8 5.23 0 1.1; 9 7.414 0 3.145;

10 7.414 0 6.446; 11 7.414 0 1.1; 12 2.115 0 6.446; 13 3.315 0 4.575;

14 5.23 0 3.145; 15 0 0 3.145; 16 14.828 0 0; 17 11.513 0 0; 18 11.513 0 3.145;

19 14.828 0 4.575; 20 12.713 0 4.575; 21 11.513 0 6.446; 22 11.513 0 1.1;

23 9.598 0 1.1; 24 12.713 0 6.446; 25 11.513 0 4.575; 26 9.598 0 3.145;

27 14.828 0 3.145; 28 0 0 16.193; 29 3.315 0 16.193; 30 3.315 0 13.048;

31 0 0 11.618; 32 2.115 0 11.618; 33 3.315 0 15.093; 34 5.23 0 15.093;

35 7.414 0 13.048; 36 7.414 0 15.093; 37 3.315 0 11.618; 38 5.23 0 13.048;

39 0 0 13.048; 40 14.828 0 16.193; 41 11.513 0 16.193; 42 11.513 0 13.048;

43 14.828 0 11.618; 44 12.713 0 11.618; 45 11.513 0 15.093; 46 9.598 0 15.093;

47 11.513 0 11.618; 48 9.598 0 13.048; 49 14.828 0 13.048; 50 2.115 0 9.747;

51 3.315 0 9.747; 52 7.414 0 9.747; 53 12.713 0 9.747; 54 11.513 0 9.747;

55 0 -3 0; 56 3.315 -3 0; 57 3.315 -3 3.145; 58 0 -3 4.575; 59 2.115 -3 4.575;

60 3.315 -3 6.446; 61 5.23 -3 1.1; 62 7.414 -3 3.145; 63 7.414 -3 6.446;

64 14.828 -3 0; 65 11.513 -3 0; 66 11.513 -3 3.145; 67 14.828 -3 4.575;

68 12.713 -3 4.575; 69 11.513 -3 6.446; 70 9.598 -3 1.1; 71 0 -3 16.193;

72 3.315 -3 16.193; 73 3.315 -3 13.048; 74 0 -3 11.618; 75 2.115 -3 11.618;

76 5.23 -3 15.093; 77 7.414 -3 13.048; 78 14.828 -3 16.193;

79 11.513 -3 16.193; 80 11.513 -3 13.048; 81 14.828 -3 11.618;

82 12.713 -3 11.618; 83 9.598 -3 15.093; 84 3.315 -3 9.747; 85 7.414 -3 9.747;

86 11.513 -3 9.747; 87 0 3 0; 88 3.315 3 0; 89 3.315 3 3.145; 90 0 3 4.575;

91 2.115 3 4.575; 92 3.315 3 6.446; 93 3.315 3 1.1; 94 5.23 3 1.1;

95 7.414 3 3.145; 96 7.414 3 6.446; 97 7.414 3 1.1; 98 2.115 3 6.446;

99 3.315 3 4.575; 100 5.23 3 3.145; 101 0 3 3.145; 102 14.828 3 0;

103 11.513 3 0; 104 11.513 3 3.145; 105 14.828 3 4.575; 106 12.713 3 4.575;

107 11.513 3 6.446; 108 11.513 3 1.1; 109 9.598 3 1.1; 110 12.713 3 6.446;

111 11.513 3 4.575; 112 9.598 3 3.145; 113 14.828 3 3.145; 114 0 3 16.193;

115 3.315 3 16.193; 116 3.315 3 13.048; 117 0 3 11.618; 118 2.115 3 11.618;

119 3.315 3 15.093; 120 5.23 3 15.093; 121 7.414 3 13.048; 122 7.414 3 15.093;

123 3.315 3 11.618; 124 5.23 3 13.048; 125 0 3 13.048; 126 14.828 3 16.193;

127 11.513 3 16.193; 128 11.513 3 13.048; 129 14.828 3 11.618;

130 12.713 3 11.618; 131 11.513 3 15.093; 132 9.598 3 15.093;

133 11.513 3 11.618; 134 9.598 3 13.048; 135 14.828 3 13.048;

136 2.115 3 9.747; 137 3.315 3 9.747; 138 7.414 3 9.747; 139 12.713 3 9.747;

140 11.513 3 9.747; 141 0 6 0; 142 3.315 6 0; 143 3.315 6 3.145; 144 0 6 4.575;

145 2.115 6 4.575; 146 3.315 6 6.446; 147 3.315 6 1.1; 148 5.23 6 1.1;

149 7.414 6 3.145; 150 7.414 6 6.446; 151 7.414 6 1.1; 152 2.115 6 6.446;

153 3.315 6 4.575; 154 5.23 6 3.145; 155 0 6 3.145; 156 14.828 6 0;

157 11.513 6 0; 158 11.513 6 3.145; 159 14.828 6 4.575; 160 12.713 6 4.575;

161 11.513 6 6.446; 162 11.513 6 1.1; 163 9.598 6 1.1; 164 12.713 6 6.446;

165 11.513 6 4.575; 166 9.598 6 3.145; 167 14.828 6 3.145; 168 0 6 16.193;

169 3.315 6 16.193; 170 3.315 6 13.048; 171 0 6 11.618; 172 2.115 6 11.618;

173 3.315 6 15.093; 174 5.23 6 15.093; 175 7.414 6 13.048; 176 7.414 6 15.093;

177 3.315 6 11.618; 178 5.23 6 13.048; 179 0 6 13.048; 180 14.828 6 16.193;

181 11.513 6 16.193; 182 11.513 6 13.048; 183 14.828 6 11.618;

184 12.713 6 11.618; 185 11.513 6 15.093; 186 9.598 6 15.093;

187 11.513 6 11.618; 188 9.598 6 13.048; 189 14.828 6 13.048;

190 2.115 6 9.747; 191 3.315 6 9.747; 192 7.414 6 9.747; 193 12.713 6 9.747;

194 11.513 6 9.747; 195 0 9 0; 196 3.315 9 0; 197 3.315 9 3.145; 198 0 9 4.575;

199 2.115 9 4.575; 200 3.315 9 6.446; 201 3.315 9 1.1; 202 5.23 9 1.1;

203 7.414 9 3.145; 204 7.414 9 6.446; 205 7.414 9 1.1; 206 2.115 9 6.446;

207 3.315 9 4.575; 208 5.23 9 3.145; 209 0 9 3.145; 210 14.828 9 0;

211 11.513 9 0; 212 11.513 9 3.145; 213 14.828 9 4.575; 214 12.713 9 4.575;

215 11.513 9 6.446; 216 11.513 9 1.1; 217 9.598 9 1.1; 218 12.713 9 6.446;

219 11.513 9 4.575; 220 9.598 9 3.145; 221 14.828 9 3.145; 222 0 9 16.193;

223 3.315 9 16.193; 224 3.315 9 13.048; 225 0 9 11.618; 226 2.115 9 11.618;

227 3.315 9 15.093; 228 5.23 9 15.093; 229 7.414 9 13.048; 230 7.414 9 15.093;

231 3.315 9 11.618; 232 5.23 9 13.048; 233 0 9 13.048; 234 14.828 9 16.193;

235 11.513 9 16.193; 236 11.513 9 13.048; 237 14.828 9 11.618;

238 12.713 9 11.618; 239 11.513 9 15.093; 240 9.598 9 15.093;

241 11.513 9 11.618; 242 9.598 9 13.048; 243 14.828 9 13.048;

244 2.115 9 9.747; 245 3.315 9 9.747; 246 7.414 9 9.747; 247 12.713 9 9.747;

248 11.513 9 9.747;

MEMBER INCIDENCES

1 1 2; 2 1 15; 3 4 5; 4 2 7; 5 3 13; 6 6 10; 7 3 14; 8 7 8; 9 11 9; 10 8 11;

11 9 10; 12 5 12; 13 12 6; 14 13 6; 15 5 13; 16 14 9; 17 8 14; 18 15 4;

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192 104 111; 193 107 96; 194 104 112; 195 108 109; 196 109 97; 197 106 110;

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488 213 214; 489 211 216; 490 212 219; 491 215 204; 492 212 220; 493 216 217;

494 217 205; 495 214 218; 496 218 215; 497 219 215; 498 214 219; 499 220 203;

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506 223 227; 507 224 231; 508 224 232; 509 227 228; 510 230 229; 511 228 230;

512 229 246; 513 226 244; 514 231 245; 515 226 231; 516 232 229; 517 228 232;

518 233 225; 519 234 235; 520 234 243; 521 237 238; 522 235 239; 523 236 241;

524 236 242; 525 239 240; 526 240 230; 527 238 247; 528 241 248; 529 238 241;

530 242 229; 531 240 242; 532 243 237; 533 243 236; 534 248 215; 535 201 197;

536 216 212; 537 227 224; 538 239 236; 539 244 245; 540 233 224; 541 245 246;

542 246 248; 543 248 247; 544 200 245; 545 204 246;

DEFINE MATERIAL START

ISOTROPIC CONCRETE

E 2.17185e+007

POISSON 0.17

DENSITY 23.5616

ALPHA 1e-005

DAMP 0.05

TYPE CONCRETE

STRENGTH FCU 27579

END DEFINE MATERIAL

MEMBER PROPERTY AMERICAN

1 TO 52 54 TO 68 71 TO 82 169 TO 247 302 TO 380 467 TO 545 PRIS YD 0.4 ZD 0.2

83 TO 168 248 TO 301 413 TO 466 PRIS YD 0.4 ZD 0.2

CONSTANTS

MATERIAL CONCRETE ALL

SUPPORTS

55 TO 86 FIXED

LOAD 5 LOADTYPE Dead TITLE DL

SELFWEIGHT Y -1

FLOOR LOAD

YRANGE 0 12 FLOAD -5 GY

MEMBER LOAD

7 16 19 26 33 36 41 42 50 58 59 65 68 72 TO 75 77 96 103 110 175 184 187 194 -

201 204 209 210 218 225 226 232 235 237 TO 240 242 308 317 320 327 334 337 -

342 343 351 358 359 365 368 370 TO 373 375 473 482 485 492 499 502 507 508 -

516 523 524 530 533 535 TO 538 540 UNI GY -6.5

1 TO 4 6 8 TO 13 18 20 TO 23 25 27 TO 30 35 37 TO 40 43 TO 47 52 54 TO 57 -

60 TO 62 67 71 76 78 TO 81 83 84 86 88 89 91 TO 93 95 97 TO 100 102 104 106 -

107 109 111 TO 116 118 120 TO 122 124 TO 126 129 TO 131 133 135 TO 138 141 -

142 TO 143 145 147 148 150 153 TO 155 157 159 160 163 TO 172 174 176 TO 181 -

186 188 TO 191 193 195 TO 198 203 205 TO 208 211 TO 215 220 TO 224 -

227 TO 229 234 236 241 243 TO 246 248 249 251 253 TO 255 257 TO 259 -

262 TO 264 266 268 TO 271 274 TO 276 278 280 281 283 286 TO 288 290 292 293 -

296 TO 305 307 309 TO 314 319 321 TO 324 326 328 TO 331 336 338 TO 341 344 -

345 TO 348 353 TO 357 360 TO 362 367 369 374 376 TO 379 413 414 416 -

418 TO 420 422 TO 424 427 TO 429 431 433 TO 436 439 TO 441 443 445 446 448 -

451 TO 453 455 457 458 461 TO 470 472 474 TO 479 484 486 TO 489 491 -

493 TO 496 501 503 TO 506 509 TO 513 518 TO 522 525 TO 527 532 534 539 541 -

542 TO 544 UNI GY -13

LOAD 6 LOADTYPE Live REDUCIBLE TITLE LL

FLOOR LOAD

YRANGE 0 12 FLOAD -4 GY

LOAD COMB 1 Generated Indian Code Genral\_Structures 1

5 1.5 6 1.5

LOAD COMB 2 Generated Indian Code Genral\_Structures 2

5 1.2 6 1.2

LOAD COMB 3 Generated Indian Code Genral\_Structures 3

5 1.5

LOAD COMB 4 Generated Indian Code Genral\_Structures 4

5 0.9

PERFORM ANALYSIS PRINT ALL

START CONCRETE DESIGN

CODE INDIAN

FC 20000 ALL

FYMAIN 415000 ALL

FYSEC 41500 ALL

RATIO 3.5 ALL

DESIGN BEAM 1 TO 52 54 TO 68 71 TO 82 169 TO 247 302 TO 380 467 TO 545

DESIGN COLUMN 83 TO 168 248 TO 301 413 TO 466

CONCRETE TAKE

END CONCRETE DESIGN

FINISH