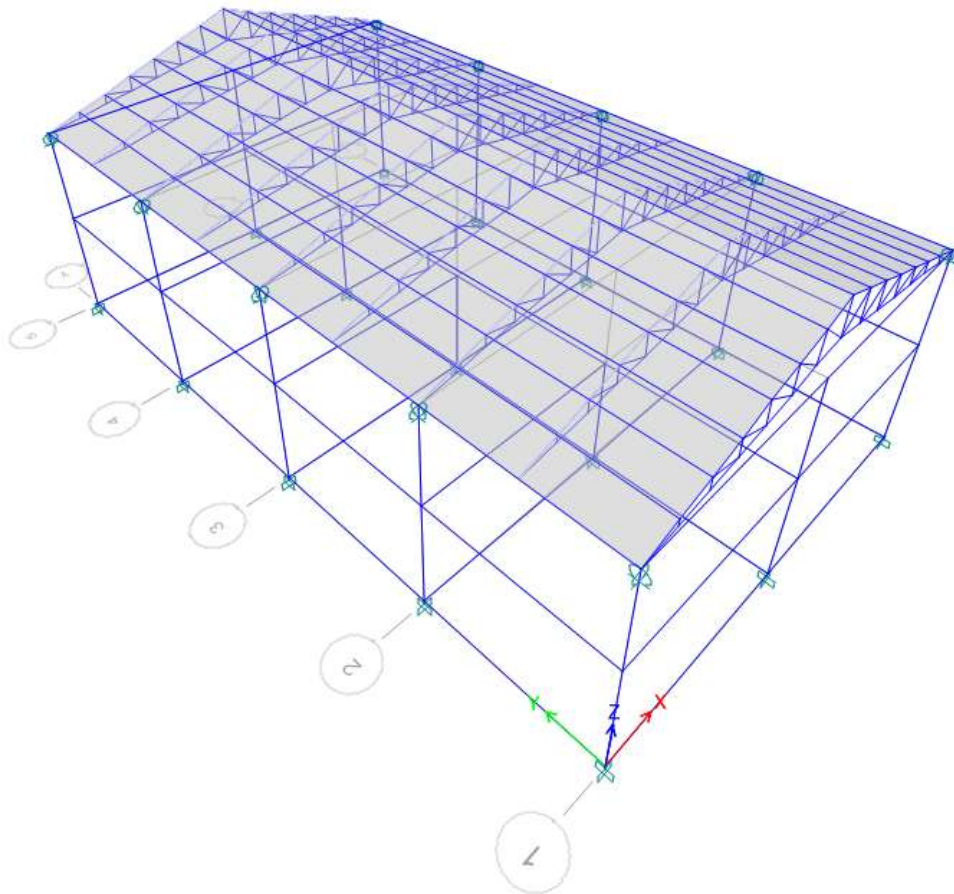


ETABS®



Project Report

Model File: PROCESSING UNITS_SAMPLE_1, Revision 0
02/01/2023

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1 Structure Data

This chapter provides model geometry information, including items such as story levels, point coordinates, and element connectivity.

1.1 Story Data

Table 1.1 - Story Definitions

| Tower | Name | Height m | Master Story | Similar To | Splice Story | Color |
|-------|--------|----------|--------------|------------|--------------|-------|
| T1 | Story2 | 2.8 | Yes | None | No | Blue |
| T1 | Story1 | 3.2 | No | Story2 | No | Green |

1.2 Grid Data

Table 1.2 - Grid Definitions - General

| Tower | Name | Type | Ux m | Uy m | Rz deg | Story Range | Bubble Size mm | Color |
|-------|------|-----------|------|------|--------|-------------|----------------|-------|
| T1 | G1 | Cartesian | 0 | 0 | 0 | Default | 1250 | Gray6 |

Table 1.3 - Grid Definitions - Grid Lines

| Name | Grid Line Type | ID | Ordinate m | Bubble Location | Visible |
|------|----------------|----|------------|-----------------|---------|
| G1 | X (Cartesian) | A | 0 | End | Yes |
| G1 | X (Cartesian) | B | 6 | End | Yes |
| G1 | X (Cartesian) | C | 12 | End | Yes |
| G1 | Y (Cartesian) | 1 | 0 | Start | Yes |
| G1 | Y (Cartesian) | 2 | 5 | Start | Yes |
| G1 | Y (Cartesian) | 3 | 10 | Start | Yes |
| G1 | Y (Cartesian) | 4 | 15 | Start | Yes |
| G1 | Y (Cartesian) | 5 | 20 | Start | Yes |

1.3 Point Coordinates

Table 1.4 - Point Bays

| Label | Is Auto Point | X m | Y m | DZBelow m |
|-------|---------------|-----|-----|-----------|
| 1 | No | 0 | 20 | 0 |
| 2 | No | 6 | 20 | 0 |
| 3 | No | 0 | 15 | 0 |
| 4 | No | 6 | 15 | 0 |
| 5 | No | 12 | 20 | 0 |
| 6 | No | 12 | 15 | 0 |
| 7 | No | 12 | 10 | 0 |
| 8 | No | 0 | 10 | 0 |
| 9 | No | 6 | 10 | 0 |
| 10 | No | 6 | 5 | 0 |
| 11 | No | 12 | 5 | 0 |
| 12 | No | 0 | 5 | 0 |
| 13 | No | 12 | 0 | 0 |
| 14 | No | 6 | 0 | 0 |
| 15 | No | 0 | 0 | 0 |
| 16 | No | 6 | 20 | -2 |
| 17 | No | 6 | 20 | -1 |

Table 1.4 - Point Bays (continued)

| Label | Is Auto Point | X m | Y m | DZBelow m |
|-------|---------------|-------|------|-----------|
| 66 | No | 0.96 | 20 | -0.32 |
| 67 | No | 1.8 | 20 | -0.6 |
| 68 | No | 2.64 | 20 | -0.88 |
| 69 | No | 3.48 | 20 | -1.16 |
| 70 | No | 4.32 | 20 | -1.44 |
| 71 | No | 5.16 | 20 | -1.72 |
| 72 | No | 11.04 | 20 | -0.32 |
| 73 | No | 10.2 | 20 | -0.6 |
| 74 | No | 9.36 | 20 | -0.88 |
| 75 | No | 8.52 | 20 | -1.16 |
| 76 | No | 7.68 | 20 | -1.44 |
| 77 | No | 6.84 | 20 | -1.72 |
| 78 | No | 0.96 | 20 | -0.16 |
| 79 | No | 1.8 | 20 | -0.3 |
| 80 | No | 2.64 | 20 | -0.44 |
| 81 | No | 3.48 | 20 | -0.58 |
| 82 | No | 4.32 | 20 | -0.72 |
| 83 | No | 5.16 | 20 | -0.86 |
| 84 | No | 11.04 | 20 | -0.16 |
| 85 | No | 10.2 | 20 | -0.3 |
| 86 | No | 9.36 | 20 | -0.44 |
| 87 | No | 8.52 | 20 | -0.58 |
| 88 | No | 7.68 | 20 | -0.72 |
| 89 | No | 6.84 | 20 | -0.86 |
| 167 | No | 0 | 17.5 | 0 |
| 168 | No | 0 | 12.5 | 0 |
| 169 | No | 0 | 7.5 | 0 |
| 170 | No | 0 | 2.5 | 0 |
| 171 | No | 6 | 17.5 | -2 |
| 172 | No | 6 | 15 | -2 |
| 173 | No | 6 | 12.5 | -2 |
| 174 | No | 6 | 10 | -2 |
| 175 | No | 6 | 7.5 | -2 |
| 176 | No | 6 | 5 | -2 |
| 177 | No | 6 | 2.5 | -2 |
| 178 | No | 6 | 0 | -2 |
| 227 | No | 12 | 17.5 | 0 |
| 228 | No | 6 | 17.5 | -1 |
| 229 | No | 0.96 | 17.5 | -0.32 |
| 230 | No | 1.8 | 17.5 | -0.6 |
| 231 | No | 2.64 | 17.5 | -0.88 |
| 232 | No | 3.48 | 17.5 | -1.16 |
| 233 | No | 4.32 | 17.5 | -1.44 |
| 234 | No | 5.16 | 17.5 | -1.72 |
| 235 | No | 11.04 | 17.5 | -0.32 |
| 236 | No | 10.2 | 17.5 | -0.6 |
| 237 | No | 9.36 | 17.5 | -0.88 |
| 238 | No | 8.52 | 17.5 | -1.16 |
| 239 | No | 7.68 | 17.5 | -1.44 |

Table 1.4 - Point Bays (continued)

| Label | Is Auto Point | X m | Y m | DZBelow m |
|-------|---------------|-------|------|-----------|
| 240 | No | 6.84 | 17.5 | -1.72 |
| 241 | No | 0.96 | 17.5 | -0.16 |
| 242 | No | 1.8 | 17.5 | -0.3 |
| 243 | No | 2.64 | 17.5 | -0.44 |
| 244 | No | 3.48 | 17.5 | -0.58 |
| 245 | No | 4.32 | 17.5 | -0.72 |
| 246 | No | 5.16 | 17.5 | -0.86 |
| 247 | No | 11.04 | 17.5 | -0.16 |
| 248 | No | 10.2 | 17.5 | -0.3 |
| 249 | No | 9.36 | 17.5 | -0.44 |
| 250 | No | 8.52 | 17.5 | -0.58 |
| 251 | No | 7.68 | 17.5 | -0.72 |
| 252 | No | 6.84 | 17.5 | -0.86 |
| 259 | No | 6 | 15 | -1 |
| 260 | No | 0.96 | 15 | -0.32 |
| 261 | No | 1.8 | 15 | -0.6 |
| 262 | No | 2.64 | 15 | -0.88 |
| 263 | No | 3.48 | 15 | -1.16 |
| 264 | No | 4.32 | 15 | -1.44 |
| 265 | No | 5.16 | 15 | -1.72 |
| 266 | No | 11.04 | 15 | -0.32 |
| 267 | No | 10.2 | 15 | -0.6 |
| 268 | No | 9.36 | 15 | -0.88 |
| 269 | No | 8.52 | 15 | -1.16 |
| 270 | No | 7.68 | 15 | -1.44 |
| 271 | No | 6.84 | 15 | -1.72 |
| 272 | No | 0.96 | 15 | -0.16 |
| 273 | No | 1.8 | 15 | -0.3 |
| 274 | No | 2.64 | 15 | -0.44 |
| 275 | No | 3.48 | 15 | -0.58 |
| 276 | No | 4.32 | 15 | -0.72 |
| 277 | No | 5.16 | 15 | -0.86 |
| 278 | No | 11.04 | 15 | -0.16 |
| 279 | No | 10.2 | 15 | -0.3 |
| 280 | No | 9.36 | 15 | -0.44 |
| 281 | No | 8.52 | 15 | -0.58 |
| 282 | No | 7.68 | 15 | -0.72 |
| 283 | No | 6.84 | 15 | -0.86 |
| 290 | No | 12 | 12.5 | 0 |
| 291 | No | 6 | 12.5 | -1 |
| 292 | No | 0.96 | 12.5 | -0.32 |
| 293 | No | 1.8 | 12.5 | -0.6 |
| 294 | No | 2.64 | 12.5 | -0.88 |
| 295 | No | 3.48 | 12.5 | -1.16 |
| 296 | No | 4.32 | 12.5 | -1.44 |
| 297 | No | 5.16 | 12.5 | -1.72 |
| 298 | No | 11.04 | 12.5 | -0.32 |
| 299 | No | 10.2 | 12.5 | -0.6 |
| 300 | No | 9.36 | 12.5 | -0.88 |

Table 1.4 - Point Bays (continued)

| Label | Is Auto Point | X m | Y m | DZBelow m |
|-------|---------------|-------|------|-----------|
| 301 | No | 8.52 | 12.5 | -1.16 |
| 302 | No | 7.68 | 12.5 | -1.44 |
| 303 | No | 6.84 | 12.5 | -1.72 |
| 304 | No | 0.96 | 12.5 | -0.16 |
| 305 | No | 1.8 | 12.5 | -0.3 |
| 306 | No | 2.64 | 12.5 | -0.44 |
| 307 | No | 3.48 | 12.5 | -0.58 |
| 308 | No | 4.32 | 12.5 | -0.72 |
| 309 | No | 5.16 | 12.5 | -0.86 |
| 310 | No | 11.04 | 12.5 | -0.16 |
| 311 | No | 10.2 | 12.5 | -0.3 |
| 312 | No | 9.36 | 12.5 | -0.44 |
| 313 | No | 8.52 | 12.5 | -0.58 |
| 314 | No | 7.68 | 12.5 | -0.72 |
| 315 | No | 6.84 | 12.5 | -0.86 |
| 322 | No | 6 | 10 | -1 |
| 323 | No | 0.96 | 10 | -0.32 |
| 324 | No | 1.8 | 10 | -0.6 |
| 325 | No | 2.64 | 10 | -0.88 |
| 326 | No | 3.48 | 10 | -1.16 |
| 327 | No | 4.32 | 10 | -1.44 |
| 328 | No | 5.16 | 10 | -1.72 |
| 329 | No | 11.04 | 10 | -0.32 |
| 330 | No | 10.2 | 10 | -0.6 |
| 331 | No | 9.36 | 10 | -0.88 |
| 332 | No | 8.52 | 10 | -1.16 |
| 333 | No | 7.68 | 10 | -1.44 |
| 334 | No | 6.84 | 10 | -1.72 |
| 335 | No | 0.96 | 10 | -0.16 |
| 336 | No | 1.8 | 10 | -0.3 |
| 337 | No | 2.64 | 10 | -0.44 |
| 338 | No | 3.48 | 10 | -0.58 |
| 339 | No | 4.32 | 10 | -0.72 |
| 340 | No | 5.16 | 10 | -0.86 |
| 341 | No | 11.04 | 10 | -0.16 |
| 342 | No | 10.2 | 10 | -0.3 |
| 343 | No | 9.36 | 10 | -0.44 |
| 344 | No | 8.52 | 10 | -0.58 |
| 345 | No | 7.68 | 10 | -0.72 |
| 346 | No | 6.84 | 10 | -0.86 |
| 353 | No | 12 | 7.5 | 0 |
| 354 | No | 6 | 7.5 | -1 |
| 355 | No | 0.96 | 7.5 | -0.32 |
| 356 | No | 1.8 | 7.5 | -0.6 |
| 357 | No | 2.64 | 7.5 | -0.88 |
| 358 | No | 3.48 | 7.5 | -1.16 |
| 359 | No | 4.32 | 7.5 | -1.44 |
| 360 | No | 5.16 | 7.5 | -1.72 |
| 361 | No | 11.04 | 7.5 | -0.32 |

Table 1.4 - Point Bays (continued)

| Label | Is Auto Point | X m | Y m | DZBelow m |
|-------|---------------|-------|-----|-----------|
| 362 | No | 10.2 | 7.5 | -0.6 |
| 363 | No | 9.36 | 7.5 | -0.88 |
| 364 | No | 8.52 | 7.5 | -1.16 |
| 365 | No | 7.68 | 7.5 | -1.44 |
| 366 | No | 6.84 | 7.5 | -1.72 |
| 367 | No | 0.96 | 7.5 | -0.16 |
| 368 | No | 1.8 | 7.5 | -0.3 |
| 369 | No | 2.64 | 7.5 | -0.44 |
| 370 | No | 3.48 | 7.5 | -0.58 |
| 371 | No | 4.32 | 7.5 | -0.72 |
| 372 | No | 5.16 | 7.5 | -0.86 |
| 373 | No | 11.04 | 7.5 | -0.16 |
| 374 | No | 10.2 | 7.5 | -0.3 |
| 375 | No | 9.36 | 7.5 | -0.44 |
| 376 | No | 8.52 | 7.5 | -0.58 |
| 377 | No | 7.68 | 7.5 | -0.72 |
| 378 | No | 6.84 | 7.5 | -0.86 |
| 385 | No | 6 | 5 | -1 |
| 386 | No | 0.96 | 5 | -0.32 |
| 387 | No | 1.8 | 5 | -0.6 |
| 388 | No | 2.64 | 5 | -0.88 |
| 389 | No | 3.48 | 5 | -1.16 |
| 390 | No | 4.32 | 5 | -1.44 |
| 391 | No | 5.16 | 5 | -1.72 |
| 392 | No | 11.04 | 5 | -0.32 |
| 393 | No | 10.2 | 5 | -0.6 |
| 394 | No | 9.36 | 5 | -0.88 |
| 395 | No | 8.52 | 5 | -1.16 |
| 396 | No | 7.68 | 5 | -1.44 |
| 397 | No | 6.84 | 5 | -1.72 |
| 398 | No | 0.96 | 5 | -0.16 |
| 399 | No | 1.8 | 5 | -0.3 |
| 400 | No | 2.64 | 5 | -0.44 |
| 401 | No | 3.48 | 5 | -0.58 |
| 402 | No | 4.32 | 5 | -0.72 |
| 403 | No | 5.16 | 5 | -0.86 |
| 404 | No | 11.04 | 5 | -0.16 |
| 405 | No | 10.2 | 5 | -0.3 |
| 406 | No | 9.36 | 5 | -0.44 |
| 407 | No | 8.52 | 5 | -0.58 |
| 408 | No | 7.68 | 5 | -0.72 |
| 409 | No | 6.84 | 5 | -0.86 |
| 416 | No | 12 | 2.5 | 0 |
| 417 | No | 6 | 2.5 | -1 |
| 418 | No | 0.96 | 2.5 | -0.32 |
| 419 | No | 1.8 | 2.5 | -0.6 |
| 420 | No | 2.64 | 2.5 | -0.88 |
| 421 | No | 3.48 | 2.5 | -1.16 |
| 422 | No | 4.32 | 2.5 | -1.44 |

Table 1.4 - Point Bays (continued)

| Label | Is Auto Point | X m | Y m | DZBelow m |
|--------------|----------------------|------------|------------|------------------|
| 423 | No | 5.16 | 2.5 | -1.72 |
| 424 | No | 11.04 | 2.5 | -0.32 |
| 425 | No | 10.2 | 2.5 | -0.6 |
| 426 | No | 9.36 | 2.5 | -0.88 |
| 427 | No | 8.52 | 2.5 | -1.16 |
| 428 | No | 7.68 | 2.5 | -1.44 |
| 429 | No | 6.84 | 2.5 | -1.72 |
| 430 | No | 0.96 | 2.5 | -0.16 |
| 431 | No | 1.8 | 2.5 | -0.3 |
| 432 | No | 2.64 | 2.5 | -0.44 |
| 433 | No | 3.48 | 2.5 | -0.58 |
| 434 | No | 4.32 | 2.5 | -0.72 |
| 435 | No | 5.16 | 2.5 | -0.86 |
| 436 | No | 11.04 | 2.5 | -0.16 |
| 437 | No | 10.2 | 2.5 | -0.3 |
| 438 | No | 9.36 | 2.5 | -0.44 |
| 439 | No | 8.52 | 2.5 | -0.58 |
| 440 | No | 7.68 | 2.5 | -0.72 |
| 441 | No | 6.84 | 2.5 | -0.86 |
| 448 | No | 6 | 0 | -1 |
| 449 | No | 0.96 | 0 | -0.32 |
| 450 | No | 1.8 | 0 | -0.6 |
| 451 | No | 2.64 | 0 | -0.88 |
| 452 | No | 3.48 | 0 | -1.16 |
| 453 | No | 4.32 | 0 | -1.44 |
| 454 | No | 5.16 | 0 | -1.72 |
| 455 | No | 11.04 | 0 | -0.32 |
| 456 | No | 10.2 | 0 | -0.6 |
| 457 | No | 9.36 | 0 | -0.88 |
| 458 | No | 8.52 | 0 | -1.16 |
| 459 | No | 7.68 | 0 | -1.44 |
| 460 | No | 6.84 | 0 | -1.72 |
| 461 | No | 0.96 | 0 | -0.16 |
| 462 | No | 1.8 | 0 | -0.3 |
| 463 | No | 2.64 | 0 | -0.44 |
| 464 | No | 3.48 | 0 | -0.58 |
| 465 | No | 4.32 | 0 | -0.72 |
| 466 | No | 5.16 | 0 | -0.86 |
| 467 | No | 11.04 | 0 | -0.16 |
| 468 | No | 10.2 | 0 | -0.3 |
| 469 | No | 9.36 | 0 | -0.44 |
| 470 | No | 8.52 | 0 | -0.58 |
| 471 | No | 7.68 | 0 | -0.72 |
| 472 | No | 6.84 | 0 | -0.86 |

1.4 Line Connectivity

Table 1.5 - Column Bays

| Label | PointBayI | PointBayJ | IEndStory |
|-------|-----------|-----------|-----------|
| C1 | 1 | 1 | Below |
| C2 | 2 | 2 | Below |
| C3 | 5 | 5 | Below |
| C4 | 6 | 6 | Below |
| C5 | 7 | 7 | Below |
| C6 | 3 | 3 | Below |
| C7 | 8 | 8 | Below |
| C8 | 12 | 12 | Below |
| C9 | 11 | 11 | Below |
| C10 | 15 | 15 | Below |
| C11 | 14 | 14 | Below |
| C12 | 13 | 13 | Below |
| C13 | 4 | 4 | Below |
| C14 | 10 | 10 | Below |
| C15 | 17 | 16 | Same |
| C16 | 9 | 9 | Below |
| C77 | 83 | 71 | Same |
| C80 | 82 | 70 | Same |
| C83 | 81 | 69 | Same |
| C86 | 80 | 68 | Same |
| C89 | 79 | 67 | Same |
| C92 | 78 | 66 | Same |
| C95 | 89 | 77 | Same |
| C98 | 88 | 76 | Same |
| C101 | 87 | 75 | Same |
| C104 | 86 | 74 | Same |
| C107 | 85 | 73 | Same |
| C110 | 84 | 72 | Same |
| C112 | 228 | 171 | Same |
| C113 | 246 | 234 | Same |
| C114 | 245 | 233 | Same |
| C115 | 244 | 232 | Same |
| C116 | 243 | 231 | Same |
| C117 | 242 | 230 | Same |
| C118 | 241 | 229 | Same |
| C119 | 252 | 240 | Same |
| C120 | 251 | 239 | Same |
| C121 | 250 | 238 | Same |
| C122 | 249 | 237 | Same |
| C123 | 248 | 236 | Same |
| C124 | 247 | 235 | Same |
| C125 | 259 | 172 | Same |
| C126 | 277 | 265 | Same |
| C127 | 276 | 264 | Same |
| C128 | 275 | 263 | Same |
| C129 | 274 | 262 | Same |
| C130 | 273 | 261 | Same |
| C131 | 272 | 260 | Same |
| C132 | 283 | 271 | Same |
| C133 | 282 | 270 | Same |

Table 1.5 - Column Bays (continued)

| Label | PointBayI | PointBayJ | IEndStory |
|-------|-----------|-----------|-----------|
| C134 | 281 | 269 | Same |
| C135 | 280 | 268 | Same |
| C136 | 279 | 267 | Same |
| C137 | 278 | 266 | Same |
| C138 | 291 | 173 | Same |
| C139 | 309 | 297 | Same |
| C140 | 308 | 296 | Same |
| C141 | 307 | 295 | Same |
| C142 | 306 | 294 | Same |
| C143 | 305 | 293 | Same |
| C144 | 304 | 292 | Same |
| C145 | 315 | 303 | Same |
| C146 | 314 | 302 | Same |
| C147 | 313 | 301 | Same |
| C148 | 312 | 300 | Same |
| C149 | 311 | 299 | Same |
| C150 | 310 | 298 | Same |
| C151 | 322 | 174 | Same |
| C152 | 340 | 328 | Same |
| C153 | 339 | 327 | Same |
| C154 | 338 | 326 | Same |
| C155 | 337 | 325 | Same |
| C156 | 336 | 324 | Same |
| C157 | 335 | 323 | Same |
| C158 | 346 | 334 | Same |
| C159 | 345 | 333 | Same |
| C160 | 344 | 332 | Same |
| C161 | 343 | 331 | Same |
| C162 | 342 | 330 | Same |
| C163 | 341 | 329 | Same |
| C164 | 354 | 175 | Same |
| C165 | 372 | 360 | Same |
| C166 | 371 | 359 | Same |
| C167 | 370 | 358 | Same |
| C168 | 369 | 357 | Same |
| C169 | 368 | 356 | Same |
| C170 | 367 | 355 | Same |
| C171 | 378 | 366 | Same |
| C172 | 377 | 365 | Same |
| C173 | 376 | 364 | Same |
| C174 | 375 | 363 | Same |
| C175 | 374 | 362 | Same |
| C176 | 373 | 361 | Same |
| C177 | 385 | 176 | Same |
| C178 | 403 | 391 | Same |
| C179 | 402 | 390 | Same |
| C180 | 401 | 389 | Same |
| C181 | 400 | 388 | Same |
| C182 | 399 | 387 | Same |

Table 1.5 - Column Bays (continued)

| Label | PointBayI | PointBayJ | IEndStory |
|-------|-----------|-----------|-----------|
| C183 | 398 | 386 | Same |
| C184 | 409 | 397 | Same |
| C185 | 408 | 396 | Same |
| C186 | 407 | 395 | Same |
| C187 | 406 | 394 | Same |
| C188 | 405 | 393 | Same |
| C189 | 404 | 392 | Same |
| C190 | 417 | 177 | Same |
| C191 | 435 | 423 | Same |
| C192 | 434 | 422 | Same |
| C193 | 433 | 421 | Same |
| C194 | 432 | 420 | Same |
| C195 | 431 | 419 | Same |
| C196 | 430 | 418 | Same |
| C197 | 441 | 429 | Same |
| C198 | 440 | 428 | Same |
| C199 | 439 | 427 | Same |
| C200 | 438 | 426 | Same |
| C201 | 437 | 425 | Same |
| C202 | 436 | 424 | Same |
| C203 | 448 | 178 | Same |
| C204 | 466 | 454 | Same |
| C205 | 465 | 453 | Same |
| C206 | 464 | 452 | Same |
| C207 | 463 | 451 | Same |
| C208 | 462 | 450 | Same |
| C209 | 461 | 449 | Same |
| C210 | 472 | 460 | Same |
| C211 | 471 | 459 | Same |
| C212 | 470 | 458 | Same |
| C213 | 469 | 457 | Same |
| C214 | 468 | 456 | Same |
| C215 | 467 | 455 | Same |

Table 1.6 - Beam Bays

| Label | PointBayI | PointBayJ |
|-------|-----------|-----------|
| B1 | 1 | 2 |
| B2 | 3 | 4 |
| B3 | 3 | 1 |
| B4 | 4 | 2 |
| B5 | 2 | 5 |
| B6 | 4 | 6 |
| B7 | 6 | 5 |
| B8 | 7 | 6 |
| B9 | 8 | 3 |
| B10 | 9 | 4 |
| B11 | 8 | 9 |
| B12 | 9 | 7 |
| B13 | 10 | 11 |
| B14 | 12 | 10 |

Table 1.6 - Beam Bays (continued)

| Label | PointBayI | PointBayJ |
|-------|-----------|-----------|
| B15 | 12 | 8 |
| B16 | 10 | 9 |
| B17 | 11 | 7 |
| B18 | 13 | 11 |
| B19 | 14 | 10 |
| B20 | 15 | 12 |
| B21 | 15 | 14 |
| B22 | 14 | 13 |
| B23 | 1 | 66 |
| B24 | 66 | 67 |
| B25 | 67 | 68 |
| B26 | 68 | 69 |
| B27 | 69 | 70 |
| B28 | 171 | 16 |
| B29 | 70 | 71 |
| B30 | 71 | 16 |
| B31 | 5 | 72 |
| B32 | 72 | 73 |
| B33 | 73 | 74 |
| B34 | 172 | 171 |
| B35 | 74 | 75 |
| B36 | 75 | 76 |
| B37 | 76 | 77 |
| B38 | 77 | 16 |
| B39 | 1 | 78 |
| B40 | 173 | 172 |
| B41 | 78 | 79 |
| B42 | 79 | 80 |
| B43 | 80 | 81 |
| B44 | 81 | 82 |
| B45 | 82 | 83 |
| B46 | 174 | 173 |
| B47 | 83 | 17 |
| B48 | 5 | 84 |
| B49 | 84 | 85 |
| B50 | 85 | 86 |
| B51 | 86 | 87 |
| B52 | 175 | 174 |
| B53 | 87 | 88 |
| B54 | 88 | 89 |
| B55 | 89 | 17 |
| B56 | 80 | 67 |
| B57 | 81 | 68 |
| B58 | 87 | 74 |
| B59 | 167 | 229 |
| B60 | 86 | 73 |
| B61 | 229 | 230 |
| B62 | 176 | 175 |
| B63 | 230 | 231 |
| B64 | 231 | 232 |

Table 1.6 - Beam Bays (continued)

| Label | PointBayI | PointBayJ |
|-------|-----------|-----------|
| B65 | 232 | 233 |
| B66 | 233 | 234 |
| B67 | 234 | 171 |
| B68 | 177 | 176 |
| B69 | 227 | 235 |
| B70 | 235 | 236 |
| B71 | 236 | 237 |
| B72 | 237 | 238 |
| B73 | 238 | 239 |
| B74 | 178 | 177 |
| B75 | 239 | 240 |
| B76 | 240 | 171 |
| B77 | 167 | 241 |
| B78 | 241 | 242 |
| B79 | 242 | 243 |
| B80 | 243 | 244 |
| B81 | 244 | 245 |
| B82 | 245 | 246 |
| B83 | 246 | 228 |
| B84 | 227 | 247 |
| B85 | 247 | 248 |
| B86 | 248 | 249 |
| B87 | 249 | 250 |
| B88 | 250 | 251 |
| B89 | 251 | 252 |
| B90 | 252 | 228 |
| B91 | 3 | 260 |
| B92 | 260 | 261 |
| B93 | 261 | 262 |
| B94 | 262 | 263 |
| B95 | 263 | 264 |
| B96 | 264 | 265 |
| B97 | 265 | 172 |
| B98 | 6 | 266 |
| B99 | 266 | 267 |
| B100 | 267 | 268 |
| B101 | 268 | 269 |
| B102 | 269 | 270 |
| B103 | 270 | 271 |
| B104 | 271 | 172 |
| B105 | 3 | 272 |
| B106 | 272 | 273 |
| B107 | 273 | 274 |
| B108 | 274 | 275 |
| B109 | 275 | 276 |
| B110 | 276 | 277 |
| B111 | 277 | 259 |
| B112 | 6 | 278 |
| B113 | 278 | 279 |
| B114 | 279 | 280 |

Table 1.6 - Beam Bays (continued)

| Label | PointBayI | PointBayJ |
|-------|-----------|-----------|
| B115 | 280 | 281 |
| B116 | 281 | 282 |
| B117 | 282 | 283 |
| B118 | 229 | 66 |
| B119 | 283 | 259 |
| B120 | 168 | 292 |
| B121 | 292 | 293 |
| B122 | 293 | 294 |
| B123 | 294 | 295 |
| B124 | 260 | 229 |
| B125 | 295 | 296 |
| B126 | 296 | 297 |
| B127 | 297 | 173 |
| B128 | 290 | 298 |
| B129 | 298 | 299 |
| B130 | 292 | 260 |
| B131 | 299 | 300 |
| B132 | 300 | 301 |
| B133 | 301 | 302 |
| B134 | 302 | 303 |
| B135 | 303 | 173 |
| B136 | 323 | 292 |
| B137 | 168 | 304 |
| B138 | 304 | 305 |
| B139 | 305 | 306 |
| B140 | 306 | 307 |
| B141 | 307 | 308 |
| B142 | 355 | 323 |
| B143 | 308 | 309 |
| B144 | 309 | 291 |
| B145 | 290 | 310 |
| B146 | 310 | 311 |
| B147 | 311 | 312 |
| B148 | 386 | 355 |
| B149 | 312 | 313 |
| B150 | 313 | 314 |
| B151 | 314 | 315 |
| B152 | 315 | 291 |
| B153 | 8 | 323 |
| B154 | 418 | 386 |
| B155 | 323 | 324 |
| B156 | 324 | 325 |
| B157 | 325 | 326 |
| B158 | 326 | 327 |
| B159 | 327 | 328 |
| B168 | 449 | 418 |
| B169 | 230 | 67 |
| B170 | 261 | 230 |
| B171 | 293 | 261 |
| B172 | 324 | 293 |

Table 1.6 - Beam Bays (continued)

| Label | PointBayI | PointBayJ |
|-------|-----------|-----------|
| B173 | 356 | 324 |
| B174 | 387 | 356 |
| B175 | 419 | 387 |
| B176 | 450 | 419 |
| B177 | 231 | 68 |
| B178 | 262 | 231 |
| B179 | 294 | 262 |
| B180 | 325 | 294 |
| B181 | 357 | 325 |
| B182 | 388 | 357 |
| B183 | 420 | 388 |
| B184 | 451 | 420 |
| B185 | 232 | 69 |
| B186 | 263 | 232 |
| B187 | 295 | 263 |
| B188 | 326 | 295 |
| B189 | 358 | 326 |
| B190 | 389 | 358 |
| B191 | 421 | 389 |
| B192 | 452 | 421 |
| B193 | 233 | 70 |
| B194 | 264 | 233 |
| B195 | 296 | 264 |
| B196 | 327 | 296 |
| B197 | 359 | 327 |
| B198 | 390 | 359 |
| B199 | 422 | 390 |
| B200 | 453 | 422 |
| B201 | 234 | 71 |
| B202 | 265 | 234 |
| B203 | 297 | 265 |
| B204 | 328 | 297 |
| B205 | 360 | 328 |
| B206 | 391 | 360 |
| B207 | 423 | 391 |
| B208 | 454 | 423 |
| B209 | 235 | 72 |
| B210 | 266 | 235 |
| B211 | 298 | 266 |
| B212 | 329 | 298 |
| B213 | 361 | 329 |
| B214 | 392 | 361 |
| B215 | 424 | 392 |
| B216 | 455 | 424 |
| B217 | 236 | 73 |
| B218 | 267 | 236 |
| B219 | 299 | 267 |
| B220 | 330 | 299 |
| B221 | 362 | 330 |
| B222 | 393 | 362 |

Table 1.6 - Beam Bays (continued)

| Label | PointBayI | PointBayJ |
|-------|-----------|-----------|
| B223 | 425 | 393 |
| B224 | 456 | 425 |
| B225 | 237 | 74 |
| B226 | 243 | 230 |
| B227 | 244 | 231 |
| B228 | 250 | 237 |
| B229 | 249 | 236 |
| B230 | 268 | 237 |
| B231 | 300 | 268 |
| B232 | 328 | 174 |
| B233 | 7 | 329 |
| B234 | 329 | 330 |
| B235 | 330 | 331 |
| B236 | 331 | 332 |
| B237 | 332 | 333 |
| B238 | 333 | 334 |
| B239 | 334 | 174 |
| B240 | 8 | 335 |
| B241 | 335 | 336 |
| B242 | 336 | 337 |
| B243 | 337 | 338 |
| B244 | 338 | 339 |
| B245 | 339 | 340 |
| B246 | 331 | 300 |
| B247 | 340 | 322 |
| B248 | 274 | 261 |
| B249 | 275 | 262 |
| B250 | 281 | 268 |
| B251 | 280 | 267 |
| B252 | 7 | 341 |
| B253 | 341 | 342 |
| B254 | 342 | 343 |
| B255 | 343 | 344 |
| B256 | 344 | 345 |
| B257 | 345 | 346 |
| B258 | 346 | 322 |
| B259 | 169 | 355 |
| B260 | 355 | 356 |
| B261 | 356 | 357 |
| B262 | 357 | 358 |
| B263 | 358 | 359 |
| B264 | 359 | 360 |
| B265 | 360 | 175 |
| B266 | 353 | 361 |
| B267 | 361 | 362 |
| B268 | 363 | 331 |
| B269 | 394 | 363 |
| B270 | 306 | 293 |
| B271 | 307 | 294 |
| B272 | 313 | 300 |

Table 1.6 - Beam Bays (continued)

| Label | PointBayI | PointBayJ |
|-------|-----------|-----------|
| B273 | 312 | 299 |
| B274 | 426 | 394 |
| B275 | 457 | 426 |
| B276 | 362 | 363 |
| B277 | 363 | 364 |
| B278 | 364 | 365 |
| B279 | 365 | 366 |
| B280 | 366 | 175 |
| B281 | 169 | 367 |
| B282 | 367 | 368 |
| B283 | 368 | 369 |
| B284 | 369 | 370 |
| B285 | 370 | 371 |
| B286 | 371 | 372 |
| B287 | 372 | 354 |
| B288 | 353 | 373 |
| B289 | 373 | 374 |
| B290 | 374 | 375 |
| B291 | 375 | 376 |
| B292 | 337 | 324 |
| B293 | 338 | 325 |
| B294 | 344 | 331 |
| B295 | 343 | 330 |
| B296 | 376 | 377 |
| B297 | 377 | 378 |
| B298 | 378 | 354 |
| B299 | 12 | 386 |
| B300 | 386 | 387 |
| B301 | 387 | 388 |
| B302 | 388 | 389 |
| B303 | 389 | 390 |
| B304 | 390 | 391 |
| B305 | 391 | 176 |
| B306 | 11 | 392 |
| B307 | 392 | 393 |
| B308 | 393 | 394 |
| B309 | 394 | 395 |
| B310 | 395 | 396 |
| B311 | 396 | 397 |
| B312 | 238 | 75 |
| B313 | 269 | 238 |
| B314 | 369 | 356 |
| B315 | 370 | 357 |
| B316 | 376 | 363 |
| B317 | 375 | 362 |
| B318 | 301 | 269 |
| B319 | 332 | 301 |
| B320 | 397 | 176 |
| B321 | 12 | 398 |
| B322 | 398 | 399 |

Table 1.6 - Beam Bays (continued)

| Label | PointBayI | PointBayJ |
|-------|-----------|-----------|
| B323 | 399 | 400 |
| B324 | 400 | 401 |
| B325 | 401 | 402 |
| B326 | 402 | 403 |
| B327 | 403 | 385 |
| B328 | 11 | 404 |
| B329 | 404 | 405 |
| B330 | 405 | 406 |
| B331 | 406 | 407 |
| B332 | 407 | 408 |
| B333 | 408 | 409 |
| B334 | 409 | 385 |
| B335 | 170 | 418 |
| B336 | 400 | 387 |
| B337 | 401 | 388 |
| B338 | 407 | 394 |
| B339 | 406 | 393 |
| B340 | 418 | 419 |
| B341 | 419 | 420 |
| B342 | 420 | 421 |
| B343 | 421 | 422 |
| B344 | 422 | 423 |
| B345 | 423 | 177 |
| B346 | 416 | 424 |
| B347 | 424 | 425 |
| B348 | 425 | 426 |
| B349 | 426 | 427 |
| B350 | 427 | 428 |
| B351 | 428 | 429 |
| B352 | 429 | 177 |
| B353 | 170 | 430 |
| B354 | 430 | 431 |
| B355 | 431 | 432 |
| B356 | 364 | 332 |
| B357 | 395 | 364 |
| B358 | 432 | 419 |
| B359 | 433 | 420 |
| B360 | 439 | 426 |
| B361 | 438 | 425 |
| B362 | 427 | 395 |
| B363 | 458 | 427 |
| B364 | 432 | 433 |
| B365 | 433 | 434 |
| B366 | 434 | 435 |
| B367 | 435 | 417 |
| B368 | 416 | 436 |
| B369 | 436 | 437 |
| B370 | 437 | 438 |
| B371 | 438 | 439 |
| B372 | 439 | 440 |

Table 1.6 - Beam Bays (continued)

| Label | PointBayI | PointBayJ |
|-------|-----------|-----------|
| B373 | 440 | 441 |
| B374 | 441 | 417 |
| B375 | 15 | 449 |
| B376 | 449 | 450 |
| B377 | 450 | 451 |
| B378 | 239 | 76 |
| B379 | 451 | 452 |
| B380 | 463 | 450 |
| B381 | 464 | 451 |
| B382 | 470 | 457 |
| B383 | 469 | 456 |
| B384 | 452 | 453 |
| B385 | 453 | 454 |
| B386 | 454 | 178 |
| B387 | 13 | 455 |
| B388 | 455 | 456 |
| B389 | 456 | 457 |
| B390 | 457 | 458 |
| B391 | 458 | 459 |
| B392 | 459 | 460 |
| B393 | 460 | 178 |
| B394 | 15 | 461 |
| B395 | 461 | 462 |
| B396 | 462 | 463 |
| B397 | 463 | 464 |
| B398 | 464 | 465 |
| B399 | 465 | 466 |
| B408 | 270 | 239 |
| B409 | 302 | 270 |
| B410 | 333 | 302 |
| B411 | 365 | 333 |
| B412 | 396 | 365 |
| B413 | 428 | 396 |
| B414 | 459 | 428 |
| B415 | 240 | 77 |
| B416 | 271 | 240 |
| B417 | 303 | 271 |
| B418 | 334 | 303 |
| B419 | 366 | 334 |
| B420 | 397 | 366 |
| B421 | 429 | 397 |
| B422 | 460 | 429 |
| B456 | 466 | 448 |
| B457 | 13 | 467 |
| B458 | 467 | 468 |
| B459 | 468 | 469 |
| B461 | 469 | 470 |
| B462 | 470 | 471 |
| B463 | 471 | 472 |
| B464 | 472 | 448 |

Table 1.7 - Brace Bays

| Label | PointBayI | PointBayJ | IEndStory |
|-------|-----------|-----------|-----------|
| D1 | 82 | 69 | Same |
| D2 | 83 | 70 | Same |
| D3 | 17 | 71 | Same |
| D4 | 17 | 77 | Same |
| D5 | 89 | 76 | Same |
| D6 | 88 | 75 | Same |
| D7 | 245 | 232 | Same |
| D8 | 246 | 233 | Same |
| D9 | 228 | 234 | Same |
| D10 | 228 | 240 | Same |
| D11 | 252 | 239 | Same |
| D12 | 251 | 238 | Same |
| D13 | 276 | 263 | Same |
| D14 | 277 | 264 | Same |
| D15 | 259 | 265 | Same |
| D16 | 259 | 271 | Same |
| D17 | 283 | 270 | Same |
| D18 | 282 | 269 | Same |
| D19 | 308 | 295 | Same |
| D20 | 309 | 296 | Same |
| D21 | 291 | 297 | Same |
| D22 | 291 | 303 | Same |
| D23 | 315 | 302 | Same |
| D24 | 314 | 301 | Same |
| D25 | 339 | 326 | Same |
| D26 | 340 | 327 | Same |
| D27 | 322 | 328 | Same |
| D28 | 322 | 334 | Same |
| D29 | 346 | 333 | Same |
| D30 | 345 | 332 | Same |
| D31 | 371 | 358 | Same |
| D32 | 372 | 359 | Same |
| D33 | 354 | 360 | Same |
| D34 | 354 | 366 | Same |
| D35 | 378 | 365 | Same |
| D36 | 377 | 364 | Same |
| D37 | 402 | 389 | Same |
| D38 | 403 | 390 | Same |
| D39 | 385 | 391 | Same |
| D40 | 385 | 397 | Same |
| D41 | 409 | 396 | Same |
| D42 | 408 | 395 | Same |
| D43 | 434 | 421 | Same |
| D44 | 435 | 422 | Same |
| D45 | 417 | 423 | Same |
| D46 | 417 | 429 | Same |
| D47 | 441 | 428 | Same |
| D48 | 440 | 427 | Same |
| D49 | 465 | 452 | Same |
| D50 | 466 | 453 | Same |

Table 1.7 - Brace Bays (continued)

| Label | PointBayI | PointBayJ | IEndStory |
|-------|-----------|-----------|-----------|
| D51 | 448 | 454 | Same |
| D52 | 448 | 460 | Same |
| D53 | 472 | 459 | Same |
| D54 | 471 | 458 | Same |

1.5 Area Connectivity

Table 1.8 - Floor Bays

| Label | NumPoints | PointNumber | PointBay |
|-------|-----------|-------------|----------|
| F169 | 4 | 1 | 227 |
| F169 | | 2 | 5 |
| F169 | | 3 | 72 |
| F169 | | 4 | 235 |
| F170 | 4 | 1 | 6 |
| F170 | | 2 | 227 |
| F170 | | 3 | 235 |
| F170 | | 4 | 266 |
| F171 | 4 | 1 | 290 |
| F171 | | 2 | 6 |
| F171 | | 3 | 266 |
| F171 | | 4 | 298 |
| F172 | 4 | 1 | 7 |
| F172 | | 2 | 290 |
| F172 | | 3 | 298 |
| F172 | | 4 | 329 |
| F173 | 4 | 1 | 353 |
| F173 | | 2 | 7 |
| F173 | | 3 | 329 |
| F173 | | 4 | 361 |
| F174 | 4 | 1 | 11 |
| F174 | | 2 | 353 |
| F174 | | 3 | 361 |
| F174 | | 4 | 392 |
| F175 | 4 | 1 | 416 |
| F175 | | 2 | 11 |
| F175 | | 3 | 392 |
| F175 | | 4 | 424 |
| F176 | 4 | 1 | 13 |
| F176 | | 2 | 416 |
| F176 | | 3 | 424 |
| F176 | | 4 | 455 |
| F177 | 4 | 1 | 235 |
| F177 | | 2 | 72 |
| F177 | | 3 | 73 |
| F177 | | 4 | 236 |
| F178 | 4 | 1 | 266 |
| F178 | | 2 | 235 |
| F178 | | 3 | 236 |
| F178 | | 4 | 267 |
| F179 | 4 | 1 | 298 |

Table 1.8 - Floor Bays (continued)

| Label | NumPoints | PointNumber | PointBay |
|-------|-----------|-------------|----------|
| F179 | | 2 | 266 |
| F179 | | 3 | 267 |
| F179 | | 4 | 299 |
| F180 | 4 | 1 | 329 |
| F180 | | 2 | 298 |
| F180 | | 3 | 299 |
| F180 | | 4 | 330 |
| F181 | 4 | 1 | 361 |
| F181 | | 2 | 329 |
| F181 | | 3 | 330 |
| F181 | | 4 | 362 |
| F182 | 4 | 1 | 392 |
| F182 | | 2 | 361 |
| F182 | | 3 | 362 |
| F182 | | 4 | 393 |
| F183 | 4 | 1 | 424 |
| F183 | | 2 | 392 |
| F183 | | 3 | 393 |
| F183 | | 4 | 425 |
| F184 | 4 | 1 | 455 |
| F184 | | 2 | 424 |
| F184 | | 3 | 425 |
| F184 | | 4 | 456 |
| F185 | 4 | 1 | 236 |
| F185 | | 2 | 73 |
| F185 | | 3 | 74 |
| F185 | | 4 | 237 |
| F186 | 4 | 1 | 267 |
| F186 | | 2 | 236 |
| F186 | | 3 | 237 |
| F186 | | 4 | 268 |
| F187 | 4 | 1 | 299 |
| F187 | | 2 | 267 |
| F187 | | 3 | 268 |
| F187 | | 4 | 300 |
| F188 | 4 | 1 | 330 |
| F188 | | 2 | 299 |
| F188 | | 3 | 300 |
| F188 | | 4 | 331 |
| F189 | 4 | 1 | 362 |
| F189 | | 2 | 330 |
| F189 | | 3 | 331 |
| F189 | | 4 | 363 |
| F190 | 4 | 1 | 393 |
| F190 | | 2 | 362 |
| F190 | | 3 | 363 |
| F190 | | 4 | 394 |
| F191 | 4 | 1 | 425 |
| F191 | | 2 | 393 |
| F191 | | 3 | 394 |

Table 1.8 - Floor Bays (continued)

| Label | NumPoints | PointNumber | PointBay |
|-------|-----------|-------------|----------|
| F191 | | 4 | 426 |
| F192 | 4 | 1 | 456 |
| F192 | | 2 | 425 |
| F192 | | 3 | 426 |
| F192 | | 4 | 457 |
| F193 | 4 | 1 | 237 |
| F193 | | 2 | 74 |
| F193 | | 3 | 75 |
| F193 | | 4 | 238 |
| F194 | 4 | 1 | 268 |
| F194 | | 2 | 237 |
| F194 | | 3 | 238 |
| F194 | | 4 | 269 |
| F195 | 4 | 1 | 300 |
| F195 | | 2 | 268 |
| F195 | | 3 | 269 |
| F195 | | 4 | 301 |
| F196 | 4 | 1 | 331 |
| F196 | | 2 | 300 |
| F196 | | 3 | 301 |
| F196 | | 4 | 332 |
| F197 | 4 | 1 | 363 |
| F197 | | 2 | 331 |
| F197 | | 3 | 332 |
| F197 | | 4 | 364 |
| F198 | 4 | 1 | 394 |
| F198 | | 2 | 363 |
| F198 | | 3 | 364 |
| F198 | | 4 | 395 |
| F199 | 4 | 1 | 426 |
| F199 | | 2 | 394 |
| F199 | | 3 | 395 |
| F199 | | 4 | 427 |
| F200 | 4 | 1 | 457 |
| F200 | | 2 | 426 |
| F200 | | 3 | 427 |
| F200 | | 4 | 458 |
| F201 | 4 | 1 | 238 |
| F201 | | 2 | 75 |
| F201 | | 3 | 76 |
| F201 | | 4 | 239 |
| F202 | 4 | 1 | 269 |
| F202 | | 2 | 238 |
| F202 | | 3 | 239 |
| F202 | | 4 | 270 |
| F203 | 4 | 1 | 301 |
| F203 | | 2 | 269 |
| F203 | | 3 | 270 |
| F203 | | 4 | 302 |
| F204 | 4 | 1 | 332 |

Table 1.8 - Floor Bays (continued)

| Label | NumPoints | PointNumber | PointBay |
|--------------|------------------|--------------------|-----------------|
| F204 | | 2 | 301 |
| F204 | | 3 | 302 |
| F204 | | 4 | 333 |
| F205 | 4 | 1 | 364 |
| F205 | | 2 | 332 |
| F205 | | 3 | 333 |
| F205 | | 4 | 365 |
| F206 | 4 | 1 | 395 |
| F206 | | 2 | 364 |
| F206 | | 3 | 365 |
| F206 | | 4 | 396 |
| F207 | 4 | 1 | 427 |
| F207 | | 2 | 395 |
| F207 | | 3 | 396 |
| F207 | | 4 | 428 |
| F208 | 4 | 1 | 458 |
| F208 | | 2 | 427 |
| F208 | | 3 | 428 |
| F208 | | 4 | 459 |
| F209 | 4 | 1 | 239 |
| F209 | | 2 | 76 |
| F209 | | 3 | 77 |
| F209 | | 4 | 240 |
| F210 | 4 | 1 | 270 |
| F210 | | 2 | 239 |
| F210 | | 3 | 240 |
| F210 | | 4 | 271 |
| F211 | 4 | 1 | 302 |
| F211 | | 2 | 270 |
| F211 | | 3 | 271 |
| F211 | | 4 | 303 |
| F212 | 4 | 1 | 333 |
| F212 | | 2 | 302 |
| F212 | | 3 | 303 |
| F212 | | 4 | 334 |
| F213 | 4 | 1 | 365 |
| F213 | | 2 | 333 |
| F213 | | 3 | 334 |
| F213 | | 4 | 366 |
| F214 | 4 | 1 | 396 |
| F214 | | 2 | 365 |
| F214 | | 3 | 366 |
| F214 | | 4 | 397 |
| F215 | 4 | 1 | 428 |
| F215 | | 2 | 396 |
| F215 | | 3 | 397 |
| F215 | | 4 | 429 |
| F216 | 4 | 1 | 459 |
| F216 | | 2 | 428 |
| F216 | | 3 | 429 |

Table 1.8 - Floor Bays (continued)

| Label | NumPoints | PointNumber | PointBay |
|-------|-----------|-------------|----------|
| F216 | | 4 | 460 |
| F217 | 4 | 1 | 240 |
| F217 | | 2 | 77 |
| F217 | | 3 | 16 |
| F217 | | 4 | 171 |
| F218 | 4 | 1 | 271 |
| F218 | | 2 | 240 |
| F218 | | 3 | 171 |
| F218 | | 4 | 172 |
| F219 | 4 | 1 | 303 |
| F219 | | 2 | 271 |
| F219 | | 3 | 172 |
| F219 | | 4 | 173 |
| F220 | 4 | 1 | 334 |
| F220 | | 2 | 303 |
| F220 | | 3 | 173 |
| F220 | | 4 | 174 |
| F221 | 4 | 1 | 366 |
| F221 | | 2 | 334 |
| F221 | | 3 | 174 |
| F221 | | 4 | 175 |
| F222 | 4 | 1 | 397 |
| F222 | | 2 | 366 |
| F222 | | 3 | 175 |
| F222 | | 4 | 176 |
| F223 | 4 | 1 | 429 |
| F223 | | 2 | 397 |
| F223 | | 3 | 176 |
| F223 | | 4 | 177 |
| F224 | 4 | 1 | 460 |
| F224 | | 2 | 429 |
| F224 | | 3 | 177 |
| F224 | | 4 | 178 |
| F225 | 4 | 1 | 229 |
| F225 | | 2 | 66 |
| F225 | | 3 | 1 |
| F225 | | 4 | 167 |
| F226 | 4 | 1 | 260 |
| F226 | | 2 | 229 |
| F226 | | 3 | 167 |
| F226 | | 4 | 3 |
| F227 | 4 | 1 | 292 |
| F227 | | 2 | 260 |
| F227 | | 3 | 3 |
| F227 | | 4 | 168 |
| F228 | 4 | 1 | 323 |
| F228 | | 2 | 292 |
| F228 | | 3 | 168 |
| F228 | | 4 | 8 |
| F229 | 4 | 1 | 355 |

Table 1.8 - Floor Bays (continued)

| Label | NumPoints | PointNumber | PointBay |
|--------------|------------------|--------------------|-----------------|
| F229 | | 2 | 323 |
| F229 | | 3 | 8 |
| F229 | | 4 | 169 |
| F230 | 4 | 1 | 386 |
| F230 | | 2 | 355 |
| F230 | | 3 | 169 |
| F230 | | 4 | 12 |
| F231 | 4 | 1 | 418 |
| F231 | | 2 | 386 |
| F231 | | 3 | 12 |
| F231 | | 4 | 170 |
| F232 | 4 | 1 | 449 |
| F232 | | 2 | 418 |
| F232 | | 3 | 170 |
| F232 | | 4 | 15 |
| F233 | 4 | 1 | 230 |
| F233 | | 2 | 67 |
| F233 | | 3 | 66 |
| F233 | | 4 | 229 |
| F234 | 4 | 1 | 261 |
| F234 | | 2 | 230 |
| F234 | | 3 | 229 |
| F234 | | 4 | 260 |
| F235 | 4 | 1 | 293 |
| F235 | | 2 | 261 |
| F235 | | 3 | 260 |
| F235 | | 4 | 292 |
| F236 | 4 | 1 | 324 |
| F236 | | 2 | 293 |
| F236 | | 3 | 292 |
| F236 | | 4 | 323 |
| F237 | 4 | 1 | 356 |
| F237 | | 2 | 324 |
| F237 | | 3 | 323 |
| F237 | | 4 | 355 |
| F238 | 4 | 1 | 387 |
| F238 | | 2 | 356 |
| F238 | | 3 | 355 |
| F238 | | 4 | 386 |
| F239 | 4 | 1 | 419 |
| F239 | | 2 | 387 |
| F239 | | 3 | 386 |
| F239 | | 4 | 418 |
| F240 | 4 | 1 | 450 |
| F240 | | 2 | 419 |
| F240 | | 3 | 418 |
| F240 | | 4 | 449 |
| F241 | 4 | 1 | 231 |
| F241 | | 2 | 68 |
| F241 | | 3 | 67 |

Table 1.8 - Floor Bays (continued)

| Label | NumPoints | PointNumber | PointBay |
|-------|-----------|-------------|----------|
| F241 | | 4 | 230 |
| F242 | 4 | 1 | 262 |
| F242 | | 2 | 231 |
| F242 | | 3 | 230 |
| F242 | | 4 | 261 |
| F243 | 4 | 1 | 294 |
| F243 | | 2 | 262 |
| F243 | | 3 | 261 |
| F243 | | 4 | 293 |
| F244 | 4 | 1 | 325 |
| F244 | | 2 | 294 |
| F244 | | 3 | 293 |
| F244 | | 4 | 324 |
| F245 | 4 | 1 | 357 |
| F245 | | 2 | 325 |
| F245 | | 3 | 324 |
| F245 | | 4 | 356 |
| F246 | 4 | 1 | 388 |
| F246 | | 2 | 357 |
| F246 | | 3 | 356 |
| F246 | | 4 | 387 |
| F247 | 4 | 1 | 420 |
| F247 | | 2 | 388 |
| F247 | | 3 | 387 |
| F247 | | 4 | 419 |
| F248 | 4 | 1 | 451 |
| F248 | | 2 | 420 |
| F248 | | 3 | 419 |
| F248 | | 4 | 450 |
| F249 | 4 | 1 | 232 |
| F249 | | 2 | 69 |
| F249 | | 3 | 68 |
| F249 | | 4 | 231 |
| F250 | 4 | 1 | 263 |
| F250 | | 2 | 232 |
| F250 | | 3 | 231 |
| F250 | | 4 | 262 |
| F251 | 4 | 1 | 295 |
| F251 | | 2 | 263 |
| F251 | | 3 | 262 |
| F251 | | 4 | 294 |
| F252 | 4 | 1 | 326 |
| F252 | | 2 | 295 |
| F252 | | 3 | 294 |
| F252 | | 4 | 325 |
| F253 | 4 | 1 | 358 |
| F253 | | 2 | 326 |
| F253 | | 3 | 325 |
| F253 | | 4 | 357 |
| F254 | 4 | 1 | 389 |

Table 1.8 - Floor Bays (continued)

| Label | NumPoints | PointNumber | PointBay |
|-------|-----------|-------------|----------|
| F254 | | 2 | 358 |
| F254 | | 3 | 357 |
| F254 | | 4 | 388 |
| F255 | 4 | 1 | 421 |
| F255 | | 2 | 389 |
| F255 | | 3 | 388 |
| F255 | | 4 | 420 |
| F256 | 4 | 1 | 452 |
| F256 | | 2 | 421 |
| F256 | | 3 | 420 |
| F256 | | 4 | 451 |
| F257 | 4 | 1 | 233 |
| F257 | | 2 | 70 |
| F257 | | 3 | 69 |
| F257 | | 4 | 232 |
| F258 | 4 | 1 | 264 |
| F258 | | 2 | 233 |
| F258 | | 3 | 232 |
| F258 | | 4 | 263 |
| F259 | 4 | 1 | 296 |
| F259 | | 2 | 264 |
| F259 | | 3 | 263 |
| F259 | | 4 | 295 |
| F260 | 4 | 1 | 327 |
| F260 | | 2 | 296 |
| F260 | | 3 | 295 |
| F260 | | 4 | 326 |
| F261 | 4 | 1 | 359 |
| F261 | | 2 | 327 |
| F261 | | 3 | 326 |
| F261 | | 4 | 358 |
| F262 | 4 | 1 | 390 |
| F262 | | 2 | 359 |
| F262 | | 3 | 358 |
| F262 | | 4 | 389 |
| F263 | 4 | 1 | 422 |
| F263 | | 2 | 390 |
| F263 | | 3 | 389 |
| F263 | | 4 | 421 |
| F264 | 4 | 1 | 453 |
| F264 | | 2 | 422 |
| F264 | | 3 | 421 |
| F264 | | 4 | 452 |
| F265 | 4 | 1 | 234 |
| F265 | | 2 | 71 |
| F265 | | 3 | 70 |
| F265 | | 4 | 233 |
| F266 | 4 | 1 | 265 |
| F266 | | 2 | 234 |
| F266 | | 3 | 233 |

Table 1.8 - Floor Bays (continued)

| Label | NumPoints | PointNumber | PointBay |
|-------|-----------|-------------|----------|
| F266 | | 4 | 264 |
| F267 | 4 | 1 | 297 |
| F267 | | 2 | 265 |
| F267 | | 3 | 264 |
| F267 | | 4 | 296 |
| F268 | 4 | 1 | 328 |
| F268 | | 2 | 297 |
| F268 | | 3 | 296 |
| F268 | | 4 | 327 |
| F269 | 4 | 1 | 360 |
| F269 | | 2 | 328 |
| F269 | | 3 | 327 |
| F269 | | 4 | 359 |
| F270 | 4 | 1 | 391 |
| F270 | | 2 | 360 |
| F270 | | 3 | 359 |
| F270 | | 4 | 390 |
| F271 | 4 | 1 | 423 |
| F271 | | 2 | 391 |
| F271 | | 3 | 390 |
| F271 | | 4 | 422 |
| F272 | 4 | 1 | 454 |
| F272 | | 2 | 423 |
| F272 | | 3 | 422 |
| F272 | | 4 | 453 |
| F273 | 4 | 1 | 171 |
| F273 | | 2 | 16 |
| F273 | | 3 | 71 |
| F273 | | 4 | 234 |
| F274 | 4 | 1 | 172 |
| F274 | | 2 | 171 |
| F274 | | 3 | 234 |
| F274 | | 4 | 265 |
| F275 | 4 | 1 | 173 |
| F275 | | 2 | 172 |
| F275 | | 3 | 265 |
| F275 | | 4 | 297 |
| F276 | 4 | 1 | 174 |
| F276 | | 2 | 173 |
| F276 | | 3 | 297 |
| F276 | | 4 | 328 |
| F277 | 4 | 1 | 175 |
| F277 | | 2 | 174 |
| F277 | | 3 | 328 |
| F277 | | 4 | 360 |
| F278 | 4 | 1 | 176 |
| F278 | | 2 | 175 |
| F278 | | 3 | 360 |
| F278 | | 4 | 391 |
| F279 | 4 | 1 | 177 |

Table 1.8 - Floor Bays (continued)

| Label | NumPoints | PointNumber | PointBay |
|-------|-----------|-------------|----------|
| F279 | | 2 | 176 |
| F279 | | 3 | 391 |
| F279 | | 4 | 423 |
| F280 | 4 | 1 | 178 |
| F280 | | 2 | 177 |
| F280 | | 3 | 423 |
| F280 | | 4 | 454 |

1.6 Mass

Table 1.9 - Mass Source Definition

| Name | Is Default | Include Lateral Mass? | Include Vertical Mass? | Lump Mass? | Source Self Mass? | Source Added Mass? | Source Load Patterns? | Move Mass Centroid? |
|--------|------------|-----------------------|------------------------|------------|-------------------|--------------------|-----------------------|---------------------|
| MsSrc1 | Yes | Yes | No | Yes | Yes | Yes | No | No |

Table 1.10 - Mass Summary by Story

| Story | UX kg | UY kg | UZ kg |
|--------|----------|----------|-------|
| Story2 | 58797.51 | 58797.51 | 0 |
| Story1 | 14387.27 | 14387.27 | 0 |
| Base | 40521.75 | 40521.75 | 0 |

Table 1.11 - Mass Summary by Group

| Group | Self Mass kg | Self Weight kN | Mass X kg | Mass Y kg | Mass Z kg |
|-------|--------------|----------------|-----------|-----------|-----------|
| All | 112799.51 | 0 | 112799.51 | 112799.51 | 0 |

1.7 Groups

Table 1.12 - Group Definitions

| Name | Color | Steel Design? | Concrete Design? | Composite Design? |
|------|--------|---------------|------------------|-------------------|
| All | Yellow | No | No | No |

2 Properties

This chapter provides property information for materials, frame sections, shell sections, and links.

2.1 Materials

Table 2.1 - Material Properties - General

| Material | Type | SymType | Grade | Color | Notes |
|-----------|----------|-----------|----------------|-----------|-------|
| 4000Psi | Concrete | Isotropic | f'c 4000 psi | Magenta | |
| A416Gr270 | Tendon | Uniaxial | Grade 270 | Gray8Dark | |
| A615Gr60 | Rebar | Uniaxial | Grade 60 | Yellow | |
| A992Fy50 | Steel | Isotropic | Grade 50 | Red | |
| C20/25 | Concrete | Isotropic | C20/25 | Green | |
| C25/30 | Concrete | Isotropic | C25/30 | Cyan | |
| HYSD415 | Rebar | Uniaxial | HYSD Grade 415 | Yellow | |
| M25 | Concrete | Isotropic | M25 | Magenta | |
| Mild250 | Rebar | Uniaxial | Mild Grade 250 | Blue | |
| S275 | Steel | Isotropic | S275 | Gray8Dark | |

2.2 Frame Sections

Table 2.2 - Frame Section Property Definitions - Summary (Part 1 of 3)

| Name | Material | Shape | Color | Area cm2 | J cm4 | I33 cm4 | I22 cm4 | As2 cm2 | As3 cm2 |
|----------------|----------|----------------------|-----------|----------|----------|---------|---------|---------|---------|
| BEAM 25*30 | C25/30 | Concrete Rectangular | Magenta | 750 | 77515.4 | 56250 | 39062.5 | 625 | 625 |
| COL25*25 | M25 | Concrete Rectangular | Gray8Dark | 625 | 55013 | 32552.1 | 32552.1 | 520.8 | 520.8 |
| G.BEAM30*40 | M25 | Concrete Rectangular | Green | 1200 | 194385.1 | 160000 | 90000 | 1000 | 1000 |
| RHS 40*40,3MM | S275 | Steel Tube | Gray8Dark | 4.4 | 15.2 | 10.2 | 10.2 | 2.3 | 2.3 |
| RHS 70*70, 3MM | S275 | Steel Tube | Magenta | 8 | 90.2 | 60.3 | 60.3 | 4.1 | 4.1 |
| RHS100*50,4MM | S275 | Steel Tube | Red | 11.4 | 109.9 | 144.1 | 47.4 | 7.6 | 3.9 |
| RHS40*40,4 | S275 | Steel Tube | Blue | 5.8 | 18.7 | 12.6 | 12.6 | 3.1 | 3.1 |
| RHS60*40,3 | S275 | Steel Tube | Cyan | 5.6 | 28.4 | 27.4 | 14.3 | 3.5 | 2.4 |
| RHS70*50,3 | A992Fy50 | Steel Tube | Blue | 6.8 | 52.2 | 46.8 | 27.5 | 4.1 | 2.9 |
| RHS80*40,4MM | S275 | Steel Tube | Yellow | 9 | 53.5 | 71.1 | 23 | 6 | 3.1 |

Table 2.2 - Frame Section Property Definitions - Summary (Part 2 of 3)

| Name | S33Pos cm3 | S33Neg cm3 | S22Pos cm3 | S22Neg cm3 | Z33 cm3 | Z22 cm3 | R33 mm | R22 mm | CG Offset 3 mm | CG Offset 2 mm | PNA Offset 3 mm |
|----------------|------------|------------|------------|------------|---------|---------|--------|--------|----------------|----------------|-----------------|
| BEAM 25*30 | 3750 | 3750 | 3125 | 3125 | 5625 | 4687.5 | 86.6 | 72.2 | 0 | 0 | 0 |
| COL25*25 | 2604.2 | 2604.2 | 2604.2 | 2604.2 | 3906.3 | 3906.3 | 72.2 | 72.2 | 0 | 0 | 0 |
| G.BEAM30*40 | 8000 | 8000 | 6000 | 6000 | 12000 | 9000 | 115.5 | 86.6 | 0 | 0 | 0 |
| RHS 40*40,3MM | 5.1 | 5.1 | 5.1 | 5.1 | 6.2 | 6.2 | 15.2 | 15.2 | 0 | 0 | 0 |
| RHS 70*70, 3MM | 17.2 | 17.2 | 17.2 | 17.2 | 20.2 | 20.2 | 27.4 | 27.4 | 0 | 0 | 0 |
| RHS100*50,4MM | 28.8 | 28.8 | 18.9 | 18.9 | 36.1 | 21.9 | 35.6 | 20.4 | 0 | 0 | 0 |
| RHS40*40,4 | 6.3 | 6.3 | 6.3 | 6.3 | 7.8 | 7.8 | 14.8 | 14.8 | 0 | 0 | 0 |
| RHS60*40,3 | 9.1 | 9.1 | 7.2 | 7.2 | 11.2 | 8.4 | 22 | 15.9 | 0 | 0 | 0 |
| RHS70*50,3 | 13.4 | 13.4 | 11 | 11 | 16.2 | 12.8 | 26.2 | 20 | 0 | 0 | 0 |
| RHS80*40,4MM | 17.8 | 17.8 | 11.5 | 11.5 | 22.5 | 13.6 | 28.2 | 16 | 0 | 0 | 0 |

Table 2.2 - Frame Section Property Definitions - Summary (Part 3 of 3)

| Name | Area Modifier | As2 Modifier | As3 Modifier | J Modifier | I33 Modifier | I22 Modifier | Mass Modifier | Weight Modifier |
|----------------|---------------|--------------|--------------|------------|--------------|--------------|---------------|-----------------|
| BEAM 25*30 | 1 | 1 | 1 | 0.3 | 1 | 1 | 1 | 1 |
| COL25*25 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| G.BEAM30*40 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| RHS 40*40,3MM | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| RHS 70*70, 3MM | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| RHS100*50,4MM | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| RHS40*40,4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| RHS60*40,3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| RHS70*50,3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| RHS80*40,4MM | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

2.3 Shell Sections

Table 2.3 - Area Section Property Definitions - Summary

| Name | Type | Element Type | Material | Total Thickness mm | Deck Material | Deck Depth mm |
|-----------|------|--------------|----------|--------------------|---------------|---------------|
| CIS | Slab | Membrane | 4000Psi | 50 | | |
| Deck1 | Deck | Membrane | 4000Psi | 162.5 | A992Fy50 | 75 |
| Slabfloor | Slab | Shell-Thin | C20/25 | 100 | | |
| Wall1 | Wall | Shell-Thin | 4000Psi | 250 | | |

2.4 Reinforcement Sizes

Table 2.4 - Reinforcing Bar Sizes

| Name | Diameter mm | Area cm2 |
|------|-------------|----------|
| 6 | 6 | 0.3 |
| 8 | 8 | 0.5 |
| 10 | 10 | 0.8 |
| 12 | 12 | 1.1 |
| 14 | 14 | 1.5 |
| 16 | 16 | 2 |
| 18 | 18 | 2.5 |
| 20 | 20 | 3.1 |
| 22 | 22 | 3.8 |
| 25 | 25 | 4.9 |
| 26 | 26 | 5.3 |
| 28 | 28 | 6.2 |
| 32 | 32 | 8 |
| 36 | 36 | 10.2 |
| 40 | 40 | 12.6 |
| 50 | 50 | 19.6 |

2.5 Links

Table 2.5 - Link Property Definitions - Summary

| Name | Type | Degrees of Freedom | Mass kg | Weight kN | Defined Length m | Defined Area m2 |
|-------|--------|--------------------|---------|-----------|------------------|-----------------|
| Link1 | Linear | U1 | 0 | 0 | 1 | 1 |

2.6 Spring Properties

Table 2.6 - Spring Property Definitions - Isolated Column Footings

| Name | Length mm | Width mm | Thickness mm | Embedment Source | Color | Notes |
|----------|--------------|-------------|-----------------|---------------------|---------|-------|
| ColFoot1 | 1200 | 1200 | 400 | Program Determined | Magenta | |

2.7 Tendon Sections

Table 2.7 - Tendon Section Properties

| Name | Material | StrandArea cm2 | Color | Notes |
|---------|-----------|-------------------|-------|-------|
| Tendon1 | A416Gr270 | 1 | Blue | |

3 Assignments

This chapter provides a listing of the assignments applied to the model.

3.1 Joint Assignments

Table 3.1 - Joint Assignments - Summary

| Story | Label | UniqueName | Diaphragm | Restrains |
|--------|-------|------------|-----------|-----------|
| Story2 | 1 | 29 | From Area | UZ |
| Story2 | 2 | 30 | From Area | |
| Story2 | 3 | 31 | From Area | UZ |
| Story2 | 5 | 32 | From Area | UZ |
| Story2 | 6 | 33 | From Area | UZ |
| Story2 | 7 | 40 | From Area | UZ |
| Story2 | 8 | 34 | From Area | UZ |
| Story2 | 11 | 39 | From Area | UZ |
| Story2 | 12 | 35 | From Area | UZ |
| Story2 | 13 | 38 | From Area | UZ |
| Story2 | 14 | 37 | From Area | |
| Story2 | 15 | 36 | From Area | UZ |
| Story2 | 16 | 41 | From Area | |
| Story2 | 17 | 42 | From Area | |
| Story2 | 66 | 91 | From Area | |
| Story2 | 67 | 92 | From Area | |
| Story2 | 68 | 93 | From Area | |
| Story2 | 69 | 94 | From Area | |
| Story2 | 70 | 95 | From Area | |
| Story2 | 71 | 96 | From Area | |
| Story2 | 72 | 97 | From Area | |
| Story2 | 73 | 98 | From Area | |
| Story2 | 74 | 99 | From Area | |
| Story2 | 75 | 100 | From Area | |
| Story2 | 76 | 101 | From Area | |
| Story2 | 77 | 102 | From Area | |
| Story2 | 78 | 103 | From Area | |
| Story2 | 79 | 104 | From Area | |
| Story2 | 80 | 105 | From Area | |
| Story2 | 81 | 106 | From Area | |
| Story2 | 82 | 107 | From Area | |
| Story2 | 83 | 108 | From Area | |
| Story2 | 84 | 109 | From Area | |
| Story2 | 85 | 110 | From Area | |
| Story2 | 86 | 111 | From Area | |
| Story2 | 87 | 112 | From Area | |
| Story2 | 88 | 113 | From Area | |
| Story2 | 89 | 114 | From Area | |
| Story2 | 167 | 192 | From Area | |
| Story2 | 168 | 193 | From Area | |
| Story2 | 169 | 194 | From Area | |
| Story2 | 170 | 195 | From Area | |
| Story2 | 171 | 20 | From Area | |
| Story2 | 172 | 68 | From Area | |
| Story2 | 173 | 118 | From Area | |

Table 3.1 - Joint Assignments - Summary (continued)

| Story | Label | UniqueName | Diaphragm | Restraints |
|--------|-------|------------|-----------|------------|
| Story2 | 174 | 144 | From Area | |
| Story2 | 175 | 170 | From Area | |
| Story2 | 176 | 200 | From Area | |
| Story2 | 177 | 226 | From Area | |
| Story2 | 178 | 253 | From Area | |
| Story2 | 227 | 252 | From Area | |
| Story2 | 228 | 43 | From Area | |
| Story2 | 229 | 44 | From Area | |
| Story2 | 230 | 45 | From Area | |
| Story2 | 231 | 46 | From Area | |
| Story2 | 232 | 47 | From Area | |
| Story2 | 233 | 48 | From Area | |
| Story2 | 234 | 49 | From Area | |
| Story2 | 235 | 50 | From Area | |
| Story2 | 236 | 51 | From Area | |
| Story2 | 237 | 52 | From Area | |
| Story2 | 238 | 53 | From Area | |
| Story2 | 239 | 54 | From Area | |
| Story2 | 240 | 55 | From Area | |
| Story2 | 241 | 56 | From Area | |
| Story2 | 242 | 57 | From Area | |
| Story2 | 243 | 58 | From Area | |
| Story2 | 244 | 59 | From Area | |
| Story2 | 245 | 60 | From Area | |
| Story2 | 246 | 61 | From Area | |
| Story2 | 247 | 62 | From Area | |
| Story2 | 248 | 63 | From Area | |
| Story2 | 249 | 64 | From Area | |
| Story2 | 250 | 65 | From Area | |
| Story2 | 251 | 66 | From Area | |
| Story2 | 252 | 67 | From Area | |
| Story2 | 259 | 69 | From Area | |
| Story2 | 260 | 70 | From Area | |
| Story2 | 261 | 71 | From Area | |
| Story2 | 262 | 72 | From Area | |
| Story2 | 263 | 73 | From Area | |
| Story2 | 264 | 74 | From Area | |
| Story2 | 265 | 75 | From Area | |
| Story2 | 266 | 76 | From Area | |
| Story2 | 267 | 77 | From Area | |
| Story2 | 268 | 78 | From Area | |
| Story2 | 269 | 79 | From Area | |
| Story2 | 270 | 80 | From Area | |
| Story2 | 271 | 81 | From Area | |
| Story2 | 272 | 82 | From Area | |
| Story2 | 273 | 83 | From Area | |
| Story2 | 274 | 84 | From Area | |
| Story2 | 275 | 85 | From Area | |
| Story2 | 276 | 86 | From Area | |
| Story2 | 277 | 87 | From Area | |

Table 3.1 - Joint Assignments - Summary (continued)

| Story | Label | UniqueName | Diaphragm | Restraints |
|--------|-------|------------|-----------|------------|
| Story2 | 278 | 88 | From Area | |
| Story2 | 279 | 89 | From Area | |
| Story2 | 280 | 90 | From Area | |
| Story2 | 281 | 115 | From Area | |
| Story2 | 282 | 116 | From Area | |
| Story2 | 283 | 117 | From Area | |
| Story2 | 290 | 315 | From Area | |
| Story2 | 291 | 119 | From Area | |
| Story2 | 292 | 120 | From Area | |
| Story2 | 293 | 121 | From Area | |
| Story2 | 294 | 122 | From Area | |
| Story2 | 295 | 123 | From Area | |
| Story2 | 296 | 124 | From Area | |
| Story2 | 297 | 125 | From Area | |
| Story2 | 298 | 126 | From Area | |
| Story2 | 299 | 127 | From Area | |
| Story2 | 300 | 128 | From Area | |
| Story2 | 301 | 129 | From Area | |
| Story2 | 302 | 130 | From Area | |
| Story2 | 303 | 131 | From Area | |
| Story2 | 304 | 132 | From Area | |
| Story2 | 305 | 133 | From Area | |
| Story2 | 306 | 134 | From Area | |
| Story2 | 307 | 135 | From Area | |
| Story2 | 308 | 136 | From Area | |
| Story2 | 309 | 137 | From Area | |
| Story2 | 310 | 138 | From Area | |
| Story2 | 311 | 139 | From Area | |
| Story2 | 312 | 140 | From Area | |
| Story2 | 313 | 141 | From Area | |
| Story2 | 314 | 142 | From Area | |
| Story2 | 315 | 143 | From Area | |
| Story2 | 322 | 145 | From Area | |
| Story2 | 323 | 146 | From Area | |
| Story2 | 324 | 147 | From Area | |
| Story2 | 325 | 148 | From Area | |
| Story2 | 326 | 149 | From Area | |
| Story2 | 327 | 150 | From Area | |
| Story2 | 328 | 151 | From Area | |
| Story2 | 329 | 152 | From Area | |
| Story2 | 330 | 153 | From Area | |
| Story2 | 331 | 154 | From Area | |
| Story2 | 332 | 155 | From Area | |
| Story2 | 333 | 156 | From Area | |
| Story2 | 334 | 157 | From Area | |
| Story2 | 335 | 158 | From Area | |
| Story2 | 336 | 159 | From Area | |
| Story2 | 337 | 160 | From Area | |
| Story2 | 338 | 161 | From Area | |
| Story2 | 339 | 162 | From Area | |

Table 3.1 - Joint Assignments - Summary (continued)

| Story | Label | UniqueName | Diaphragm | Restraints |
|--------|-------|------------|-----------|------------|
| Story2 | 340 | 163 | From Area | |
| Story2 | 341 | 164 | From Area | |
| Story2 | 342 | 165 | From Area | |
| Story2 | 343 | 166 | From Area | |
| Story2 | 344 | 167 | From Area | |
| Story2 | 345 | 168 | From Area | |
| Story2 | 346 | 169 | From Area | |
| Story2 | 353 | 378 | From Area | |
| Story2 | 354 | 171 | From Area | |
| Story2 | 355 | 172 | From Area | |
| Story2 | 356 | 173 | From Area | |
| Story2 | 357 | 174 | From Area | |
| Story2 | 358 | 175 | From Area | |
| Story2 | 359 | 176 | From Area | |
| Story2 | 360 | 177 | From Area | |
| Story2 | 361 | 178 | From Area | |
| Story2 | 362 | 179 | From Area | |
| Story2 | 363 | 180 | From Area | |
| Story2 | 364 | 181 | From Area | |
| Story2 | 365 | 182 | From Area | |
| Story2 | 366 | 183 | From Area | |
| Story2 | 367 | 184 | From Area | |
| Story2 | 368 | 185 | From Area | |
| Story2 | 369 | 186 | From Area | |
| Story2 | 370 | 187 | From Area | |
| Story2 | 371 | 188 | From Area | |
| Story2 | 372 | 189 | From Area | |
| Story2 | 373 | 190 | From Area | |
| Story2 | 374 | 191 | From Area | |
| Story2 | 375 | 196 | From Area | |
| Story2 | 376 | 197 | From Area | |
| Story2 | 377 | 198 | From Area | |
| Story2 | 378 | 199 | From Area | |
| Story2 | 385 | 201 | From Area | |
| Story2 | 386 | 202 | From Area | |
| Story2 | 387 | 203 | From Area | |
| Story2 | 388 | 204 | From Area | |
| Story2 | 389 | 205 | From Area | |
| Story2 | 390 | 206 | From Area | |
| Story2 | 391 | 207 | From Area | |
| Story2 | 392 | 208 | From Area | |
| Story2 | 393 | 209 | From Area | |
| Story2 | 394 | 210 | From Area | |
| Story2 | 395 | 211 | From Area | |
| Story2 | 396 | 212 | From Area | |
| Story2 | 397 | 213 | From Area | |
| Story2 | 398 | 214 | From Area | |
| Story2 | 399 | 215 | From Area | |
| Story2 | 400 | 216 | From Area | |
| Story2 | 401 | 217 | From Area | |

Table 3.1 - Joint Assignments - Summary (continued)

| Story | Label | UniqueName | Diaphragm | Restraints |
|--------|-------|------------|-----------|------------|
| Story2 | 402 | 218 | From Area | |
| Story2 | 403 | 219 | From Area | |
| Story2 | 404 | 220 | From Area | |
| Story2 | 405 | 221 | From Area | |
| Story2 | 406 | 222 | From Area | |
| Story2 | 407 | 223 | From Area | |
| Story2 | 408 | 224 | From Area | |
| Story2 | 409 | 225 | From Area | |
| Story2 | 416 | 441 | From Area | |
| Story2 | 417 | 227 | From Area | |
| Story2 | 418 | 228 | From Area | |
| Story2 | 419 | 229 | From Area | |
| Story2 | 420 | 230 | From Area | |
| Story2 | 421 | 231 | From Area | |
| Story2 | 422 | 232 | From Area | |
| Story2 | 423 | 233 | From Area | |
| Story2 | 424 | 234 | From Area | |
| Story2 | 425 | 235 | From Area | |
| Story2 | 426 | 236 | From Area | |
| Story2 | 427 | 237 | From Area | |
| Story2 | 428 | 238 | From Area | |
| Story2 | 429 | 239 | From Area | |
| Story2 | 430 | 240 | From Area | |
| Story2 | 431 | 241 | From Area | |
| Story2 | 432 | 242 | From Area | |
| Story2 | 433 | 243 | From Area | |
| Story2 | 434 | 244 | From Area | |
| Story2 | 435 | 245 | From Area | |
| Story2 | 436 | 246 | From Area | |
| Story2 | 437 | 247 | From Area | |
| Story2 | 438 | 248 | From Area | |
| Story2 | 439 | 249 | From Area | |
| Story2 | 440 | 250 | From Area | |
| Story2 | 441 | 251 | From Area | |
| Story2 | 448 | 254 | From Area | |
| Story2 | 449 | 255 | From Area | |
| Story2 | 450 | 256 | From Area | |
| Story2 | 451 | 257 | From Area | |
| Story2 | 452 | 258 | From Area | |
| Story2 | 453 | 259 | From Area | |
| Story2 | 454 | 260 | From Area | |
| Story2 | 455 | 261 | From Area | |
| Story2 | 456 | 262 | From Area | |
| Story2 | 457 | 263 | From Area | |
| Story2 | 458 | 264 | From Area | |
| Story2 | 459 | 265 | From Area | |
| Story2 | 460 | 266 | From Area | |
| Story2 | 461 | 267 | From Area | |
| Story2 | 462 | 268 | From Area | |
| Story2 | 463 | 269 | From Area | |

Table 3.1 - Joint Assignments - Summary (continued)

| Story | Label | UniqueName | Diaphragm | Restraints |
|--------|-------|------------|-----------|------------------------|
| Story2 | 464 | 270 | From Area | |
| Story2 | 465 | 271 | From Area | |
| Story2 | 466 | 272 | From Area | |
| Story2 | 467 | 273 | From Area | |
| Story2 | 468 | 274 | From Area | |
| Story2 | 469 | 275 | From Area | |
| Story2 | 470 | 276 | From Area | |
| Story2 | 471 | 277 | From Area | |
| Story2 | 472 | 278 | From Area | |
| Story1 | 1 | 16 | From Area | |
| Story1 | 2 | 17 | From Area | |
| Story1 | 3 | 18 | From Area | |
| Story1 | 4 | 286 | From Area | |
| Story1 | 5 | 19 | From Area | |
| Story1 | 6 | 21 | From Area | |
| Story1 | 7 | 28 | From Area | |
| Story1 | 8 | 22 | From Area | |
| Story1 | 9 | 284 | From Area | |
| Story1 | 10 | 282 | From Area | |
| Story1 | 11 | 27 | From Area | |
| Story1 | 12 | 23 | From Area | |
| Story1 | 13 | 26 | From Area | |
| Story1 | 14 | 25 | From Area | |
| Story1 | 15 | 24 | From Area | |
| Base | 1 | 1 | From Area | UX; UY; UZ; RX; RY; RZ |
| Base | 2 | 2 | From Area | UX; UY; UZ; RX; RY; RZ |
| Base | 3 | 3 | From Area | UX; UY; UZ; RX; RY; RZ |
| Base | 4 | 4 | From Area | UX; UY; UZ; RX; RY; RZ |
| Base | 5 | 5 | From Area | UX; UY; UZ; RX; RY; RZ |
| Base | 6 | 6 | From Area | UX; UY; UZ; RX; RY; RZ |
| Base | 7 | 7 | From Area | UX; UY; UZ; RX; RY; RZ |
| Base | 8 | 8 | From Area | UX; UY; UZ; RX; RY; RZ |
| Base | 9 | 9 | From Area | UX; UY; UZ; RX; RY; RZ |
| Base | 10 | 10 | From Area | UX; UY; UZ; RX; RY; RZ |
| Base | 11 | 11 | From Area | UX; UY; UZ; RX; RY; RZ |
| Base | 12 | 12 | From Area | UX; UY; UZ; RX; RY; RZ |
| Base | 13 | 13 | From Area | UX; UY; UZ; RX; RY; RZ |
| Base | 14 | 14 | From Area | UX; UY; UZ; RX; RY; RZ |
| Base | 15 | 15 | From Area | UX; UY; UZ; RX; RY; RZ |

3.2 Frame Assignments

Table 3.2 - Frame Assignments - Summary

| Story | Label | UniqueName | Design Type | Length m | Analysis Section | Design Section | Max Station Spacing m | Min Number Stations |
|--------|-------|------------|-------------|----------|------------------|----------------|-----------------------|---------------------|
| Story2 | B1 | 38 | Beam | 6 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story2 | B3 | 46 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story2 | B5 | 43 | Beam | 6 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story2 | B7 | 40 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |

Table 3.2 - Frame Assignments - Summary (continued)

| Story | Label | UniqueName | Design Type | Length m | Analysis Section | Design Section | Max Station Spacing m | Min Number Stations |
|--------|-------|------------|-------------|----------|------------------|----------------|-----------------------|---------------------|
| Story2 | B8 | 39 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story2 | B9 | 45 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story2 | B15 | 42 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story2 | B17 | 37 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story2 | B18 | 26 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story2 | B20 | 41 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story2 | B21 | 55 | Beam | 6 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story2 | B22 | 73 | Beam | 6 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story2 | B56 | 184 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B57 | 185 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B58 | 192 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B60 | 194 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B226 | 115 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B227 | 116 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B228 | 123 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B229 | 124 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B248 | 176 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B249 | 177 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B250 | 196 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B251 | 197 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B270 | 239 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B271 | 240 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B272 | 247 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B273 | 248 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B292 | 298 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B293 | 299 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B294 | 306 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B295 | 307 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B314 | 349 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B315 | 350 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B316 | 357 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B317 | 358 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B336 | 400 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B337 | 401 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B338 | 408 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B339 | 409 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B358 | 451 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B359 | 452 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B360 | 459 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B361 | 460 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B380 | 502 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B381 | 503 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B382 | 510 | Beam | 0.892 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B383 | 511 | Beam | 0.8551 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | B23 | 48 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B24 | 49 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B25 | 50 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |

Table 3.2 - Frame Assignments - Summary (continued)

| Story | Label | UniqueName | Design Type | Length m | Analysis Section | Design Section | Max Station Spacing m | Min Number Stations |
|--------|-------|------------|-------------|----------|------------------|----------------|-----------------------|---------------------|
| Story2 | B26 | 51 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B27 | 76 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B29 | 77 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B30 | 79 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B31 | 81 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B32 | 82 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B33 | 83 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B35 | 84 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B36 | 85 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B37 | 86 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B38 | 87 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B39 | 88 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B41 | 89 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B42 | 90 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B43 | 91 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B44 | 92 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B45 | 93 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B47 | 94 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B48 | 95 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B49 | 96 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B50 | 97 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B51 | 98 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B53 | 99 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B54 | 100 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B55 | 101 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B59 | 125 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B61 | 126 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B63 | 127 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B64 | 128 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B65 | 129 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B66 | 130 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B67 | 131 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B69 | 132 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B70 | 133 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B71 | 134 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B72 | 135 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B73 | 136 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B75 | 137 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B76 | 138 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B77 | 139 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B78 | 140 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B79 | 141 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B80 | 142 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B81 | 143 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B82 | 144 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B83 | 145 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B84 | 146 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |

Table 3.2 - Frame Assignments - Summary (continued)

| Story | Label | UniqueName | Design Type | Length m | Analysis Section | Design Section | Max Station Spacing m | Min Number Stations |
|--------|-------|------------|-------------|----------|------------------|----------------|-----------------------|---------------------|
| Story2 | B85 | 147 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B86 | 149 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B87 | 150 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B88 | 152 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B89 | 153 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B90 | 155 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B91 | 198 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B92 | 199 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B93 | 200 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B94 | 201 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B95 | 202 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B96 | 203 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B97 | 204 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B98 | 205 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B99 | 206 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B100 | 207 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B101 | 208 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B102 | 209 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B103 | 210 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B104 | 211 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B105 | 212 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B106 | 213 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B107 | 214 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B108 | 215 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B109 | 216 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B110 | 217 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B111 | 218 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B112 | 219 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B113 | 220 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B114 | 221 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B115 | 222 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B116 | 223 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B117 | 224 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B119 | 225 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B120 | 249 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B121 | 250 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B122 | 251 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B123 | 252 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B125 | 253 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B126 | 254 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B127 | 255 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B128 | 256 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B129 | 257 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B131 | 258 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B132 | 259 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B133 | 260 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B134 | 261 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |

Table 3.2 - Frame Assignments - Summary (continued)

| Story | Label | UniqueName | Design Type | Length m | Analysis Section | Design Section | Max Station Spacing m | Min Number Stations |
|--------|-------|------------|-------------|----------|------------------|----------------|-----------------------|---------------------|
| Story2 | B135 | 262 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B137 | 263 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B138 | 264 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B139 | 265 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B140 | 266 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B141 | 267 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B143 | 268 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B144 | 269 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B145 | 270 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B146 | 271 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B147 | 272 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B149 | 273 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B150 | 274 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B151 | 283 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B152 | 284 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B153 | 308 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B155 | 309 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B156 | 310 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B157 | 311 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B158 | 312 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B159 | 313 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B232 | 314 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B233 | 315 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B234 | 316 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B235 | 317 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B236 | 318 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B237 | 319 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B238 | 320 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B239 | 321 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B240 | 322 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B241 | 323 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B242 | 324 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B243 | 325 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B244 | 326 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B245 | 327 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B247 | 328 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B252 | 329 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B253 | 330 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B254 | 331 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B255 | 332 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B256 | 333 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B257 | 334 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B258 | 335 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B259 | 359 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B260 | 360 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B261 | 361 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B262 | 362 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |

Table 3.2 - Frame Assignments - Summary (continued)

| Story | Label | UniqueName | Design Type | Length m | Analysis Section | Design Section | Max Station Spacing m | Min Number Stations |
|--------|-------|------------|-------------|----------|------------------|----------------|-----------------------|---------------------|
| Story2 | B263 | 363 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B264 | 364 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B265 | 365 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B266 | 366 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B267 | 367 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B276 | 368 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B277 | 369 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B278 | 370 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B279 | 371 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B280 | 372 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B281 | 373 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B282 | 374 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B283 | 375 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B284 | 376 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B285 | 377 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B286 | 378 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B287 | 379 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B288 | 380 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B289 | 381 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B290 | 382 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B291 | 383 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B296 | 384 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B297 | 385 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B298 | 386 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B299 | 410 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B300 | 411 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B301 | 412 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B302 | 413 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B303 | 414 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B304 | 415 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B305 | 416 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B306 | 417 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B307 | 418 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B308 | 419 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B309 | 420 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B310 | 421 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B311 | 422 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B320 | 423 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B321 | 424 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B322 | 425 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B323 | 426 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B324 | 427 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B325 | 428 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B326 | 429 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B327 | 430 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B328 | 431 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B329 | 432 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |

Table 3.2 - Frame Assignments - Summary (continued)

| Story | Label | UniqueName | Design Type | Length m | Analysis Section | Design Section | Max Station Spacing m | Min Number Stations |
|--------|-------|------------|-------------|----------|------------------|----------------|-----------------------|---------------------|
| Story2 | B330 | 433 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B331 | 434 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B332 | 435 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B333 | 436 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B334 | 437 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B335 | 461 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B340 | 462 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B341 | 463 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B342 | 464 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B343 | 465 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B344 | 466 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B345 | 467 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B346 | 468 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B347 | 469 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B348 | 470 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B349 | 471 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B350 | 472 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B351 | 473 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B352 | 474 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B353 | 475 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B354 | 476 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B355 | 477 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B364 | 478 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B365 | 479 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B366 | 480 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B367 | 481 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B368 | 482 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B369 | 483 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B370 | 484 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B371 | 485 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B372 | 486 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B373 | 487 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B374 | 488 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B375 | 512 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B376 | 513 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B377 | 514 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B379 | 515 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B384 | 516 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B385 | 517 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B386 | 518 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B387 | 519 | Beam | 1.0119 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B388 | 520 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B389 | 521 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B390 | 522 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B391 | 523 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B392 | 524 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B393 | 525 | Beam | 0.8854 | RHS60*40,3 | RHS60*40,3 | | 3 |

Table 3.2 - Frame Assignments - Summary (continued)

| Story | Label | UniqueName | Design Type | Length m | Analysis Section | Design Section | Max Station Spacing m | Min Number Stations |
|--------|-------|------------|-------------|----------|------------------|----------------|-----------------------|---------------------|
| Story2 | B394 | 526 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B395 | 527 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B396 | 528 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B397 | 529 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B398 | 530 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B399 | 531 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B456 | 532 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B457 | 533 | Beam | 0.9732 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B458 | 534 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B459 | 535 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B461 | 536 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B462 | 537 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B463 | 538 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B464 | 539 | Beam | 0.8516 | RHS60*40,3 | RHS60*40,3 | | 3 |
| Story2 | B28 | 540 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B34 | 541 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B40 | 542 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B46 | 543 | Beam | 2.5 | RHS40*40,4 | RHS40*40,4 | 0.5 | |
| Story2 | B52 | 544 | Beam | 2.5 | RHS40*40,4 | RHS40*40,4 | 0.5 | |
| Story2 | B62 | 545 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B68 | 546 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B74 | 547 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B118 | 548 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B124 | 549 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B130 | 550 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B136 | 551 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B142 | 552 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B148 | 553 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B154 | 554 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B168 | 555 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B169 | 556 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B170 | 557 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B171 | 558 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B172 | 559 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B173 | 560 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B174 | 561 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B175 | 562 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B176 | 563 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B177 | 564 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B178 | 565 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B179 | 566 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B180 | 567 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B181 | 568 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B182 | 569 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B183 | 570 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B184 | 571 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B185 | 572 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |

Table 3.2 - Frame Assignments - Summary (continued)

| Story | Label | UniqueName | Design Type | Length m | Analysis Section | Design Section | Max Station Spacing m | Min Number Stations |
|--------|-------|------------|-------------|----------|------------------|----------------|-----------------------|---------------------|
| Story2 | B186 | 573 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B187 | 574 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B188 | 575 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B189 | 576 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B190 | 577 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B191 | 578 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B192 | 579 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B193 | 580 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B194 | 581 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B195 | 582 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B196 | 583 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B197 | 584 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B198 | 585 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B199 | 586 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B200 | 587 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B201 | 588 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B202 | 589 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B203 | 590 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B204 | 591 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B205 | 592 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B206 | 593 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B207 | 594 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B208 | 595 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B209 | 596 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B210 | 597 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B211 | 598 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B212 | 599 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B213 | 600 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B214 | 601 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B215 | 602 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B216 | 603 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B217 | 604 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B218 | 605 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B219 | 606 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B220 | 607 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B221 | 608 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B222 | 609 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B223 | 610 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B224 | 611 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B225 | 612 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B230 | 613 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B231 | 614 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B246 | 615 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B268 | 616 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B269 | 617 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B274 | 618 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B275 | 619 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |

Table 3.2 - Frame Assignments - Summary (continued)

| Story | Label | UniqueName | Design Type | Length m | Analysis Section | Design Section | Max Station Spacing m | Min Number Stations |
|--------|-------|------------|-------------|----------|------------------|----------------|-----------------------|---------------------|
| Story2 | B312 | 620 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B313 | 621 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B318 | 622 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B319 | 623 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B356 | 624 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B357 | 625 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B362 | 626 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B363 | 627 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B378 | 628 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B408 | 629 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B409 | 630 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B410 | 631 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B411 | 632 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B412 | 633 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B413 | 634 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B414 | 635 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B415 | 636 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B416 | 637 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B417 | 638 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B418 | 639 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B419 | 640 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B420 | 641 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B421 | 642 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | B422 | 643 | Beam | 2.5 | RHS 40*40,3MM | RHS 40*40,3MM | 0.5 | |
| Story2 | C1 | 53 | Column | 2.8 | COL25*25 | COL25*25 | | 3 |
| Story2 | C2 | 44 | Column | 2.8 | COL25*25 | COL25*25 | | 3 |
| Story2 | C3 | 57 | Column | 2.8 | COL25*25 | COL25*25 | | 3 |
| Story2 | C4 | 59 | Column | 2.8 | COL25*25 | COL25*25 | | 3 |
| Story2 | C5 | 61 | Column | 2.8 | COL25*25 | COL25*25 | | 3 |
| Story2 | C6 | 63 | Column | 2.8 | COL25*25 | COL25*25 | | 3 |
| Story2 | C7 | 65 | Column | 2.8 | COL25*25 | COL25*25 | | 3 |
| Story2 | C8 | 67 | Column | 2.8 | COL25*25 | COL25*25 | | 3 |
| Story2 | C9 | 69 | Column | 2.8 | COL25*25 | COL25*25 | | 3 |
| Story2 | C10 | 71 | Column | 2.8 | COL25*25 | COL25*25 | | 3 |
| Story2 | C11 | 78 | Column | 2.8 | BEAM 25*30 | BEAM 25*30 | | 3 |
| Story2 | C12 | 75 | Column | 2.8 | COL25*25 | COL25*25 | | 3 |
| Story2 | C15 | 80 | Column | 1 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C77 | 148 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C80 | 151 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C83 | 154 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C86 | 157 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C89 | 160 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C92 | 163 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C95 | 166 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C98 | 169 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C101 | 172 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C104 | 175 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |

Table 3.2 - Frame Assignments - Summary (continued)

| Story | Label | UniqueName | Design Type | Length m | Analysis Section | Design Section | Max Station Spacing m | Min Number Stations |
|--------|-------|------------|-------------|----------|------------------|----------------|-----------------------|---------------------|
| Story2 | C107 | 178 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C110 | 181 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C112 | 102 | Column | 1 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C113 | 103 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C114 | 104 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C115 | 105 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C116 | 106 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C117 | 107 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C118 | 108 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C119 | 109 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C120 | 110 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C121 | 111 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C122 | 112 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C123 | 113 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C124 | 114 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C125 | 156 | Column | 1 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C126 | 158 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C127 | 159 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C128 | 161 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C129 | 162 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C130 | 164 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C131 | 165 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C132 | 167 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C133 | 168 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C134 | 170 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C135 | 171 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C136 | 173 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C137 | 174 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C138 | 226 | Column | 1 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C139 | 227 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C140 | 228 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C141 | 229 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C142 | 230 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C143 | 231 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C144 | 232 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C145 | 233 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C146 | 234 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C147 | 235 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C148 | 236 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C149 | 237 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C150 | 238 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C151 | 285 | Column | 1 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C152 | 286 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C153 | 287 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C154 | 288 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C155 | 289 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C156 | 290 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |

Table 3.2 - Frame Assignments - Summary (continued)

| Story | Label | UniqueName | Design Type | Length m | Analysis Section | Design Section | Max Station Spacing m | Min Number Stations |
|--------|-------|------------|-------------|----------|------------------|----------------|-----------------------|---------------------|
| Story2 | C157 | 291 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C158 | 292 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C159 | 293 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C160 | 294 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C161 | 295 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C162 | 296 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C163 | 297 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C164 | 336 | Column | 1 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C165 | 337 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C166 | 338 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C167 | 339 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C168 | 340 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C169 | 341 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C170 | 342 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C171 | 343 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C172 | 344 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C173 | 345 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C174 | 346 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C175 | 347 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C176 | 348 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C177 | 387 | Column | 1 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C178 | 388 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C179 | 389 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C180 | 390 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C181 | 391 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C182 | 392 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C183 | 393 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C184 | 394 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C185 | 395 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C186 | 396 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C187 | 397 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C188 | 398 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C189 | 399 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C190 | 438 | Column | 1 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C191 | 439 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C192 | 440 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C193 | 441 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C194 | 442 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C195 | 443 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C196 | 444 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C197 | 445 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C198 | 446 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C199 | 447 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C200 | 448 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C201 | 449 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C202 | 450 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C203 | 489 | Column | 1 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |

Table 3.2 - Frame Assignments - Summary (continued)

| Story | Label | UniqueName | Design Type | Length m | Analysis Section | Design Section | Max Station Spacing m | Min Number Stations |
|--------|-------|------------|-------------|----------|------------------|----------------|-----------------------|---------------------|
| Story2 | C204 | 490 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C205 | 491 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C206 | 492 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C207 | 493 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C208 | 494 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C209 | 495 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C210 | 496 | Column | 0.86 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C211 | 497 | Column | 0.72 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C212 | 498 | Column | 0.58 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C213 | 499 | Column | 0.44 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C214 | 500 | Column | 0.3 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | C215 | 501 | Column | 0.16 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D1 | 186 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D2 | 187 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D3 | 188 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D4 | 189 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D5 | 190 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D6 | 191 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D7 | 117 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D8 | 118 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D9 | 119 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D10 | 120 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D11 | 121 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D12 | 122 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D13 | 179 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D14 | 180 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D15 | 182 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D16 | 183 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D17 | 193 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D18 | 195 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D19 | 241 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D20 | 242 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D21 | 243 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D22 | 244 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D23 | 245 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D24 | 246 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D25 | 300 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D26 | 301 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D27 | 302 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D28 | 303 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D29 | 304 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D30 | 305 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D31 | 351 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D32 | 352 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D33 | 353 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D34 | 354 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D35 | 355 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |

Table 3.2 - Frame Assignments - Summary (continued)

| Story | Label | UniqueName | Design Type | Length m | Analysis Section | Design Section | Max Station Spacing m | Min Number Stations |
|--------|-------|------------|-------------|----------|------------------|----------------|-----------------------|---------------------|
| Story2 | D36 | 356 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D37 | 402 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D38 | 403 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D39 | 404 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D40 | 405 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D41 | 406 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D42 | 407 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D43 | 453 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D44 | 454 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D45 | 455 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D46 | 456 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D47 | 457 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D48 | 458 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D49 | 504 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D50 | 505 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D51 | 506 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D52 | 507 | Brace | 1.1063 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D53 | 508 | Brace | 1.0208 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story2 | D54 | 509 | Brace | 0.9483 | RHS 40*40,3MM | RHS 40*40,3MM | | 3 |
| Story1 | B1 | 23 | Beam | 6 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B2 | 659 | Beam | 6 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B3 | 24 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B4 | 651 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B5 | 25 | Beam | 6 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B7 | 27 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B8 | 35 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B9 | 28 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B10 | 649 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B11 | 661 | Beam | 6 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B14 | 662 | Beam | 6 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B15 | 29 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B16 | 645 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B17 | 34 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B18 | 33 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B19 | 647 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B20 | 30 | Beam | 5 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B21 | 31 | Beam | 6 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | B22 | 32 | Beam | 6 | BEAM 25*30 | BEAM 25*30 | 0.5 | |
| Story1 | C1 | 52 | Column | 3.2 | COL25*25 | COL25*25 | | 3 |
| Story1 | C2 | 54 | Column | 3.2 | COL25*25 | COL25*25 | | 3 |
| Story1 | C3 | 56 | Column | 3.2 | COL25*25 | COL25*25 | | 3 |
| Story1 | C4 | 58 | Column | 3.2 | COL25*25 | COL25*25 | | 3 |
| Story1 | C5 | 60 | Column | 3.2 | COL25*25 | COL25*25 | | 3 |
| Story1 | C6 | 62 | Column | 3.2 | COL25*25 | COL25*25 | | 3 |
| Story1 | C7 | 64 | Column | 3.2 | COL25*25 | COL25*25 | | 3 |
| Story1 | C8 | 66 | Column | 3.2 | COL25*25 | COL25*25 | | 3 |
| Story1 | C9 | 68 | Column | 3.2 | COL25*25 | COL25*25 | | 3 |

Table 3.2 - Frame Assignments - Summary (continued)

| Story | Label | UniqueName | Design Type | Length m | Analysis Section | Design Section | Max Station Spacing m | Min Number Stations |
|--------|-------|------------|-------------|----------|------------------|----------------|-----------------------|---------------------|
| Story1 | C10 | 70 | Column | 3.2 | COL25*25 | COL25*25 | | 3 |
| Story1 | C11 | 72 | Column | 3.2 | COL25*25 | COL25*25 | | 3 |
| Story1 | C12 | 74 | Column | 3.2 | COL25*25 | COL25*25 | | 3 |
| Story1 | C13 | 280 | Column | 3.2 | COL25*25 | COL25*25 | | 3 |
| Story1 | C14 | 276 | Column | 3.2 | COL25*25 | COL25*25 | | 3 |
| Story1 | C16 | 278 | Column | 3.2 | COL25*25 | COL25*25 | | 3 |
| Base | B1 | 1 | Beam | 6 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B2 | 2 | Beam | 6 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B3 | 3 | Beam | 5 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B4 | 4 | Beam | 5 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B5 | 5 | Beam | 6 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B6 | 6 | Beam | 6 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B7 | 7 | Beam | 5 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B8 | 8 | Beam | 5 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B9 | 9 | Beam | 5 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B10 | 10 | Beam | 5 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B11 | 11 | Beam | 6 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B12 | 12 | Beam | 6 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B13 | 13 | Beam | 6 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B14 | 14 | Beam | 6 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B15 | 15 | Beam | 5 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B16 | 16 | Beam | 5 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B17 | 17 | Beam | 5 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B18 | 18 | Beam | 5 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B19 | 19 | Beam | 5 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B20 | 20 | Beam | 5 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B21 | 21 | Beam | 6 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |
| Base | B22 | 22 | Beam | 6 | G.BEAM30*40 | G.BEAM30*40 | 0.5 | |

3.3 Shell Assignments

Table 3.3 - Area Assignments - Summary

| Story | Label | UniqueName | Section Property | Property Type |
|--------|-------|------------|------------------|---------------|
| Story2 | F169 | 57 | CIS | Slab |
| Story2 | F170 | 58 | CIS | Slab |
| Story2 | F171 | 59 | CIS | Slab |
| Story2 | F172 | 60 | CIS | Slab |
| Story2 | F173 | 61 | CIS | Slab |
| Story2 | F174 | 62 | CIS | Slab |
| Story2 | F175 | 63 | CIS | Slab |
| Story2 | F176 | 64 | CIS | Slab |
| Story2 | F177 | 65 | CIS | Slab |
| Story2 | F178 | 66 | CIS | Slab |
| Story2 | F179 | 67 | CIS | Slab |
| Story2 | F180 | 68 | CIS | Slab |
| Story2 | F181 | 69 | CIS | Slab |
| Story2 | F182 | 70 | CIS | Slab |

Table 3.3 - Area Assignments - Summary (continued)

| Story | Label | UniqueName | Section Property | Property Type |
|--------|-------|------------|------------------|---------------|
| Story2 | F183 | 71 | CIS | Slab |
| Story2 | F184 | 72 | CIS | Slab |
| Story2 | F185 | 73 | CIS | Slab |
| Story2 | F186 | 74 | CIS | Slab |
| Story2 | F187 | 75 | CIS | Slab |
| Story2 | F188 | 76 | CIS | Slab |
| Story2 | F189 | 77 | CIS | Slab |
| Story2 | F190 | 78 | CIS | Slab |
| Story2 | F191 | 79 | CIS | Slab |
| Story2 | F192 | 80 | CIS | Slab |
| Story2 | F193 | 81 | CIS | Slab |
| Story2 | F194 | 82 | CIS | Slab |
| Story2 | F195 | 83 | CIS | Slab |
| Story2 | F196 | 84 | CIS | Slab |
| Story2 | F197 | 85 | CIS | Slab |
| Story2 | F198 | 86 | CIS | Slab |
| Story2 | F199 | 87 | CIS | Slab |
| Story2 | F200 | 88 | CIS | Slab |
| Story2 | F201 | 89 | CIS | Slab |
| Story2 | F202 | 90 | CIS | Slab |
| Story2 | F203 | 91 | CIS | Slab |
| Story2 | F204 | 92 | CIS | Slab |
| Story2 | F205 | 93 | CIS | Slab |
| Story2 | F206 | 94 | CIS | Slab |
| Story2 | F207 | 95 | CIS | Slab |
| Story2 | F208 | 96 | CIS | Slab |
| Story2 | F209 | 97 | CIS | Slab |
| Story2 | F210 | 98 | CIS | Slab |
| Story2 | F211 | 99 | CIS | Slab |
| Story2 | F212 | 100 | CIS | Slab |
| Story2 | F213 | 101 | CIS | Slab |
| Story2 | F214 | 102 | CIS | Slab |
| Story2 | F215 | 103 | CIS | Slab |
| Story2 | F216 | 104 | CIS | Slab |
| Story2 | F217 | 105 | CIS | Slab |
| Story2 | F218 | 106 | CIS | Slab |
| Story2 | F219 | 107 | CIS | Slab |
| Story2 | F220 | 108 | CIS | Slab |
| Story2 | F221 | 109 | CIS | Slab |
| Story2 | F222 | 110 | CIS | Slab |
| Story2 | F223 | 111 | CIS | Slab |
| Story2 | F224 | 112 | CIS | Slab |
| Story2 | F225 | 1 | CIS | Slab |
| Story2 | F226 | 2 | CIS | Slab |
| Story2 | F227 | 3 | CIS | Slab |
| Story2 | F228 | 4 | CIS | Slab |
| Story2 | F229 | 5 | CIS | Slab |
| Story2 | F230 | 6 | CIS | Slab |
| Story2 | F231 | 7 | CIS | Slab |

Table 3.3 - Area Assignments - Summary (continued)

| Story | Label | UniqueName | Section Property | Property Type |
|--------|-------|------------|------------------|---------------|
| Story2 | F232 | 8 | CIS | Slab |
| Story2 | F233 | 9 | CIS | Slab |
| Story2 | F234 | 10 | CIS | Slab |
| Story2 | F235 | 11 | CIS | Slab |
| Story2 | F236 | 12 | CIS | Slab |
| Story2 | F237 | 13 | CIS | Slab |
| Story2 | F238 | 14 | CIS | Slab |
| Story2 | F239 | 15 | CIS | Slab |
| Story2 | F240 | 16 | CIS | Slab |
| Story2 | F241 | 17 | CIS | Slab |
| Story2 | F242 | 18 | CIS | Slab |
| Story2 | F243 | 19 | CIS | Slab |
| Story2 | F244 | 20 | CIS | Slab |
| Story2 | F245 | 21 | CIS | Slab |
| Story2 | F246 | 22 | CIS | Slab |
| Story2 | F247 | 23 | CIS | Slab |
| Story2 | F248 | 24 | CIS | Slab |
| Story2 | F249 | 25 | CIS | Slab |
| Story2 | F250 | 26 | CIS | Slab |
| Story2 | F251 | 27 | CIS | Slab |
| Story2 | F252 | 28 | CIS | Slab |
| Story2 | F253 | 29 | CIS | Slab |
| Story2 | F254 | 30 | CIS | Slab |
| Story2 | F255 | 31 | CIS | Slab |
| Story2 | F256 | 32 | CIS | Slab |
| Story2 | F257 | 33 | CIS | Slab |
| Story2 | F258 | 34 | CIS | Slab |
| Story2 | F259 | 35 | CIS | Slab |
| Story2 | F260 | 36 | CIS | Slab |
| Story2 | F261 | 37 | CIS | Slab |
| Story2 | F262 | 38 | CIS | Slab |
| Story2 | F263 | 39 | CIS | Slab |
| Story2 | F264 | 40 | CIS | Slab |
| Story2 | F265 | 41 | CIS | Slab |
| Story2 | F266 | 42 | CIS | Slab |
| Story2 | F267 | 43 | CIS | Slab |
| Story2 | F268 | 44 | CIS | Slab |
| Story2 | F269 | 45 | CIS | Slab |
| Story2 | F270 | 46 | CIS | Slab |
| Story2 | F271 | 47 | CIS | Slab |
| Story2 | F272 | 48 | CIS | Slab |
| Story2 | F273 | 49 | CIS | Slab |
| Story2 | F274 | 50 | CIS | Slab |
| Story2 | F275 | 51 | CIS | Slab |
| Story2 | F276 | 52 | CIS | Slab |
| Story2 | F277 | 53 | CIS | Slab |
| Story2 | F278 | 54 | CIS | Slab |
| Story2 | F279 | 55 | CIS | Slab |
| Story2 | F280 | 56 | CIS | Slab |

4 Loads

This chapter provides loading information as applied to the model.

4.1 Load Patterns

Table 4.1 - Load Pattern Definitions

| Name | Is Auto Load | Type | Self Weight Multiplier | Auto Load |
|-------|--------------|---------|------------------------|------------|
| ~LLRF | Yes | Other | 0 | |
| Dead | No | Dead | 1 | |
| EQX | No | Seismic | 0 | UBC 97 |
| EQY | No | Seismic | 0 | UBC 97 |
| Live | No | Live | 0 | |
| WIND | No | Wind | 0 | BS 6399-95 |

4.2 Auto Wind Loading

BS 6399-95 Auto Wind Load Calculation

This calculation presents the automatically generated lateral wind loads for load pattern WIND according to BS 6399-95, as calculated by ETABS.

Exposure Parameters

Exposure From = Shell Objects

Top Story = Story2

Bottom Story = Base

Include Parapet = No

Factors and Coefficients

Size Effect Factor, C_a [BS 2.1.3.4]

$$C_a = 1$$

Dynamic Augmentation Factor, C_r [BS 1.6.1]

$$C_r = 0.25$$

Lateral Loading

Dynamic Pressure, q_s [BS Table 2]

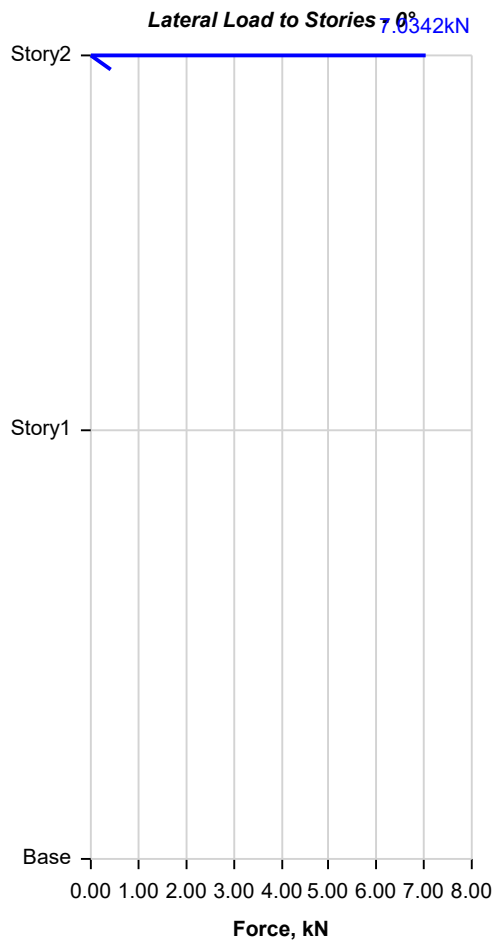
$$q_s = 0.613 V_e^2$$

$$q_s = 551.7$$

Wind Pressure, p [BS Eq. 2.3.1.6(7)]

$$p = 0.85 q_s C_p C_a (1 + C_r)$$

Applied Story Forces



| Story | Elevation | X-Dir | Y-Dir |
|--------|-----------|--------|-------|
| | m | kN | kN |
| Story2 | 6 | 7.0342 | 0 |
| Story1 | 3.2 | 0 | 0 |
| Base | 0 | 0 | 0 |

4.3 Auto Seismic Loading

UBC 97 Auto Seismic Load Calculation

This calculation presents the automatically generated lateral seismic loads for load pattern EQX according to UBC 97, as calculated by ETABS.

Direction and Eccentricity

Direction = X + Eccentricity Y

Eccentricity Ratio = 5% for all diaphragms

Structural Period

Period Calculation Method = Program Calculated

Coefficient, C_t [UBC 1630.2.2]

$$C_t = 0.035ft$$

Structure Height Above Base, h_n

$$h_n = 19.69 ft$$

Approximate Fundamental Period, T_a
[UBC 1630.2.2 Eq. 30-8]

$$T_a = C_t (h)^{\frac{3}{4}}$$

$$T_a = 0.327 sec$$

Program Calculated Period, T [UBC 1630.2.2.2]

$$T \leq 1.3 T_a$$

Factors and Coefficients

Response Modification Factor, R [UBC Table 16-N]

$$R = 8.5$$

Importance Factor, I [UBC Table 16-K]

$$I = 1$$

Seismic Zone Factor, Z [UBC Table 16-I]

$$Z = 0.4$$

Soil Profile [UBC Table 16-J] = SD

Seismic Source Type = C

Closest Source Distance = 100 km

Near-Source Factor, N_a [UBC Table 16-S]

$$N_a = 1$$

Near-Source Factor, N_v [UBC Table 16-T]

$$N_v = 1$$

Site Coefficient, C_a [UBC Table 16-Q]

$$C_a = 0.44$$

Site Coefficient, C_v [UBC Table 16-R]

$$C_v = 0.64$$

Equivalent Lateral Forces

Base Shear Coefficient [UBC 1630.2.1, Eq. 30-4]

$$= \frac{C_v I}{RT}$$

maximum [UBC 1630.2.1, Eq. 30-5]

$$= \frac{2.5 C_a I}{R} = 0.129412$$

minimum [UBC 1630.2.1, Eq. 30-6]

$$= 0.11 C_a I = 0.0484$$

Zone 4 minimum [UBC 1630.2.1, Eq. 30-7]

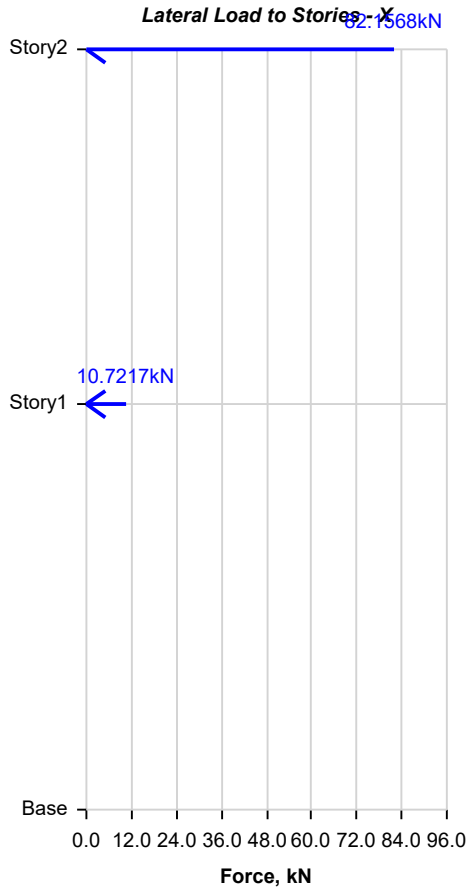
$$= \frac{0.8 Z N_v I}{R} = 0.037647$$

$$min \leq V_{coeff} \leq max$$

Calculated Base Shear

| Direction | Period Used (sec) | V _{coeff} | W (kN) | V (kN) | F _t (kN) |
|------------|-------------------|--------------------|----------|---------|---------------------|
| X + Ecc. Y | 0.425 | 0.129412 | 717.6975 | 92.8785 | 0 |

Applied Story Forces



| Story | Elevation | X-Dir | Y-Dir |
|--------|-----------|---------|-------|
| | m | kN | kN |
| Story2 | 6 | 82.1568 | 0 |
| Story1 | 3.2 | 10.7217 | 0 |
| Base | 0 | 0 | 0 |

UBC 97 Auto Seismic Load Calculation

This calculation presents the automatically generated lateral seismic loads for load pattern EQY according to UBC 97, as calculated by ETABS.

Direction and Eccentricity

Direction = Y + Eccentricity X

Eccentricity Ratio = 5% for all diaphragms

Structural Period

Period Calculation Method = Program Calculated

Coefficient, C_t [UBC 1630.2.2]

$$C_t = 0.035ft$$

Structure Height Above Base, h_n

$$h_n = 19.69 \text{ ft}$$

Approximate Fundamental Period, T_a
[UBC 1630.2.2 Eq. 30-8]

$$T_a = C_t (h)^{\frac{3}{4}}$$

$$T_a = 0.327 \text{ sec}$$

Program Calculated Period, T [UBC 1630.2.2.2]

$$T \leq 1.3 T_a$$

Factors and Coefficients

Response Modification Factor, R [UBC Table 16-N]

$$R = 8.5$$

Importance Factor, I [UBC Table 16-K]

$$I = 1$$

Seismic Zone Factor, Z [UBC Table 16-I]

$$Z = 0.4$$

Soil Profile [UBC Table 16-J] = SD

Seismic Source Type = C

Closest Source Distance = 100 km

Near-Source Factor, N_a [UBC Table 16-S]

$$N_a = 1$$

Near-Source Factor, N_v [UBC Table 16-T]

$$N_v = 1$$

Site Coefficient, C_a [UBC Table 16-Q]

$$C_a = 0.44$$

Site Coefficient, C_v [UBC Table 16-R]

$$C_v = 0.64$$

Equivalent Lateral Forces

Base Shear Coefficient [UBC 1630.2.1, Eq. 30-4]

$$= \frac{C_v I}{RT}$$

maximum [UBC 1630.2.1, Eq. 30-5]

$$= \frac{2.5 C_a I}{R} = 0.129412$$

minimum [UBC 1630.2.1, Eq. 30-6]

$$= 0.11 C_a I = 0.0484$$

Zone 4 minimum [UBC 1630.2.1, Eq. 30-7]

$$= \frac{0.8 Z N_v I}{R} = 0.037647$$

$$\min \leq V_{coeff} \leq \max$$

Calculated Base Shear

| Direction | Period Used (sec) | V _{coeff} | W (kN) | V (kN) | F _t (kN) |
|------------|-------------------|--------------------|----------|---------|---------------------|
| Y + Ecc. X | 0.425 | 0.129412 | 717.6975 | 92.8785 | 0 |

Applied Story Forces

Lateral Load to Stories - Y



| Story | Elevation | X-Dir | Y-Dir |
|--------|-----------|-------|---------|
| | m | kN | kN |
| Story2 | 6 | 0 | 82.1568 |
| Story1 | 3.2 | 0 | 10.7217 |
| Base | 0 | 0 | 0 |

4.4 Applied Loads

4.4.1 Line Loads

Table 4.5 - Frame Loads Assignments - Distributed (Part 1 of 2)

| UniqueName | Load Pattern | Story | Label | Load Type | Direction | Distance Type | Relative Distance A | Relative Distance B | Absolute Distance A m |
|------------|--------------|--------|-------|-----------|-----------|---------------|---------------------|---------------------|-----------------------|
| 38 | Dead | Story2 | B1 | Force | Gravity | Relative | 0 | 1 | 0 |
| 38 | Dead | Story2 | B1 | Force | Gravity | Relative | 0 | 1 | 0 |
| 46 | Dead | Story2 | B3 | Force | Gravity | Relative | 0 | 1 | 0 |
| 43 | Dead | Story2 | B5 | Force | Gravity | Relative | 0 | 1 | 0 |
| 43 | Dead | Story2 | B5 | Force | Gravity | Relative | 0 | 1 | 0 |
| 40 | Dead | Story2 | B7 | Force | Gravity | Relative | 0 | 1 | 0 |
| 39 | Dead | Story2 | B8 | Force | Gravity | Relative | 0 | 1 | 0 |
| 45 | Dead | Story2 | B9 | Force | Gravity | Relative | 0 | 1 | 0 |
| 42 | Dead | Story2 | B15 | Force | Gravity | Relative | 0 | 1 | 0 |
| 37 | Dead | Story2 | B17 | Force | Gravity | Relative | 0 | 1 | 0 |
| 26 | Dead | Story2 | B18 | Force | Gravity | Relative | 0 | 1 | 0 |
| 41 | Dead | Story2 | B20 | Force | Gravity | Relative | 0 | 1 | 0 |
| 55 | Dead | Story2 | B21 | Force | Gravity | Relative | 0 | 1 | 0 |
| 55 | Dead | Story2 | B21 | Force | Gravity | Relative | 0 | 1 | 0 |
| 73 | Dead | Story2 | B22 | Force | Gravity | Relative | 0 | 1 | 0 |
| 73 | Dead | Story2 | B22 | Force | Gravity | Relative | 0 | 1 | 0 |
| 23 | Dead | Story1 | B1 | Force | Gravity | Relative | 0 | 1 | 0 |
| 659 | Dead | Story1 | B2 | Force | Gravity | Relative | 0 | 1 | 0 |
| 24 | Dead | Story1 | B3 | Force | Gravity | Relative | 0 | 1 | 0 |
| 651 | Dead | Story1 | B4 | Force | Gravity | Relative | 0 | 1 | 0 |
| 25 | Dead | Story1 | B5 | Force | Gravity | Relative | 0 | 1 | 0 |
| 27 | Dead | Story1 | B7 | Force | Gravity | Relative | 0 | 1 | 0 |
| 35 | Dead | Story1 | B8 | Force | Gravity | Relative | 0 | 1 | 0 |
| 28 | Dead | Story1 | B9 | Force | Gravity | Relative | 0 | 1 | 0 |
| 649 | Dead | Story1 | B10 | Force | Gravity | Relative | 0 | 1 | 0 |
| 661 | Dead | Story1 | B11 | Force | Gravity | Relative | 0 | 1 | 0 |
| 662 | Dead | Story1 | B14 | Force | Gravity | Relative | 0 | 1 | 0 |
| 29 | Dead | Story1 | B15 | Force | Gravity | Relative | 0 | 1 | 0 |
| 645 | Dead | Story1 | B16 | Force | Gravity | Relative | 0 | 1 | 0 |
| 34 | Dead | Story1 | B17 | Force | Gravity | Relative | 0 | 1 | 0 |
| 33 | Dead | Story1 | B18 | Force | Gravity | Relative | 0 | 1 | 0 |
| 647 | Dead | Story1 | B19 | Force | Gravity | Relative | 0 | 1 | 0 |
| 30 | Dead | Story1 | B20 | Force | Gravity | Relative | 0 | 1 | 0 |
| 31 | Dead | Story1 | B21 | Force | Gravity | Relative | 0 | 1 | 0 |
| 32 | Dead | Story1 | B22 | Force | Gravity | Relative | 0 | 1 | 0 |

Table 4.5 - Frame Loads Assignments - Distributed (Part 2 of 2)

| UniqueName | Load Pattern | Absolute Distance B m | Force A kN/m | Force B kN/m |
|------------|--------------|-----------------------|--------------|--------------|
| 38 | Dead | 6 | 1.875 | 1.875 |
| 38 | Dead | 6 | 4.85 | 4.85 |
| 46 | Dead | 5 | 1.875 | 1.875 |
| 43 | Dead | 6 | 1.875 | 1.875 |

Table 4.5 - Frame Loads Assignments - Distributed (Part 2 of 2, continued)

| UniqueName | Load Pattern | Absolute Distance B m | Force A kN/m | Force B kN/m |
|------------|--------------|-----------------------|--------------|--------------|
| 43 | Dead | 6 | 4.85 | 4.85 |
| 40 | Dead | 5 | 1.875 | 1.875 |
| 39 | Dead | 5 | 1.875 | 1.875 |
| 45 | Dead | 5 | 1.875 | 1.875 |
| 42 | Dead | 5 | 1.875 | 1.875 |
| 37 | Dead | 5 | 1.875 | 1.875 |
| 26 | Dead | 5 | 1.875 | 1.875 |
| 41 | Dead | 5 | 1.875 | 1.875 |
| 55 | Dead | 6 | 1.875 | 1.875 |
| 55 | Dead | 6 | 4.85 | 4.85 |
| 73 | Dead | 6 | 1.875 | 1.875 |
| 73 | Dead | 6 | 4.85 | 4.85 |
| 23 | Dead | 6 | 15.375 | 15.375 |
| 659 | Dead | 6 | 1.875 | 1.875 |
| 24 | Dead | 5 | 15.375 | 15.375 |
| 651 | Dead | 5 | 1.875 | 1.875 |
| 25 | Dead | 6 | 15.375 | 15.375 |
| 27 | Dead | 5 | 15.375 | 15.375 |
| 35 | Dead | 5 | 15.375 | 15.375 |
| 28 | Dead | 5 | 15.375 | 15.375 |
| 649 | Dead | 5 | 1.875 | 1.875 |
| 661 | Dead | 6 | 1.875 | 1.875 |
| 662 | Dead | 6 | 1.875 | 1.875 |
| 29 | Dead | 5 | 15.375 | 15.375 |
| 645 | Dead | 5 | 1.875 | 1.875 |
| 34 | Dead | 5 | 15.375 | 15.375 |
| 33 | Dead | 5 | 15.375 | 15.375 |
| 647 | Dead | 5 | 1.875 | 1.875 |
| 30 | Dead | 5 | 15.375 | 15.375 |
| 31 | Dead | 6 | 15.375 | 15.375 |
| 32 | Dead | 6 | 15.375 | 15.375 |

4.4.2 Area Loads

Table 4.6 - Area Load Assignments - Uniform

| Story | Label | UniqueName | Load Pattern | Direction | Load kN/m2 |
|--------|-------|------------|--------------|-----------|------------|
| Story2 | F169 | 57 | Dead | Gravity | 0.043 |
| Story2 | F170 | 58 | Dead | Gravity | 0.043 |
| Story2 | F171 | 59 | Dead | Gravity | 0.043 |
| Story2 | F172 | 60 | Dead | Gravity | 0.043 |
| Story2 | F173 | 61 | Dead | Gravity | 0.043 |
| Story2 | F174 | 62 | Dead | Gravity | 0.043 |
| Story2 | F175 | 63 | Dead | Gravity | 0.043 |
| Story2 | F176 | 64 | Dead | Gravity | 0.043 |
| Story2 | F177 | 65 | Dead | Gravity | 0.043 |
| Story2 | F178 | 66 | Dead | Gravity | 0.043 |
| Story2 | F179 | 67 | Dead | Gravity | 0.043 |

Table 4.6 - Area Load Assignments - Uniform (continued)

| Story | Label | UniqueName | Load Pattern | Direction | Load kN/m2 |
|--------|-------|------------|--------------|-----------|------------|
| Story2 | F180 | 68 | Dead | Gravity | 0.043 |
| Story2 | F181 | 69 | Dead | Gravity | 0.043 |
| Story2 | F182 | 70 | Dead | Gravity | 0.043 |
| Story2 | F183 | 71 | Dead | Gravity | 0.043 |
| Story2 | F184 | 72 | Dead | Gravity | 0.043 |
| Story2 | F185 | 73 | Dead | Gravity | 0.043 |
| Story2 | F186 | 74 | Dead | Gravity | 0.043 |
| Story2 | F187 | 75 | Dead | Gravity | 0.043 |
| Story2 | F188 | 76 | Dead | Gravity | 0.043 |
| Story2 | F189 | 77 | Dead | Gravity | 0.043 |
| Story2 | F190 | 78 | Dead | Gravity | 0.043 |
| Story2 | F191 | 79 | Dead | Gravity | 0.043 |
| Story2 | F192 | 80 | Dead | Gravity | 0.043 |
| Story2 | F193 | 81 | Dead | Gravity | 0.043 |
| Story2 | F194 | 82 | Dead | Gravity | 0.043 |
| Story2 | F195 | 83 | Dead | Gravity | 0.043 |
| Story2 | F196 | 84 | Dead | Gravity | 0.043 |
| Story2 | F197 | 85 | Dead | Gravity | 0.043 |
| Story2 | F198 | 86 | Dead | Gravity | 0.043 |
| Story2 | F199 | 87 | Dead | Gravity | 0.043 |
| Story2 | F200 | 88 | Dead | Gravity | 0.043 |
| Story2 | F201 | 89 | Dead | Gravity | 0.043 |
| Story2 | F202 | 90 | Dead | Gravity | 0.043 |
| Story2 | F203 | 91 | Dead | Gravity | 0.043 |
| Story2 | F204 | 92 | Dead | Gravity | 0.043 |
| Story2 | F205 | 93 | Dead | Gravity | 0.043 |
| Story2 | F206 | 94 | Dead | Gravity | 0.043 |
| Story2 | F207 | 95 | Dead | Gravity | 0.043 |
| Story2 | F208 | 96 | Dead | Gravity | 0.043 |
| Story2 | F209 | 97 | Dead | Gravity | 0.043 |
| Story2 | F210 | 98 | Dead | Gravity | 0.043 |
| Story2 | F211 | 99 | Dead | Gravity | 0.043 |
| Story2 | F212 | 100 | Dead | Gravity | 0.043 |
| Story2 | F213 | 101 | Dead | Gravity | 0.043 |
| Story2 | F214 | 102 | Dead | Gravity | 0.043 |
| Story2 | F215 | 103 | Dead | Gravity | 0.043 |
| Story2 | F216 | 104 | Dead | Gravity | 0.043 |
| Story2 | F217 | 105 | Dead | Gravity | 0.043 |
| Story2 | F218 | 106 | Dead | Gravity | 0.043 |
| Story2 | F219 | 107 | Dead | Gravity | 0.043 |
| Story2 | F220 | 108 | Dead | Gravity | 0.043 |
| Story2 | F221 | 109 | Dead | Gravity | 0.043 |
| Story2 | F222 | 110 | Dead | Gravity | 0.043 |
| Story2 | F223 | 111 | Dead | Gravity | 0.043 |
| Story2 | F224 | 112 | Dead | Gravity | 0.043 |
| Story2 | F225 | 1 | Dead | Gravity | 0.043 |
| Story2 | F226 | 2 | Dead | Gravity | 0.043 |
| Story2 | F227 | 3 | Dead | Gravity | 0.043 |
| Story2 | F228 | 4 | Dead | Gravity | 0.043 |

Table 4.6 - Area Load Assignments - Uniform (continued)

| Story | Label | UniqueName | Load Pattern | Direction | Load kN/m2 |
|--------|-------|------------|--------------|-----------|------------|
| Story2 | F229 | 5 | Dead | Gravity | 0.043 |
| Story2 | F230 | 6 | Dead | Gravity | 0.043 |
| Story2 | F231 | 7 | Dead | Gravity | 0.043 |
| Story2 | F232 | 8 | Dead | Gravity | 0.043 |
| Story2 | F233 | 9 | Dead | Gravity | 0.043 |
| Story2 | F234 | 10 | Dead | Gravity | 0.043 |
| Story2 | F235 | 11 | Dead | Gravity | 0.043 |
| Story2 | F236 | 12 | Dead | Gravity | 0.043 |
| Story2 | F237 | 13 | Dead | Gravity | 0.043 |
| Story2 | F238 | 14 | Dead | Gravity | 0.043 |
| Story2 | F239 | 15 | Dead | Gravity | 0.043 |
| Story2 | F240 | 16 | Dead | Gravity | 0.043 |
| Story2 | F241 | 17 | Dead | Gravity | 0.043 |
| Story2 | F242 | 18 | Dead | Gravity | 0.043 |
| Story2 | F243 | 19 | Dead | Gravity | 0.043 |
| Story2 | F244 | 20 | Dead | Gravity | 0.043 |
| Story2 | F245 | 21 | Dead | Gravity | 0.043 |
| Story2 | F246 | 22 | Dead | Gravity | 0.043 |
| Story2 | F247 | 23 | Dead | Gravity | 0.043 |
| Story2 | F248 | 24 | Dead | Gravity | 0.043 |
| Story2 | F249 | 25 | Dead | Gravity | 0.043 |
| Story2 | F250 | 26 | Dead | Gravity | 0.043 |
| Story2 | F251 | 27 | Dead | Gravity | 0.043 |
| Story2 | F252 | 28 | Dead | Gravity | 0.043 |
| Story2 | F253 | 29 | Dead | Gravity | 0.043 |
| Story2 | F254 | 30 | Dead | Gravity | 0.043 |
| Story2 | F255 | 31 | Dead | Gravity | 0.043 |
| Story2 | F256 | 32 | Dead | Gravity | 0.043 |
| Story2 | F257 | 33 | Dead | Gravity | 0.043 |
| Story2 | F258 | 34 | Dead | Gravity | 0.043 |
| Story2 | F259 | 35 | Dead | Gravity | 0.043 |
| Story2 | F260 | 36 | Dead | Gravity | 0.043 |
| Story2 | F261 | 37 | Dead | Gravity | 0.043 |
| Story2 | F262 | 38 | Dead | Gravity | 0.043 |
| Story2 | F263 | 39 | Dead | Gravity | 0.043 |
| Story2 | F264 | 40 | Dead | Gravity | 0.043 |
| Story2 | F265 | 41 | Dead | Gravity | 0.043 |
| Story2 | F266 | 42 | Dead | Gravity | 0.043 |
| Story2 | F267 | 43 | Dead | Gravity | 0.043 |
| Story2 | F268 | 44 | Dead | Gravity | 0.043 |
| Story2 | F269 | 45 | Dead | Gravity | 0.043 |
| Story2 | F270 | 46 | Dead | Gravity | 0.043 |
| Story2 | F271 | 47 | Dead | Gravity | 0.043 |
| Story2 | F272 | 48 | Dead | Gravity | 0.043 |
| Story2 | F273 | 49 | Dead | Gravity | 0.043 |
| Story2 | F274 | 50 | Dead | Gravity | 0.043 |
| Story2 | F275 | 51 | Dead | Gravity | 0.043 |
| Story2 | F276 | 52 | Dead | Gravity | 0.043 |
| Story2 | F277 | 53 | Dead | Gravity | 0.043 |

Table 4.6 - Area Load Assignments - Uniform (continued)

| Story | Label | UniqueName | Load Pattern | Direction | Load kN/m2 |
|--------|-------|------------|--------------|-----------|------------|
| Story2 | F278 | 54 | Dead | Gravity | 0.043 |
| Story2 | F279 | 55 | Dead | Gravity | 0.043 |
| Story2 | F280 | 56 | Dead | Gravity | 0.043 |
| Story2 | F169 | 57 | Live | Gravity | 0.5 |
| Story2 | F170 | 58 | Live | Gravity | 0.5 |
| Story2 | F171 | 59 | Live | Gravity | 0.5 |
| Story2 | F172 | 60 | Live | Gravity | 0.5 |
| Story2 | F173 | 61 | Live | Gravity | 0.5 |
| Story2 | F174 | 62 | Live | Gravity | 0.5 |
| Story2 | F175 | 63 | Live | Gravity | 0.5 |
| Story2 | F176 | 64 | Live | Gravity | 0.5 |
| Story2 | F177 | 65 | Live | Gravity | 0.5 |
| Story2 | F178 | 66 | Live | Gravity | 0.5 |
| Story2 | F179 | 67 | Live | Gravity | 0.5 |
| Story2 | F180 | 68 | Live | Gravity | 0.5 |
| Story2 | F181 | 69 | Live | Gravity | 0.5 |
| Story2 | F182 | 70 | Live | Gravity | 0.5 |
| Story2 | F183 | 71 | Live | Gravity | 0.5 |
| Story2 | F184 | 72 | Live | Gravity | 0.5 |
| Story2 | F185 | 73 | Live | Gravity | 0.5 |
| Story2 | F186 | 74 | Live | Gravity | 0.5 |
| Story2 | F187 | 75 | Live | Gravity | 0.5 |
| Story2 | F188 | 76 | Live | Gravity | 0.5 |
| Story2 | F189 | 77 | Live | Gravity | 0.5 |
| Story2 | F190 | 78 | Live | Gravity | 0.5 |
| Story2 | F191 | 79 | Live | Gravity | 0.5 |
| Story2 | F192 | 80 | Live | Gravity | 0.5 |
| Story2 | F193 | 81 | Live | Gravity | 0.5 |
| Story2 | F194 | 82 | Live | Gravity | 0.5 |
| Story2 | F195 | 83 | Live | Gravity | 0.5 |
| Story2 | F196 | 84 | Live | Gravity | 0.5 |
| Story2 | F197 | 85 | Live | Gravity | 0.5 |
| Story2 | F198 | 86 | Live | Gravity | 0.5 |
| Story2 | F199 | 87 | Live | Gravity | 0.5 |
| Story2 | F200 | 88 | Live | Gravity | 0.5 |
| Story2 | F201 | 89 | Live | Gravity | 0.5 |
| Story2 | F202 | 90 | Live | Gravity | 0.5 |
| Story2 | F203 | 91 | Live | Gravity | 0.5 |
| Story2 | F204 | 92 | Live | Gravity | 0.5 |
| Story2 | F205 | 93 | Live | Gravity | 0.5 |
| Story2 | F206 | 94 | Live | Gravity | 0.5 |
| Story2 | F207 | 95 | Live | Gravity | 0.5 |
| Story2 | F208 | 96 | Live | Gravity | 0.5 |
| Story2 | F209 | 97 | Live | Gravity | 0.5 |
| Story2 | F210 | 98 | Live | Gravity | 0.5 |
| Story2 | F211 | 99 | Live | Gravity | 0.5 |
| Story2 | F212 | 100 | Live | Gravity | 0.5 |
| Story2 | F213 | 101 | Live | Gravity | 0.5 |
| Story2 | F214 | 102 | Live | Gravity | 0.5 |

Table 4.6 - Area Load Assignments - Uniform (continued)

| Story | Label | UniqueName | Load Pattern | Direction | Load kN/m2 |
|--------|-------|------------|--------------|-----------|------------|
| Story2 | F215 | 103 | Live | Gravity | 0.5 |
| Story2 | F216 | 104 | Live | Gravity | 0.5 |
| Story2 | F217 | 105 | Live | Gravity | 0.5 |
| Story2 | F218 | 106 | Live | Gravity | 0.5 |
| Story2 | F219 | 107 | Live | Gravity | 0.5 |
| Story2 | F220 | 108 | Live | Gravity | 0.5 |
| Story2 | F221 | 109 | Live | Gravity | 0.5 |
| Story2 | F222 | 110 | Live | Gravity | 0.5 |
| Story2 | F223 | 111 | Live | Gravity | 0.5 |
| Story2 | F224 | 112 | Live | Gravity | 0.5 |
| Story2 | F225 | 1 | Live | Gravity | 0.5 |
| Story2 | F226 | 2 | Live | Gravity | 0.5 |
| Story2 | F227 | 3 | Live | Gravity | 0.5 |
| Story2 | F228 | 4 | Live | Gravity | 0.5 |
| Story2 | F229 | 5 | Live | Gravity | 0.5 |
| Story2 | F230 | 6 | Live | Gravity | 0.5 |
| Story2 | F231 | 7 | Live | Gravity | 0.5 |
| Story2 | F232 | 8 | Live | Gravity | 0.5 |
| Story2 | F233 | 9 | Live | Gravity | 0.5 |
| Story2 | F234 | 10 | Live | Gravity | 0.5 |
| Story2 | F235 | 11 | Live | Gravity | 0.5 |
| Story2 | F236 | 12 | Live | Gravity | 0.5 |
| Story2 | F237 | 13 | Live | Gravity | 0.5 |
| Story2 | F238 | 14 | Live | Gravity | 0.5 |
| Story2 | F239 | 15 | Live | Gravity | 0.5 |
| Story2 | F240 | 16 | Live | Gravity | 0.5 |
| Story2 | F241 | 17 | Live | Gravity | 0.5 |
| Story2 | F242 | 18 | Live | Gravity | 0.5 |
| Story2 | F243 | 19 | Live | Gravity | 0.5 |
| Story2 | F244 | 20 | Live | Gravity | 0.5 |
| Story2 | F245 | 21 | Live | Gravity | 0.5 |
| Story2 | F246 | 22 | Live | Gravity | 0.5 |
| Story2 | F247 | 23 | Live | Gravity | 0.5 |
| Story2 | F248 | 24 | Live | Gravity | 0.5 |
| Story2 | F249 | 25 | Live | Gravity | 0.5 |
| Story2 | F250 | 26 | Live | Gravity | 0.5 |
| Story2 | F251 | 27 | Live | Gravity | 0.5 |
| Story2 | F252 | 28 | Live | Gravity | 0.5 |
| Story2 | F253 | 29 | Live | Gravity | 0.5 |
| Story2 | F254 | 30 | Live | Gravity | 0.5 |
| Story2 | F255 | 31 | Live | Gravity | 0.5 |
| Story2 | F256 | 32 | Live | Gravity | 0.5 |
| Story2 | F257 | 33 | Live | Gravity | 0.5 |
| Story2 | F258 | 34 | Live | Gravity | 0.5 |
| Story2 | F259 | 35 | Live | Gravity | 0.5 |
| Story2 | F260 | 36 | Live | Gravity | 0.5 |
| Story2 | F261 | 37 | Live | Gravity | 0.5 |
| Story2 | F262 | 38 | Live | Gravity | 0.5 |
| Story2 | F263 | 39 | Live | Gravity | 0.5 |

Table 4.6 - Area Load Assignments - Uniform (continued)

| Story | Label | UniqueName | Load Pattern | Direction | Load kN/m2 |
|--------|-------|------------|--------------|-----------|------------|
| Story2 | F264 | 40 | Live | Gravity | 0.5 |
| Story2 | F265 | 41 | Live | Gravity | 0.5 |
| Story2 | F266 | 42 | Live | Gravity | 0.5 |
| Story2 | F267 | 43 | Live | Gravity | 0.5 |
| Story2 | F268 | 44 | Live | Gravity | 0.5 |
| Story2 | F269 | 45 | Live | Gravity | 0.5 |
| Story2 | F270 | 46 | Live | Gravity | 0.5 |
| Story2 | F271 | 47 | Live | Gravity | 0.5 |
| Story2 | F272 | 48 | Live | Gravity | 0.5 |
| Story2 | F273 | 49 | Live | Gravity | 0.5 |
| Story2 | F274 | 50 | Live | Gravity | 0.5 |
| Story2 | F275 | 51 | Live | Gravity | 0.5 |
| Story2 | F276 | 52 | Live | Gravity | 0.5 |
| Story2 | F277 | 53 | Live | Gravity | 0.5 |
| Story2 | F278 | 54 | Live | Gravity | 0.5 |
| Story2 | F279 | 55 | Live | Gravity | 0.5 |
| Story2 | F280 | 56 | Live | Gravity | 0.5 |

4.5 Functions

4.5.1 Response Spectrum Functions

Table 4.7 - Functions - Response Spectrum - User Defined

| Name | Period sec | Value | Damping Ratio |
|--------|------------|-------|---------------|
| UnifRS | 0 | 1 | 0.05 |
| UnifRS | 1 | 1 | |

4.5.2 Time History Functions

Table 4.8 - Functions - Time History - User Defined

| Name | Time sec | Value |
|--------|----------|-------|
| RampTH | 0 | 0 |
| RampTH | 1 | 1 |
| RampTH | 4 | 1 |
| UnifTH | 0 | 1 |
| UnifTH | 1 | 1 |

4.6 Load Cases

Table 4.9 - Load Case Definitions - Summary

| Name | Type |
|-------|---------------|
| Dead | Linear Static |
| Live | Linear Static |
| Modal | Modal - Eigen |
| WIND | Linear Static |
| EQX | Linear Static |
| EQY | Linear Static |

4.7 Load Combinations

Table 4.10 - Load Combination Definitions

| Name | Type | Is Auto | Load Name | SF | Notes |
|---------|------------|---------|-----------|------|--|
| DConS1 | Linear Add | Yes | Dead | 1.4 | Dead [Strength] |
| DConS2 | Linear Add | Yes | Dead | 1.4 | Dead + Live [Strength] |
| DConS2 | | | Live | 1.6 | |
| DConS3 | Linear Add | Yes | Dead | 1.2 | Dead + Live + Wind + Snow [Strength] |
| DConS3 | | | Live | 1.2 | |
| DConS3 | | | WIND | 1.2 | |
| DConS4 | Linear Add | Yes | Dead | 1.2 | Dead + Live - Wind + Snow [Strength] |
| DConS4 | | | Live | 1.2 | |
| DConS4 | | | WIND | -1.2 | |
| DConS5 | Linear Add | Yes | Dead | 1.4 | Dead + Wind [Strength] |
| DConS5 | | | WIND | 1.4 | |
| DConS6 | Linear Add | Yes | Dead | 1.4 | Dead - Wind [Strength] |
| DConS6 | | | WIND | -1.4 | |
| DConS7 | Linear Add | Yes | Dead | 1 | Dead (min) + Wind [Strength] |
| DConS7 | | | WIND | 1.4 | |
| DConS8 | Linear Add | Yes | Dead | 1 | Dead (min) - Wind [Strength] |
| DConS8 | | | WIND | -1.4 | |
| DConS9 | Linear Add | Yes | Dead | 1.2 | Dead + Live + Static Earthquake [Strength] |
| DConS9 | | | Live | 1.2 | |
| DConS9 | | | EQX | 1.2 | |
| DConS10 | Linear Add | Yes | Dead | 1.2 | Dead + Live - Static Earthquake [Strength] |
| DConS10 | | | Live | 1.2 | |
| DConS10 | | | EQX | -1.2 | |
| DConS11 | Linear Add | Yes | Dead | 1.2 | Dead + Live + Static Earthquake [Strength] |
| DConS11 | | | Live | 1.2 | |
| DConS11 | | | EQY | 1.2 | |
| DConS12 | Linear Add | Yes | Dead | 1.2 | Dead + Live - Static Earthquake [Strength] |
| DConS12 | | | Live | 1.2 | |
| DConS12 | | | EQY | -1.2 | |
| DConS13 | Linear Add | Yes | Dead | 1.4 | Dead + Static Earthquake [Strength] |
| DConS13 | | | EQX | 1.4 | |
| DConS14 | Linear Add | Yes | Dead | 1.4 | Dead - Static Earthquake [Strength] |
| DConS14 | | | EQX | -1.4 | |
| DConS15 | Linear Add | Yes | Dead | 1.4 | Dead + Static Earthquake [Strength] |
| DConS15 | | | EQY | 1.4 | |
| DConS16 | Linear Add | Yes | Dead | 1.4 | Dead - Static Earthquake [Strength] |
| DConS16 | | | EQY | -1.4 | |
| DConS17 | Linear Add | Yes | Dead | 1 | Dead (min) + Static Earthquake [Strength] |
| DConS17 | | | EQX | 1.4 | |
| DConS18 | Linear Add | Yes | Dead | 1 | Dead (min) - Static Earthquake [Strength] |
| DConS18 | | | EQX | -1.4 | |
| DConS19 | Linear Add | Yes | Dead | 1 | Dead (min) + Static Earthquake [Strength] |
| DConS19 | | | EQY | 1.4 | |
| DConS20 | Linear Add | Yes | Dead | 1 | Dead (min) - Static Earthquake [Strength] |
| DConS20 | | | EQY | -1.4 | |
| DSlbS1 | Linear Add | Yes | Dead | 1.4 | Dead [Strength] |
| DSlbS2 | Linear Add | Yes | Dead | 1.4 | Dead + Live [Strength] |
| DSlbS2 | | | Live | 1.6 | |

Table 4.10 - Load Combination Definitions (continued)

| Name | Type | Is Auto | Load Name | SF | Notes |
|---------|------------|---------|-----------|------|--|
| DSIbS3 | Linear Add | Yes | Dead | 1.2 | Dead + Live + Wind + Snow [Strength] |
| DSIbS3 | | | Live | 1.2 | |
| DSIbS3 | | | WIND | 1.2 | |
| DSIbS4 | Linear Add | Yes | Dead | 1.2 | Dead + Live - Wind + Snow [Strength] |
| DSIbS4 | | | Live | 1.2 | |
| DSIbS4 | | | WIND | -1.2 | |
| DSIbS5 | Linear Add | Yes | Dead | 1.4 | Dead + Wind [Strength] |
| DSIbS5 | | | WIND | 1.4 | |
| DSIbS6 | Linear Add | Yes | Dead | 1.4 | Dead - Wind [Strength] |
| DSIbS6 | | | WIND | -1.4 | |
| DSIbS7 | Linear Add | Yes | Dead | 1 | Dead (min) + Wind [Strength] |
| DSIbS7 | | | WIND | 1.4 | |
| DSIbS8 | Linear Add | Yes | Dead | 1 | Dead (min) - Wind [Strength] |
| DSIbS8 | | | WIND | -1.4 | |
| DSIbS9 | Linear Add | Yes | Dead | 1.2 | Dead + Live + Static Earthquake [Strength] |
| DSIbS9 | | | Live | 1.2 | |
| DSIbS10 | Linear Add | Yes | Dead | 1.2 | Dead + Live - Static Earthquake [Strength] |
| DSIbS10 | | | Live | 1.2 | |
| DSIbS11 | Linear Add | Yes | Dead | 1.2 | Dead + Live + Static Earthquake [Strength] |
| DSIbS11 | | | Live | 1.2 | |
| DSIbS12 | Linear Add | Yes | Dead | 1.2 | Dead + Live - Static Earthquake [Strength] |
| DSIbS12 | | | Live | 1.2 | |
| DSIbS13 | Linear Add | Yes | Dead | 1.4 | Dead + Static Earthquake [Strength] |
| DSIbS14 | Linear Add | Yes | Dead | 1.4 | Dead - Static Earthquake [Strength] |
| DSIbS15 | Linear Add | Yes | Dead | 1.4 | Dead + Static Earthquake [Strength] |
| DSIbS16 | Linear Add | Yes | Dead | 1.4 | Dead - Static Earthquake [Strength] |
| DSIbS17 | Linear Add | Yes | Dead | 1 | Dead (min) + Static Earthquake [Strength] |
| DSIbS18 | Linear Add | Yes | Dead | 1 | Dead (min) - Static Earthquake [Strength] |
| DSIbS19 | Linear Add | Yes | Dead | 1 | Dead (min) + Static Earthquake [Strength] |
| DSIbS20 | Linear Add | Yes | Dead | 1 | Dead (min) - Static Earthquake [Strength] |
| DStID1 | Linear Add | Yes | Dead | 1 | Dead [Deflections] |
| DStID2 | Linear Add | Yes | Dead | 1 | Dead + Live [Deflections] |
| DStID2 | | | Live | 1 | |
| DStIS1 | Linear Add | Yes | Dead | 1.4 | Dead [Strength] |
| DStIS2 | Linear Add | Yes | Dead | 1.4 | Dead + Live [Strength] |
| DStIS2 | | | Live | 1.6 | |
| DStIS3 | Linear Add | Yes | Dead | 1.2 | Dead + Live + Wind + Snow [Strength] |
| DStIS3 | | | Live | 1.2 | |
| DStIS3 | | | WIND | 1.2 | |
| DStIS4 | Linear Add | Yes | Dead | 1.2 | Dead + Live - Wind + Snow [Strength] |
| DStIS4 | | | Live | 1.2 | |
| DStIS4 | | | WIND | -1.2 | |
| DStIS5 | Linear Add | Yes | Dead | 1.4 | Dead + Wind [Strength] |
| DStIS5 | | | WIND | 1.4 | |
| DStIS6 | Linear Add | Yes | Dead | 1.4 | Dead - Wind [Strength] |
| DStIS6 | | | WIND | -1.4 | |
| DStIS7 | Linear Add | Yes | Dead | 1 | Dead (min) + Wind [Strength] |
| DStIS7 | | | WIND | 1.4 | |
| DStIS8 | Linear Add | Yes | Dead | 1 | Dead (min) - Wind [Strength] |

Table 4.10 - Load Combination Definitions (continued)

| Name | Type | Is Auto | Load Name | SF | Notes |
|---------|------------|---------|-----------|------|--|
| DStIS8 | | | WIND | -1.4 | |
| DStIS9 | Linear Add | Yes | Dead | 1.2 | Dead + Live + Static Earthquake [Strength] |
| DStIS9 | | | Live | 1.2 | |
| DStIS9 | | | EQX | 1.2 | |
| DStIS10 | Linear Add | Yes | Dead | 1.2 | Dead + Live - Static Earthquake [Strength] |
| DStIS10 | | | Live | 1.2 | |
| DStIS10 | | | EQX | -1.2 | |
| DStIS11 | Linear Add | Yes | Dead | 1.2 | Dead + Live + Static Earthquake [Strength] |
| DStIS11 | | | Live | 1.2 | |
| DStIS11 | | | EQY | 1.2 | |
| DStIS12 | Linear Add | Yes | Dead | 1.2 | Dead + Live - Static Earthquake [Strength] |
| DStIS12 | | | Live | 1.2 | |
| DStIS12 | | | EQY | -1.2 | |
| DStIS13 | Linear Add | Yes | Dead | 1.4 | Dead + Static Earthquake [Strength] |
| DStIS13 | | | EQX | 1.4 | |
| DStIS14 | Linear Add | Yes | Dead | 1.4 | Dead - Static Earthquake [Strength] |
| DStIS14 | | | EQX | -1.4 | |
| DStIS15 | Linear Add | Yes | Dead | 1.4 | Dead + Static Earthquake [Strength] |
| DStIS15 | | | EQY | 1.4 | |
| DStIS16 | Linear Add | Yes | Dead | 1.4 | Dead - Static Earthquake [Strength] |
| DStIS16 | | | EQY | -1.4 | |
| DStIS17 | Linear Add | Yes | Dead | 1 | Dead (min) + Static Earthquake [Strength] |
| DStIS17 | | | EQX | 1.4 | |
| DStIS18 | Linear Add | Yes | Dead | 1 | Dead (min) - Static Earthquake [Strength] |
| DStIS18 | | | EQX | -1.4 | |
| DStIS19 | Linear Add | Yes | Dead | 1 | Dead (min) + Static Earthquake [Strength] |
| DStIS19 | | | EQY | 1.4 | |
| DStIS20 | Linear Add | Yes | Dead | 1 | Dead (min) - Static Earthquake [Strength] |
| DStIS20 | | | EQY | -1.4 | |

5 Analysis Results

This chapter provides analysis results.

5.1 Structure Results

Table 5.1 - Base Reactions

| Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m | X m | Y m | Z m |
|-------------|-------------|-----------|-----------|-----------|------------|-------------|------------|--------|--------|--------|
| Dead | LinStatic | 0 | 0 | 2395.5845 | 23948.0345 | -14175.2542 | 0 | 0 | 0 | 0 |
| Live | LinStatic | 0 | 0 | 121.1154 | 1211.1543 | -726.6926 | 0 | 0 | 0 | 0 |
| WIND | LinStatic | -7.0342 | 0 | 91.4443 | 914.4427 | -534.5973 | 70.3417 | 0 | 0 | 0 |
| EQX | LinStatic | -92.8785 | 0 | 0 | 0 | -527.2503 | 928.9408 | 0 | 0 | 0 |
| EQY | LinStatic | 0 | -92.8785 | 0 | 527.2503 | 0 | -537.4328 | 0 | 0 | 0 |
| DSlbS1 | Combination | 0 | 0 | 3353.8183 | 33527.2482 | -19845.3559 | 0 | 0 | 0 | 0 |
| DSlbS2 | Combination | 0 | 0 | 3547.6029 | 35465.0951 | -21008.064 | 0 | 0 | 0 | 0 |
| DSlbS3 | Combination | -8.441 | 0 | 3129.773 | 31288.3578 | -18523.8529 | 84.4101 | 0 | 0 | 0 |
| DSlbS4 | Combination | 8.441 | 0 | 2910.3067 | 29093.6952 | -17240.8194 | -84.4101 | 0 | 0 | 0 |
| DSlbS5 | Combination | -9.8478 | 0 | 3481.8402 | 34807.4681 | -20593.7921 | 98.4784 | 0 | 0 | 0 |
| DSlbS6 | Combination | 9.8478 | 0 | 3225.7963 | 32247.0284 | -19096.9196 | -98.4784 | 0 | 0 | 0 |
| DSlbS7 | Combination | -9.8478 | 0 | 2523.6064 | 25228.2543 | -14923.6904 | 98.4784 | 0 | 0 | 0 |
| DSlbS8 | Combination | 9.8478 | 0 | 2267.5625 | 22667.8146 | -13426.818 | -98.4784 | 0 | 0 | 0 |
| DSlbS9 | Combination | 0 | 0 | 3020.0399 | 30191.0265 | -17882.3361 | 0 | 0 | 0 | 0 |
| DSlbS10 | Combination | 0 | 0 | 3020.0399 | 30191.0265 | -17882.3361 | 0 | 0 | 0 | 0 |
| DSlbS11 | Combination | 0 | 0 | 3020.0399 | 30191.0265 | -17882.3361 | 0 | 0 | 0 | 0 |
| DSlbS12 | Combination | 0 | 0 | 3020.0399 | 30191.0265 | -17882.3361 | 0 | 0 | 0 | 0 |
| DSlbS13 | Combination | 0 | 0 | 3353.8183 | 33527.2482 | -19845.3559 | 0 | 0 | 0 | 0 |
| DSlbS14 | Combination | 0 | 0 | 3353.8183 | 33527.2482 | -19845.3559 | 0 | 0 | 0 | 0 |
| DSlbS15 | Combination | 0 | 0 | 3353.8183 | 33527.2482 | -19845.3559 | 0 | 0 | 0 | 0 |
| DSlbS16 | Combination | 0 | 0 | 3353.8183 | 33527.2482 | -19845.3559 | 0 | 0 | 0 | 0 |
| DSlbS17 | Combination | 0 | 0 | 2395.5845 | 23948.0345 | -14175.2542 | 0 | 0 | 0 | 0 |
| DSlbS18 | Combination | 0 | 0 | 2395.5845 | 23948.0345 | -14175.2542 | 0 | 0 | 0 | 0 |
| DSlbS19 | Combination | 0 | 0 | 2395.5845 | 23948.0345 | -14175.2542 | 0 | 0 | 0 | 0 |
| DSlbS20 | Combination | 0 | 0 | 2395.5845 | 23948.0345 | -14175.2542 | 0 | 0 | 0 | 0 |
| DStlS1 | Combination | 0 | 0 | 3353.8183 | 33527.2482 | -19845.3559 | 0 | 0 | 0 | 0 |
| DStlS2 | Combination | 0 | 0 | 3547.6029 | 35465.0951 | -21008.064 | 0 | 0 | 0 | 0 |
| DStlS3 | Combination | -8.441 | 0 | 3129.773 | 31288.3578 | -18523.8529 | 84.4101 | 0 | 0 | 0 |
| DStlS4 | Combination | 8.441 | 0 | 2910.3067 | 29093.6952 | -17240.8194 | -84.4101 | 0 | 0 | 0 |
| DStlS5 | Combination | -9.8478 | 0 | 3481.8402 | 34807.4681 | -20593.7921 | 98.4784 | 0 | 0 | 0 |
| DStlS6 | Combination | 9.8478 | 0 | 3225.7963 | 32247.0284 | -19096.9196 | -98.4784 | 0 | 0 | 0 |
| DStlS7 | Combination | -9.8478 | 0 | 2523.6064 | 25228.2543 | -14923.6904 | 98.4784 | 0 | 0 | 0 |
| DStlS8 | Combination | 9.8478 | 0 | 2267.5625 | 22667.8146 | -13426.818 | -98.4784 | 0 | 0 | 0 |
| DStlS9 | Combination | -111.4542 | 0 | 3020.0399 | 30191.0265 | -18515.0366 | 1114.729 | 0 | 0 | 0 |
| DStlS10 | Combination | 111.4542 | 0 | 3020.0399 | 30191.0265 | -17249.6357 | -1114.729 | 0 | 0 | 0 |
| DStlS11 | Combination | 0 | -111.4542 | 3020.0399 | 30823.7269 | -17882.3361 | -644.9194 | 0 | 0 | 0 |
| DStlS12 | Combination | 0 | 111.4542 | 3020.0399 | 29558.3261 | -17882.3361 | 644.9194 | 0 | 0 | 0 |
| DStlS13 | Combination | -130.0299 | 0 | 3353.8183 | 33527.2482 | -20583.5063 | 1300.5172 | 0 | 0 | 0 |
| DStlS14 | Combination | 130.0299 | 0 | 3353.8183 | 33527.2482 | -19107.2054 | -1300.5172 | 0 | 0 | 0 |
| DStlS15 | Combination | 0 | -130.0299 | 3353.8183 | 34265.3987 | -19845.3559 | -752.4059 | 0 | 0 | 0 |
| DStlS16 | Combination | 0 | 130.0299 | 3353.8183 | 32789.0978 | -19845.3559 | 752.4059 | 0 | 0 | 0 |
| DStlS17 | Combination | -130.0299 | 0 | 2395.5845 | 23948.0345 | -14913.4047 | 1300.5172 | 0 | 0 | 0 |
| DStlS18 | Combination | 130.0299 | 0 | 2395.5845 | 23948.0345 | -13437.1037 | -1300.5172 | 0 | 0 | 0 |
| DStlS19 | Combination | 0 | -130.0299 | 2395.5845 | 24686.1849 | -14175.2542 | -752.4059 | 0 | 0 | 0 |
| DStlS20 | Combination | 0 | 130.0299 | 2395.5845 | 23209.884 | -14175.2542 | 752.4059 | 0 | 0 | 0 |

Table 5.1 - Base Reactions (continued)

| Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m | X m | Y m | Z m |
|-------------|-------------|-----------|-----------|-----------|------------|-------------|------------|--------|--------|--------|
| DStID1 | Combination | 0 | 0 | 2395.5845 | 23948.0345 | -14175.2542 | 0 | 0 | 0 | 0 |
| DStID2 | Combination | 0 | 0 | 2516.6999 | 25159.1888 | -14901.9468 | 0 | 0 | 0 | 0 |
| DConS1 | Combination | 0 | 0 | 3353.8183 | 33527.2482 | -19845.3559 | 0 | 0 | 0 | 0 |
| DConS2 | Combination | 0 | 0 | 3547.6029 | 35465.0951 | -21008.064 | 0 | 0 | 0 | 0 |
| DConS3 | Combination | -8.441 | 0 | 3129.773 | 31288.3578 | -18523.8529 | 84.4101 | 0 | 0 | 0 |
| DConS4 | Combination | 8.441 | 0 | 2910.3067 | 29093.6952 | -17240.8194 | -84.4101 | 0 | 0 | 0 |
| DConS5 | Combination | -9.8478 | 0 | 3481.8402 | 34807.4681 | -20593.7921 | 98.4784 | 0 | 0 | 0 |
| DConS6 | Combination | 9.8478 | 0 | 3225.7963 | 32247.0284 | -19096.9196 | -98.4784 | 0 | 0 | 0 |
| DConS7 | Combination | -9.8478 | 0 | 2523.6064 | 25228.2543 | -14923.6904 | 98.4784 | 0 | 0 | 0 |
| DConS8 | Combination | 9.8478 | 0 | 2267.5625 | 22667.8146 | -13426.818 | -98.4784 | 0 | 0 | 0 |
| DConS9 | Combination | -111.4542 | 0 | 3020.0399 | 30191.0265 | -18515.0366 | 1114.729 | 0 | 0 | 0 |
| DConS10 | Combination | 111.4542 | 0 | 3020.0399 | 30191.0265 | -17249.6357 | -1114.729 | 0 | 0 | 0 |
| DConS11 | Combination | 0 | -111.4542 | 3020.0399 | 30823.7269 | -17882.3361 | -644.9194 | 0 | 0 | 0 |
| DConS12 | Combination | 0 | 111.4542 | 3020.0399 | 29558.3261 | -17882.3361 | 644.9194 | 0 | 0 | 0 |
| DConS13 | Combination | -130.0299 | 0 | 3353.8183 | 33527.2482 | -20583.5063 | 1300.5172 | 0 | 0 | 0 |
| DConS14 | Combination | 130.0299 | 0 | 3353.8183 | 33527.2482 | -19107.2054 | -1300.5172 | 0 | 0 | 0 |
| DConS15 | Combination | 0 | -130.0299 | 3353.8183 | 34265.3987 | -19845.3559 | -752.4059 | 0 | 0 | 0 |
| DConS16 | Combination | 0 | 130.0299 | 3353.8183 | 32789.0978 | -19845.3559 | 752.4059 | 0 | 0 | 0 |
| DConS17 | Combination | -130.0299 | 0 | 2395.5845 | 23948.0345 | -14913.4047 | 1300.5172 | 0 | 0 | 0 |
| DConS18 | Combination | 130.0299 | 0 | 2395.5845 | 23948.0345 | -13437.1037 | -1300.5172 | 0 | 0 | 0 |
| DConS19 | Combination | 0 | -130.0299 | 2395.5845 | 24686.1849 | -14175.2542 | -752.4059 | 0 | 0 | 0 |
| DConS20 | Combination | 0 | 130.0299 | 2395.5845 | 23209.884 | -14175.2542 | 752.4059 | 0 | 0 | 0 |

5.2 Story Results

Table 5.2 - Story Drifts

| Story | Output Case | Case Type | Direction | Drift | Label | X m | Y m | Z m |
|--------|-------------|-------------|-----------|----------|-------|--------|--------|--------|
| Story2 | Dead | LinStatic | X | 0.000332 | 7 | 12 | 10 | 6 |
| Story2 | Live | LinStatic | X | 0.0001 | 7 | 12 | 10 | 6 |
| Story2 | Live | LinStatic | Y | 4.2E-05 | 13 | 12 | 0 | 6 |
| Story2 | WIND | LinStatic | X | 0.000281 | 7 | 12 | 10 | 6 |
| Story2 | EQX | LinStatic | X | 0.002713 | 8 | 0 | 10 | 6 |
| Story2 | EQY | LinStatic | Y | 0.002504 | 2 | 6 | 20 | 6 |
| Story2 | DSlBS1 | Combination | X | 0.000464 | 7 | 12 | 10 | 6 |
| Story2 | DSlBS2 | Combination | X | 0.000624 | 7 | 12 | 10 | 6 |
| Story2 | DSlBS3 | Combination | X | 0.000855 | 7 | 12 | 10 | 6 |
| Story2 | DSlBS4 | Combination | X | 0.000346 | 8 | 0 | 10 | 6 |
| Story2 | DSlBS4 | Combination | Y | 0.000206 | 14 | 6 | 0 | 6 |
| Story2 | DSlBS5 | Combination | X | 0.000858 | 7 | 12 | 10 | 6 |
| Story2 | DSlBS6 | Combination | X | 0.000271 | 8 | 0 | 10 | 6 |
| Story2 | DSlBS6 | Combination | Y | 0.000223 | 14 | 6 | 0 | 6 |
| Story2 | DSlBS7 | Combination | X | 0.000725 | 7 | 12 | 10 | 6 |
| Story2 | DSlBS8 | Combination | X | 0.000267 | 8 | 0 | 10 | 6 |
| Story2 | DSlBS9 | Combination | X | 0.000518 | 7 | 12 | 10 | 6 |
| Story2 | DSlBS10 | Combination | X | 0.000518 | 7 | 12 | 10 | 6 |
| Story2 | DSlBS11 | Combination | X | 0.000518 | 7 | 12 | 10 | 6 |
| Story2 | DSlBS12 | Combination | X | 0.000518 | 7 | 12 | 10 | 6 |
| Story2 | DSlBS13 | Combination | X | 0.000464 | 7 | 12 | 10 | 6 |
| Story2 | DSlBS14 | Combination | X | 0.000464 | 7 | 12 | 10 | 6 |

Table 5.2 - Story Drifts (continued)

| Story | Output Case | Case Type | Direction | Drift | Label | X m | Y m | Z m |
|--------|-------------|-------------|-----------|----------|-------|-----|-----|-----|
| Story2 | DSIbS15 | Combination | X | 0.000464 | 7 | 12 | 10 | 6 |
| Story2 | DSIbS16 | Combination | X | 0.000464 | 7 | 12 | 10 | 6 |
| Story2 | DSIbS17 | Combination | X | 0.000332 | 7 | 12 | 10 | 6 |
| Story2 | DSIbS18 | Combination | X | 0.000332 | 7 | 12 | 10 | 6 |
| Story2 | DSIbS19 | Combination | X | 0.000332 | 7 | 12 | 10 | 6 |
| Story2 | DSIbS20 | Combination | X | 0.000332 | 7 | 12 | 10 | 6 |
| Story2 | DStIS1 | Combination | X | 0.000464 | 7 | 12 | 10 | 6 |
| Story2 | DStIS2 | Combination | X | 0.000624 | 7 | 12 | 10 | 6 |
| Story2 | DStIS3 | Combination | X | 0.000855 | 7 | 12 | 10 | 6 |
| Story2 | DStIS4 | Combination | X | 0.000346 | 8 | 0 | 10 | 6 |
| Story2 | DStIS4 | Combination | Y | 0.000206 | 14 | 6 | 0 | 6 |
| Story2 | DStIS5 | Combination | X | 0.000858 | 7 | 12 | 10 | 6 |
| Story2 | DStIS6 | Combination | X | 0.000271 | 8 | 0 | 10 | 6 |
| Story2 | DStIS6 | Combination | Y | 0.000223 | 14 | 6 | 0 | 6 |
| Story2 | DStIS7 | Combination | X | 0.000725 | 7 | 12 | 10 | 6 |
| Story2 | DStIS8 | Combination | X | 0.000267 | 8 | 0 | 10 | 6 |
| Story2 | DStIS9 | Combination | X | 0.003147 | 7 | 12 | 10 | 6 |
| Story2 | DStIS10 | Combination | X | 0.00338 | 8 | 0 | 10 | 6 |
| Story2 | DStIS11 | Combination | Y | 0.002973 | 14 | 6 | 0 | 6 |
| Story2 | DStIS12 | Combination | Y | 0.003202 | 2 | 6 | 20 | 6 |
| Story2 | DStIS13 | Combination | X | 0.003785 | 8 | 0 | 10 | 6 |
| Story2 | DStIS14 | Combination | X | 0.003811 | 8 | 0 | 10 | 6 |
| Story2 | DStIS15 | Combination | Y | 0.003452 | 14 | 6 | 0 | 6 |
| Story2 | DStIS16 | Combination | Y | 0.003716 | 2 | 6 | 20 | 6 |
| Story2 | DStIS17 | Combination | X | 0.003789 | 8 | 0 | 10 | 6 |
| Story2 | DStIS18 | Combination | X | 0.003808 | 8 | 0 | 10 | 6 |
| Story2 | DStIS19 | Combination | Y | 0.003384 | 14 | 6 | 0 | 6 |
| Story2 | DStIS20 | Combination | Y | 0.003656 | 2 | 6 | 20 | 6 |
| Story2 | DStID1 | Combination | X | 0.000332 | 7 | 12 | 10 | 6 |
| Story2 | DStID2 | Combination | X | 0.000432 | 7 | 12 | 10 | 6 |
| Story2 | DConS1 | Combination | X | 0.000464 | 7 | 12 | 10 | 6 |
| Story2 | DConS2 | Combination | X | 0.000624 | 7 | 12 | 10 | 6 |
| Story2 | DConS3 | Combination | X | 0.000855 | 7 | 12 | 10 | 6 |
| Story2 | DConS4 | Combination | X | 0.000346 | 8 | 0 | 10 | 6 |
| Story2 | DConS4 | Combination | Y | 0.000206 | 14 | 6 | 0 | 6 |
| Story2 | DConS5 | Combination | X | 0.000858 | 7 | 12 | 10 | 6 |
| Story2 | DConS6 | Combination | X | 0.000271 | 8 | 0 | 10 | 6 |
| Story2 | DConS6 | Combination | Y | 0.000223 | 14 | 6 | 0 | 6 |
| Story2 | DConS7 | Combination | X | 0.000725 | 7 | 12 | 10 | 6 |
| Story2 | DConS8 | Combination | X | 0.000267 | 8 | 0 | 10 | 6 |
| Story2 | DConS9 | Combination | X | 0.003147 | 7 | 12 | 10 | 6 |
| Story2 | DConS10 | Combination | X | 0.00338 | 8 | 0 | 10 | 6 |
| Story2 | DConS11 | Combination | Y | 0.002973 | 14 | 6 | 0 | 6 |
| Story2 | DConS12 | Combination | Y | 0.003202 | 2 | 6 | 20 | 6 |
| Story2 | DConS13 | Combination | X | 0.003785 | 8 | 0 | 10 | 6 |
| Story2 | DConS14 | Combination | X | 0.003811 | 8 | 0 | 10 | 6 |
| Story2 | DConS15 | Combination | Y | 0.003452 | 14 | 6 | 0 | 6 |
| Story2 | DConS16 | Combination | Y | 0.003716 | 2 | 6 | 20 | 6 |
| Story2 | DConS17 | Combination | X | 0.003789 | 8 | 0 | 10 | 6 |

Table 5.2 - Story Drifts (continued)

| Story | Output Case | Case Type | Direction | Drift | Label | X m | Y m | Z m |
|--------|-------------|-------------|-----------|----------|-------|-----|-----|-----|
| Story2 | DConS18 | Combination | X | 0.003808 | 8 | 0 | 10 | 6 |
| Story2 | DConS19 | Combination | Y | 0.003384 | 14 | 6 | 0 | 6 |
| Story2 | DConS20 | Combination | Y | 0.003656 | 2 | 6 | 20 | 6 |
| Story1 | Dead | LinStatic | X | 0.000401 | 7 | 12 | 10 | 3.2 |
| Story1 | Live | LinStatic | X | 0.000139 | 7 | 12 | 10 | 3.2 |
| Story1 | WIND | LinStatic | X | 0.000191 | 7 | 12 | 10 | 3.2 |
| Story1 | EQX | LinStatic | X | 0.001652 | 14 | 6 | 0 | 3.2 |
| Story1 | EQY | LinStatic | Y | 0.001112 | 8 | 0 | 10 | 3.2 |
| Story1 | DSlbS1 | Combination | X | 0.000561 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS2 | Combination | X | 0.000784 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS3 | Combination | X | 0.000877 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS4 | Combination | X | 0.00042 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS5 | Combination | X | 0.000828 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS6 | Combination | X | 0.000373 | 9 | 6 | 10 | 3.2 |
| Story1 | DSlbS7 | Combination | X | 0.000668 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS8 | Combination | X | 0.000268 | 9 | 6 | 10 | 3.2 |
| Story1 | DSlbS9 | Combination | X | 0.000649 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS10 | Combination | X | 0.000649 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS11 | Combination | X | 0.000649 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS12 | Combination | X | 0.000649 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS13 | Combination | X | 0.000561 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS14 | Combination | X | 0.000561 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS15 | Combination | X | 0.000561 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS16 | Combination | X | 0.000561 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS17 | Combination | X | 0.000401 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS18 | Combination | X | 0.000401 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS19 | Combination | X | 0.000401 | 7 | 12 | 10 | 3.2 |
| Story1 | DSlbS20 | Combination | X | 0.000401 | 7 | 12 | 10 | 3.2 |
| Story1 | DStlS1 | Combination | X | 0.000561 | 7 | 12 | 10 | 3.2 |
| Story1 | DStlS2 | Combination | X | 0.000784 | 7 | 12 | 10 | 3.2 |
| Story1 | DStlS3 | Combination | X | 0.000877 | 7 | 12 | 10 | 3.2 |
| Story1 | DStlS4 | Combination | X | 0.00042 | 7 | 12 | 10 | 3.2 |
| Story1 | DStlS5 | Combination | X | 0.000828 | 7 | 12 | 10 | 3.2 |
| Story1 | DStlS6 | Combination | X | 0.000373 | 9 | 6 | 10 | 3.2 |
| Story1 | DStlS7 | Combination | X | 0.000668 | 7 | 12 | 10 | 3.2 |
| Story1 | DStlS8 | Combination | X | 0.000268 | 9 | 6 | 10 | 3.2 |
| Story1 | DStlS9 | Combination | X | 0.002134 | 13 | 12 | 0 | 3.2 |
| Story1 | DStlS10 | Combination | X | 0.001844 | 15 | 0 | 0 | 3.2 |
| Story1 | DStlS11 | Combination | X | 0.000649 | 7 | 12 | 10 | 3.2 |
| Story1 | DStlS11 | Combination | Y | 0.001345 | 1 | 0 | 20 | 3.2 |
| Story1 | DStlS12 | Combination | X | 0.000648 | 7 | 12 | 10 | 3.2 |
| Story1 | DStlS12 | Combination | Y | 0.001339 | 15 | 0 | 0 | 3.2 |
| Story1 | DStlS13 | Combination | X | 0.002461 | 13 | 12 | 0 | 3.2 |
| Story1 | DStlS14 | Combination | X | 0.002178 | 15 | 0 | 0 | 3.2 |
| Story1 | DStlS15 | Combination | Y | 0.001567 | 1 | 0 | 20 | 3.2 |
| Story1 | DStlS16 | Combination | Y | 0.001561 | 15 | 0 | 0 | 3.2 |
| Story1 | DStlS17 | Combination | X | 0.002418 | 13 | 12 | 0 | 3.2 |
| Story1 | DStlS18 | Combination | X | 0.002216 | 15 | 0 | 0 | 3.2 |
| Story1 | DStlS19 | Combination | Y | 0.001564 | 1 | 0 | 20 | 3.2 |

Table 5.2 - Story Drifts (continued)

| Story | Output Case | Case Type | Direction | Drift | Label | X m | Y m | Z m |
|--------|-------------|-------------|-----------|----------|-------|-----|-----|-----|
| Story1 | DStlS20 | Combination | Y | 0.001559 | 15 | 0 | 0 | 3.2 |
| Story1 | DStlD1 | Combination | X | 0.000401 | 7 | 12 | 10 | 3.2 |
| Story1 | DStlD2 | Combination | X | 0.00054 | 7 | 12 | 10 | 3.2 |
| Story1 | DConS1 | Combination | X | 0.000561 | 7 | 12 | 10 | 3.2 |
| Story1 | DConS2 | Combination | X | 0.000784 | 7 | 12 | 10 | 3.2 |
| Story1 | DConS3 | Combination | X | 0.000877 | 7 | 12 | 10 | 3.2 |
| Story1 | DConS4 | Combination | X | 0.00042 | 7 | 12 | 10 | 3.2 |
| Story1 | DConS5 | Combination | X | 0.000828 | 7 | 12 | 10 | 3.2 |
| Story1 | DConS6 | Combination | X | 0.000373 | 9 | 6 | 10 | 3.2 |
| Story1 | DConS7 | Combination | X | 0.000668 | 7 | 12 | 10 | 3.2 |
| Story1 | DConS8 | Combination | X | 0.000268 | 9 | 6 | 10 | 3.2 |
| Story1 | DConS9 | Combination | X | 0.002134 | 13 | 12 | 0 | 3.2 |
| Story1 | DConS10 | Combination | X | 0.001844 | 15 | 0 | 0 | 3.2 |
| Story1 | DConS11 | Combination | X | 0.000649 | 7 | 12 | 10 | 3.2 |
| Story1 | DConS11 | Combination | Y | 0.001345 | 1 | 0 | 20 | 3.2 |
| Story1 | DConS12 | Combination | X | 0.000648 | 7 | 12 | 10 | 3.2 |
| Story1 | DConS12 | Combination | Y | 0.001339 | 15 | 0 | 0 | 3.2 |
| Story1 | DConS13 | Combination | X | 0.002461 | 13 | 12 | 0 | 3.2 |
| Story1 | DConS14 | Combination | X | 0.002178 | 15 | 0 | 0 | 3.2 |
| Story1 | DConS15 | Combination | Y | 0.001567 | 1 | 0 | 20 | 3.2 |
| Story1 | DConS16 | Combination | Y | 0.001561 | 15 | 0 | 0 | 3.2 |
| Story1 | DConS17 | Combination | X | 0.002418 | 13 | 12 | 0 | 3.2 |
| Story1 | DConS18 | Combination | X | 0.002216 | 15 | 0 | 0 | 3.2 |
| Story1 | DConS19 | Combination | Y | 0.001564 | 1 | 0 | 20 | 3.2 |
| Story1 | DConS20 | Combination | Y | 0.001559 | 15 | 0 | 0 | 3.2 |

Table 5.3 - Story Forces

| Story | Output Case | Case Type | Location | P kN | VX kN | VY kN | T kN-m | MX kN-m | MY kN-m |
|--------|-------------|-------------|----------|------------|----------|----------|-----------|-------------|-----------|
| Story2 | Dead | LinStatic | Top | -724.9361 | 0 | 0 | 0 | -7248.9293 | 4246.3051 |
| Story2 | Dead | LinStatic | Bottom | -371.3551 | 0 | 0 | 0 | -3721.8669 | 2124.8192 |
| Story2 | Live | LinStatic | Top | -113.9493 | 0 | 0 | 0 | -1139.4753 | 683.8111 |
| Story2 | Live | LinStatic | Bottom | -0.5906 | 0 | 0 | 0 | -5.889 | 3.6593 |
| Story2 | WIND | LinStatic | Top | -84.017 | -0.5627 | 0 | 5.6273 | -840.133 | 476.3288 |
| Story2 | WIND | LinStatic | Bottom | 0.1118 | -7.0342 | 0 | 70.3417 | 1.1543 | -1.9951 |
| Story2 | EQX | LinStatic | Top | 6.6734 | -82.1568 | 0 | 821.0788 | 67.0383 | 187.9671 |
| Story2 | EQX | LinStatic | Bottom | 6.6734 | -82.1568 | 0 | 821.0788 | 67.0383 | -42.0721 |
| Story2 | EQY | LinStatic | Top | 0.0029 | 0 | -82.1568 | -480.4742 | -212.0674 | -0.034 |
| Story2 | EQY | LinStatic | Bottom | 0.0029 | 0 | -82.1568 | -480.4742 | 17.9717 | -0.034 |
| Story2 | DSlB51 | Combination | Top | -1014.9106 | 0 | 0 | 0 | -10148.501 | 5944.8271 |
| Story2 | DSlB51 | Combination | Bottom | -519.8972 | 0 | 0 | 0 | -5210.6136 | 2974.7469 |
| Story2 | DSlB52 | Combination | Top | -1197.2294 | 0 | 0 | 0 | -11971.6615 | 7038.9249 |
| Story2 | DSlB52 | Combination | Bottom | -520.8422 | 0 | 0 | 0 | -5220.036 | 2980.6018 |
| Story2 | DSlB53 | Combination | Top | -1107.4828 | -0.6753 | 0 | 6.7528 | -11074.2452 | 6487.7341 |
| Story2 | DSlB53 | Combination | Bottom | -446.2008 | -8.441 | 0 | 84.4101 | -4471.9219 | 2551.7802 |
| Story2 | DSlB54 | Combination | Top | -905.8421 | 0.6753 | 0 | -6.7528 | -9057.9259 | 5344.5449 |
| Story2 | DSlB54 | Combination | Bottom | -446.469 | 8.441 | 0 | -84.4101 | -4474.6922 | 2556.5683 |
| Story2 | DSlB55 | Combination | Top | -1132.5343 | -0.7878 | 0 | 7.8783 | -11324.6872 | 6611.6875 |
| Story2 | DSlB55 | Combination | Bottom | -519.7407 | -9.8478 | 0 | 98.4784 | -5208.9976 | 2971.9538 |

Table 5.3 - Story Forces (continued)

| Story | Output Case | Case Type | Location | P kN | VX kN | VY kN | T kN-m | MX kN-m | MY kN-m |
|--------|-------------|-------------|----------|------------|----------|----------|-----------|-------------|------------|
| Story2 | DSIbS6 | Combination | Top | -897.2868 | 0.7878 | 0 | -7.8783 | -8972.3147 | 5277.9668 |
| Story2 | DSIbS6 | Combination | Bottom | -520.0537 | 9.8478 | 0 | -98.4784 | -5212.2296 | 2977.54 |
| Story2 | DSIbS7 | Combination | Top | -842.5598 | -0.7878 | 0 | 7.8783 | -8425.1155 | 4913.1655 |
| Story2 | DSIbS7 | Combination | Bottom | -371.1986 | -9.8478 | 0 | 98.4784 | -3720.2509 | 2122.0261 |
| Story2 | DSIbS8 | Combination | Top | -607.3124 | 0.7878 | 0 | -7.8783 | -6072.743 | 3579.4447 |
| Story2 | DSIbS8 | Combination | Bottom | -371.5116 | 9.8478 | 0 | -98.4784 | -3723.4829 | 2127.6123 |
| Story2 | DSIbS9 | Combination | Top | -1006.6624 | 0 | 0 | 0 | -10066.0855 | 5916.1395 |
| Story2 | DSIbS9 | Combination | Bottom | -446.3349 | 0 | 0 | 0 | -4473.3071 | 2554.1742 |
| Story2 | DSIbS10 | Combination | Top | -1006.6624 | 0 | 0 | 0 | -10066.0855 | 5916.1395 |
| Story2 | DSIbS10 | Combination | Bottom | -446.3349 | 0 | 0 | 0 | -4473.3071 | 2554.1742 |
| Story2 | DSIbS11 | Combination | Top | -1006.6624 | 0 | 0 | 0 | -10066.0855 | 5916.1395 |
| Story2 | DSIbS11 | Combination | Bottom | -446.3349 | 0 | 0 | 0 | -4473.3071 | 2554.1742 |
| Story2 | DSIbS12 | Combination | Top | -1006.6624 | 0 | 0 | 0 | -10066.0855 | 5916.1395 |
| Story2 | DSIbS12 | Combination | Bottom | -446.3349 | 0 | 0 | 0 | -4473.3071 | 2554.1742 |
| Story2 | DSIbS13 | Combination | Top | -1014.9106 | 0 | 0 | 0 | -10148.501 | 5944.8271 |
| Story2 | DSIbS13 | Combination | Bottom | -519.8972 | 0 | 0 | 0 | -5210.6136 | 2974.7469 |
| Story2 | DSIbS14 | Combination | Top | -1014.9106 | 0 | 0 | 0 | -10148.501 | 5944.8271 |
| Story2 | DSIbS14 | Combination | Bottom | -519.8972 | 0 | 0 | 0 | -5210.6136 | 2974.7469 |
| Story2 | DSIbS15 | Combination | Top | -1014.9106 | 0 | 0 | 0 | -10148.501 | 5944.8271 |
| Story2 | DSIbS15 | Combination | Bottom | -519.8972 | 0 | 0 | 0 | -5210.6136 | 2974.7469 |
| Story2 | DSIbS16 | Combination | Top | -1014.9106 | 0 | 0 | 0 | -10148.501 | 5944.8271 |
| Story2 | DSIbS16 | Combination | Bottom | -519.8972 | 0 | 0 | 0 | -5210.6136 | 2974.7469 |
| Story2 | DSIbS17 | Combination | Top | -724.9361 | 0 | 0 | 0 | -7248.9293 | 4246.3051 |
| Story2 | DSIbS17 | Combination | Bottom | -371.3551 | 0 | 0 | 0 | -3721.8669 | 2124.8192 |
| Story2 | DSIbS18 | Combination | Top | -724.9361 | 0 | 0 | 0 | -7248.9293 | 4246.3051 |
| Story2 | DSIbS18 | Combination | Bottom | -371.3551 | 0 | 0 | 0 | -3721.8669 | 2124.8192 |
| Story2 | DSIbS19 | Combination | Top | -724.9361 | 0 | 0 | 0 | -7248.9293 | 4246.3051 |
| Story2 | DSIbS19 | Combination | Bottom | -371.3551 | 0 | 0 | 0 | -3721.8669 | 2124.8192 |
| Story2 | DSIbS20 | Combination | Top | -724.9361 | 0 | 0 | 0 | -7248.9293 | 4246.3051 |
| Story2 | DSIbS20 | Combination | Bottom | -371.3551 | 0 | 0 | 0 | -3721.8669 | 2124.8192 |
| Story2 | DStI1 | Combination | Top | -1014.9106 | 0 | 0 | 0 | -10148.501 | 5944.8271 |
| Story2 | DStI1 | Combination | Bottom | -519.8972 | 0 | 0 | 0 | -5210.6136 | 2974.7469 |
| Story2 | DStI2 | Combination | Top | -1197.2294 | 0 | 0 | 0 | -11971.6615 | 7038.9249 |
| Story2 | DStI2 | Combination | Bottom | -520.8422 | 0 | 0 | 0 | -5220.036 | 2980.6018 |
| Story2 | DStI3 | Combination | Top | -1107.4828 | -0.6753 | 0 | 6.7528 | -11074.2452 | 6487.7341 |
| Story2 | DStI3 | Combination | Bottom | -446.2008 | -8.441 | 0 | 84.4101 | -4471.9219 | 2551.7802 |
| Story2 | DStI4 | Combination | Top | -905.8421 | 0.6753 | 0 | -6.7528 | -9057.9259 | 5344.5449 |
| Story2 | DStI4 | Combination | Bottom | -446.469 | 8.441 | 0 | -84.4101 | -4474.6922 | 2556.5683 |
| Story2 | DStI5 | Combination | Top | -1132.5343 | -0.7878 | 0 | 7.8783 | -11324.6872 | 6611.6875 |
| Story2 | DStI5 | Combination | Bottom | -519.7407 | -9.8478 | 0 | 98.4784 | -5208.9976 | 2971.9538 |
| Story2 | DStI6 | Combination | Top | -897.2868 | 0.7878 | 0 | -7.8783 | -8972.3147 | 5277.9668 |
| Story2 | DStI6 | Combination | Bottom | -520.0537 | 9.8478 | 0 | -98.4784 | -5212.2296 | 2977.54 |
| Story2 | DStI7 | Combination | Top | -842.5598 | -0.7878 | 0 | 7.8783 | -8425.1155 | 4913.1655 |
| Story2 | DStI7 | Combination | Bottom | -371.1986 | -9.8478 | 0 | 98.4784 | -3720.2509 | 2122.0261 |
| Story2 | DStI8 | Combination | Top | -607.3124 | 0.7878 | 0 | -7.8783 | -6072.743 | 3579.4447 |
| Story2 | DStI8 | Combination | Bottom | -371.5116 | 9.8478 | 0 | -98.4784 | -3723.4829 | 2127.6123 |
| Story2 | DStI9 | Combination | Top | -998.6543 | -98.5882 | 0 | 985.2945 | -9985.6395 | 6141.7 |
| Story2 | DStI9 | Combination | Bottom | -438.3268 | -98.5882 | 0 | 985.2945 | -4392.8611 | 2503.6878 |
| Story2 | DStI10 | Combination | Top | -1014.6706 | 98.5882 | 0 | -985.2945 | -10146.5315 | 5690.5789 |

Table 5.3 - Story Forces (continued)

| Story | Output Case | Case Type | Location | P kN | VX kN | VY kN | T kN-m | MX kN-m | MY kN-m |
|--------|-------------|-------------|----------|------------|-----------|-----------|------------|-------------|------------|
| Story2 | DStlS10 | Combination | Bottom | -454.343 | 98.5882 | 0 | -985.2945 | -4553.753 | 2604.6607 |
| Story2 | DStlS11 | Combination | Top | -1006.6589 | 0 | -98.5882 | -576.569 | -10320.5664 | 5916.0986 |
| Story2 | DStlS11 | Combination | Bottom | -446.3314 | 0 | -98.5882 | -576.569 | -4451.741 | 2554.1334 |
| Story2 | DStlS12 | Combination | Top | -1006.6659 | 0 | 98.5882 | 576.569 | -9811.6046 | 5916.1803 |
| Story2 | DStlS12 | Combination | Bottom | -446.3384 | 0 | 98.5882 | 576.569 | -4494.8731 | 2554.2151 |
| Story2 | DStlS13 | Combination | Top | -1005.5677 | -115.0196 | 0 | 1149.5103 | -10054.6473 | 6207.9811 |
| Story2 | DStlS13 | Combination | Bottom | -510.5544 | -115.0196 | 0 | 1149.5103 | -5116.76 | 2915.846 |
| Story2 | DStlS14 | Combination | Top | -1024.2534 | 115.0196 | 0 | -1149.5103 | -10242.3546 | 5681.6732 |
| Story2 | DStlS14 | Combination | Bottom | -529.24 | 115.0196 | 0 | -1149.5103 | -5304.4673 | 3033.6478 |
| Story2 | DStlS15 | Combination | Top | -1014.9065 | 0 | -115.0196 | -672.6639 | -10445.3954 | 5944.7795 |
| Story2 | DStlS15 | Combination | Bottom | -519.8931 | 0 | -115.0196 | -672.6639 | -5185.4532 | 2974.6993 |
| Story2 | DStlS16 | Combination | Top | -1014.9146 | 0 | 115.0196 | 672.6639 | -9851.6066 | 5944.8748 |
| Story2 | DStlS16 | Combination | Bottom | -519.9013 | 0 | 115.0196 | 672.6639 | -5235.7741 | 2974.7945 |
| Story2 | DStlS17 | Combination | Top | -715.5933 | -115.0196 | 0 | 1149.5103 | -7155.0756 | 4509.459 |
| Story2 | DStlS17 | Combination | Bottom | -362.0123 | -115.0196 | 0 | 1149.5103 | -3628.0132 | 2065.9183 |
| Story2 | DStlS18 | Combination | Top | -734.2789 | 115.0196 | 0 | -1149.5103 | -7342.7829 | 3983.1512 |
| Story2 | DStlS18 | Combination | Bottom | -380.698 | 115.0196 | 0 | -1149.5103 | -3815.7205 | 2183.7201 |
| Story2 | DStlS19 | Combination | Top | -724.932 | 0 | -115.0196 | -672.6639 | -7545.8237 | 4246.2575 |
| Story2 | DStlS19 | Combination | Bottom | -371.3511 | 0 | -115.0196 | -672.6639 | -3696.7064 | 2124.7716 |
| Story2 | DStlS20 | Combination | Top | -724.9402 | 0 | 115.0196 | 672.6639 | -6952.0349 | 4246.3527 |
| Story2 | DStlS20 | Combination | Bottom | -371.3592 | 0 | 115.0196 | 672.6639 | -3747.0273 | 2124.8668 |
| Story2 | DStlD1 | Combination | Top | -724.9361 | 0 | 0 | 0 | -7248.9293 | 4246.3051 |
| Story2 | DStlD1 | Combination | Bottom | -371.3551 | 0 | 0 | 0 | -3721.8669 | 2124.8192 |
| Story2 | DStlD2 | Combination | Top | -838.8854 | 0 | 0 | 0 | -8388.4046 | 4930.1162 |
| Story2 | DStlD2 | Combination | Bottom | -371.9458 | 0 | 0 | 0 | -3727.7559 | 2128.4785 |
| Story2 | DConS1 | Combination | Top | -1014.9106 | 0 | 0 | 0 | -10148.501 | 5944.8271 |
| Story2 | DConS1 | Combination | Bottom | -519.8972 | 0 | 0 | 0 | -5210.6136 | 2974.7469 |
| Story2 | DConS2 | Combination | Top | -1197.2294 | 0 | 0 | 0 | -11971.6615 | 7038.9249 |
| Story2 | DConS2 | Combination | Bottom | -520.8422 | 0 | 0 | 0 | -5220.036 | 2980.6018 |
| Story2 | DConS3 | Combination | Top | -1107.4828 | -0.6753 | 0 | 6.7528 | -11074.2452 | 6487.7341 |
| Story2 | DConS3 | Combination | Bottom | -446.2008 | -8.441 | 0 | 84.4101 | -4471.9219 | 2551.7802 |
| Story2 | DConS4 | Combination | Top | -905.8421 | 0.6753 | 0 | -6.7528 | -9057.9259 | 5344.5449 |
| Story2 | DConS4 | Combination | Bottom | -446.469 | 8.441 | 0 | -84.4101 | -4474.6922 | 2556.5683 |
| Story2 | DConS5 | Combination | Top | -1132.5343 | -0.7878 | 0 | 7.8783 | -11324.6872 | 6611.6875 |
| Story2 | DConS5 | Combination | Bottom | -519.7407 | -9.8478 | 0 | 98.4784 | -5208.9976 | 2971.9538 |
| Story2 | DConS6 | Combination | Top | -897.2868 | 0.7878 | 0 | -7.8783 | -8972.3147 | 5277.9668 |
| Story2 | DConS6 | Combination | Bottom | -520.0537 | 9.8478 | 0 | -98.4784 | -5212.2296 | 2977.54 |
| Story2 | DConS7 | Combination | Top | -842.5598 | -0.7878 | 0 | 7.8783 | -8425.1155 | 4913.1655 |
| Story2 | DConS7 | Combination | Bottom | -371.1986 | -9.8478 | 0 | 98.4784 | -3720.2509 | 2122.0261 |
| Story2 | DConS8 | Combination | Top | -607.3124 | 0.7878 | 0 | -7.8783 | -6072.743 | 3579.4447 |
| Story2 | DConS8 | Combination | Bottom | -371.5116 | 9.8478 | 0 | -98.4784 | -3723.4829 | 2127.6123 |
| Story2 | DConS9 | Combination | Top | -998.6543 | -98.5882 | 0 | 985.2945 | -9985.6395 | 6141.7 |
| Story2 | DConS9 | Combination | Bottom | -438.3268 | -98.5882 | 0 | 985.2945 | -4392.8611 | 2503.6878 |
| Story2 | DConS10 | Combination | Top | -1014.6706 | 98.5882 | 0 | -985.2945 | -10146.5315 | 5690.5789 |
| Story2 | DConS10 | Combination | Bottom | -454.343 | 98.5882 | 0 | -985.2945 | -4553.753 | 2604.6607 |
| Story2 | DConS11 | Combination | Top | -1006.6589 | 0 | -98.5882 | -576.569 | -10320.5664 | 5916.0986 |
| Story2 | DConS11 | Combination | Bottom | -446.3314 | 0 | -98.5882 | -576.569 | -4451.741 | 2554.1334 |
| Story2 | DConS12 | Combination | Top | -1006.6659 | 0 | 98.5882 | 576.569 | -9811.6046 | 5916.1803 |
| Story2 | DConS12 | Combination | Bottom | -446.3384 | 0 | 98.5882 | 576.569 | -4494.8731 | 2554.2151 |

Table 5.3 - Story Forces (continued)

| Story | Output Case | Case Type | Location | P kN | VX kN | VY kN | T kN-m | MX kN-m | MY kN-m |
|--------|-------------|-------------|----------|------------|-----------|-----------|------------|-------------|------------|
| Story2 | DConS13 | Combination | Top | -1005.5677 | -115.0196 | 0 | 1149.5103 | -10054.6473 | 6207.9811 |
| Story2 | DConS13 | Combination | Bottom | -510.5544 | -115.0196 | 0 | 1149.5103 | -5116.76 | 2915.846 |
| Story2 | DConS14 | Combination | Top | -1024.2534 | 115.0196 | 0 | -1149.5103 | -10242.3546 | 5681.6732 |
| Story2 | DConS14 | Combination | Bottom | -529.24 | 115.0196 | 0 | -1149.5103 | -5304.4673 | 3033.6478 |
| Story2 | DConS15 | Combination | Top | -1014.9065 | 0 | -115.0196 | -672.6639 | -10445.3954 | 5944.7795 |
| Story2 | DConS15 | Combination | Bottom | -519.8931 | 0 | -115.0196 | -672.6639 | -5185.4532 | 2974.6993 |
| Story2 | DConS16 | Combination | Top | -1014.9146 | 0 | 115.0196 | 672.6639 | -9851.6066 | 5944.8748 |
| Story2 | DConS16 | Combination | Bottom | -519.9013 | 0 | 115.0196 | 672.6639 | -5235.7741 | 2974.7945 |
| Story2 | DConS17 | Combination | Top | -715.5933 | -115.0196 | 0 | 1149.5103 | -7155.0756 | 4509.459 |
| Story2 | DConS17 | Combination | Bottom | -362.0123 | -115.0196 | 0 | 1149.5103 | -3628.0132 | 2065.9183 |
| Story2 | DConS18 | Combination | Top | -734.2789 | 115.0196 | 0 | -1149.5103 | -7342.7829 | 3983.1512 |
| Story2 | DConS18 | Combination | Bottom | -380.698 | 115.0196 | 0 | -1149.5103 | -3815.7205 | 2183.7201 |
| Story2 | DConS19 | Combination | Top | -724.932 | 0 | -115.0196 | -672.6639 | -7545.8237 | 4246.2575 |
| Story2 | DConS19 | Combination | Bottom | -371.3511 | 0 | -115.0196 | -672.6639 | -3696.7064 | 2124.7716 |
| Story2 | DConS20 | Combination | Top | -724.9402 | 0 | 115.0196 | 672.6639 | -6952.0349 | 4246.3527 |
| Story2 | DConS20 | Combination | Bottom | -371.3592 | 0 | 115.0196 | 672.6639 | -3747.0273 | 2124.8668 |
| Story1 | Dead | LinStatic | Top | 866.1848 | 0 | 0 | 0 | 8653.5322 | -5102.1676 |
| Story1 | Dead | LinStatic | Bottom | 941.1626 | 0 | 0 | 0 | 9403.3107 | -5552.0348 |
| Story1 | Live | LinStatic | Top | -0.5906 | 0 | 0 | 0 | -5.889 | 3.6593 |
| Story1 | Live | LinStatic | Bottom | -0.5906 | 0 | 0 | 0 | -5.889 | 3.6593 |
| Story1 | WIND | LinStatic | Top | 0.1118 | -7.0342 | 0 | 70.3417 | 1.1543 | -1.9951 |
| Story1 | WIND | LinStatic | Bottom | 0.1118 | -7.0342 | 0 | 70.3417 | 1.1543 | -24.5044 |
| Story1 | EQX | LinStatic | Top | 6.6734 | -92.8785 | 0 | 928.9408 | 67.0383 | -42.0721 |
| Story1 | EQX | LinStatic | Bottom | 6.6734 | -92.8785 | 0 | 928.9408 | 67.0383 | -339.2832 |
| Story1 | EQY | LinStatic | Top | 0.0029 | 0 | -92.8785 | -537.4328 | 17.9717 | -0.034 |
| Story1 | EQY | LinStatic | Bottom | 0.0029 | 0 | -92.8785 | -537.4328 | 315.1829 | -0.034 |
| Story1 | DSIbS1 | Combination | Top | 1212.6587 | 0 | 0 | 0 | 12114.945 | -7143.0347 |
| Story1 | DSIbS1 | Combination | Bottom | 1317.6277 | 0 | 0 | 0 | 13164.635 | -7772.8487 |
| Story1 | DSIbS2 | Combination | Top | 1211.7137 | 0 | 0 | 0 | 12105.5226 | -7137.1798 |
| Story1 | DSIbS2 | Combination | Bottom | 1316.6827 | 0 | 0 | 0 | 13155.2126 | -7766.9937 |
| Story1 | DSIbS3 | Combination | Top | 1038.8471 | -8.441 | 0 | 84.4101 | 10378.557 | -6120.604 |
| Story1 | DSIbS3 | Combination | Bottom | 1128.8205 | -8.441 | 0 | 84.4101 | 11278.2912 | -6687.4558 |
| Story1 | DSIbS4 | Combination | Top | 1038.5788 | 8.441 | 0 | -84.4101 | 10375.7867 | -6115.8159 |
| Story1 | DSIbS4 | Combination | Bottom | 1128.5523 | 8.441 | 0 | -84.4101 | 11275.5209 | -6628.6452 |
| Story1 | DSIbS5 | Combination | Top | 1212.8152 | -9.8478 | 0 | 98.4784 | 12116.5611 | -7145.8278 |
| Story1 | DSIbS5 | Combination | Bottom | 1317.7842 | -9.8478 | 0 | 98.4784 | 13166.251 | -7807.1548 |
| Story1 | DSIbS6 | Combination | Top | 1212.5022 | 9.8478 | 0 | -98.4784 | 12113.329 | -7140.2416 |
| Story1 | DSIbS6 | Combination | Bottom | 1317.4712 | 9.8478 | 0 | -98.4784 | 13163.019 | -7738.5425 |
| Story1 | DSIbS7 | Combination | Top | 866.3413 | -9.8478 | 0 | 98.4784 | 8655.1482 | -5104.9607 |
| Story1 | DSIbS7 | Combination | Bottom | 941.3191 | -9.8478 | 0 | 98.4784 | 9404.9267 | -5586.3409 |
| Story1 | DSIbS8 | Combination | Top | 866.0283 | 9.8478 | 0 | -98.4784 | 8651.9162 | -5099.3745 |
| Story1 | DSIbS8 | Combination | Bottom | 941.0061 | 9.8478 | 0 | -98.4784 | 9401.6947 | -5517.7286 |
| Story1 | DSIbS9 | Combination | Top | 1038.713 | 0 | 0 | 0 | 10377.1718 | -6118.21 |
| Story1 | DSIbS9 | Combination | Bottom | 1128.6864 | 0 | 0 | 0 | 11276.906 | -6658.0505 |
| Story1 | DSIbS10 | Combination | Top | 1038.713 | 0 | 0 | 0 | 10377.1718 | -6118.21 |
| Story1 | DSIbS10 | Combination | Bottom | 1128.6864 | 0 | 0 | 0 | 11276.906 | -6658.0505 |
| Story1 | DSIbS11 | Combination | Top | 1038.713 | 0 | 0 | 0 | 10377.1718 | -6118.21 |
| Story1 | DSIbS11 | Combination | Bottom | 1128.6864 | 0 | 0 | 0 | 11276.906 | -6658.0505 |
| Story1 | DSIbS12 | Combination | Top | 1038.713 | 0 | 0 | 0 | 10377.1718 | -6118.21 |

Table 5.3 - Story Forces (continued)

| Story | Output Case | Case Type | Location | P kN | VX kN | VY kN | T kN-m | MX kN-m | MY kN-m |
|--------|-------------|-------------|----------|-----------|-----------|-----------|------------|------------|------------|
| Story1 | DSIbS12 | Combination | Bottom | 1128.6864 | 0 | 0 | 0 | 11276.906 | -6658.0505 |
| Story1 | DSIbS13 | Combination | Top | 1212.6587 | 0 | 0 | 0 | 12114.945 | -7143.0347 |
| Story1 | DSIbS13 | Combination | Bottom | 1317.6277 | 0 | 0 | 0 | 13164.635 | -7772.8487 |
| Story1 | DSIbS14 | Combination | Top | 1212.6587 | 0 | 0 | 0 | 12114.945 | -7143.0347 |
| Story1 | DSIbS14 | Combination | Bottom | 1317.6277 | 0 | 0 | 0 | 13164.635 | -7772.8487 |
| Story1 | DSIbS15 | Combination | Top | 1212.6587 | 0 | 0 | 0 | 12114.945 | -7143.0347 |
| Story1 | DSIbS15 | Combination | Bottom | 1317.6277 | 0 | 0 | 0 | 13164.635 | -7772.8487 |
| Story1 | DSIbS16 | Combination | Top | 1212.6587 | 0 | 0 | 0 | 12114.945 | -7143.0347 |
| Story1 | DSIbS16 | Combination | Bottom | 1317.6277 | 0 | 0 | 0 | 13164.635 | -7772.8487 |
| Story1 | DSIbS17 | Combination | Top | 866.1848 | 0 | 0 | 0 | 8653.5322 | -5102.1676 |
| Story1 | DSIbS17 | Combination | Bottom | 941.1626 | 0 | 0 | 0 | 9403.3107 | -5552.0348 |
| Story1 | DSIbS18 | Combination | Top | 866.1848 | 0 | 0 | 0 | 8653.5322 | -5102.1676 |
| Story1 | DSIbS18 | Combination | Bottom | 941.1626 | 0 | 0 | 0 | 9403.3107 | -5552.0348 |
| Story1 | DSIbS19 | Combination | Top | 866.1848 | 0 | 0 | 0 | 8653.5322 | -5102.1676 |
| Story1 | DSIbS19 | Combination | Bottom | 941.1626 | 0 | 0 | 0 | 9403.3107 | -5552.0348 |
| Story1 | DSIbS20 | Combination | Top | 866.1848 | 0 | 0 | 0 | 8653.5322 | -5102.1676 |
| Story1 | DSIbS20 | Combination | Bottom | 941.1626 | 0 | 0 | 0 | 9403.3107 | -5552.0348 |
| Story1 | DStIS1 | Combination | Top | 1212.6587 | 0 | 0 | 0 | 12114.945 | -7143.0347 |
| Story1 | DStIS1 | Combination | Bottom | 1317.6277 | 0 | 0 | 0 | 13164.635 | -7772.8487 |
| Story1 | DStIS2 | Combination | Top | 1211.7137 | 0 | 0 | 0 | 12105.5226 | -7137.1798 |
| Story1 | DStIS2 | Combination | Bottom | 1316.6827 | 0 | 0 | 0 | 13155.2126 | -7766.9937 |
| Story1 | DStIS3 | Combination | Top | 1038.8471 | -8.441 | 0 | 84.4101 | 10378.557 | -6120.604 |
| Story1 | DStIS3 | Combination | Bottom | 1128.8205 | -8.441 | 0 | 84.4101 | 11278.2912 | -6687.4558 |
| Story1 | DStIS4 | Combination | Top | 1038.5788 | 8.441 | 0 | -84.4101 | 10375.7867 | -6115.8159 |
| Story1 | DStIS4 | Combination | Bottom | 1128.5523 | 8.441 | 0 | -84.4101 | 11275.5209 | -6628.6452 |
| Story1 | DStIS5 | Combination | Top | 1212.8152 | -9.8478 | 0 | 98.4784 | 12116.5611 | -7145.8278 |
| Story1 | DStIS5 | Combination | Bottom | 1317.7842 | -9.8478 | 0 | 98.4784 | 13166.251 | -7807.1548 |
| Story1 | DStIS6 | Combination | Top | 1212.5022 | 9.8478 | 0 | -98.4784 | 12113.329 | -7140.2416 |
| Story1 | DStIS6 | Combination | Bottom | 1317.4712 | 9.8478 | 0 | -98.4784 | 13163.019 | -7738.5425 |
| Story1 | DStIS7 | Combination | Top | 866.3413 | -9.8478 | 0 | 98.4784 | 8655.1482 | -5104.9607 |
| Story1 | DStIS7 | Combination | Bottom | 941.3191 | -9.8478 | 0 | 98.4784 | 9404.9267 | -5586.3409 |
| Story1 | DStIS8 | Combination | Top | 866.0283 | 9.8478 | 0 | -98.4784 | 8651.9162 | -5099.3745 |
| Story1 | DStIS8 | Combination | Bottom | 941.0061 | 9.8478 | 0 | -98.4784 | 9401.6947 | -5517.7286 |
| Story1 | DStIS9 | Combination | Top | 1046.7211 | -111.4542 | 0 | 1114.729 | 10457.6178 | -6168.6964 |
| Story1 | DStIS9 | Combination | Bottom | 1136.6945 | -111.4542 | 0 | 1114.729 | 11357.352 | -7065.1904 |
| Story1 | DStIS10 | Combination | Top | 1030.7048 | 111.4542 | 0 | -1114.729 | 10296.7258 | -6067.7235 |
| Story1 | DStIS10 | Combination | Bottom | 1120.6783 | 111.4542 | 0 | -1114.729 | 11196.4601 | -6250.9106 |
| Story1 | DStIS11 | Combination | Top | 1038.7165 | 0 | -111.4542 | -644.9194 | 10398.7379 | -6118.2508 |
| Story1 | DStIS11 | Combination | Bottom | 1128.6899 | 0 | -111.4542 | -644.9194 | 11655.1256 | -6658.0913 |
| Story1 | DStIS12 | Combination | Top | 1038.7095 | 0 | 111.4542 | 644.9194 | 10355.6057 | -6118.1691 |
| Story1 | DStIS12 | Combination | Bottom | 1128.6829 | 0 | 111.4542 | 644.9194 | 10898.6865 | -6658.0097 |
| Story1 | DStIS13 | Combination | Top | 1222.0015 | -130.0299 | 0 | 1300.5172 | 12208.7987 | -7201.9356 |
| Story1 | DStIS13 | Combination | Bottom | 1326.9705 | -130.0299 | 0 | 1300.5172 | 13258.4886 | -8247.8452 |
| Story1 | DStIS14 | Combination | Top | 1203.3159 | 130.0299 | 0 | -1300.5172 | 12021.0914 | -7084.1338 |
| Story1 | DStIS14 | Combination | Bottom | 1308.2849 | 130.0299 | 0 | -1300.5172 | 13070.7813 | -7297.8521 |
| Story1 | DStIS15 | Combination | Top | 1212.6628 | 0 | -130.0299 | -752.4059 | 12140.1055 | -7143.0823 |
| Story1 | DStIS15 | Combination | Bottom | 1317.6318 | 0 | -130.0299 | -752.4059 | 13605.8911 | -7772.8963 |
| Story1 | DStIS16 | Combination | Top | 1212.6546 | 0 | 130.0299 | 752.4059 | 12089.7846 | -7142.9871 |
| Story1 | DStIS16 | Combination | Bottom | 1317.6236 | 0 | 130.0299 | 752.4059 | 12723.3789 | -7772.801 |

Table 5.3 - Story Forces (continued)

| Story | Output Case | Case Type | Location | P kN | VX kN | VY kN | T kN-m | MX kN-m | MY kN-m |
|--------|-------------|-------------|----------|-----------|-----------|-----------|------------|------------|------------|
| Story1 | DStlS17 | Combination | Top | 875.5276 | -130.0299 | 0 | 1300.5172 | 8747.3858 | -5161.0685 |
| Story1 | DStlS17 | Combination | Bottom | 950.5054 | -130.0299 | 0 | 1300.5172 | 9497.1644 | -6027.0313 |
| Story1 | DStlS18 | Combination | Top | 856.842 | 130.0299 | 0 | -1300.5172 | 8559.6785 | -5043.2668 |
| Story1 | DStlS18 | Combination | Bottom | 931.8198 | 130.0299 | 0 | -1300.5172 | 9309.4571 | -5077.0382 |
| Story1 | DStlS19 | Combination | Top | 866.1889 | 0 | -130.0299 | -752.4059 | 8678.6926 | -5102.2153 |
| Story1 | DStlS19 | Combination | Bottom | 941.1667 | 0 | -130.0299 | -752.4059 | 9844.5668 | -5552.0824 |
| Story1 | DStlS20 | Combination | Top | 866.1807 | 0 | 130.0299 | 752.4059 | 8628.3717 | -5102.12 |
| Story1 | DStlS20 | Combination | Bottom | 941.1585 | 0 | 130.0299 | 752.4059 | 8962.0546 | -5551.9871 |
| Story1 | DStlD1 | Combination | Top | 866.1848 | 0 | 0 | 0 | 8653.5322 | -5102.1676 |
| Story1 | DStlD1 | Combination | Bottom | 941.1626 | 0 | 0 | 0 | 9403.3107 | -5552.0348 |
| Story1 | DStlD2 | Combination | Top | 865.5941 | 0 | 0 | 0 | 8647.6432 | -5098.5083 |
| Story1 | DStlD2 | Combination | Bottom | 940.572 | 0 | 0 | 0 | 9397.4217 | -5548.3754 |
| Story1 | DConS1 | Combination | Top | 1212.6587 | 0 | 0 | 0 | 12114.945 | -7143.0347 |
| Story1 | DConS1 | Combination | Bottom | 1317.6277 | 0 | 0 | 0 | 13164.635 | -7772.8487 |
| Story1 | DConS2 | Combination | Top | 1211.7137 | 0 | 0 | 0 | 12105.5226 | -7137.1798 |
| Story1 | DConS2 | Combination | Bottom | 1316.6827 | 0 | 0 | 0 | 13155.2126 | -7766.9937 |
| Story1 | DConS3 | Combination | Top | 1038.8471 | -8.441 | 0 | 84.4101 | 10378.557 | -6120.604 |
| Story1 | DConS3 | Combination | Bottom | 1128.8205 | -8.441 | 0 | 84.4101 | 11278.2912 | -6687.4558 |
| Story1 | DConS4 | Combination | Top | 1038.5788 | 8.441 | 0 | -84.4101 | 10375.7867 | -6115.8159 |
| Story1 | DConS4 | Combination | Bottom | 1128.5523 | 8.441 | 0 | -84.4101 | 11275.5209 | -6628.6452 |
| Story1 | DConS5 | Combination | Top | 1212.8152 | -9.8478 | 0 | 98.4784 | 12116.5611 | -7145.8278 |
| Story1 | DConS5 | Combination | Bottom | 1317.7842 | -9.8478 | 0 | 98.4784 | 13166.251 | -7807.1548 |
| Story1 | DConS6 | Combination | Top | 1212.5022 | 9.8478 | 0 | -98.4784 | 12113.329 | -7140.2416 |
| Story1 | DConS6 | Combination | Bottom | 1317.4712 | 9.8478 | 0 | -98.4784 | 13163.019 | -7738.5425 |
| Story1 | DConS7 | Combination | Top | 866.3413 | -9.8478 | 0 | 98.4784 | 8655.1482 | -5104.9607 |
| Story1 | DConS7 | Combination | Bottom | 941.3191 | -9.8478 | 0 | 98.4784 | 9404.9267 | -5586.3409 |
| Story1 | DConS8 | Combination | Top | 866.0283 | 9.8478 | 0 | -98.4784 | 8651.9162 | -5099.3745 |
| Story1 | DConS8 | Combination | Bottom | 941.0061 | 9.8478 | 0 | -98.4784 | 9401.6947 | -5517.7286 |
| Story1 | DConS9 | Combination | Top | 1046.7211 | -111.4542 | 0 | 1114.729 | 10457.6178 | -6168.6964 |
| Story1 | DConS9 | Combination | Bottom | 1136.6945 | -111.4542 | 0 | 1114.729 | 11357.352 | -7065.1904 |
| Story1 | DConS10 | Combination | Top | 1030.7048 | 111.4542 | 0 | -1114.729 | 10296.7258 | -6067.7235 |
| Story1 | DConS10 | Combination | Bottom | 1120.6783 | 111.4542 | 0 | -1114.729 | 11196.4601 | -6250.9106 |
| Story1 | DConS11 | Combination | Top | 1038.7165 | 0 | -111.4542 | -644.9194 | 10398.7379 | -6118.2508 |
| Story1 | DConS11 | Combination | Bottom | 1128.6899 | 0 | -111.4542 | -644.9194 | 11655.1256 | -6658.0913 |
| Story1 | DConS12 | Combination | Top | 1038.7095 | 0 | 111.4542 | 644.9194 | 10355.6057 | -6118.1691 |
| Story1 | DConS12 | Combination | Bottom | 1128.6829 | 0 | 111.4542 | 644.9194 | 10898.6865 | -6658.0097 |
| Story1 | DConS13 | Combination | Top | 1222.0015 | -130.0299 | 0 | 1300.5172 | 12208.7987 | -7201.9356 |
| Story1 | DConS13 | Combination | Bottom | 1326.9705 | -130.0299 | 0 | 1300.5172 | 13258.4886 | -8247.8452 |
| Story1 | DConS14 | Combination | Top | 1203.3159 | 130.0299 | 0 | -1300.5172 | 12021.0914 | -7084.1338 |
| Story1 | DConS14 | Combination | Bottom | 1308.2849 | 130.0299 | 0 | -1300.5172 | 13070.7813 | -7297.8521 |
| Story1 | DConS15 | Combination | Top | 1212.6628 | 0 | -130.0299 | -752.4059 | 12140.1055 | -7143.0823 |
| Story1 | DConS15 | Combination | Bottom | 1317.6318 | 0 | -130.0299 | -752.4059 | 13605.8911 | -7772.8963 |
| Story1 | DConS16 | Combination | Top | 1212.6546 | 0 | 130.0299 | 752.4059 | 12089.7846 | -7142.9871 |
| Story1 | DConS16 | Combination | Bottom | 1317.6236 | 0 | 130.0299 | 752.4059 | 12723.3789 | -7772.801 |
| Story1 | DConS17 | Combination | Top | 875.5276 | -130.0299 | 0 | 1300.5172 | 8747.3858 | -5161.0685 |
| Story1 | DConS17 | Combination | Bottom | 950.5054 | -130.0299 | 0 | 1300.5172 | 9497.1644 | -6027.0313 |
| Story1 | DConS18 | Combination | Top | 856.842 | 130.0299 | 0 | -1300.5172 | 8559.6785 | -5043.2668 |
| Story1 | DConS18 | Combination | Bottom | 931.8198 | 130.0299 | 0 | -1300.5172 | 9309.4571 | -5077.0382 |
| Story1 | DConS19 | Combination | Top | 866.1889 | 0 | -130.0299 | -752.4059 | 8678.6926 | -5102.2153 |

Table 5.3 - Story Forces (continued)

| Story | Output Case | Case Type | Location | P kN | VX kN | VY kN | T kN-m | MX kN-m | MY kN-m |
|--------|-------------|-------------|----------|----------|----------|-----------|-----------|------------|------------|
| Story1 | DConS19 | Combination | Bottom | 941.1667 | 0 | -130.0299 | -752.4059 | 9844.5668 | -5552.0824 |
| Story1 | DConS20 | Combination | Top | 866.1807 | 0 | 130.0299 | 752.4059 | 8628.3717 | -5102.12 |
| Story1 | DConS20 | Combination | Bottom | 941.1585 | 0 | 130.0299 | 752.4059 | 8962.0546 | -5551.9871 |

5.3 Point Results

Table 5.4 - Joint Reactions

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|--------|-------|-------------|-------------|-------------|----------|----------|----------|------------|------------|------------|
| Story2 | 1 | 29 | Dead | LinStatic | 0 | 0 | 139.1473 | 0 | 0 | 0 |
| Story2 | 1 | 29 | Live | LinStatic | 0 | 0 | 21.0606 | 0 | 0 | 0 |
| Story2 | 1 | 29 | WIND | LinStatic | 0 | 0 | 15.2313 | 0 | 0 | 0 |
| Story2 | 1 | 29 | EQX | LinStatic | 0 | 0 | -8.48 | 0 | 0 | 0 |
| Story2 | 1 | 29 | EQY | LinStatic | 0 | 0 | 5.9147 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS1 | Combination | 0 | 0 | 194.8062 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS2 | Combination | 0 | 0 | 228.5032 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS3 | Combination | 0 | 0 | 210.527 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS4 | Combination | 0 | 0 | 173.972 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS5 | Combination | 0 | 0 | 216.13 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS6 | Combination | 0 | 0 | 173.4824 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS7 | Combination | 0 | 0 | 160.4711 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS8 | Combination | 0 | 0 | 117.8235 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS9 | Combination | 0 | 0 | 192.2495 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS10 | Combination | 0 | 0 | 192.2495 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS11 | Combination | 0 | 0 | 192.2495 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS12 | Combination | 0 | 0 | 192.2495 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS13 | Combination | 0 | 0 | 194.8062 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS14 | Combination | 0 | 0 | 194.8062 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS15 | Combination | 0 | 0 | 194.8062 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS16 | Combination | 0 | 0 | 194.8062 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS17 | Combination | 0 | 0 | 139.1473 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS18 | Combination | 0 | 0 | 139.1473 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS19 | Combination | 0 | 0 | 139.1473 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DSIbS20 | Combination | 0 | 0 | 139.1473 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS1 | Combination | 0 | 0 | 194.8062 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS2 | Combination | 0 | 0 | 228.5032 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS3 | Combination | 0 | 0 | 210.527 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS4 | Combination | 0 | 0 | 173.972 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS5 | Combination | 0 | 0 | 216.13 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS6 | Combination | 0 | 0 | 173.4824 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS7 | Combination | 0 | 0 | 160.4711 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS8 | Combination | 0 | 0 | 117.8235 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS9 | Combination | 0 | 0 | 182.0735 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS10 | Combination | 0 | 0 | 202.4255 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS11 | Combination | 0 | 0 | 199.3471 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS12 | Combination | 0 | 0 | 185.1519 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS13 | Combination | 0 | 0 | 182.9342 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS14 | Combination | 0 | 0 | 206.6782 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS15 | Combination | 0 | 0 | 203.0868 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS16 | Combination | 0 | 0 | 186.5256 | 0 | 0 | 0 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|--------|-------|-------------|-------------|-------------|-------|-------|----------|---------|---------|---------|
| Story2 | 1 | 29 | DStIS17 | Combination | 0 | 0 | 127.2753 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS18 | Combination | 0 | 0 | 151.0193 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS19 | Combination | 0 | 0 | 147.4279 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStIS20 | Combination | 0 | 0 | 130.8667 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStID1 | Combination | 0 | 0 | 139.1473 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DStID2 | Combination | 0 | 0 | 160.2079 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS1 | Combination | 0 | 0 | 194.8062 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS2 | Combination | 0 | 0 | 228.5032 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS3 | Combination | 0 | 0 | 210.527 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS4 | Combination | 0 | 0 | 173.972 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS5 | Combination | 0 | 0 | 216.13 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS6 | Combination | 0 | 0 | 173.4824 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS7 | Combination | 0 | 0 | 160.4711 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS8 | Combination | 0 | 0 | 117.8235 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS9 | Combination | 0 | 0 | 182.0735 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS10 | Combination | 0 | 0 | 202.4255 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS11 | Combination | 0 | 0 | 199.3471 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS12 | Combination | 0 | 0 | 185.1519 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS13 | Combination | 0 | 0 | 182.9342 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS14 | Combination | 0 | 0 | 206.6782 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS15 | Combination | 0 | 0 | 203.0868 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS16 | Combination | 0 | 0 | 186.5256 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS17 | Combination | 0 | 0 | 127.2753 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS18 | Combination | 0 | 0 | 151.0193 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS19 | Combination | 0 | 0 | 147.4279 | 0 | 0 | 0 |
| Story2 | 1 | 29 | DConS20 | Combination | 0 | 0 | 130.8667 | 0 | 0 | 0 |
| Story2 | 3 | 31 | Dead | LinStatic | 0 | 0 | 93.5585 | 0 | 0 | 0 |
| Story2 | 3 | 31 | Live | LinStatic | 0 | 0 | 6.2411 | 0 | 0 | 0 |
| Story2 | 3 | 31 | WIND | LinStatic | 0 | 0 | 6.1583 | 0 | 0 | 0 |
| Story2 | 3 | 31 | EQX | LinStatic | 0 | 0 | -1.834 | 0 | 0 | 0 |
| Story2 | 3 | 31 | EQY | LinStatic | 0 | 0 | -1.2907 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS1 | Combination | 0 | 0 | 130.9819 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS2 | Combination | 0 | 0 | 140.9678 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS3 | Combination | 0 | 0 | 127.1495 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS4 | Combination | 0 | 0 | 112.3697 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS5 | Combination | 0 | 0 | 139.6035 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS6 | Combination | 0 | 0 | 122.3604 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS7 | Combination | 0 | 0 | 102.1801 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS8 | Combination | 0 | 0 | 84.9369 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS9 | Combination | 0 | 0 | 119.7596 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS10 | Combination | 0 | 0 | 119.7596 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS11 | Combination | 0 | 0 | 119.7596 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS12 | Combination | 0 | 0 | 119.7596 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS13 | Combination | 0 | 0 | 130.9819 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS14 | Combination | 0 | 0 | 130.9819 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS15 | Combination | 0 | 0 | 130.9819 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS16 | Combination | 0 | 0 | 130.9819 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS17 | Combination | 0 | 0 | 93.5585 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS18 | Combination | 0 | 0 | 93.5585 | 0 | 0 | 0 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|--------|-------|-------------|-------------|-------------|-------|-------|----------|---------|---------|---------|
| Story2 | 3 | 31 | DSIbS19 | Combination | 0 | 0 | 93.5585 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DSIbS20 | Combination | 0 | 0 | 93.5585 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS1 | Combination | 0 | 0 | 130.9819 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS2 | Combination | 0 | 0 | 140.9678 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS3 | Combination | 0 | 0 | 127.1495 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS4 | Combination | 0 | 0 | 112.3697 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS5 | Combination | 0 | 0 | 139.6035 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS6 | Combination | 0 | 0 | 122.3604 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS7 | Combination | 0 | 0 | 102.1801 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS8 | Combination | 0 | 0 | 84.9369 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS9 | Combination | 0 | 0 | 117.5588 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS10 | Combination | 0 | 0 | 121.9604 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS11 | Combination | 0 | 0 | 118.2107 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS12 | Combination | 0 | 0 | 121.3085 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS13 | Combination | 0 | 0 | 128.4144 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS14 | Combination | 0 | 0 | 133.5495 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS15 | Combination | 0 | 0 | 129.1749 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS16 | Combination | 0 | 0 | 132.789 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS17 | Combination | 0 | 0 | 90.9909 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS18 | Combination | 0 | 0 | 96.1261 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS19 | Combination | 0 | 0 | 91.7515 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStIS20 | Combination | 0 | 0 | 95.3656 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStID1 | Combination | 0 | 0 | 93.5585 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DStID2 | Combination | 0 | 0 | 99.7997 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS1 | Combination | 0 | 0 | 130.9819 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS2 | Combination | 0 | 0 | 140.9678 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS3 | Combination | 0 | 0 | 127.1495 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS4 | Combination | 0 | 0 | 112.3697 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS5 | Combination | 0 | 0 | 139.6035 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS6 | Combination | 0 | 0 | 122.3604 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS7 | Combination | 0 | 0 | 102.1801 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS8 | Combination | 0 | 0 | 84.9369 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS9 | Combination | 0 | 0 | 117.5588 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS10 | Combination | 0 | 0 | 121.9604 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS11 | Combination | 0 | 0 | 118.2107 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS12 | Combination | 0 | 0 | 121.3085 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS13 | Combination | 0 | 0 | 128.4144 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS14 | Combination | 0 | 0 | 133.5495 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS15 | Combination | 0 | 0 | 129.1749 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS16 | Combination | 0 | 0 | 132.789 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS17 | Combination | 0 | 0 | 90.9909 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS18 | Combination | 0 | 0 | 96.1261 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS19 | Combination | 0 | 0 | 91.7515 | 0 | 0 | 0 |
| Story2 | 3 | 31 | DConS20 | Combination | 0 | 0 | 95.3656 | 0 | 0 | 0 |
| Story2 | 5 | 32 | Dead | LinStatic | 0 | 0 | 140.974 | 0 | 0 | 0 |
| Story2 | 5 | 32 | Live | LinStatic | 0 | 0 | 21.4069 | 0 | 0 | 0 |
| Story2 | 5 | 32 | WIND | LinStatic | 0 | 0 | 16.3107 | 0 | 0 | 0 |
| Story2 | 5 | 32 | EQX | LinStatic | 0 | 0 | 10.4809 | 0 | 0 | 0 |
| Story2 | 5 | 32 | EQY | LinStatic | 0 | 0 | 5.9502 | 0 | 0 | 0 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|--------|-------|-------------|-------------|-------------|-------|-------|----------|---------|---------|---------|
| Story2 | 5 | 32 | DSlbS1 | Combination | 0 | 0 | 197.3636 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS2 | Combination | 0 | 0 | 231.6147 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS3 | Combination | 0 | 0 | 214.4299 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS4 | Combination | 0 | 0 | 175.2843 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS5 | Combination | 0 | 0 | 220.1985 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS6 | Combination | 0 | 0 | 174.5286 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS7 | Combination | 0 | 0 | 163.809 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS8 | Combination | 0 | 0 | 118.139 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS9 | Combination | 0 | 0 | 194.8571 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS10 | Combination | 0 | 0 | 194.8571 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS11 | Combination | 0 | 0 | 194.8571 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS12 | Combination | 0 | 0 | 194.8571 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS13 | Combination | 0 | 0 | 197.3636 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS14 | Combination | 0 | 0 | 197.3636 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS15 | Combination | 0 | 0 | 197.3636 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS16 | Combination | 0 | 0 | 197.3636 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS17 | Combination | 0 | 0 | 140.974 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS18 | Combination | 0 | 0 | 140.974 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS19 | Combination | 0 | 0 | 140.974 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DSlbS20 | Combination | 0 | 0 | 140.974 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS1 | Combination | 0 | 0 | 197.3636 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS2 | Combination | 0 | 0 | 231.6147 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS3 | Combination | 0 | 0 | 214.4299 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS4 | Combination | 0 | 0 | 175.2843 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS5 | Combination | 0 | 0 | 220.1985 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS6 | Combination | 0 | 0 | 174.5286 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS7 | Combination | 0 | 0 | 163.809 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS8 | Combination | 0 | 0 | 118.139 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS9 | Combination | 0 | 0 | 207.4342 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS10 | Combination | 0 | 0 | 182.28 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS11 | Combination | 0 | 0 | 201.9973 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS12 | Combination | 0 | 0 | 187.7169 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS13 | Combination | 0 | 0 | 212.0368 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS14 | Combination | 0 | 0 | 182.6903 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS15 | Combination | 0 | 0 | 205.6938 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS16 | Combination | 0 | 0 | 189.0334 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS17 | Combination | 0 | 0 | 155.6472 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS18 | Combination | 0 | 0 | 126.3007 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS19 | Combination | 0 | 0 | 149.3042 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStIS20 | Combination | 0 | 0 | 132.6438 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStID1 | Combination | 0 | 0 | 140.974 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DStID2 | Combination | 0 | 0 | 162.3809 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS1 | Combination | 0 | 0 | 197.3636 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS2 | Combination | 0 | 0 | 231.6147 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS3 | Combination | 0 | 0 | 214.4299 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS4 | Combination | 0 | 0 | 175.2843 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS5 | Combination | 0 | 0 | 220.1985 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS6 | Combination | 0 | 0 | 174.5286 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS7 | Combination | 0 | 0 | 163.809 | 0 | 0 | 0 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|--------|-------|-------------|-------------|-------------|-------|-------|----------|---------|---------|---------|
| Story2 | 5 | 32 | DConS8 | Combination | 0 | 0 | 118.139 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS9 | Combination | 0 | 0 | 207.4342 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS10 | Combination | 0 | 0 | 182.28 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS11 | Combination | 0 | 0 | 201.9973 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS12 | Combination | 0 | 0 | 187.7169 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS13 | Combination | 0 | 0 | 212.0368 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS14 | Combination | 0 | 0 | 182.6903 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS15 | Combination | 0 | 0 | 205.6938 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS16 | Combination | 0 | 0 | 189.0334 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS17 | Combination | 0 | 0 | 155.6472 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS18 | Combination | 0 | 0 | 126.3007 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS19 | Combination | 0 | 0 | 149.3042 | 0 | 0 | 0 |
| Story2 | 5 | 32 | DConS20 | Combination | 0 | 0 | 132.6438 | 0 | 0 | 0 |
| Story2 | 6 | 33 | Dead | LinStatic | 0 | 0 | 86.6372 | 0 | 0 | 0 |
| Story2 | 6 | 33 | Live | LinStatic | 0 | 0 | 6.0326 | 0 | 0 | 0 |
| Story2 | 6 | 33 | WIND | LinStatic | 0 | 0 | 3.2307 | 0 | 0 | 0 |
| Story2 | 6 | 33 | EQX | LinStatic | 0 | 0 | -1.9126 | 0 | 0 | 0 |
| Story2 | 6 | 33 | EQY | LinStatic | 0 | 0 | -1.2524 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS1 | Combination | 0 | 0 | 121.2921 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS2 | Combination | 0 | 0 | 130.9442 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS3 | Combination | 0 | 0 | 115.0805 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS4 | Combination | 0 | 0 | 107.3269 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS5 | Combination | 0 | 0 | 125.815 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS6 | Combination | 0 | 0 | 116.7692 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS7 | Combination | 0 | 0 | 91.1601 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS8 | Combination | 0 | 0 | 82.1143 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS9 | Combination | 0 | 0 | 111.2037 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS10 | Combination | 0 | 0 | 111.2037 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS11 | Combination | 0 | 0 | 111.2037 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS12 | Combination | 0 | 0 | 111.2037 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS13 | Combination | 0 | 0 | 121.2921 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS14 | Combination | 0 | 0 | 121.2921 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS15 | Combination | 0 | 0 | 121.2921 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS16 | Combination | 0 | 0 | 121.2921 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS17 | Combination | 0 | 0 | 86.6372 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS18 | Combination | 0 | 0 | 86.6372 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS19 | Combination | 0 | 0 | 86.6372 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DSlbS20 | Combination | 0 | 0 | 86.6372 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS1 | Combination | 0 | 0 | 121.2921 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS2 | Combination | 0 | 0 | 130.9442 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS3 | Combination | 0 | 0 | 115.0805 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS4 | Combination | 0 | 0 | 107.3269 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS5 | Combination | 0 | 0 | 125.815 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS6 | Combination | 0 | 0 | 116.7692 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS7 | Combination | 0 | 0 | 91.1601 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS8 | Combination | 0 | 0 | 82.1143 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS9 | Combination | 0 | 0 | 108.9086 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS10 | Combination | 0 | 0 | 113.4988 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS11 | Combination | 0 | 0 | 109.7009 | 0 | 0 | 0 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|--------|-------|-------------|-------------|-------------|-------|-------|----------|---------|---------|---------|
| Story2 | 6 | 33 | DStIS12 | Combination | 0 | 0 | 112.7066 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS13 | Combination | 0 | 0 | 118.6145 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS14 | Combination | 0 | 0 | 123.9697 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS15 | Combination | 0 | 0 | 119.5387 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS16 | Combination | 0 | 0 | 123.0454 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS17 | Combination | 0 | 0 | 83.9596 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS18 | Combination | 0 | 0 | 89.3148 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS19 | Combination | 0 | 0 | 84.8839 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStIS20 | Combination | 0 | 0 | 88.3905 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStID1 | Combination | 0 | 0 | 86.6372 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DStID2 | Combination | 0 | 0 | 92.6698 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS1 | Combination | 0 | 0 | 121.2921 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS2 | Combination | 0 | 0 | 130.9442 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS3 | Combination | 0 | 0 | 115.0805 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS4 | Combination | 0 | 0 | 107.3269 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS5 | Combination | 0 | 0 | 125.815 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS6 | Combination | 0 | 0 | 116.7692 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS7 | Combination | 0 | 0 | 91.1601 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS8 | Combination | 0 | 0 | 82.1143 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS9 | Combination | 0 | 0 | 108.9086 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS10 | Combination | 0 | 0 | 113.4988 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS11 | Combination | 0 | 0 | 109.7009 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS12 | Combination | 0 | 0 | 112.7066 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS13 | Combination | 0 | 0 | 118.6145 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS14 | Combination | 0 | 0 | 123.9697 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS15 | Combination | 0 | 0 | 119.5387 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS16 | Combination | 0 | 0 | 123.0454 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS17 | Combination | 0 | 0 | 83.9596 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS18 | Combination | 0 | 0 | 89.3148 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS19 | Combination | 0 | 0 | 84.8839 | 0 | 0 | 0 |
| Story2 | 6 | 33 | DConS20 | Combination | 0 | 0 | 88.3905 | 0 | 0 | 0 |
| Story2 | 7 | 40 | Dead | LinStatic | 0 | 0 | 83.3953 | 0 | 0 | 0 |
| Story2 | 7 | 40 | Live | LinStatic | 0 | 0 | 5.9719 | 0 | 0 | 0 |
| Story2 | 7 | 40 | WIND | LinStatic | 0 | 0 | 3.3418 | 0 | 0 | 0 |
| Story2 | 7 | 40 | EQX | LinStatic | 0 | 0 | -2.2775 | 0 | 0 | 0 |
| Story2 | 7 | 40 | EQY | LinStatic | 0 | 0 | -0.0064 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS1 | Combination | 0 | 0 | 116.7534 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS2 | Combination | 0 | 0 | 126.3085 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS3 | Combination | 0 | 0 | 111.2509 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS4 | Combination | 0 | 0 | 103.2305 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS5 | Combination | 0 | 0 | 121.432 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS6 | Combination | 0 | 0 | 112.0749 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS7 | Combination | 0 | 0 | 88.0739 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS8 | Combination | 0 | 0 | 78.7168 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS9 | Combination | 0 | 0 | 107.2407 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS10 | Combination | 0 | 0 | 107.2407 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS11 | Combination | 0 | 0 | 107.2407 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS12 | Combination | 0 | 0 | 107.2407 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS13 | Combination | 0 | 0 | 116.7534 | 0 | 0 | 0 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|--------|-------|-------------|-------------|-------------|-------|-------|----------|---------|---------|---------|
| Story2 | 7 | 40 | DSlbS14 | Combination | 0 | 0 | 116.7534 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS15 | Combination | 0 | 0 | 116.7534 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS16 | Combination | 0 | 0 | 116.7534 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS17 | Combination | 0 | 0 | 83.3953 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS18 | Combination | 0 | 0 | 83.3953 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS19 | Combination | 0 | 0 | 83.3953 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DSlbS20 | Combination | 0 | 0 | 83.3953 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS1 | Combination | 0 | 0 | 116.7534 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS2 | Combination | 0 | 0 | 126.3085 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS3 | Combination | 0 | 0 | 111.2509 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS4 | Combination | 0 | 0 | 103.2305 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS5 | Combination | 0 | 0 | 121.432 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS6 | Combination | 0 | 0 | 112.0749 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS7 | Combination | 0 | 0 | 88.0739 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS8 | Combination | 0 | 0 | 78.7168 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS9 | Combination | 0 | 0 | 104.5077 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS10 | Combination | 0 | 0 | 109.9737 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS11 | Combination | 0 | 0 | 107.2329 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS12 | Combination | 0 | 0 | 107.2484 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS13 | Combination | 0 | 0 | 113.565 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS14 | Combination | 0 | 0 | 119.9419 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS15 | Combination | 0 | 0 | 116.7444 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS16 | Combination | 0 | 0 | 116.7625 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS17 | Combination | 0 | 0 | 80.2068 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS18 | Combination | 0 | 0 | 86.5838 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS19 | Combination | 0 | 0 | 83.3863 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStIS20 | Combination | 0 | 0 | 83.4043 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStID1 | Combination | 0 | 0 | 83.3953 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DStID2 | Combination | 0 | 0 | 89.3672 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS1 | Combination | 0 | 0 | 116.7534 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS2 | Combination | 0 | 0 | 126.3085 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS3 | Combination | 0 | 0 | 111.2509 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS4 | Combination | 0 | 0 | 103.2305 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS5 | Combination | 0 | 0 | 121.432 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS6 | Combination | 0 | 0 | 112.0749 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS7 | Combination | 0 | 0 | 88.0739 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS8 | Combination | 0 | 0 | 78.7168 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS9 | Combination | 0 | 0 | 104.5077 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS10 | Combination | 0 | 0 | 109.9737 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS11 | Combination | 0 | 0 | 107.2329 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS12 | Combination | 0 | 0 | 107.2484 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS13 | Combination | 0 | 0 | 113.565 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS14 | Combination | 0 | 0 | 119.9419 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS15 | Combination | 0 | 0 | 116.7444 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS16 | Combination | 0 | 0 | 116.7625 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS17 | Combination | 0 | 0 | 80.2068 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS18 | Combination | 0 | 0 | 86.5838 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS19 | Combination | 0 | 0 | 83.3863 | 0 | 0 | 0 |
| Story2 | 7 | 40 | DConS20 | Combination | 0 | 0 | 83.4043 | 0 | 0 | 0 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|--------|-------|-------------|-------------|-------------|-------|-------|----------|---------|---------|---------|
| Story2 | 8 | 34 | Dead | LinStatic | 0 | 0 | 90.5462 | 0 | 0 | 0 |
| Story2 | 8 | 34 | Live | LinStatic | 0 | 0 | 6.2495 | 0 | 0 | 0 |
| Story2 | 8 | 34 | WIND | LinStatic | 0 | 0 | 6.1212 | 0 | 0 | 0 |
| Story2 | 8 | 34 | EQX | LinStatic | 0 | 0 | -0.9661 | 0 | 0 | 0 |
| Story2 | 8 | 34 | EQY | LinStatic | 0 | 0 | -0.0084 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS1 | Combination | 0 | 0 | 126.7647 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS2 | Combination | 0 | 0 | 136.7638 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS3 | Combination | 0 | 0 | 123.5003 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS4 | Combination | 0 | 0 | 108.8093 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS5 | Combination | 0 | 0 | 135.3344 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS6 | Combination | 0 | 0 | 118.1949 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS7 | Combination | 0 | 0 | 99.1159 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS8 | Combination | 0 | 0 | 81.9765 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS9 | Combination | 0 | 0 | 116.1548 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS10 | Combination | 0 | 0 | 116.1548 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS11 | Combination | 0 | 0 | 116.1548 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS12 | Combination | 0 | 0 | 116.1548 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS13 | Combination | 0 | 0 | 126.7647 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS14 | Combination | 0 | 0 | 126.7647 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS15 | Combination | 0 | 0 | 126.7647 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS16 | Combination | 0 | 0 | 126.7647 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS17 | Combination | 0 | 0 | 90.5462 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS18 | Combination | 0 | 0 | 90.5462 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS19 | Combination | 0 | 0 | 90.5462 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DSlBS20 | Combination | 0 | 0 | 90.5462 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS1 | Combination | 0 | 0 | 126.7647 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS2 | Combination | 0 | 0 | 136.7638 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS3 | Combination | 0 | 0 | 123.5003 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS4 | Combination | 0 | 0 | 108.8093 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS5 | Combination | 0 | 0 | 135.3344 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS6 | Combination | 0 | 0 | 118.1949 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS7 | Combination | 0 | 0 | 99.1159 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS8 | Combination | 0 | 0 | 81.9765 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS9 | Combination | 0 | 0 | 114.9955 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS10 | Combination | 0 | 0 | 117.3141 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS11 | Combination | 0 | 0 | 116.1448 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS12 | Combination | 0 | 0 | 116.1648 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS13 | Combination | 0 | 0 | 125.4122 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS14 | Combination | 0 | 0 | 128.1172 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS15 | Combination | 0 | 0 | 126.7529 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS16 | Combination | 0 | 0 | 126.7764 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS17 | Combination | 0 | 0 | 89.1937 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS18 | Combination | 0 | 0 | 91.8987 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS19 | Combination | 0 | 0 | 90.5345 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStIS20 | Combination | 0 | 0 | 90.5579 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStID1 | Combination | 0 | 0 | 90.5462 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DStID2 | Combination | 0 | 0 | 96.7957 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS1 | Combination | 0 | 0 | 126.7647 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS2 | Combination | 0 | 0 | 136.7638 | 0 | 0 | 0 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|--------|-------|-------------|-------------|-------------|-------|-------|----------|---------|---------|---------|
| Story2 | 8 | 34 | DConS3 | Combination | 0 | 0 | 123.5003 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS4 | Combination | 0 | 0 | 108.8093 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS5 | Combination | 0 | 0 | 135.3344 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS6 | Combination | 0 | 0 | 118.1949 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS7 | Combination | 0 | 0 | 99.1159 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS8 | Combination | 0 | 0 | 81.9765 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS9 | Combination | 0 | 0 | 114.9955 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS10 | Combination | 0 | 0 | 117.3141 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS11 | Combination | 0 | 0 | 116.1448 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS12 | Combination | 0 | 0 | 116.1648 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS13 | Combination | 0 | 0 | 125.4122 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS14 | Combination | 0 | 0 | 128.1172 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS15 | Combination | 0 | 0 | 126.7529 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS16 | Combination | 0 | 0 | 126.7764 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS17 | Combination | 0 | 0 | 89.1937 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS18 | Combination | 0 | 0 | 91.8987 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS19 | Combination | 0 | 0 | 90.5345 | 0 | 0 | 0 |
| Story2 | 8 | 34 | DConS20 | Combination | 0 | 0 | 90.5579 | 0 | 0 | 0 |
| Story2 | 11 | 39 | Dead | LinStatic | 0 | 0 | 86.629 | 0 | 0 | 0 |
| Story2 | 11 | 39 | Live | LinStatic | 0 | 0 | 6.031 | 0 | 0 | 0 |
| Story2 | 11 | 39 | WIND | LinStatic | 0 | 0 | 3.2195 | 0 | 0 | 0 |
| Story2 | 11 | 39 | EQX | LinStatic | 0 | 0 | -2.022 | 0 | 0 | 0 |
| Story2 | 11 | 39 | EQY | LinStatic | 0 | 0 | 1.2895 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS1 | Combination | 0 | 0 | 121.2806 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS2 | Combination | 0 | 0 | 130.9301 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS3 | Combination | 0 | 0 | 115.0553 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS4 | Combination | 0 | 0 | 107.3286 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS5 | Combination | 0 | 0 | 125.7878 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS6 | Combination | 0 | 0 | 116.7733 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS7 | Combination | 0 | 0 | 91.1363 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS8 | Combination | 0 | 0 | 82.1217 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS9 | Combination | 0 | 0 | 111.192 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS10 | Combination | 0 | 0 | 111.192 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS11 | Combination | 0 | 0 | 111.192 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS12 | Combination | 0 | 0 | 111.192 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS13 | Combination | 0 | 0 | 121.2806 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS14 | Combination | 0 | 0 | 121.2806 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS15 | Combination | 0 | 0 | 121.2806 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS16 | Combination | 0 | 0 | 121.2806 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS17 | Combination | 0 | 0 | 86.629 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS18 | Combination | 0 | 0 | 86.629 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS19 | Combination | 0 | 0 | 86.629 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DSlbS20 | Combination | 0 | 0 | 86.629 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStlS1 | Combination | 0 | 0 | 121.2806 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStlS2 | Combination | 0 | 0 | 130.9301 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStlS3 | Combination | 0 | 0 | 115.0553 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStlS4 | Combination | 0 | 0 | 107.3286 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStlS5 | Combination | 0 | 0 | 125.7878 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStlS6 | Combination | 0 | 0 | 116.7733 | 0 | 0 | 0 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|--------|-------|-------------|-------------|-------------|-------|-------|----------|---------|---------|---------|
| Story2 | 11 | 39 | DStIS7 | Combination | 0 | 0 | 91.1363 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStIS8 | Combination | 0 | 0 | 82.1217 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStIS9 | Combination | 0 | 0 | 108.7655 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStIS10 | Combination | 0 | 0 | 113.6184 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStIS11 | Combination | 0 | 0 | 112.7393 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStIS12 | Combination | 0 | 0 | 109.6446 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStIS13 | Combination | 0 | 0 | 118.4497 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStIS14 | Combination | 0 | 0 | 124.1114 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStIS15 | Combination | 0 | 0 | 123.0858 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStIS16 | Combination | 0 | 0 | 119.4753 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStIS17 | Combination | 0 | 0 | 83.7982 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStIS18 | Combination | 0 | 0 | 89.4598 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStIS19 | Combination | 0 | 0 | 88.4342 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStIS20 | Combination | 0 | 0 | 84.8237 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStID1 | Combination | 0 | 0 | 86.629 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DStID2 | Combination | 0 | 0 | 92.66 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS1 | Combination | 0 | 0 | 121.2806 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS2 | Combination | 0 | 0 | 130.9301 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS3 | Combination | 0 | 0 | 115.0553 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS4 | Combination | 0 | 0 | 107.3286 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS5 | Combination | 0 | 0 | 125.7878 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS6 | Combination | 0 | 0 | 116.7733 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS7 | Combination | 0 | 0 | 91.1363 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS8 | Combination | 0 | 0 | 82.1217 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS9 | Combination | 0 | 0 | 108.7655 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS10 | Combination | 0 | 0 | 113.6184 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS11 | Combination | 0 | 0 | 112.7393 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS12 | Combination | 0 | 0 | 109.6446 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS13 | Combination | 0 | 0 | 118.4497 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS14 | Combination | 0 | 0 | 124.1114 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS15 | Combination | 0 | 0 | 123.0858 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS16 | Combination | 0 | 0 | 119.4753 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS17 | Combination | 0 | 0 | 83.7982 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS18 | Combination | 0 | 0 | 89.4598 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS19 | Combination | 0 | 0 | 88.4342 | 0 | 0 | 0 |
| Story2 | 11 | 39 | DConS20 | Combination | 0 | 0 | 84.8237 | 0 | 0 | 0 |
| Story2 | 12 | 35 | Dead | LinStatic | 0 | 0 | 93.573 | 0 | 0 | 0 |
| Story2 | 12 | 35 | Live | LinStatic | 0 | 0 | 6.2436 | 0 | 0 | 0 |
| Story2 | 12 | 35 | WIND | LinStatic | 0 | 0 | 6.1775 | 0 | 0 | 0 |
| Story2 | 12 | 35 | EQX | LinStatic | 0 | 0 | -1.6624 | 0 | 0 | 0 |
| Story2 | 12 | 35 | EQY | LinStatic | 0 | 0 | 1.3235 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSlbS1 | Combination | 0 | 0 | 131.0022 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSlbS2 | Combination | 0 | 0 | 140.992 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSlbS3 | Combination | 0 | 0 | 127.193 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSlbS4 | Combination | 0 | 0 | 112.367 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSlbS5 | Combination | 0 | 0 | 139.6507 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSlbS6 | Combination | 0 | 0 | 122.3537 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSlbS7 | Combination | 0 | 0 | 102.2215 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSlbS8 | Combination | 0 | 0 | 84.9245 | 0 | 0 | 0 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|--------|-------|-------------|-------------|-------------|-------|-------|----------|---------|---------|---------|
| Story2 | 12 | 35 | DSIbS9 | Combination | 0 | 0 | 119.78 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSIbS10 | Combination | 0 | 0 | 119.78 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSIbS11 | Combination | 0 | 0 | 119.78 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSIbS12 | Combination | 0 | 0 | 119.78 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSIbS13 | Combination | 0 | 0 | 131.0022 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSIbS14 | Combination | 0 | 0 | 131.0022 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSIbS15 | Combination | 0 | 0 | 131.0022 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSIbS16 | Combination | 0 | 0 | 131.0022 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSIbS17 | Combination | 0 | 0 | 93.573 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSIbS18 | Combination | 0 | 0 | 93.573 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSIbS19 | Combination | 0 | 0 | 93.573 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DSIbS20 | Combination | 0 | 0 | 93.573 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS1 | Combination | 0 | 0 | 131.0022 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS2 | Combination | 0 | 0 | 140.992 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS3 | Combination | 0 | 0 | 127.193 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS4 | Combination | 0 | 0 | 112.367 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS5 | Combination | 0 | 0 | 139.6507 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS6 | Combination | 0 | 0 | 122.3537 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS7 | Combination | 0 | 0 | 102.2215 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS8 | Combination | 0 | 0 | 84.9245 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS9 | Combination | 0 | 0 | 117.7851 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS10 | Combination | 0 | 0 | 121.7749 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS11 | Combination | 0 | 0 | 121.3682 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS12 | Combination | 0 | 0 | 118.1917 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS13 | Combination | 0 | 0 | 128.6749 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS14 | Combination | 0 | 0 | 133.3296 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS15 | Combination | 0 | 0 | 132.8552 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS16 | Combination | 0 | 0 | 129.1493 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS17 | Combination | 0 | 0 | 91.2457 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS18 | Combination | 0 | 0 | 95.9004 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS19 | Combination | 0 | 0 | 95.426 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStIS20 | Combination | 0 | 0 | 91.7201 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStID1 | Combination | 0 | 0 | 93.573 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DStID2 | Combination | 0 | 0 | 99.8167 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS1 | Combination | 0 | 0 | 131.0022 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS2 | Combination | 0 | 0 | 140.992 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS3 | Combination | 0 | 0 | 127.193 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS4 | Combination | 0 | 0 | 112.367 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS5 | Combination | 0 | 0 | 139.6507 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS6 | Combination | 0 | 0 | 122.3537 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS7 | Combination | 0 | 0 | 102.2215 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS8 | Combination | 0 | 0 | 84.9245 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS9 | Combination | 0 | 0 | 117.7851 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS10 | Combination | 0 | 0 | 121.7749 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS11 | Combination | 0 | 0 | 121.3682 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS12 | Combination | 0 | 0 | 118.1917 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS13 | Combination | 0 | 0 | 128.6749 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS14 | Combination | 0 | 0 | 133.3296 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS15 | Combination | 0 | 0 | 132.8552 | 0 | 0 | 0 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|--------|-------|-------------|-------------|-------------|-------|-------|----------|---------|---------|---------|
| Story2 | 12 | 35 | DConS16 | Combination | 0 | 0 | 129.1493 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS17 | Combination | 0 | 0 | 91.2457 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS18 | Combination | 0 | 0 | 95.9004 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS19 | Combination | 0 | 0 | 95.426 | 0 | 0 | 0 |
| Story2 | 12 | 35 | DConS20 | Combination | 0 | 0 | 91.7201 | 0 | 0 | 0 |
| Story2 | 13 | 38 | Dead | LinStatic | 0 | 0 | 141.0193 | 0 | 0 | 0 |
| Story2 | 13 | 38 | Live | LinStatic | 0 | 0 | 21.4203 | 0 | 0 | 0 |
| Story2 | 13 | 38 | WIND | LinStatic | 0 | 0 | 16.4051 | 0 | 0 | 0 |
| Story2 | 13 | 38 | EQX | LinStatic | 0 | 0 | 11.3951 | 0 | 0 | 0 |
| Story2 | 13 | 38 | EQY | LinStatic | 0 | 0 | -5.9837 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS1 | Combination | 0 | 0 | 197.427 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS2 | Combination | 0 | 0 | 231.6995 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS3 | Combination | 0 | 0 | 214.6136 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS4 | Combination | 0 | 0 | 175.2414 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS5 | Combination | 0 | 0 | 220.3941 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS6 | Combination | 0 | 0 | 174.4598 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS7 | Combination | 0 | 0 | 163.9864 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS8 | Combination | 0 | 0 | 118.0521 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS9 | Combination | 0 | 0 | 194.9275 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS10 | Combination | 0 | 0 | 194.9275 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS11 | Combination | 0 | 0 | 194.9275 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS12 | Combination | 0 | 0 | 194.9275 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS13 | Combination | 0 | 0 | 197.427 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS14 | Combination | 0 | 0 | 197.427 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS15 | Combination | 0 | 0 | 197.427 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS16 | Combination | 0 | 0 | 197.427 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS17 | Combination | 0 | 0 | 141.0193 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS18 | Combination | 0 | 0 | 141.0193 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS19 | Combination | 0 | 0 | 141.0193 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DSlbS20 | Combination | 0 | 0 | 141.0193 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS1 | Combination | 0 | 0 | 197.427 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS2 | Combination | 0 | 0 | 231.6995 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS3 | Combination | 0 | 0 | 214.6136 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS4 | Combination | 0 | 0 | 175.2414 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS5 | Combination | 0 | 0 | 220.3941 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS6 | Combination | 0 | 0 | 174.4598 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS7 | Combination | 0 | 0 | 163.9864 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS8 | Combination | 0 | 0 | 118.0521 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS9 | Combination | 0 | 0 | 208.6016 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS10 | Combination | 0 | 0 | 181.2533 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS11 | Combination | 0 | 0 | 187.7471 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS12 | Combination | 0 | 0 | 202.1079 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS13 | Combination | 0 | 0 | 213.3801 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS14 | Combination | 0 | 0 | 181.4738 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS15 | Combination | 0 | 0 | 189.0499 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS16 | Combination | 0 | 0 | 205.8041 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS17 | Combination | 0 | 0 | 156.9724 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS18 | Combination | 0 | 0 | 125.0661 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStlS19 | Combination | 0 | 0 | 132.6422 | 0 | 0 | 0 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|--------|-------|-------------|-------------|-------------|-------|-------|----------|---------|---------|---------|
| Story2 | 13 | 38 | DStIS20 | Combination | 0 | 0 | 149.3964 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStID1 | Combination | 0 | 0 | 141.0193 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DStID2 | Combination | 0 | 0 | 162.4396 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS1 | Combination | 0 | 0 | 197.427 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS2 | Combination | 0 | 0 | 231.6995 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS3 | Combination | 0 | 0 | 214.6136 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS4 | Combination | 0 | 0 | 175.2414 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS5 | Combination | 0 | 0 | 220.3941 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS6 | Combination | 0 | 0 | 174.4598 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS7 | Combination | 0 | 0 | 163.9864 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS8 | Combination | 0 | 0 | 118.0521 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS9 | Combination | 0 | 0 | 208.6016 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS10 | Combination | 0 | 0 | 181.2533 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS11 | Combination | 0 | 0 | 187.7471 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS12 | Combination | 0 | 0 | 202.1079 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS13 | Combination | 0 | 0 | 213.3801 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS14 | Combination | 0 | 0 | 181.4738 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS15 | Combination | 0 | 0 | 189.0499 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS16 | Combination | 0 | 0 | 205.8041 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS17 | Combination | 0 | 0 | 156.9724 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS18 | Combination | 0 | 0 | 125.0661 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS19 | Combination | 0 | 0 | 132.6422 | 0 | 0 | 0 |
| Story2 | 13 | 38 | DConS20 | Combination | 0 | 0 | 149.3964 | 0 | 0 | 0 |
| Story2 | 15 | 36 | Dead | LinStatic | 0 | 0 | 139.0483 | 0 | 0 | 0 |
| Story2 | 15 | 36 | Live | LinStatic | 0 | 0 | 21.0485 | 0 | 0 | 0 |
| Story2 | 15 | 36 | WIND | LinStatic | 0 | 0 | 15.1365 | 0 | 0 | 0 |
| Story2 | 15 | 36 | EQX | LinStatic | 0 | 0 | -9.3949 | 0 | 0 | 0 |
| Story2 | 15 | 36 | EQY | LinStatic | 0 | 0 | -5.9392 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS1 | Combination | 0 | 0 | 194.6677 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS2 | Combination | 0 | 0 | 228.3453 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS3 | Combination | 0 | 0 | 210.28 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS4 | Combination | 0 | 0 | 173.9525 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS5 | Combination | 0 | 0 | 215.8587 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS6 | Combination | 0 | 0 | 173.4766 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS7 | Combination | 0 | 0 | 160.2394 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS8 | Combination | 0 | 0 | 117.8573 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS9 | Combination | 0 | 0 | 192.1162 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS10 | Combination | 0 | 0 | 192.1162 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS11 | Combination | 0 | 0 | 192.1162 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS12 | Combination | 0 | 0 | 192.1162 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS13 | Combination | 0 | 0 | 194.6677 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS14 | Combination | 0 | 0 | 194.6677 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS15 | Combination | 0 | 0 | 194.6677 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS16 | Combination | 0 | 0 | 194.6677 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS17 | Combination | 0 | 0 | 139.0483 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS18 | Combination | 0 | 0 | 139.0483 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS19 | Combination | 0 | 0 | 139.0483 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DSIbS20 | Combination | 0 | 0 | 139.0483 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS1 | Combination | 0 | 0 | 194.6677 | 0 | 0 | 0 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|--------|-------|-------------|-------------|-------------|---------|---------|----------|---------|----------|---------|
| Story2 | 15 | 36 | DStIS2 | Combination | 0 | 0 | 228.3453 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS3 | Combination | 0 | 0 | 210.28 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS4 | Combination | 0 | 0 | 173.9525 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS5 | Combination | 0 | 0 | 215.8587 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS6 | Combination | 0 | 0 | 173.4766 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS7 | Combination | 0 | 0 | 160.2394 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS8 | Combination | 0 | 0 | 117.8573 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS9 | Combination | 0 | 0 | 180.8424 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS10 | Combination | 0 | 0 | 203.3901 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS11 | Combination | 0 | 0 | 184.9892 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS12 | Combination | 0 | 0 | 199.2433 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS13 | Combination | 0 | 0 | 181.5148 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS14 | Combination | 0 | 0 | 207.8205 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS15 | Combination | 0 | 0 | 186.3528 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS16 | Combination | 0 | 0 | 202.9826 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS17 | Combination | 0 | 0 | 125.8955 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS18 | Combination | 0 | 0 | 152.2012 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS19 | Combination | 0 | 0 | 130.7334 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStIS20 | Combination | 0 | 0 | 147.3632 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStID1 | Combination | 0 | 0 | 139.0483 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DStID2 | Combination | 0 | 0 | 160.0969 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS1 | Combination | 0 | 0 | 194.6677 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS2 | Combination | 0 | 0 | 228.3453 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS3 | Combination | 0 | 0 | 210.28 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS4 | Combination | 0 | 0 | 173.9525 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS5 | Combination | 0 | 0 | 215.8587 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS6 | Combination | 0 | 0 | 173.4766 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS7 | Combination | 0 | 0 | 160.2394 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS8 | Combination | 0 | 0 | 117.8573 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS9 | Combination | 0 | 0 | 180.8424 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS10 | Combination | 0 | 0 | 203.3901 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS11 | Combination | 0 | 0 | 184.9892 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS12 | Combination | 0 | 0 | 199.2433 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS13 | Combination | 0 | 0 | 181.5148 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS14 | Combination | 0 | 0 | 207.8205 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS15 | Combination | 0 | 0 | 186.3528 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS16 | Combination | 0 | 0 | 202.9826 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS17 | Combination | 0 | 0 | 125.8955 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS18 | Combination | 0 | 0 | 152.2012 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS19 | Combination | 0 | 0 | 130.7334 | 0 | 0 | 0 |
| Story2 | 15 | 36 | DConS20 | Combination | 0 | 0 | 147.3632 | 0 | 0 | 0 |
| Base | 1 | 1 | Dead | LinStatic | 6.0195 | -4.5397 | 61.7923 | -1.4056 | -3.0962 | 0.1846 |
| Base | 1 | 1 | Live | LinStatic | -0.2198 | 0.1204 | 0.0596 | -0.1187 | -0.3289 | 0.0449 |
| Base | 1 | 1 | WIND | LinStatic | -0.8857 | 0.0811 | -0.2016 | -0.0664 | -1.6975 | 0.074 |
| Base | 1 | 1 | EQX | LinStatic | -8.7837 | -0.1503 | -2.853 | 0.2933 | -17.5042 | 0.4271 |
| Base | 1 | 1 | EQY | LinStatic | -0.1954 | -6.5461 | 2.4911 | 12.5717 | -0.3613 | 0.2342 |
| Base | 1 | 1 | DSIbS1 | Combination | 8.4273 | -6.3556 | 86.5092 | -1.9679 | -4.3346 | 0.2584 |
| Base | 1 | 1 | DSIbS2 | Combination | 8.0756 | -6.163 | 86.6046 | -2.1577 | -4.8609 | 0.3302 |
| Base | 1 | 1 | DSIbS3 | Combination | 5.8968 | -5.2058 | 73.9804 | -1.9088 | -6.1471 | 0.3642 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|---------|----------|---------|----------|----------|---------|
| Base | 1 | 1 | DSIbS4 | Combination | 8.0224 | -5.4006 | 74.4642 | -1.7495 | -2.0731 | 0.1865 |
| Base | 1 | 1 | DSIbS5 | Combination | 7.1873 | -6.242 | 86.2271 | -2.0609 | -6.7111 | 0.3621 |
| Base | 1 | 1 | DSIbS6 | Combination | 9.6672 | -6.4692 | 86.7914 | -1.8749 | -1.9581 | 0.1548 |
| Base | 1 | 1 | DSIbS7 | Combination | 4.7795 | -4.4261 | 61.5101 | -1.4986 | -5.4726 | 0.2883 |
| Base | 1 | 1 | DSIbS8 | Combination | 7.2594 | -4.6533 | 62.0745 | -1.3127 | -0.7197 | 0.0809 |
| Base | 1 | 1 | DSIbS9 | Combination | 6.9596 | -5.3032 | 74.2223 | -1.8291 | -4.1101 | 0.2753 |
| Base | 1 | 1 | DSIbS10 | Combination | 6.9596 | -5.3032 | 74.2223 | -1.8291 | -4.1101 | 0.2753 |
| Base | 1 | 1 | DSIbS11 | Combination | 6.9596 | -5.3032 | 74.2223 | -1.8291 | -4.1101 | 0.2753 |
| Base | 1 | 1 | DSIbS12 | Combination | 6.9596 | -5.3032 | 74.2223 | -1.8291 | -4.1101 | 0.2753 |
| Base | 1 | 1 | DSIbS13 | Combination | 8.4273 | -6.3556 | 86.5092 | -1.9679 | -4.3346 | 0.2584 |
| Base | 1 | 1 | DSIbS14 | Combination | 8.4273 | -6.3556 | 86.5092 | -1.9679 | -4.3346 | 0.2584 |
| Base | 1 | 1 | DSIbS15 | Combination | 8.4273 | -6.3556 | 86.5092 | -1.9679 | -4.3346 | 0.2584 |
| Base | 1 | 1 | DSIbS16 | Combination | 8.4273 | -6.3556 | 86.5092 | -1.9679 | -4.3346 | 0.2584 |
| Base | 1 | 1 | DSIbS17 | Combination | 6.0195 | -4.5397 | 61.7923 | -1.4056 | -3.0962 | 0.1846 |
| Base | 1 | 1 | DSIbS18 | Combination | 6.0195 | -4.5397 | 61.7923 | -1.4056 | -3.0962 | 0.1846 |
| Base | 1 | 1 | DSIbS19 | Combination | 6.0195 | -4.5397 | 61.7923 | -1.4056 | -3.0962 | 0.1846 |
| Base | 1 | 1 | DSIbS20 | Combination | 6.0195 | -4.5397 | 61.7923 | -1.4056 | -3.0962 | 0.1846 |
| Base | 1 | 1 | DStIS1 | Combination | 8.4273 | -6.3556 | 86.5092 | -1.9679 | -4.3346 | 0.2584 |
| Base | 1 | 1 | DStIS2 | Combination | 8.0756 | -6.163 | 86.6046 | -2.1577 | -4.8609 | 0.3302 |
| Base | 1 | 1 | DStIS3 | Combination | 5.8968 | -5.2058 | 73.9804 | -1.9088 | -6.1471 | 0.3642 |
| Base | 1 | 1 | DStIS4 | Combination | 8.0224 | -5.4006 | 74.4642 | -1.7495 | -2.0731 | 0.1865 |
| Base | 1 | 1 | DStIS5 | Combination | 7.1873 | -6.242 | 86.2271 | -2.0609 | -6.7111 | 0.3621 |
| Base | 1 | 1 | DStIS6 | Combination | 9.6672 | -6.4692 | 86.7914 | -1.8749 | -1.9581 | 0.1548 |
| Base | 1 | 1 | DStIS7 | Combination | 4.7795 | -4.4261 | 61.5101 | -1.4986 | -5.4726 | 0.2883 |
| Base | 1 | 1 | DStIS8 | Combination | 7.2594 | -4.6533 | 62.0745 | -1.3127 | -0.7197 | 0.0809 |
| Base | 1 | 1 | DStIS9 | Combination | -3.5809 | -5.4835 | 70.7987 | -1.4772 | -25.1152 | 0.7879 |
| Base | 1 | 1 | DStIS10 | Combination | 17.5001 | -5.1229 | 77.6459 | -2.1811 | 16.895 | -0.2372 |
| Base | 1 | 1 | DStIS11 | Combination | 6.7251 | -13.1585 | 77.2116 | 13.2568 | -4.5436 | 0.5564 |
| Base | 1 | 1 | DStIS12 | Combination | 7.1941 | 2.5522 | 71.233 | -16.9151 | -3.6766 | -0.0057 |
| Base | 1 | 1 | DStIS13 | Combination | -3.87 | -6.566 | 82.515 | -1.5573 | -28.8406 | 0.8564 |
| Base | 1 | 1 | DStIS14 | Combination | 20.7245 | -6.1452 | 90.5035 | -2.3785 | 20.1713 | -0.3396 |
| Base | 1 | 1 | DStIS15 | Combination | 8.1536 | -15.5202 | 89.9967 | 15.6324 | -4.8404 | 0.5863 |
| Base | 1 | 1 | DStIS16 | Combination | 8.7009 | 2.809 | 83.0217 | -19.5682 | -3.8288 | -0.0695 |
| Base | 1 | 1 | DStIS17 | Combination | -6.2778 | -4.7501 | 57.7981 | -0.995 | -27.6021 | 0.7826 |
| Base | 1 | 1 | DStIS18 | Combination | 18.3167 | -4.3293 | 65.7865 | -1.8163 | 21.4098 | -0.4134 |
| Base | 1 | 1 | DStIS19 | Combination | 5.7458 | -13.7043 | 65.2798 | 16.1947 | -3.6019 | 0.5125 |
| Base | 1 | 1 | DStIS20 | Combination | 6.2931 | 4.6249 | 58.3048 | -19.0059 | -2.5904 | -0.1433 |
| Base | 1 | 1 | DStID1 | Combination | 6.0195 | -4.5397 | 61.7923 | -1.4056 | -3.0962 | 0.1846 |
| Base | 1 | 1 | DStID2 | Combination | 5.7997 | -4.4193 | 61.8519 | -1.5243 | -3.4251 | 0.2295 |
| Base | 1 | 1 | DConS1 | Combination | 8.4273 | -6.3556 | 86.5092 | -1.9679 | -4.3346 | 0.2584 |
| Base | 1 | 1 | DConS2 | Combination | 8.0756 | -6.163 | 86.6046 | -2.1577 | -4.8609 | 0.3302 |
| Base | 1 | 1 | DConS3 | Combination | 5.8968 | -5.2058 | 73.9804 | -1.9088 | -6.1471 | 0.3642 |
| Base | 1 | 1 | DConS4 | Combination | 8.0224 | -5.4006 | 74.4642 | -1.7495 | -2.0731 | 0.1865 |
| Base | 1 | 1 | DConS5 | Combination | 7.1873 | -6.242 | 86.2271 | -2.0609 | -6.7111 | 0.3621 |
| Base | 1 | 1 | DConS6 | Combination | 9.6672 | -6.4692 | 86.7914 | -1.8749 | -1.9581 | 0.1548 |
| Base | 1 | 1 | DConS7 | Combination | 4.7795 | -4.4261 | 61.5101 | -1.4986 | -5.4726 | 0.2883 |
| Base | 1 | 1 | DConS8 | Combination | 7.2594 | -4.6533 | 62.0745 | -1.3127 | -0.7197 | 0.0809 |
| Base | 1 | 1 | DConS9 | Combination | -3.5809 | -5.4835 | 70.7987 | -1.4772 | -25.1152 | 0.7879 |
| Base | 1 | 1 | DConS10 | Combination | 17.5001 | -5.1229 | 77.6459 | -2.1811 | 16.895 | -0.2372 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|----------|----------|----------|----------|----------|---------|
| Base | 1 | 1 | DConS11 | Combination | 6.7251 | -13.1585 | 77.2116 | 13.2568 | -4.5436 | 0.5564 |
| Base | 1 | 1 | DConS12 | Combination | 7.1941 | 2.5522 | 71.233 | -16.9151 | -3.6766 | -0.0057 |
| Base | 1 | 1 | DConS13 | Combination | -3.87 | -6.566 | 82.515 | -1.5573 | -28.8406 | 0.8564 |
| Base | 1 | 1 | DConS14 | Combination | 20.7245 | -6.1452 | 90.5035 | -2.3785 | 20.1713 | -0.3396 |
| Base | 1 | 1 | DConS15 | Combination | 8.1536 | -15.5202 | 89.9967 | 15.6324 | -4.8404 | 0.5863 |
| Base | 1 | 1 | DConS16 | Combination | 8.7009 | 2.809 | 83.0217 | -19.5682 | -3.8288 | -0.0695 |
| Base | 1 | 1 | DConS17 | Combination | -6.2778 | -4.7501 | 57.7981 | -0.995 | -27.6021 | 0.7826 |
| Base | 1 | 1 | DConS18 | Combination | 18.3167 | -4.3293 | 65.7865 | -1.8163 | 21.4098 | -0.4134 |
| Base | 1 | 1 | DConS19 | Combination | 5.7458 | -13.7043 | 65.2798 | 16.1947 | -3.6019 | 0.5125 |
| Base | 1 | 1 | DConS20 | Combination | 6.2931 | 4.6249 | 58.3048 | -19.0059 | -2.5904 | -0.1433 |
| Base | 2 | 2 | Dead | LinStatic | -0.7165 | -1.282 | 207.8806 | -4.9071 | -1.2553 | 0.1387 |
| Base | 2 | 2 | Live | LinStatic | -0.1351 | -0.0101 | -0.1882 | 0.0102 | -0.242 | 0.0336 |
| Base | 2 | 2 | WIND | LinStatic | -1.0365 | -0.0124 | -0.1315 | 0.0133 | -1.8595 | 0.0518 |
| Base | 2 | 2 | EQX | LinStatic | -11.3455 | -0.0207 | 0.0127 | 0.0277 | -20.2179 | 0.2756 |
| Base | 2 | 2 | EQY | LinStatic | -0.2312 | -1.3849 | 4.2104 | 4.7356 | -0.3977 | -0.0069 |
| Base | 2 | 2 | DSlbS1 | Combination | -1.0031 | -1.7948 | 291.0329 | -6.8699 | -1.7575 | 0.1942 |
| Base | 2 | 2 | DSlbS2 | Combination | -1.2192 | -1.8111 | 290.7317 | -6.8535 | -2.1446 | 0.248 |
| Base | 2 | 2 | DSlbS3 | Combination | -2.2657 | -1.5655 | 249.073 | -5.8603 | -4.0281 | 0.2691 |
| Base | 2 | 2 | DSlbS4 | Combination | 0.2219 | -1.5357 | 249.3887 | -5.8922 | 0.4346 | 0.1446 |
| Base | 2 | 2 | DSlbS5 | Combination | -2.4542 | -1.8122 | 290.8487 | -6.8513 | -4.3607 | 0.2668 |
| Base | 2 | 2 | DSlbS6 | Combination | 0.448 | -1.7775 | 291.217 | -6.8885 | 0.8458 | 0.1216 |
| Base | 2 | 2 | DSlbS7 | Combination | -2.1676 | -1.2994 | 207.6965 | -4.8884 | -3.8586 | 0.2113 |
| Base | 2 | 2 | DSlbS8 | Combination | 0.7346 | -1.2646 | 208.0648 | -4.9257 | 1.3479 | 0.0661 |
| Base | 2 | 2 | DSlbS9 | Combination | -1.0219 | -1.5506 | 249.2309 | -5.8762 | -1.7968 | 0.2068 |
| Base | 2 | 2 | DSlbS10 | Combination | -1.0219 | -1.5506 | 249.2309 | -5.8762 | -1.7968 | 0.2068 |
| Base | 2 | 2 | DSlbS11 | Combination | -1.0219 | -1.5506 | 249.2309 | -5.8762 | -1.7968 | 0.2068 |
| Base | 2 | 2 | DSlbS12 | Combination | -1.0219 | -1.5506 | 249.2309 | -5.8762 | -1.7968 | 0.2068 |
| Base | 2 | 2 | DSlbS13 | Combination | -1.0031 | -1.7948 | 291.0329 | -6.8699 | -1.7575 | 0.1942 |
| Base | 2 | 2 | DSlbS14 | Combination | -1.0031 | -1.7948 | 291.0329 | -6.8699 | -1.7575 | 0.1942 |
| Base | 2 | 2 | DSlbS15 | Combination | -1.0031 | -1.7948 | 291.0329 | -6.8699 | -1.7575 | 0.1942 |
| Base | 2 | 2 | DSlbS16 | Combination | -1.0031 | -1.7948 | 291.0329 | -6.8699 | -1.7575 | 0.1942 |
| Base | 2 | 2 | DSlbS17 | Combination | -0.7165 | -1.282 | 207.8806 | -4.9071 | -1.2553 | 0.1387 |
| Base | 2 | 2 | DSlbS18 | Combination | -0.7165 | -1.282 | 207.8806 | -4.9071 | -1.2553 | 0.1387 |
| Base | 2 | 2 | DSlbS19 | Combination | -0.7165 | -1.282 | 207.8806 | -4.9071 | -1.2553 | 0.1387 |
| Base | 2 | 2 | DSlbS20 | Combination | -0.7165 | -1.282 | 207.8806 | -4.9071 | -1.2553 | 0.1387 |
| Base | 2 | 2 | DStlS1 | Combination | -1.0031 | -1.7948 | 291.0329 | -6.8699 | -1.7575 | 0.1942 |
| Base | 2 | 2 | DStlS2 | Combination | -1.2192 | -1.8111 | 290.7317 | -6.8535 | -2.1446 | 0.248 |
| Base | 2 | 2 | DStlS3 | Combination | -2.2657 | -1.5655 | 249.073 | -5.8603 | -4.0281 | 0.2691 |
| Base | 2 | 2 | DStlS4 | Combination | 0.2219 | -1.5357 | 249.3887 | -5.8922 | 0.4346 | 0.1446 |
| Base | 2 | 2 | DStlS5 | Combination | -2.4542 | -1.8122 | 290.8487 | -6.8513 | -4.3607 | 0.2668 |
| Base | 2 | 2 | DStlS6 | Combination | 0.448 | -1.7775 | 291.217 | -6.8885 | 0.8458 | 0.1216 |
| Base | 2 | 2 | DStlS7 | Combination | -2.1676 | -1.2994 | 207.6965 | -4.8884 | -3.8586 | 0.2113 |
| Base | 2 | 2 | DStlS8 | Combination | 0.7346 | -1.2646 | 208.0648 | -4.9257 | 1.3479 | 0.0661 |
| Base | 2 | 2 | DStlS9 | Combination | -14.6364 | -1.5754 | 249.2461 | -5.843 | -26.0582 | 0.5375 |
| Base | 2 | 2 | DStlS10 | Combination | 12.5927 | -1.5258 | 249.2157 | -5.9094 | 22.4647 | -0.1238 |
| Base | 2 | 2 | DStlS11 | Combination | -1.2992 | -3.2125 | 254.2834 | -0.1935 | -2.274 | 0.1985 |
| Base | 2 | 2 | DStlS12 | Combination | -0.7445 | 0.1113 | 244.1783 | -11.559 | -1.3195 | 0.2152 |
| Base | 2 | 2 | DStlS13 | Combination | -16.8867 | -1.8238 | 291.0506 | -6.8312 | -30.0625 | 0.58 |
| Base | 2 | 2 | DStlS14 | Combination | 14.8806 | -1.7659 | 291.0151 | -6.9087 | 26.5476 | -0.1916 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|----------|---------|----------|----------|----------|---------|
| Base | 2 | 2 | DStIS15 | Combination | -1.3267 | -3.7337 | 296.9275 | -0.2401 | -2.3142 | 0.1845 |
| Base | 2 | 2 | DStIS16 | Combination | -0.6794 | 0.144 | 285.1383 | -13.4998 | -1.2007 | 0.2039 |
| Base | 2 | 2 | DStIS17 | Combination | -16.6001 | -1.3109 | 207.8984 | -4.8683 | -29.5604 | 0.5245 |
| Base | 2 | 2 | DStIS18 | Combination | 15.1672 | -1.2531 | 207.8629 | -4.9458 | 27.0497 | -0.2471 |
| Base | 2 | 2 | DStIS19 | Combination | -1.0401 | -3.2209 | 213.7752 | 1.7228 | -1.8121 | 0.129 |
| Base | 2 | 2 | DStIS20 | Combination | -0.3929 | 0.6568 | 201.986 | -11.5369 | -0.6986 | 0.1484 |
| Base | 2 | 2 | DStID1 | Combination | -0.7165 | -1.282 | 207.8806 | -4.9071 | -1.2553 | 0.1387 |
| Base | 2 | 2 | DStID2 | Combination | -0.8515 | -1.2922 | 207.6924 | -4.8969 | -1.4973 | 0.1724 |
| Base | 2 | 2 | DConS1 | Combination | -1.0031 | -1.7948 | 291.0329 | -6.8699 | -1.7575 | 0.1942 |
| Base | 2 | 2 | DConS2 | Combination | -1.2192 | -1.8111 | 290.7317 | -6.8535 | -2.1446 | 0.248 |
| Base | 2 | 2 | DConS3 | Combination | -2.2657 | -1.5655 | 249.073 | -5.8603 | -4.0281 | 0.2691 |
| Base | 2 | 2 | DConS4 | Combination | 0.2219 | -1.5357 | 249.3887 | -5.8922 | 0.4346 | 0.1446 |
| Base | 2 | 2 | DConS5 | Combination | -2.4542 | -1.8122 | 290.8487 | -6.8513 | -4.3607 | 0.2668 |
| Base | 2 | 2 | DConS6 | Combination | 0.448 | -1.7775 | 291.217 | -6.8885 | 0.8458 | 0.1216 |
| Base | 2 | 2 | DConS7 | Combination | -2.1676 | -1.2994 | 207.6965 | -4.8884 | -3.8586 | 0.2113 |
| Base | 2 | 2 | DConS8 | Combination | 0.7346 | -1.2646 | 208.0648 | -4.9257 | 1.3479 | 0.0661 |
| Base | 2 | 2 | DConS9 | Combination | -14.6364 | -1.5754 | 249.2461 | -5.843 | -26.0582 | 0.5375 |
| Base | 2 | 2 | DConS10 | Combination | 12.5927 | -1.5258 | 249.2157 | -5.9094 | 22.4647 | -0.1238 |
| Base | 2 | 2 | DConS11 | Combination | -1.2992 | -3.2125 | 254.2834 | -0.1935 | -2.274 | 0.1985 |
| Base | 2 | 2 | DConS12 | Combination | -0.7445 | 0.1113 | 244.1783 | -11.559 | -1.3195 | 0.2152 |
| Base | 2 | 2 | DConS13 | Combination | -16.8867 | -1.8238 | 291.0506 | -6.8312 | -30.0625 | 0.58 |
| Base | 2 | 2 | DConS14 | Combination | 14.8806 | -1.7659 | 291.0151 | -6.9087 | 26.5476 | -0.1916 |
| Base | 2 | 2 | DConS15 | Combination | -1.3267 | -3.7337 | 296.9275 | -0.2401 | -2.3142 | 0.1845 |
| Base | 2 | 2 | DConS16 | Combination | -0.6794 | 0.144 | 285.1383 | -13.4998 | -1.2007 | 0.2039 |
| Base | 2 | 2 | DConS17 | Combination | -16.6001 | -1.3109 | 207.8984 | -4.8683 | -29.5604 | 0.5245 |
| Base | 2 | 2 | DConS18 | Combination | 15.1672 | -1.2531 | 207.8629 | -4.9458 | 27.0497 | -0.2471 |
| Base | 2 | 2 | DConS19 | Combination | -1.0401 | -3.2209 | 213.7752 | 1.7228 | -1.8121 | 0.129 |
| Base | 2 | 2 | DConS20 | Combination | -0.3929 | 0.6568 | 201.986 | -11.5369 | -0.6986 | 0.1484 |
| Base | 3 | 3 | Dead | LinStatic | 3.5656 | 0.6555 | 76.1418 | -0.6645 | -4.2628 | 0.1498 |
| Base | 3 | 3 | Live | LinStatic | 0.1313 | 0.0025 | 0.0442 | 0.003 | 0.3637 | 0.0359 |
| Base | 3 | 3 | WIND | LinStatic | -0.0768 | -0.0187 | -0.1321 | 0.0365 | -0.2578 | 0.0613 |
| Base | 3 | 3 | EQX | LinStatic | -3.0918 | -0.1866 | -2.0248 | 0.3291 | -7.908 | 0.3625 |
| Base | 3 | 3 | EQY | LinStatic | -0.0646 | -8.1396 | -0.5664 | 14.2604 | -0.1249 | 0.1121 |
| Base | 3 | 3 | DSIbS1 | Combination | 4.9918 | 0.9177 | 106.5986 | -0.9303 | -5.9679 | 0.2097 |
| Base | 3 | 3 | DSIbS2 | Combination | 5.202 | 0.9217 | 106.6693 | -0.9255 | -5.3859 | 0.2671 |
| Base | 3 | 3 | DSIbS3 | Combination | 4.3441 | 0.7672 | 91.2647 | -0.75 | -4.9883 | 0.2963 |
| Base | 3 | 3 | DSIbS4 | Combination | 4.5285 | 0.812 | 91.5818 | -0.8375 | -4.3695 | 0.1492 |
| Base | 3 | 3 | DSIbS5 | Combination | 4.8843 | 0.8915 | 106.4136 | -0.8792 | -6.3289 | 0.2955 |
| Base | 3 | 3 | DSIbS6 | Combination | 5.0993 | 0.9439 | 106.7835 | -0.9813 | -5.6069 | 0.1239 |
| Base | 3 | 3 | DSIbS7 | Combination | 3.4581 | 0.6293 | 75.9569 | -0.6134 | -4.6238 | 0.2356 |
| Base | 3 | 3 | DSIbS8 | Combination | 3.6731 | 0.6817 | 76.3268 | -0.7155 | -3.9018 | 0.064 |
| Base | 3 | 3 | DSIbS9 | Combination | 4.4363 | 0.7896 | 91.4232 | -0.7938 | -4.6789 | 0.2228 |
| Base | 3 | 3 | DSIbS10 | Combination | 4.4363 | 0.7896 | 91.4232 | -0.7938 | -4.6789 | 0.2228 |
| Base | 3 | 3 | DSIbS11 | Combination | 4.4363 | 0.7896 | 91.4232 | -0.7938 | -4.6789 | 0.2228 |
| Base | 3 | 3 | DSIbS12 | Combination | 4.4363 | 0.7896 | 91.4232 | -0.7938 | -4.6789 | 0.2228 |
| Base | 3 | 3 | DSIbS13 | Combination | 4.9918 | 0.9177 | 106.5986 | -0.9303 | -5.9679 | 0.2097 |
| Base | 3 | 3 | DSIbS14 | Combination | 4.9918 | 0.9177 | 106.5986 | -0.9303 | -5.9679 | 0.2097 |
| Base | 3 | 3 | DSIbS15 | Combination | 4.9918 | 0.9177 | 106.5986 | -0.9303 | -5.9679 | 0.2097 |
| Base | 3 | 3 | DSIbS16 | Combination | 4.9918 | 0.9177 | 106.5986 | -0.9303 | -5.9679 | 0.2097 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|---------|----------|----------|----------|----------|---------|
| Base | 3 | 3 | DSIbS17 | Combination | 3.5656 | 0.6555 | 76.1418 | -0.6645 | -4.2628 | 0.1498 |
| Base | 3 | 3 | DSIbS18 | Combination | 3.5656 | 0.6555 | 76.1418 | -0.6645 | -4.2628 | 0.1498 |
| Base | 3 | 3 | DSIbS19 | Combination | 3.5656 | 0.6555 | 76.1418 | -0.6645 | -4.2628 | 0.1498 |
| Base | 3 | 3 | DSIbS20 | Combination | 3.5656 | 0.6555 | 76.1418 | -0.6645 | -4.2628 | 0.1498 |
| Base | 3 | 3 | DStIS1 | Combination | 4.9918 | 0.9177 | 106.5986 | -0.9303 | -5.9679 | 0.2097 |
| Base | 3 | 3 | DStIS2 | Combination | 5.202 | 0.9217 | 106.6693 | -0.9255 | -5.3859 | 0.2671 |
| Base | 3 | 3 | DStIS3 | Combination | 4.3441 | 0.7672 | 91.2647 | -0.75 | -4.9883 | 0.2963 |
| Base | 3 | 3 | DStIS4 | Combination | 4.5285 | 0.812 | 91.5818 | -0.8375 | -4.3695 | 0.1492 |
| Base | 3 | 3 | DStIS5 | Combination | 4.8843 | 0.8915 | 106.4136 | -0.8792 | -6.3289 | 0.2955 |
| Base | 3 | 3 | DStIS6 | Combination | 5.0993 | 0.9439 | 106.7835 | -0.9813 | -5.6069 | 0.1239 |
| Base | 3 | 3 | DStIS7 | Combination | 3.4581 | 0.6293 | 75.9569 | -0.6134 | -4.6238 | 0.2356 |
| Base | 3 | 3 | DStIS8 | Combination | 3.6731 | 0.6817 | 76.3268 | -0.7155 | -3.9018 | 0.064 |
| Base | 3 | 3 | DStIS9 | Combination | 0.7262 | 0.5657 | 88.9934 | -0.3989 | -14.1685 | 0.6578 |
| Base | 3 | 3 | DStIS10 | Combination | 8.1464 | 1.0135 | 93.853 | -1.1887 | 4.8108 | -0.2122 |
| Base | 3 | 3 | DStIS11 | Combination | 4.3588 | -8.978 | 90.7435 | 16.3187 | -4.8288 | 0.3572 |
| Base | 3 | 3 | DStIS12 | Combination | 4.5139 | 10.5571 | 92.1029 | -17.9063 | -4.529 | 0.0883 |
| Base | 3 | 3 | DStIS13 | Combination | 0.6633 | 0.6565 | 103.7638 | -0.4696 | -17.0392 | 0.7172 |
| Base | 3 | 3 | DStIS14 | Combination | 9.3203 | 1.179 | 109.4333 | -1.3909 | 5.1033 | -0.2978 |
| Base | 3 | 3 | DStIS15 | Combination | 4.9013 | -10.4778 | 105.8056 | 19.0344 | -6.1428 | 0.3666 |
| Base | 3 | 3 | DStIS16 | Combination | 5.0823 | 12.3132 | 107.3915 | -20.8949 | -5.793 | 0.0528 |
| Base | 3 | 3 | DStIS17 | Combination | -0.7629 | 0.3943 | 73.307 | -0.2038 | -15.334 | 0.6573 |
| Base | 3 | 3 | DStIS18 | Combination | 7.8941 | 0.9167 | 78.9766 | -1.1252 | 6.8084 | -0.3577 |
| Base | 3 | 3 | DStIS19 | Combination | 3.4751 | -10.74 | 75.3488 | 19.3002 | -4.4377 | 0.3067 |
| Base | 3 | 3 | DStIS20 | Combination | 3.6561 | 12.051 | 76.9348 | -20.6291 | -4.0879 | -0.0071 |
| Base | 3 | 3 | DStID1 | Combination | 3.5656 | 0.6555 | 76.1418 | -0.6645 | -4.2628 | 0.1498 |
| Base | 3 | 3 | DStID2 | Combination | 3.6969 | 0.658 | 76.186 | -0.6615 | -3.8991 | 0.1856 |
| Base | 3 | 3 | DConS1 | Combination | 4.9918 | 0.9177 | 106.5986 | -0.9303 | -5.9679 | 0.2097 |
| Base | 3 | 3 | DConS2 | Combination | 5.202 | 0.9217 | 106.6693 | -0.9255 | -5.3859 | 0.2671 |
| Base | 3 | 3 | DConS3 | Combination | 4.3441 | 0.7672 | 91.2647 | -0.75 | -4.9883 | 0.2963 |
| Base | 3 | 3 | DConS4 | Combination | 4.5285 | 0.812 | 91.5818 | -0.8375 | -4.3695 | 0.1492 |
| Base | 3 | 3 | DConS5 | Combination | 4.8843 | 0.8915 | 106.4136 | -0.8792 | -6.3289 | 0.2955 |
| Base | 3 | 3 | DConS6 | Combination | 5.0993 | 0.9439 | 106.7835 | -0.9813 | -5.6069 | 0.1239 |
| Base | 3 | 3 | DConS7 | Combination | 3.4581 | 0.6293 | 75.9569 | -0.6134 | -4.6238 | 0.2356 |
| Base | 3 | 3 | DConS8 | Combination | 3.6731 | 0.6817 | 76.3268 | -0.7155 | -3.9018 | 0.064 |
| Base | 3 | 3 | DConS9 | Combination | 0.7262 | 0.5657 | 88.9934 | -0.3989 | -14.1685 | 0.6578 |
| Base | 3 | 3 | DConS10 | Combination | 8.1464 | 1.0135 | 93.853 | -1.1887 | 4.8108 | -0.2122 |
| Base | 3 | 3 | DConS11 | Combination | 4.3588 | -8.978 | 90.7435 | 16.3187 | -4.8288 | 0.3572 |
| Base | 3 | 3 | DConS12 | Combination | 4.5139 | 10.5571 | 92.1029 | -17.9063 | -4.529 | 0.0883 |
| Base | 3 | 3 | DConS13 | Combination | 0.6633 | 0.6565 | 103.7638 | -0.4696 | -17.0392 | 0.7172 |
| Base | 3 | 3 | DConS14 | Combination | 9.3203 | 1.179 | 109.4333 | -1.3909 | 5.1033 | -0.2978 |
| Base | 3 | 3 | DConS15 | Combination | 4.9013 | -10.4778 | 105.8056 | 19.0344 | -6.1428 | 0.3666 |
| Base | 3 | 3 | DConS16 | Combination | 5.0823 | 12.3132 | 107.3915 | -20.8949 | -5.793 | 0.0528 |
| Base | 3 | 3 | DConS17 | Combination | -0.7629 | 0.3943 | 73.307 | -0.2038 | -15.334 | 0.6573 |
| Base | 3 | 3 | DConS18 | Combination | 7.8941 | 0.9167 | 78.9766 | -1.1252 | 6.8084 | -0.3577 |
| Base | 3 | 3 | DConS19 | Combination | 3.4751 | -10.74 | 75.3488 | 19.3002 | -4.4377 | 0.3067 |
| Base | 3 | 3 | DConS20 | Combination | 3.6561 | 12.051 | 76.9348 | -20.6291 | -4.0879 | -0.0071 |
| Base | 4 | 4 | Dead | LinStatic | -1.674 | 0.4162 | 67.9317 | -0.4503 | -0.8008 | 0.1635 |
| Base | 4 | 4 | Live | LinStatic | 0.3453 | 0.0022 | -0.2043 | -0.0023 | 0.5881 | 0.0362 |
| Base | 4 | 4 | WIND | LinStatic | -0.2716 | 0.001 | 0.1953 | -0.0003 | -0.4637 | 0.0668 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|----------|---------|----------|----------|----------|---------|
| Base | 4 | 4 | EQX | LinStatic | -6.9548 | -0.0126 | 4.3011 | 0.0203 | -11.972 | 0.4202 |
| Base | 4 | 4 | EQY | LinStatic | -0.0824 | -5.8202 | -3.0067 | 9.4032 | -0.1444 | 0.1691 |
| Base | 4 | 4 | DSlbS1 | Combination | -2.3436 | 0.5826 | 95.1043 | -0.6304 | -1.1211 | 0.2289 |
| Base | 4 | 4 | DSlbS2 | Combination | -1.7912 | 0.5861 | 94.7774 | -0.6341 | -0.1802 | 0.2869 |
| Base | 4 | 4 | DSlbS3 | Combination | -1.9204 | 0.5031 | 81.5071 | -0.5435 | -0.8117 | 0.3199 |
| Base | 4 | 4 | DSlbS4 | Combination | -1.2685 | 0.5008 | 81.0385 | -0.5427 | 0.3012 | 0.1596 |
| Base | 4 | 4 | DSlbS5 | Combination | -2.7239 | 0.584 | 95.3777 | -0.6309 | -1.7702 | 0.3224 |
| Base | 4 | 4 | DSlbS6 | Combination | -1.9633 | 0.5813 | 94.831 | -0.63 | -0.4719 | 0.1355 |
| Base | 4 | 4 | DSlbS7 | Combination | -2.0543 | 0.4175 | 68.205 | -0.4507 | -1.4499 | 0.257 |
| Base | 4 | 4 | DSlbS8 | Combination | -1.2937 | 0.4148 | 67.6583 | -0.4499 | -0.1516 | 0.07 |
| Base | 4 | 4 | DSlbS9 | Combination | -1.5945 | 0.502 | 81.2728 | -0.5431 | -0.2552 | 0.2397 |
| Base | 4 | 4 | DSlbS10 | Combination | -1.5945 | 0.502 | 81.2728 | -0.5431 | -0.2552 | 0.2397 |
| Base | 4 | 4 | DSlbS11 | Combination | -1.5945 | 0.502 | 81.2728 | -0.5431 | -0.2552 | 0.2397 |
| Base | 4 | 4 | DSlbS12 | Combination | -1.5945 | 0.502 | 81.2728 | -0.5431 | -0.2552 | 0.2397 |
| Base | 4 | 4 | DSlbS13 | Combination | -2.3436 | 0.5826 | 95.1043 | -0.6304 | -1.1211 | 0.2289 |
| Base | 4 | 4 | DSlbS14 | Combination | -2.3436 | 0.5826 | 95.1043 | -0.6304 | -1.1211 | 0.2289 |
| Base | 4 | 4 | DSlbS15 | Combination | -2.3436 | 0.5826 | 95.1043 | -0.6304 | -1.1211 | 0.2289 |
| Base | 4 | 4 | DSlbS16 | Combination | -2.3436 | 0.5826 | 95.1043 | -0.6304 | -1.1211 | 0.2289 |
| Base | 4 | 4 | DSlbS17 | Combination | -1.674 | 0.4162 | 67.9317 | -0.4503 | -0.8008 | 0.1635 |
| Base | 4 | 4 | DSlbS18 | Combination | -1.674 | 0.4162 | 67.9317 | -0.4503 | -0.8008 | 0.1635 |
| Base | 4 | 4 | DSlbS19 | Combination | -1.674 | 0.4162 | 67.9317 | -0.4503 | -0.8008 | 0.1635 |
| Base | 4 | 4 | DSlbS20 | Combination | -1.674 | 0.4162 | 67.9317 | -0.4503 | -0.8008 | 0.1635 |
| Base | 4 | 4 | DStIS1 | Combination | -2.3436 | 0.5826 | 95.1043 | -0.6304 | -1.1211 | 0.2289 |
| Base | 4 | 4 | DStIS2 | Combination | -1.7912 | 0.5861 | 94.7774 | -0.6341 | -0.1802 | 0.2869 |
| Base | 4 | 4 | DStIS3 | Combination | -1.9204 | 0.5031 | 81.5071 | -0.5435 | -0.8117 | 0.3199 |
| Base | 4 | 4 | DStIS4 | Combination | -1.2685 | 0.5008 | 81.0385 | -0.5427 | 0.3012 | 0.1596 |
| Base | 4 | 4 | DStIS5 | Combination | -2.7239 | 0.584 | 95.3777 | -0.6309 | -1.7702 | 0.3224 |
| Base | 4 | 4 | DStIS6 | Combination | -1.9633 | 0.5813 | 94.831 | -0.63 | -0.4719 | 0.1355 |
| Base | 4 | 4 | DStIS7 | Combination | -2.0543 | 0.4175 | 68.205 | -0.4507 | -1.4499 | 0.257 |
| Base | 4 | 4 | DStIS8 | Combination | -1.2937 | 0.4148 | 67.6583 | -0.4499 | -0.1516 | 0.07 |
| Base | 4 | 4 | DStIS9 | Combination | -9.9402 | 0.4869 | 86.4341 | -0.5187 | -14.6216 | 0.744 |
| Base | 4 | 4 | DStIS10 | Combination | 6.7513 | 0.5171 | 76.1114 | -0.5675 | 14.1111 | -0.2646 |
| Base | 4 | 4 | DStIS11 | Combination | -1.6934 | -6.4823 | 77.6647 | 10.7408 | -0.4285 | 0.4426 |
| Base | 4 | 4 | DStIS12 | Combination | -1.4956 | 7.4863 | 84.8808 | -11.827 | -0.082 | 0.0368 |
| Base | 4 | 4 | DStIS13 | Combination | -12.0803 | 0.5651 | 101.1259 | -0.602 | -17.8818 | 0.8173 |
| Base | 4 | 4 | DStIS14 | Combination | 7.3931 | 0.6002 | 89.0827 | -0.6588 | 15.6397 | -0.3594 |
| Base | 4 | 4 | DStIS15 | Combination | -2.459 | -7.5657 | 90.8949 | 12.5341 | -1.3232 | 0.4657 |
| Base | 4 | 4 | DStIS16 | Combination | -2.2282 | 8.731 | 99.3137 | -13.7949 | -0.9189 | -0.0078 |
| Base | 4 | 4 | DStIS17 | Combination | -11.4107 | 0.3986 | 73.9533 | -0.4219 | -17.5615 | 0.7519 |
| Base | 4 | 4 | DStIS18 | Combination | 8.0627 | 0.4337 | 61.9101 | -0.4787 | 15.96 | -0.4248 |
| Base | 4 | 4 | DStIS19 | Combination | -1.7894 | -7.7322 | 63.7223 | 12.7142 | -1.0029 | 0.4002 |
| Base | 4 | 4 | DStIS20 | Combination | -1.5586 | 8.5645 | 72.141 | -13.6148 | -0.5986 | -0.0732 |
| Base | 4 | 4 | DStID1 | Combination | -1.674 | 0.4162 | 67.9317 | -0.4503 | -0.8008 | 0.1635 |
| Base | 4 | 4 | DStID2 | Combination | -1.3287 | 0.4183 | 67.7273 | -0.4526 | -0.2127 | 0.1998 |
| Base | 4 | 4 | DConS1 | Combination | -2.3436 | 0.5826 | 95.1043 | -0.6304 | -1.1211 | 0.2289 |
| Base | 4 | 4 | DConS2 | Combination | -1.7912 | 0.5861 | 94.7774 | -0.6341 | -0.1802 | 0.2869 |
| Base | 4 | 4 | DConS3 | Combination | -1.9204 | 0.5031 | 81.5071 | -0.5435 | -0.8117 | 0.3199 |
| Base | 4 | 4 | DConS4 | Combination | -1.2685 | 0.5008 | 81.0385 | -0.5427 | 0.3012 | 0.1596 |
| Base | 4 | 4 | DConS5 | Combination | -2.7239 | 0.584 | 95.3777 | -0.6309 | -1.7702 | 0.3224 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|----------|---------|----------|----------|----------|---------|
| Base | 4 | 4 | DConS6 | Combination | -1.9633 | 0.5813 | 94.831 | -0.63 | -0.4719 | 0.1355 |
| Base | 4 | 4 | DConS7 | Combination | -2.0543 | 0.4175 | 68.205 | -0.4507 | -1.4499 | 0.257 |
| Base | 4 | 4 | DConS8 | Combination | -1.2937 | 0.4148 | 67.6583 | -0.4499 | -0.1516 | 0.07 |
| Base | 4 | 4 | DConS9 | Combination | -9.9402 | 0.4869 | 86.4341 | -0.5187 | -14.6216 | 0.744 |
| Base | 4 | 4 | DConS10 | Combination | 6.7513 | 0.5171 | 76.1114 | -0.5675 | 14.1111 | -0.2646 |
| Base | 4 | 4 | DConS11 | Combination | -1.6934 | -6.4823 | 77.6647 | 10.7408 | -0.4285 | 0.4426 |
| Base | 4 | 4 | DConS12 | Combination | -1.4956 | 7.4863 | 84.8808 | -11.827 | -0.082 | 0.0368 |
| Base | 4 | 4 | DConS13 | Combination | -12.0803 | 0.5651 | 101.1259 | -0.602 | -17.8818 | 0.8173 |
| Base | 4 | 4 | DConS14 | Combination | 7.3931 | 0.6002 | 89.0827 | -0.6588 | 15.6397 | -0.3594 |
| Base | 4 | 4 | DConS15 | Combination | -2.459 | -7.5657 | 90.8949 | 12.5341 | -1.3232 | 0.4657 |
| Base | 4 | 4 | DConS16 | Combination | -2.2282 | 8.731 | 99.3137 | -13.7949 | -0.9189 | -0.0078 |
| Base | 4 | 4 | DConS17 | Combination | -11.4107 | 0.3986 | 73.9533 | -0.4219 | -17.5615 | 0.7519 |
| Base | 4 | 4 | DConS18 | Combination | 8.0627 | 0.4337 | 61.9101 | -0.4787 | 15.96 | -0.4248 |
| Base | 4 | 4 | DConS19 | Combination | -1.7894 | -7.7322 | 63.7223 | 12.7142 | -1.0029 | 0.4002 |
| Base | 4 | 4 | DConS20 | Combination | -1.5586 | 8.5645 | 72.141 | -13.6148 | -0.5986 | -0.0732 |
| Base | 5 | 5 | Dead | LinStatic | -6.9029 | -4.503 | 62.1678 | -1.4687 | 1.1658 | -0.1893 |
| Base | 5 | 5 | Live | LinStatic | 0.0294 | 0.1263 | 0.1355 | -0.1294 | -0.0709 | -0.0699 |
| Base | 5 | 5 | WIND | LinStatic | -0.6943 | 0.0915 | 0.3441 | -0.1077 | -1.4995 | -0.0349 |
| Base | 5 | 5 | EQX | LinStatic | -8.6852 | 0.1666 | 2.8839 | -0.3165 | -17.404 | 0.1549 |
| Base | 5 | 5 | EQY | LinStatic | -0.1882 | -6.4769 | 2.5132 | 12.4047 | -0.3507 | -0.2436 |
| Base | 5 | 5 | DSlbS1 | Combination | -9.6641 | -6.3042 | 87.0349 | -2.0562 | 1.6322 | -0.265 |
| Base | 5 | 5 | DSlbS2 | Combination | -9.6171 | -6.1021 | 87.2517 | -2.2632 | 1.5187 | -0.3769 |
| Base | 5 | 5 | DSlbS3 | Combination | -9.0814 | -5.1422 | 75.1768 | -2.047 | -0.4854 | -0.353 |
| Base | 5 | 5 | DSlbS4 | Combination | -7.4151 | -5.3617 | 74.3511 | -1.7884 | 3.1133 | -0.2692 |
| Base | 5 | 5 | DSlbS5 | Combination | -10.6361 | -6.1761 | 87.5165 | -2.207 | -0.4671 | -0.3139 |
| Base | 5 | 5 | DSlbS6 | Combination | -8.6921 | -6.4322 | 86.5532 | -1.9054 | 3.7314 | -0.2161 |
| Base | 5 | 5 | DSlbS7 | Combination | -7.8749 | -4.3749 | 62.6494 | -1.6195 | -0.9334 | -0.2382 |
| Base | 5 | 5 | DSlbS8 | Combination | -5.9309 | -4.631 | 61.6861 | -1.3179 | 3.2651 | -0.1404 |
| Base | 5 | 5 | DSlbS9 | Combination | -8.2482 | -5.252 | 74.764 | -1.9177 | 1.3139 | -0.3111 |
| Base | 5 | 5 | DSlbS10 | Combination | -8.2482 | -5.252 | 74.764 | -1.9177 | 1.3139 | -0.3111 |
| Base | 5 | 5 | DSlbS11 | Combination | -8.2482 | -5.252 | 74.764 | -1.9177 | 1.3139 | -0.3111 |
| Base | 5 | 5 | DSlbS12 | Combination | -8.2482 | -5.252 | 74.764 | -1.9177 | 1.3139 | -0.3111 |
| Base | 5 | 5 | DSlbS13 | Combination | -9.6641 | -6.3042 | 87.0349 | -2.0562 | 1.6322 | -0.265 |
| Base | 5 | 5 | DSlbS14 | Combination | -9.6641 | -6.3042 | 87.0349 | -2.0562 | 1.6322 | -0.265 |
| Base | 5 | 5 | DSlbS15 | Combination | -9.6641 | -6.3042 | 87.0349 | -2.0562 | 1.6322 | -0.265 |
| Base | 5 | 5 | DSlbS16 | Combination | -9.6641 | -6.3042 | 87.0349 | -2.0562 | 1.6322 | -0.265 |
| Base | 5 | 5 | DSlbS17 | Combination | -6.9029 | -4.503 | 62.1678 | -1.4687 | 1.1658 | -0.1893 |
| Base | 5 | 5 | DSlbS18 | Combination | -6.9029 | -4.503 | 62.1678 | -1.4687 | 1.1658 | -0.1893 |
| Base | 5 | 5 | DSlbS19 | Combination | -6.9029 | -4.503 | 62.1678 | -1.4687 | 1.1658 | -0.1893 |
| Base | 5 | 5 | DSlbS20 | Combination | -6.9029 | -4.503 | 62.1678 | -1.4687 | 1.1658 | -0.1893 |
| Base | 5 | 5 | DStlS1 | Combination | -9.6641 | -6.3042 | 87.0349 | -2.0562 | 1.6322 | -0.265 |
| Base | 5 | 5 | DStlS2 | Combination | -9.6171 | -6.1021 | 87.2517 | -2.2632 | 1.5187 | -0.3769 |
| Base | 5 | 5 | DStlS3 | Combination | -9.0814 | -5.1422 | 75.1768 | -2.047 | -0.4854 | -0.353 |
| Base | 5 | 5 | DStlS4 | Combination | -7.4151 | -5.3617 | 74.3511 | -1.7884 | 3.1133 | -0.2692 |
| Base | 5 | 5 | DStlS5 | Combination | -10.6361 | -6.1761 | 87.5165 | -2.207 | -0.4671 | -0.3139 |
| Base | 5 | 5 | DStlS6 | Combination | -8.6921 | -6.4322 | 86.5532 | -1.9054 | 3.7314 | -0.2161 |
| Base | 5 | 5 | DStlS7 | Combination | -7.8749 | -4.3749 | 62.6494 | -1.6195 | -0.9334 | -0.2382 |
| Base | 5 | 5 | DStlS8 | Combination | -5.9309 | -4.631 | 61.6861 | -1.3179 | 3.2651 | -0.1404 |
| Base | 5 | 5 | DStlS9 | Combination | -18.6704 | -5.0521 | 78.2246 | -2.2975 | -19.5709 | -0.1252 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|----------|----------|---------|----------|----------|---------|
| Base | 5 | 5 | DStIS10 | Combination | 2.174 | -5.4519 | 71.3033 | -1.5378 | 22.1988 | -0.4969 |
| Base | 5 | 5 | DStIS11 | Combination | -8.4741 | -13.0243 | 77.7797 | 12.9679 | 0.8931 | -0.6034 |
| Base | 5 | 5 | DStIS12 | Combination | -8.0224 | 2.5203 | 71.7482 | -16.8033 | 1.7347 | -0.0188 |
| Base | 5 | 5 | DStIS13 | Combination | -21.8233 | -6.0709 | 91.0723 | -2.4994 | -22.7335 | -0.0482 |
| Base | 5 | 5 | DStIS14 | Combination | 2.4951 | -6.5374 | 82.9974 | -1.613 | 25.9978 | -0.4819 |
| Base | 5 | 5 | DStIS15 | Combination | -9.9276 | -15.3719 | 90.5533 | 15.3103 | 1.1412 | -0.606 |
| Base | 5 | 5 | DStIS16 | Combination | -9.4006 | 2.7635 | 83.5164 | -19.4227 | 2.1231 | 0.076 |
| Base | 5 | 5 | DStIS17 | Combination | -19.0622 | -4.2698 | 66.2052 | -1.9119 | -23.1998 | 0.0276 |
| Base | 5 | 5 | DStIS18 | Combination | 5.2563 | -4.7362 | 58.1303 | -1.0255 | 25.5314 | -0.4062 |
| Base | 5 | 5 | DStIS19 | Combination | -7.1665 | -13.5707 | 65.6862 | 15.8978 | 0.6749 | -0.5303 |
| Base | 5 | 5 | DStIS20 | Combination | -6.6394 | 4.5647 | 58.6493 | -18.8352 | 1.6568 | 0.1517 |
| Base | 5 | 5 | DStID1 | Combination | -6.9029 | -4.503 | 62.1678 | -1.4687 | 1.1658 | -0.1893 |
| Base | 5 | 5 | DStID2 | Combination | -6.8735 | -4.3767 | 62.3033 | -1.5981 | 1.0949 | -0.2592 |
| Base | 5 | 5 | DConS1 | Combination | -9.6641 | -6.3042 | 87.0349 | -2.0562 | 1.6322 | -0.265 |
| Base | 5 | 5 | DConS2 | Combination | -9.6171 | -6.1021 | 87.2517 | -2.2632 | 1.5187 | -0.3769 |
| Base | 5 | 5 | DConS3 | Combination | -9.0814 | -5.1422 | 75.1768 | -2.047 | -0.4854 | -0.353 |
| Base | 5 | 5 | DConS4 | Combination | -7.4151 | -5.3617 | 74.3511 | -1.7884 | 3.1133 | -0.2692 |
| Base | 5 | 5 | DConS5 | Combination | -10.6361 | -6.1761 | 87.5165 | -2.207 | -0.4671 | -0.3139 |
| Base | 5 | 5 | DConS6 | Combination | -8.6921 | -6.4322 | 86.5532 | -1.9054 | 3.7314 | -0.2161 |
| Base | 5 | 5 | DConS7 | Combination | -7.8749 | -4.3749 | 62.6494 | -1.6195 | -0.9334 | -0.2382 |
| Base | 5 | 5 | DConS8 | Combination | -5.9309 | -4.631 | 61.6861 | -1.3179 | 3.2651 | -0.1404 |
| Base | 5 | 5 | DConS9 | Combination | -18.6704 | -5.0521 | 78.2246 | -2.2975 | -19.5709 | -0.1252 |
| Base | 5 | 5 | DConS10 | Combination | 2.174 | -5.4519 | 71.3033 | -1.5378 | 22.1988 | -0.4969 |
| Base | 5 | 5 | DConS11 | Combination | -8.4741 | -13.0243 | 77.7797 | 12.9679 | 0.8931 | -0.6034 |
| Base | 5 | 5 | DConS12 | Combination | -8.0224 | 2.5203 | 71.7482 | -16.8033 | 1.7347 | -0.0188 |
| Base | 5 | 5 | DConS13 | Combination | -21.8233 | -6.0709 | 91.0723 | -2.4994 | -22.7335 | -0.0482 |
| Base | 5 | 5 | DConS14 | Combination | 2.4951 | -6.5374 | 82.9974 | -1.613 | 25.9978 | -0.4819 |
| Base | 5 | 5 | DConS15 | Combination | -9.9276 | -15.3719 | 90.5533 | 15.3103 | 1.1412 | -0.606 |
| Base | 5 | 5 | DConS16 | Combination | -9.4006 | 2.7635 | 83.5164 | -19.4227 | 2.1231 | 0.076 |
| Base | 5 | 5 | DConS17 | Combination | -19.0622 | -4.2698 | 66.2052 | -1.9119 | -23.1998 | 0.0276 |
| Base | 5 | 5 | DConS18 | Combination | 5.2563 | -4.7362 | 58.1303 | -1.0255 | 25.5314 | -0.4062 |
| Base | 5 | 5 | DConS19 | Combination | -7.1665 | -13.5707 | 65.6862 | 15.8978 | 0.6749 | -0.5303 |
| Base | 5 | 5 | DConS20 | Combination | -6.6394 | 4.5647 | 58.6493 | -18.8352 | 1.6568 | 0.1517 |
| Base | 6 | 6 | Dead | LinStatic | -1.0435 | 0.6972 | 70.5455 | -0.7318 | 6.1735 | -0.1861 |
| Base | 6 | 6 | Live | LinStatic | -0.2882 | 0.009 | -0.0554 | -0.0083 | -0.8725 | -0.0762 |
| Base | 6 | 6 | WIND | LinStatic | -0.3489 | 0.0316 | -0.0316 | -0.046 | -1.2899 | -0.0252 |
| Base | 6 | 6 | EQX | LinStatic | -2.5446 | 0.2034 | 0.0158 | -0.354 | -9.2779 | 0.2604 |
| Base | 6 | 6 | EQY | LinStatic | -0.1969 | -8.0074 | -0.528 | 14.0271 | -0.3627 | 0.0731 |
| Base | 6 | 6 | DSlbS1 | Combination | -1.4609 | 0.976 | 98.7638 | -1.0245 | 8.6429 | -0.2606 |
| Base | 6 | 6 | DSlbS2 | Combination | -1.922 | 0.9905 | 98.6752 | -1.0377 | 7.2468 | -0.3824 |
| Base | 6 | 6 | DSlbS3 | Combination | -2.0167 | 0.8853 | 84.5503 | -0.9432 | 4.8133 | -0.345 |
| Base | 6 | 6 | DSlbS4 | Combination | -1.1793 | 0.8095 | 84.6261 | -0.8329 | 7.909 | -0.2845 |
| Base | 6 | 6 | DSlbS5 | Combination | -1.9494 | 1.0202 | 98.7196 | -1.0888 | 6.8371 | -0.2958 |
| Base | 6 | 6 | DSlbS6 | Combination | -0.9724 | 0.9318 | 98.808 | -0.9602 | 10.4486 | -0.2253 |
| Base | 6 | 6 | DSlbS7 | Combination | -1.532 | 0.7414 | 70.5013 | -0.7961 | 4.3677 | -0.2214 |
| Base | 6 | 6 | DSlbS8 | Combination | -0.555 | 0.6529 | 70.5897 | -0.6675 | 7.9793 | -0.1509 |
| Base | 6 | 6 | DSlbS9 | Combination | -1.598 | 0.8474 | 84.5882 | -0.8881 | 6.3611 | -0.3148 |
| Base | 6 | 6 | DSlbS10 | Combination | -1.598 | 0.8474 | 84.5882 | -0.8881 | 6.3611 | -0.3148 |
| Base | 6 | 6 | DSlbS11 | Combination | -1.598 | 0.8474 | 84.5882 | -0.8881 | 6.3611 | -0.3148 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|---------|----------|---------|----------|---------|---------|
| Base | 6 | 6 | DSIbS12 | Combination | -1.598 | 0.8474 | 84.5882 | -0.8881 | 6.3611 | -0.3148 |
| Base | 6 | 6 | DSIbS13 | Combination | -1.4609 | 0.976 | 98.7638 | -1.0245 | 8.6429 | -0.2606 |
| Base | 6 | 6 | DSIbS14 | Combination | -1.4609 | 0.976 | 98.7638 | -1.0245 | 8.6429 | -0.2606 |
| Base | 6 | 6 | DSIbS15 | Combination | -1.4609 | 0.976 | 98.7638 | -1.0245 | 8.6429 | -0.2606 |
| Base | 6 | 6 | DSIbS16 | Combination | -1.4609 | 0.976 | 98.7638 | -1.0245 | 8.6429 | -0.2606 |
| Base | 6 | 6 | DSIbS17 | Combination | -1.0435 | 0.6972 | 70.5455 | -0.7318 | 6.1735 | -0.1861 |
| Base | 6 | 6 | DSIbS18 | Combination | -1.0435 | 0.6972 | 70.5455 | -0.7318 | 6.1735 | -0.1861 |
| Base | 6 | 6 | DSIbS19 | Combination | -1.0435 | 0.6972 | 70.5455 | -0.7318 | 6.1735 | -0.1861 |
| Base | 6 | 6 | DSIbS20 | Combination | -1.0435 | 0.6972 | 70.5455 | -0.7318 | 6.1735 | -0.1861 |
| Base | 6 | 6 | DStIS1 | Combination | -1.4609 | 0.976 | 98.7638 | -1.0245 | 8.6429 | -0.2606 |
| Base | 6 | 6 | DStIS2 | Combination | -1.922 | 0.9905 | 98.6752 | -1.0377 | 7.2468 | -0.3824 |
| Base | 6 | 6 | DStIS3 | Combination | -2.0167 | 0.8853 | 84.5503 | -0.9432 | 4.8133 | -0.345 |
| Base | 6 | 6 | DStIS4 | Combination | -1.1793 | 0.8095 | 84.6261 | -0.8329 | 7.909 | -0.2845 |
| Base | 6 | 6 | DStIS5 | Combination | -1.9494 | 1.0202 | 98.7196 | -1.0888 | 6.8371 | -0.2958 |
| Base | 6 | 6 | DStIS6 | Combination | -0.9724 | 0.9318 | 98.808 | -0.9602 | 10.4486 | -0.2253 |
| Base | 6 | 6 | DStIS7 | Combination | -1.532 | 0.7414 | 70.5013 | -0.7961 | 4.3677 | -0.2214 |
| Base | 6 | 6 | DStIS8 | Combination | -0.555 | 0.6529 | 70.5897 | -0.6675 | 7.9793 | -0.1509 |
| Base | 6 | 6 | DStIS9 | Combination | -4.6515 | 1.0915 | 84.6072 | -1.3129 | -4.7724 | -0.0022 |
| Base | 6 | 6 | DStIS10 | Combination | 1.4555 | 0.6034 | 84.5693 | -0.4633 | 17.4947 | -0.6273 |
| Base | 6 | 6 | DStIS11 | Combination | -1.8343 | -8.7614 | 83.9546 | 15.9445 | 5.9259 | -0.2271 |
| Base | 6 | 6 | DStIS12 | Combination | -1.3617 | 10.4563 | 85.2218 | -17.7206 | 6.7964 | -0.4025 |
| Base | 6 | 6 | DStIS13 | Combination | -5.0234 | 1.2608 | 98.7859 | -1.5201 | -4.3463 | 0.104 |
| Base | 6 | 6 | DStIS14 | Combination | 2.1015 | 0.6913 | 98.7417 | -0.5289 | 21.632 | -0.6252 |
| Base | 6 | 6 | DStIS15 | Combination | -1.7366 | -10.2343 | 98.0245 | 18.6135 | 8.135 | -0.1583 |
| Base | 6 | 6 | DStIS16 | Combination | -1.1853 | 12.1863 | 99.503 | -20.6625 | 9.1507 | -0.3629 |
| Base | 6 | 6 | DStIS17 | Combination | -4.6059 | 0.9819 | 70.5676 | -1.2274 | -6.8157 | 0.1785 |
| Base | 6 | 6 | DStIS18 | Combination | 2.5189 | 0.4124 | 70.5235 | -0.2362 | 19.1626 | -0.5508 |
| Base | 6 | 6 | DStIS19 | Combination | -1.3192 | -10.5132 | 69.8063 | 18.9062 | 5.6657 | -0.0838 |
| Base | 6 | 6 | DStIS20 | Combination | -0.7679 | 11.9075 | 71.2848 | -20.3698 | 6.6813 | -0.2884 |
| Base | 6 | 6 | DStID1 | Combination | -1.0435 | 0.6972 | 70.5455 | -0.7318 | 6.1735 | -0.1861 |
| Base | 6 | 6 | DStID2 | Combination | -1.3317 | 0.7062 | 70.4902 | -0.7401 | 5.3009 | -0.2623 |
| Base | 6 | 6 | DConS1 | Combination | -1.4609 | 0.976 | 98.7638 | -1.0245 | 8.6429 | -0.2606 |
| Base | 6 | 6 | DConS2 | Combination | -1.922 | 0.9905 | 98.6752 | -1.0377 | 7.2468 | -0.3824 |
| Base | 6 | 6 | DConS3 | Combination | -2.0167 | 0.8853 | 84.5503 | -0.9432 | 4.8133 | -0.345 |
| Base | 6 | 6 | DConS4 | Combination | -1.1793 | 0.8095 | 84.6261 | -0.8329 | 7.909 | -0.2845 |
| Base | 6 | 6 | DConS5 | Combination | -1.9494 | 1.0202 | 98.7196 | -1.0888 | 6.8371 | -0.2958 |
| Base | 6 | 6 | DConS6 | Combination | -0.9724 | 0.9318 | 98.808 | -0.9602 | 10.4486 | -0.2253 |
| Base | 6 | 6 | DConS7 | Combination | -1.532 | 0.7414 | 70.5013 | -0.7961 | 4.3677 | -0.2214 |
| Base | 6 | 6 | DConS8 | Combination | -0.555 | 0.6529 | 70.5897 | -0.6675 | 7.9793 | -0.1509 |
| Base | 6 | 6 | DConS9 | Combination | -4.6515 | 1.0915 | 84.6072 | -1.3129 | -4.7724 | -0.0022 |
| Base | 6 | 6 | DConS10 | Combination | 1.4555 | 0.6034 | 84.5693 | -0.4633 | 17.4947 | -0.6273 |
| Base | 6 | 6 | DConS11 | Combination | -1.8343 | -8.7614 | 83.9546 | 15.9445 | 5.9259 | -0.2271 |
| Base | 6 | 6 | DConS12 | Combination | -1.3617 | 10.4563 | 85.2218 | -17.7206 | 6.7964 | -0.4025 |
| Base | 6 | 6 | DConS13 | Combination | -5.0234 | 1.2608 | 98.7859 | -1.5201 | -4.3463 | 0.104 |
| Base | 6 | 6 | DConS14 | Combination | 2.1015 | 0.6913 | 98.7417 | -0.5289 | 21.632 | -0.6252 |
| Base | 6 | 6 | DConS15 | Combination | -1.7366 | -10.2343 | 98.0245 | 18.6135 | 8.135 | -0.1583 |
| Base | 6 | 6 | DConS16 | Combination | -1.1853 | 12.1863 | 99.503 | -20.6625 | 9.1507 | -0.3629 |
| Base | 6 | 6 | DConS17 | Combination | -4.6059 | 0.9819 | 70.5676 | -1.2274 | -6.8157 | 0.1785 |
| Base | 6 | 6 | DConS18 | Combination | 2.5189 | 0.4124 | 70.5235 | -0.2362 | 19.1626 | -0.5508 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|----------|----------|---------|----------|---------|---------|
| Base | 6 | 6 | DConS19 | Combination | -1.3192 | -10.5132 | 69.8063 | 18.9062 | 5.6657 | -0.0838 |
| Base | 6 | 6 | DConS20 | Combination | -0.7679 | 11.9075 | 71.2848 | -20.3698 | 6.6813 | -0.2884 |
| Base | 7 | 7 | Dead | LinStatic | -1.1645 | 0.0122 | 68.1304 | -0.0218 | 5.7263 | 0.0018 |
| Base | 7 | 7 | Live | LinStatic | -0.4221 | 0.003 | -0.0104 | -0.0054 | -1.1553 | 0.0003 |
| Base | 7 | 7 | WIND | LinStatic | -0.3656 | 0.0201 | -0.0123 | -0.0358 | -1.3565 | 0.0022 |
| Base | 7 | 7 | EQX | LinStatic | -1.8558 | 0.1885 | -0.0057 | -0.3368 | -8.1014 | 0.0214 |
| Base | 7 | 7 | EQY | LinStatic | 1.13E-05 | -7.7812 | 0.0002 | 13.7894 | -0.0011 | 0.013 |
| Base | 7 | 7 | DSlbS1 | Combination | -1.6303 | 0.0171 | 95.3825 | -0.0305 | 8.0168 | 0.0026 |
| Base | 7 | 7 | DSlbS2 | Combination | -2.3057 | 0.0219 | 95.3659 | -0.0391 | 6.1684 | 0.0031 |
| Base | 7 | 7 | DSlbS3 | Combination | -2.3426 | 0.0423 | 81.7293 | -0.0756 | 3.8575 | 0.0053 |
| Base | 7 | 7 | DSlbS4 | Combination | -1.4653 | -0.0058 | 81.7587 | 0.0104 | 7.113 | -0.0001 |
| Base | 7 | 7 | DSlbS5 | Combination | -2.1421 | 0.0452 | 95.3653 | -0.0806 | 6.1177 | 0.0057 |
| Base | 7 | 7 | DSlbS6 | Combination | -1.1185 | -0.011 | 95.3997 | 0.0196 | 9.9158 | -0.0005 |
| Base | 7 | 7 | DSlbS7 | Combination | -1.6763 | 0.0403 | 68.1132 | -0.0719 | 3.8272 | 0.005 |
| Base | 7 | 7 | DSlbS8 | Combination | -0.6527 | -0.0159 | 68.1476 | 0.0284 | 7.6253 | -0.0013 |
| Base | 7 | 7 | DSlbS9 | Combination | -1.9039 | 0.0183 | 81.744 | -0.0326 | 5.4852 | 0.0026 |
| Base | 7 | 7 | DSlbS10 | Combination | -1.9039 | 0.0183 | 81.744 | -0.0326 | 5.4852 | 0.0026 |
| Base | 7 | 7 | DSlbS11 | Combination | -1.9039 | 0.0183 | 81.744 | -0.0326 | 5.4852 | 0.0026 |
| Base | 7 | 7 | DSlbS12 | Combination | -1.9039 | 0.0183 | 81.744 | -0.0326 | 5.4852 | 0.0026 |
| Base | 7 | 7 | DSlbS13 | Combination | -1.6303 | 0.0171 | 95.3825 | -0.0305 | 8.0168 | 0.0026 |
| Base | 7 | 7 | DSlbS14 | Combination | -1.6303 | 0.0171 | 95.3825 | -0.0305 | 8.0168 | 0.0026 |
| Base | 7 | 7 | DSlbS15 | Combination | -1.6303 | 0.0171 | 95.3825 | -0.0305 | 8.0168 | 0.0026 |
| Base | 7 | 7 | DSlbS16 | Combination | -1.6303 | 0.0171 | 95.3825 | -0.0305 | 8.0168 | 0.0026 |
| Base | 7 | 7 | DSlbS17 | Combination | -1.1645 | 0.0122 | 68.1304 | -0.0218 | 5.7263 | 0.0018 |
| Base | 7 | 7 | DSlbS18 | Combination | -1.1645 | 0.0122 | 68.1304 | -0.0218 | 5.7263 | 0.0018 |
| Base | 7 | 7 | DSlbS19 | Combination | -1.1645 | 0.0122 | 68.1304 | -0.0218 | 5.7263 | 0.0018 |
| Base | 7 | 7 | DSlbS20 | Combination | -1.1645 | 0.0122 | 68.1304 | -0.0218 | 5.7263 | 0.0018 |
| Base | 7 | 7 | DStlS1 | Combination | -1.6303 | 0.0171 | 95.3825 | -0.0305 | 8.0168 | 0.0026 |
| Base | 7 | 7 | DStlS2 | Combination | -2.3057 | 0.0219 | 95.3659 | -0.0391 | 6.1684 | 0.0031 |
| Base | 7 | 7 | DStlS3 | Combination | -2.3426 | 0.0423 | 81.7293 | -0.0756 | 3.8575 | 0.0053 |
| Base | 7 | 7 | DStlS4 | Combination | -1.4653 | -0.0058 | 81.7587 | 0.0104 | 7.113 | -0.0001 |
| Base | 7 | 7 | DStlS5 | Combination | -2.1421 | 0.0452 | 95.3653 | -0.0806 | 6.1177 | 0.0057 |
| Base | 7 | 7 | DStlS6 | Combination | -1.1185 | -0.011 | 95.3997 | 0.0196 | 9.9158 | -0.0005 |
| Base | 7 | 7 | DStlS7 | Combination | -1.6763 | 0.0403 | 68.1132 | -0.0719 | 3.8272 | 0.005 |
| Base | 7 | 7 | DStlS8 | Combination | -0.6527 | -0.0159 | 68.1476 | 0.0284 | 7.6253 | -0.0013 |
| Base | 7 | 7 | DStlS9 | Combination | -4.1309 | 0.2445 | 81.7372 | -0.4368 | -4.2364 | 0.0283 |
| Base | 7 | 7 | DStlS10 | Combination | 0.323 | -0.208 | 81.7509 | 0.3716 | 15.2069 | -0.0231 |
| Base | 7 | 7 | DStlS11 | Combination | -1.9039 | -9.3192 | 81.7443 | 16.5147 | 5.4839 | 0.0182 |
| Base | 7 | 7 | DStlS12 | Combination | -1.904 | 9.3557 | 81.7437 | -16.5799 | 5.4866 | -0.013 |
| Base | 7 | 7 | DStlS13 | Combination | -4.2284 | 0.281 | 95.3746 | -0.502 | -3.3252 | 0.0326 |
| Base | 7 | 7 | DStlS14 | Combination | 0.9678 | -0.2468 | 95.3905 | 0.441 | 19.3587 | -0.0274 |
| Base | 7 | 7 | DStlS15 | Combination | -1.6303 | -10.8766 | 95.3829 | 19.2747 | 8.0152 | 0.0208 |
| Base | 7 | 7 | DStlS16 | Combination | -1.6303 | 10.9108 | 95.3822 | -19.3357 | 8.0184 | -0.0157 |
| Base | 7 | 7 | DStlS17 | Combination | -3.7626 | 0.2761 | 68.1224 | -0.4933 | -5.6157 | 0.0318 |
| Base | 7 | 7 | DStlS18 | Combination | 1.4336 | -0.2517 | 68.1384 | 0.4498 | 17.0682 | -0.0281 |
| Base | 7 | 7 | DStlS19 | Combination | -1.1645 | -10.8815 | 68.1307 | 19.2834 | 5.7247 | 0.0201 |
| Base | 7 | 7 | DStlS20 | Combination | -1.1645 | 10.9059 | 68.1301 | -19.327 | 5.7279 | -0.0164 |
| Base | 7 | 7 | DStlD1 | Combination | -1.1645 | 0.0122 | 68.1304 | -0.0218 | 5.7263 | 0.0018 |
| Base | 7 | 7 | DStlD2 | Combination | -1.5866 | 0.0152 | 68.12 | -0.0272 | 4.571 | 0.0022 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|---------|----------|----------|----------|---------|---------|
| Base | 7 | 7 | DConS1 | Combination | -1.6303 | 0.0171 | 95.3825 | -0.0305 | 8.0168 | 0.0026 |
| Base | 7 | 7 | DConS2 | Combination | -2.3057 | 0.0219 | 95.3659 | -0.0391 | 6.1684 | 0.0031 |
| Base | 7 | 7 | DConS3 | Combination | -2.3426 | 0.0423 | 81.7293 | -0.0756 | 3.8575 | 0.0053 |
| Base | 7 | 7 | DConS4 | Combination | -1.4653 | -0.0058 | 81.7587 | 0.0104 | 7.113 | -0.0001 |
| Base | 7 | 7 | DConS5 | Combination | -2.1421 | 0.0452 | 95.3653 | -0.0806 | 6.1177 | 0.0057 |
| Base | 7 | 7 | DConS6 | Combination | -1.1185 | -0.011 | 95.3997 | 0.0196 | 9.9158 | -0.0005 |
| Base | 7 | 7 | DConS7 | Combination | -1.6763 | 0.0403 | 68.1132 | -0.0719 | 3.8272 | 0.005 |
| Base | 7 | 7 | DConS8 | Combination | -0.6527 | -0.0159 | 68.1476 | 0.0284 | 7.6253 | -0.0013 |
| Base | 7 | 7 | DConS9 | Combination | -4.1309 | 0.2445 | 81.7372 | -0.4368 | -4.2364 | 0.0283 |
| Base | 7 | 7 | DConS10 | Combination | 0.323 | -0.208 | 81.7509 | 0.3716 | 15.2069 | -0.0231 |
| Base | 7 | 7 | DConS11 | Combination | -1.9039 | -9.3192 | 81.7443 | 16.5147 | 5.4839 | 0.0182 |
| Base | 7 | 7 | DConS12 | Combination | -1.904 | 9.3557 | 81.7437 | -16.5799 | 5.4866 | -0.013 |
| Base | 7 | 7 | DConS13 | Combination | -4.2284 | 0.281 | 95.3746 | -0.502 | -3.3252 | 0.0326 |
| Base | 7 | 7 | DConS14 | Combination | 0.9678 | -0.2468 | 95.3905 | 0.441 | 19.3587 | -0.0274 |
| Base | 7 | 7 | DConS15 | Combination | -1.6303 | -10.8766 | 95.3829 | 19.2747 | 8.0152 | 0.0208 |
| Base | 7 | 7 | DConS16 | Combination | -1.6303 | 10.9108 | 95.3822 | -19.3357 | 8.0184 | -0.0157 |
| Base | 7 | 7 | DConS17 | Combination | -3.7626 | 0.2761 | 68.1224 | -0.4933 | -5.6157 | 0.0318 |
| Base | 7 | 7 | DConS18 | Combination | 1.4336 | -0.2517 | 68.1384 | 0.4498 | 17.0682 | -0.0281 |
| Base | 7 | 7 | DConS19 | Combination | -1.1645 | -10.8815 | 68.1307 | 19.2834 | 5.7247 | 0.0201 |
| Base | 7 | 7 | DConS20 | Combination | -1.1645 | 10.9059 | 68.1301 | -19.327 | 5.7279 | -0.0164 |
| Base | 8 | 8 | Dead | LinStatic | 4.0152 | -0.0164 | 73.8757 | 0.0297 | -3.4272 | 0.0016 |
| Base | 8 | 8 | Live | LinStatic | 0.238 | -0.0023 | 0.12 | 0.0041 | 0.569 | 0.0002 |
| Base | 8 | 8 | WIND | LinStatic | 0.1445 | -0.0178 | -0.0506 | 0.0319 | 0.1292 | 0.0012 |
| Base | 8 | 8 | EQX | LinStatic | -1.4899 | -0.1707 | -1.8 | 0.3066 | -5.2655 | 0.0189 |
| Base | 8 | 8 | EQY | LinStatic | -0.0006 | -7.8936 | -0.0007 | 14.0016 | -0.0018 | 0.1399 |
| Base | 8 | 8 | DSlbS1 | Combination | 5.6212 | -0.023 | 103.426 | 0.0416 | -4.798 | 0.0022 |
| Base | 8 | 8 | DSlbS2 | Combination | 6.002 | -0.0266 | 103.618 | 0.0481 | -3.8876 | 0.0025 |
| Base | 8 | 8 | DSlbS3 | Combination | 5.2772 | -0.0438 | 88.7342 | 0.0789 | -3.2747 | 0.0036 |
| Base | 8 | 8 | DSlbS4 | Combination | 4.9304 | -0.0011 | 88.8556 | 0.0022 | -3.5849 | 0.0006 |
| Base | 8 | 8 | DSlbS5 | Combination | 5.8235 | -0.0479 | 103.3552 | 0.0863 | -4.6171 | 0.0039 |
| Base | 8 | 8 | DSlbS6 | Combination | 5.4189 | 0.002 | 103.4968 | -0.0032 | -4.979 | 0.0005 |
| Base | 8 | 8 | DSlbS7 | Combination | 4.2174 | -0.0413 | 73.8049 | 0.0744 | -3.2462 | 0.0033 |
| Base | 8 | 8 | DSlbS8 | Combination | 3.8129 | 0.0085 | 73.9465 | -0.015 | -3.6081 | -0.0001 |
| Base | 8 | 8 | DSlbS9 | Combination | 5.1038 | -0.0224 | 88.7949 | 0.0405 | -3.4298 | 0.0021 |
| Base | 8 | 8 | DSlbS10 | Combination | 5.1038 | -0.0224 | 88.7949 | 0.0405 | -3.4298 | 0.0021 |
| Base | 8 | 8 | DSlbS11 | Combination | 5.1038 | -0.0224 | 88.7949 | 0.0405 | -3.4298 | 0.0021 |
| Base | 8 | 8 | DSlbS12 | Combination | 5.1038 | -0.0224 | 88.7949 | 0.0405 | -3.4298 | 0.0021 |
| Base | 8 | 8 | DSlbS13 | Combination | 5.6212 | -0.023 | 103.426 | 0.0416 | -4.798 | 0.0022 |
| Base | 8 | 8 | DSlbS14 | Combination | 5.6212 | -0.023 | 103.426 | 0.0416 | -4.798 | 0.0022 |
| Base | 8 | 8 | DSlbS15 | Combination | 5.6212 | -0.023 | 103.426 | 0.0416 | -4.798 | 0.0022 |
| Base | 8 | 8 | DSlbS16 | Combination | 5.6212 | -0.023 | 103.426 | 0.0416 | -4.798 | 0.0022 |
| Base | 8 | 8 | DSlbS17 | Combination | 4.0152 | -0.0164 | 73.8757 | 0.0297 | -3.4272 | 0.0016 |
| Base | 8 | 8 | DSlbS18 | Combination | 4.0152 | -0.0164 | 73.8757 | 0.0297 | -3.4272 | 0.0016 |
| Base | 8 | 8 | DSlbS19 | Combination | 4.0152 | -0.0164 | 73.8757 | 0.0297 | -3.4272 | 0.0016 |
| Base | 8 | 8 | DSlbS20 | Combination | 4.0152 | -0.0164 | 73.8757 | 0.0297 | -3.4272 | 0.0016 |
| Base | 8 | 8 | DStlS1 | Combination | 5.6212 | -0.023 | 103.426 | 0.0416 | -4.798 | 0.0022 |
| Base | 8 | 8 | DStlS2 | Combination | 6.002 | -0.0266 | 103.618 | 0.0481 | -3.8876 | 0.0025 |
| Base | 8 | 8 | DStlS3 | Combination | 5.2772 | -0.0438 | 88.7342 | 0.0789 | -3.2747 | 0.0036 |
| Base | 8 | 8 | DStlS4 | Combination | 4.9304 | -0.0011 | 88.8556 | 0.0022 | -3.5849 | 0.0006 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|---------|----------|----------|----------|----------|---------|
| Base | 8 | 8 | DStIS5 | Combination | 5.8235 | -0.0479 | 103.3552 | 0.0863 | -4.6171 | 0.0039 |
| Base | 8 | 8 | DStIS6 | Combination | 5.4189 | 0.002 | 103.4968 | -0.0032 | -4.979 | 0.0005 |
| Base | 8 | 8 | DStIS7 | Combination | 4.2174 | -0.0413 | 73.8049 | 0.0744 | -3.2462 | 0.0033 |
| Base | 8 | 8 | DStIS8 | Combination | 3.8129 | 0.0085 | 73.9465 | -0.015 | -3.6081 | -0.0001 |
| Base | 8 | 8 | DStIS9 | Combination | 3.3159 | -0.2273 | 86.6349 | 0.4085 | -9.7484 | 0.0248 |
| Base | 8 | 8 | DStIS10 | Combination | 6.8917 | 0.1824 | 90.9549 | -0.3274 | 2.8888 | -0.0207 |
| Base | 8 | 8 | DStIS11 | Combination | 5.1031 | -9.4948 | 88.794 | 16.8424 | -3.432 | 0.17 |
| Base | 8 | 8 | DStIS12 | Combination | 5.1045 | 9.4499 | 88.7958 | -16.7614 | -3.4276 | -0.1658 |
| Base | 8 | 8 | DStIS13 | Combination | 3.5354 | -0.262 | 100.906 | 0.4708 | -12.1698 | 0.0287 |
| Base | 8 | 8 | DStIS14 | Combination | 7.7071 | 0.216 | 105.946 | -0.3877 | 2.5737 | -0.0243 |
| Base | 8 | 8 | DStIS15 | Combination | 5.6204 | -11.074 | 103.425 | 19.6438 | -4.8006 | 0.1981 |
| Base | 8 | 8 | DStIS16 | Combination | 5.6221 | 11.0281 | 103.427 | -19.5606 | -4.7955 | -0.1936 |
| Base | 8 | 8 | DStIS17 | Combination | 1.9293 | -0.2554 | 71.3557 | 0.4589 | -10.7989 | 0.0281 |
| Base | 8 | 8 | DStIS18 | Combination | 6.101 | 0.2226 | 76.3958 | -0.3996 | 3.9445 | -0.0249 |
| Base | 8 | 8 | DStIS19 | Combination | 4.0143 | -11.0675 | 73.8747 | 19.6319 | -3.4298 | 0.1974 |
| Base | 8 | 8 | DStIS20 | Combination | 4.016 | 11.0347 | 73.8768 | -19.5725 | -3.4246 | -0.1943 |
| Base | 8 | 8 | DStID1 | Combination | 4.0152 | -0.0164 | 73.8757 | 0.0297 | -3.4272 | 0.0016 |
| Base | 8 | 8 | DStID2 | Combination | 4.2532 | -0.0187 | 73.9957 | 0.0338 | -2.8581 | 0.0017 |
| Base | 8 | 8 | DConS1 | Combination | 5.6212 | -0.023 | 103.426 | 0.0416 | -4.798 | 0.0022 |
| Base | 8 | 8 | DConS2 | Combination | 6.002 | -0.0266 | 103.618 | 0.0481 | -3.8876 | 0.0025 |
| Base | 8 | 8 | DConS3 | Combination | 5.2772 | -0.0438 | 88.7342 | 0.0789 | -3.2747 | 0.0036 |
| Base | 8 | 8 | DConS4 | Combination | 4.9304 | -0.0011 | 88.8556 | 0.0022 | -3.5849 | 0.0006 |
| Base | 8 | 8 | DConS5 | Combination | 5.8235 | -0.0479 | 103.3552 | 0.0863 | -4.6171 | 0.0039 |
| Base | 8 | 8 | DConS6 | Combination | 5.4189 | 0.002 | 103.4968 | -0.0032 | -4.979 | 0.0005 |
| Base | 8 | 8 | DConS7 | Combination | 4.2174 | -0.0413 | 73.8049 | 0.0744 | -3.2462 | 0.0033 |
| Base | 8 | 8 | DConS8 | Combination | 3.8129 | 0.0085 | 73.9465 | -0.015 | -3.6081 | -0.0001 |
| Base | 8 | 8 | DConS9 | Combination | 3.3159 | -0.2273 | 86.6349 | 0.4085 | -9.7484 | 0.0248 |
| Base | 8 | 8 | DConS10 | Combination | 6.8917 | 0.1824 | 90.9549 | -0.3274 | 2.8888 | -0.0207 |
| Base | 8 | 8 | DConS11 | Combination | 5.1031 | -9.4948 | 88.794 | 16.8424 | -3.432 | 0.17 |
| Base | 8 | 8 | DConS12 | Combination | 5.1045 | 9.4499 | 88.7958 | -16.7614 | -3.4276 | -0.1658 |
| Base | 8 | 8 | DConS13 | Combination | 3.5354 | -0.262 | 100.906 | 0.4708 | -12.1698 | 0.0287 |
| Base | 8 | 8 | DConS14 | Combination | 7.7071 | 0.216 | 105.946 | -0.3877 | 2.5737 | -0.0243 |
| Base | 8 | 8 | DConS15 | Combination | 5.6204 | -11.074 | 103.425 | 19.6438 | -4.8006 | 0.1981 |
| Base | 8 | 8 | DConS16 | Combination | 5.6221 | 11.0281 | 103.427 | -19.5606 | -4.7955 | -0.1936 |
| Base | 8 | 8 | DConS17 | Combination | 1.9293 | -0.2554 | 71.3557 | 0.4589 | -10.7989 | 0.0281 |
| Base | 8 | 8 | DConS18 | Combination | 6.101 | 0.2226 | 76.3958 | -0.3996 | 3.9445 | -0.0249 |
| Base | 8 | 8 | DConS19 | Combination | 4.0143 | -11.0675 | 73.8747 | 19.6319 | -3.4298 | 0.1974 |
| Base | 8 | 8 | DConS20 | Combination | 4.016 | 11.0347 | 73.8768 | -19.5725 | -3.4246 | -0.1943 |
| Base | 9 | 9 | Dead | LinStatic | -1.2635 | 0.0092 | 65.3158 | -0.0162 | -0.0057 | 0.0013 |
| Base | 9 | 9 | Live | LinStatic | 0.4736 | -0.0011 | -0.2825 | 0.002 | 0.8161 | 0.0001 |
| Base | 9 | 9 | WIND | LinStatic | -0.073 | -0.0025 | 0.094 | 0.0043 | -0.1004 | 0.0011 |
| Base | 9 | 9 | EQX | LinStatic | -5.7845 | -0.0169 | 3.8651 | 0.029 | -9.7822 | 0.0189 |
| Base | 9 | 9 | EQY | LinStatic | -0.0019 | -4.8234 | -0.0693 | 8.3434 | -0.0032 | 0.125 |
| Base | 9 | 9 | DSIbS1 | Combination | -1.7689 | 0.0129 | 91.4421 | -0.0227 | -0.008 | 0.0018 |
| Base | 9 | 9 | DSIbS2 | Combination | -1.0112 | 0.0111 | 90.9901 | -0.0195 | 1.2977 | 0.002 |
| Base | 9 | 9 | DSIbS3 | Combination | -1.0355 | 0.0067 | 78.1528 | -0.0119 | 0.8519 | 0.003 |
| Base | 9 | 9 | DSIbS4 | Combination | -0.8603 | 0.0127 | 77.9271 | -0.0222 | 1.0929 | 0.0004 |
| Base | 9 | 9 | DSIbS5 | Combination | -1.8711 | 0.0094 | 91.5737 | -0.0166 | -0.1486 | 0.0034 |
| Base | 9 | 9 | DSIbS6 | Combination | -1.6667 | 0.0164 | 91.3105 | -0.0287 | 0.1326 | 0.0003 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|---------|---------|---------|----------|----------|---------|
| Base | 9 | 9 | DSlbS7 | Combination | -1.3657 | 0.0057 | 65.4474 | -0.0101 | -0.1463 | 0.0028 |
| Base | 9 | 9 | DSlbS8 | Combination | -1.1613 | 0.0127 | 65.1842 | -0.0222 | 0.1349 | -0.0002 |
| Base | 9 | 9 | DSlbS9 | Combination | -0.9479 | 0.0097 | 78.0399 | -0.0171 | 0.9724 | 0.0017 |
| Base | 9 | 9 | DSlbS10 | Combination | -0.9479 | 0.0097 | 78.0399 | -0.0171 | 0.9724 | 0.0017 |
| Base | 9 | 9 | DSlbS11 | Combination | -0.9479 | 0.0097 | 78.0399 | -0.0171 | 0.9724 | 0.0017 |
| Base | 9 | 9 | DSlbS12 | Combination | -0.9479 | 0.0097 | 78.0399 | -0.0171 | 0.9724 | 0.0017 |
| Base | 9 | 9 | DSlbS13 | Combination | -1.7689 | 0.0129 | 91.4421 | -0.0227 | -0.008 | 0.0018 |
| Base | 9 | 9 | DSlbS14 | Combination | -1.7689 | 0.0129 | 91.4421 | -0.0227 | -0.008 | 0.0018 |
| Base | 9 | 9 | DSlbS15 | Combination | -1.7689 | 0.0129 | 91.4421 | -0.0227 | -0.008 | 0.0018 |
| Base | 9 | 9 | DSlbS16 | Combination | -1.7689 | 0.0129 | 91.4421 | -0.0227 | -0.008 | 0.0018 |
| Base | 9 | 9 | DSlbS17 | Combination | -1.2635 | 0.0092 | 65.3158 | -0.0162 | -0.0057 | 0.0013 |
| Base | 9 | 9 | DSlbS18 | Combination | -1.2635 | 0.0092 | 65.3158 | -0.0162 | -0.0057 | 0.0013 |
| Base | 9 | 9 | DSlbS19 | Combination | -1.2635 | 0.0092 | 65.3158 | -0.0162 | -0.0057 | 0.0013 |
| Base | 9 | 9 | DSlbS20 | Combination | -1.2635 | 0.0092 | 65.3158 | -0.0162 | -0.0057 | 0.0013 |
| Base | 9 | 9 | DStIS1 | Combination | -1.7689 | 0.0129 | 91.4421 | -0.0227 | -0.008 | 0.0018 |
| Base | 9 | 9 | DStIS2 | Combination | -1.0112 | 0.0111 | 90.9901 | -0.0195 | 1.2977 | 0.002 |
| Base | 9 | 9 | DStIS3 | Combination | -1.0355 | 0.0067 | 78.1528 | -0.0119 | 0.8519 | 0.003 |
| Base | 9 | 9 | DStIS4 | Combination | -0.8603 | 0.0127 | 77.9271 | -0.0222 | 1.0929 | 0.0004 |
| Base | 9 | 9 | DStIS5 | Combination | -1.8711 | 0.0094 | 91.5737 | -0.0166 | -0.1486 | 0.0034 |
| Base | 9 | 9 | DStIS6 | Combination | -1.6667 | 0.0164 | 91.3105 | -0.0287 | 0.1326 | 0.0003 |
| Base | 9 | 9 | DStIS7 | Combination | -1.3657 | 0.0057 | 65.4474 | -0.0101 | -0.1463 | 0.0028 |
| Base | 9 | 9 | DStIS8 | Combination | -1.1613 | 0.0127 | 65.1842 | -0.0222 | 0.1349 | -0.0002 |
| Base | 9 | 9 | DStIS9 | Combination | -7.8893 | -0.0106 | 82.678 | 0.0177 | -10.7662 | 0.0244 |
| Base | 9 | 9 | DStIS10 | Combination | 5.9935 | 0.03 | 73.4018 | -0.0518 | 12.7111 | -0.0209 |
| Base | 9 | 9 | DStIS11 | Combination | -0.9503 | -5.7785 | 77.9568 | 9.995 | 0.9685 | 0.1517 |
| Base | 9 | 9 | DStIS12 | Combination | -0.9456 | 5.7978 | 78.1231 | -10.0291 | 0.9763 | -0.1483 |
| Base | 9 | 9 | DStIS13 | Combination | -9.8672 | -0.0108 | 96.8532 | 0.0179 | -13.7031 | 0.0283 |
| Base | 9 | 9 | DStIS14 | Combination | 6.3294 | 0.0365 | 86.031 | -0.0632 | 13.687 | -0.0246 |
| Base | 9 | 9 | DStIS15 | Combination | -1.7716 | -6.74 | 91.3451 | 11.6581 | -0.0126 | 0.1769 |
| Base | 9 | 9 | DStIS16 | Combination | -1.7662 | 6.7657 | 91.5391 | -11.7034 | -0.0035 | -0.1732 |
| Base | 9 | 9 | DStIS17 | Combination | -9.3618 | -0.0145 | 70.7269 | 0.0244 | -13.7008 | 0.0277 |
| Base | 9 | 9 | DStIS18 | Combination | 6.8348 | 0.0329 | 59.9047 | -0.0567 | 13.6893 | -0.0251 |
| Base | 9 | 9 | DStIS19 | Combination | -1.2662 | -6.7436 | 65.2188 | 11.6646 | -0.0103 | 0.1764 |
| Base | 9 | 9 | DStIS20 | Combination | -1.2608 | 6.762 | 65.4128 | -11.6969 | -0.0012 | -0.1737 |
| Base | 9 | 9 | DStID1 | Combination | -1.2635 | 0.0092 | 65.3158 | -0.0162 | -0.0057 | 0.0013 |
| Base | 9 | 9 | DStID2 | Combination | -0.7899 | 0.0081 | 65.0333 | -0.0142 | 0.8104 | 0.0014 |
| Base | 9 | 9 | DConS1 | Combination | -1.7689 | 0.0129 | 91.4421 | -0.0227 | -0.008 | 0.0018 |
| Base | 9 | 9 | DConS2 | Combination | -1.0112 | 0.0111 | 90.9901 | -0.0195 | 1.2977 | 0.002 |
| Base | 9 | 9 | DConS3 | Combination | -1.0355 | 0.0067 | 78.1528 | -0.0119 | 0.8519 | 0.003 |
| Base | 9 | 9 | DConS4 | Combination | -0.8603 | 0.0127 | 77.9271 | -0.0222 | 1.0929 | 0.0004 |
| Base | 9 | 9 | DConS5 | Combination | -1.8711 | 0.0094 | 91.5737 | -0.0166 | -0.1486 | 0.0034 |
| Base | 9 | 9 | DConS6 | Combination | -1.6667 | 0.0164 | 91.3105 | -0.0287 | 0.1326 | 0.0003 |
| Base | 9 | 9 | DConS7 | Combination | -1.3657 | 0.0057 | 65.4474 | -0.0101 | -0.1463 | 0.0028 |
| Base | 9 | 9 | DConS8 | Combination | -1.1613 | 0.0127 | 65.1842 | -0.0222 | 0.1349 | -0.0002 |
| Base | 9 | 9 | DConS9 | Combination | -7.8893 | -0.0106 | 82.678 | 0.0177 | -10.7662 | 0.0244 |
| Base | 9 | 9 | DConS10 | Combination | 5.9935 | 0.03 | 73.4018 | -0.0518 | 12.7111 | -0.0209 |
| Base | 9 | 9 | DConS11 | Combination | -0.9503 | -5.7785 | 77.9568 | 9.995 | 0.9685 | 0.1517 |
| Base | 9 | 9 | DConS12 | Combination | -0.9456 | 5.7978 | 78.1231 | -10.0291 | 0.9763 | -0.1483 |
| Base | 9 | 9 | DConS13 | Combination | -9.8672 | -0.0108 | 96.8532 | 0.0179 | -13.7031 | 0.0283 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|----------|---------|----------|----------|----------|---------|
| Base | 9 | 9 | DConS14 | Combination | 6.3294 | 0.0365 | 86.031 | -0.0632 | 13.687 | -0.0246 |
| Base | 9 | 9 | DConS15 | Combination | -1.7716 | -6.74 | 91.3451 | 11.6581 | -0.0126 | 0.1769 |
| Base | 9 | 9 | DConS16 | Combination | -1.7662 | 6.7657 | 91.5391 | -11.7034 | -0.0035 | -0.1732 |
| Base | 9 | 9 | DConS17 | Combination | -9.3618 | -0.0145 | 70.7269 | 0.0244 | -13.7008 | 0.0277 |
| Base | 9 | 9 | DConS18 | Combination | 6.8348 | 0.0329 | 59.9047 | -0.0567 | 13.6893 | -0.0251 |
| Base | 9 | 9 | DConS19 | Combination | -1.2662 | -6.7436 | 65.2188 | 11.6646 | -0.0103 | 0.1764 |
| Base | 9 | 9 | DConS20 | Combination | -1.2608 | 6.762 | 65.4128 | -11.6969 | -0.0012 | -0.1737 |
| Base | 10 | 10 | Dead | LinStatic | -1.6659 | -0.3894 | 67.8985 | 0.4091 | -0.7898 | -0.1623 |
| Base | 10 | 10 | Live | LinStatic | 0.3468 | -0.0053 | -0.2027 | 0.0071 | 0.5901 | -0.0363 |
| Base | 10 | 10 | WIND | LinStatic | -0.2626 | -0.0066 | 0.1904 | 0.0097 | -0.4518 | -0.0675 |
| Base | 10 | 10 | EQX | LinStatic | -6.7748 | -0.0207 | 4.2054 | 0.0371 | -11.6845 | -0.4305 |
| Base | 10 | 10 | EQY | LinStatic | 0.0786 | -5.9062 | 3.4125 | 9.4963 | 0.1378 | 0.1694 |
| Base | 10 | 10 | DSlbS1 | Combination | -2.3323 | -0.5452 | 95.058 | 0.5727 | -1.1058 | -0.2272 |
| Base | 10 | 10 | DSlbS2 | Combination | -1.7775 | -0.5536 | 94.7336 | 0.5841 | -0.1615 | -0.2853 |
| Base | 10 | 10 | DSlbS3 | Combination | -1.8981 | -0.4816 | 81.4634 | 0.511 | -0.7818 | -0.3193 |
| Base | 10 | 10 | DSlbS4 | Combination | -1.2679 | -0.4657 | 81.0066 | 0.4879 | 0.3025 | -0.1573 |
| Base | 10 | 10 | DSlbS5 | Combination | -2.6999 | -0.5545 | 95.3245 | 0.5862 | -1.7383 | -0.3217 |
| Base | 10 | 10 | DSlbS6 | Combination | -1.9647 | -0.536 | 94.7914 | 0.5592 | -0.4732 | -0.1327 |
| Base | 10 | 10 | DSlbS7 | Combination | -2.0335 | -0.3987 | 68.1651 | 0.4226 | -1.4224 | -0.2568 |
| Base | 10 | 10 | DSlbS8 | Combination | -1.2984 | -0.3802 | 67.632 | 0.3956 | -0.1573 | -0.0678 |
| Base | 10 | 10 | DSlbS9 | Combination | -1.583 | -0.4736 | 81.235 | 0.4994 | -0.2396 | -0.2383 |
| Base | 10 | 10 | DSlbS10 | Combination | -1.583 | -0.4736 | 81.235 | 0.4994 | -0.2396 | -0.2383 |
| Base | 10 | 10 | DSlbS11 | Combination | -1.583 | -0.4736 | 81.235 | 0.4994 | -0.2396 | -0.2383 |
| Base | 10 | 10 | DSlbS12 | Combination | -1.583 | -0.4736 | 81.235 | 0.4994 | -0.2396 | -0.2383 |
| Base | 10 | 10 | DSlbS13 | Combination | -2.3323 | -0.5452 | 95.058 | 0.5727 | -1.1058 | -0.2272 |
| Base | 10 | 10 | DSlbS14 | Combination | -2.3323 | -0.5452 | 95.058 | 0.5727 | -1.1058 | -0.2272 |
| Base | 10 | 10 | DSlbS15 | Combination | -2.3323 | -0.5452 | 95.058 | 0.5727 | -1.1058 | -0.2272 |
| Base | 10 | 10 | DSlbS16 | Combination | -2.3323 | -0.5452 | 95.058 | 0.5727 | -1.1058 | -0.2272 |
| Base | 10 | 10 | DSlbS17 | Combination | -1.6659 | -0.3894 | 67.8985 | 0.4091 | -0.7898 | -0.1623 |
| Base | 10 | 10 | DSlbS18 | Combination | -1.6659 | -0.3894 | 67.8985 | 0.4091 | -0.7898 | -0.1623 |
| Base | 10 | 10 | DSlbS19 | Combination | -1.6659 | -0.3894 | 67.8985 | 0.4091 | -0.7898 | -0.1623 |
| Base | 10 | 10 | DSlbS20 | Combination | -1.6659 | -0.3894 | 67.8985 | 0.4091 | -0.7898 | -0.1623 |
| Base | 10 | 10 | DStIS1 | Combination | -2.3323 | -0.5452 | 95.058 | 0.5727 | -1.1058 | -0.2272 |
| Base | 10 | 10 | DStIS2 | Combination | -1.7775 | -0.5536 | 94.7336 | 0.5841 | -0.1615 | -0.2853 |
| Base | 10 | 10 | DStIS3 | Combination | -1.8981 | -0.4816 | 81.4634 | 0.511 | -0.7818 | -0.3193 |
| Base | 10 | 10 | DStIS4 | Combination | -1.2679 | -0.4657 | 81.0066 | 0.4879 | 0.3025 | -0.1573 |
| Base | 10 | 10 | DStIS5 | Combination | -2.6999 | -0.5545 | 95.3245 | 0.5862 | -1.7383 | -0.3217 |
| Base | 10 | 10 | DStIS6 | Combination | -1.9647 | -0.536 | 94.7914 | 0.5592 | -0.4732 | -0.1327 |
| Base | 10 | 10 | DStIS7 | Combination | -2.0335 | -0.3987 | 68.1651 | 0.4226 | -1.4224 | -0.2568 |
| Base | 10 | 10 | DStIS8 | Combination | -1.2984 | -0.3802 | 67.632 | 0.3956 | -0.1573 | -0.0678 |
| Base | 10 | 10 | DStIS9 | Combination | -9.7128 | -0.4985 | 86.2815 | 0.5439 | -14.261 | -0.7549 |
| Base | 10 | 10 | DStIS10 | Combination | 6.5468 | -0.4488 | 76.1885 | 0.455 | 13.7818 | 0.2783 |
| Base | 10 | 10 | DStIS11 | Combination | -1.4886 | -7.5611 | 85.33 | 11.895 | -0.0743 | -0.0351 |
| Base | 10 | 10 | DStIS12 | Combination | -1.6773 | 6.6138 | 77.14 | -10.8961 | -0.4049 | -0.4416 |
| Base | 10 | 10 | DStIS13 | Combination | -11.8171 | -0.5742 | 100.9455 | 0.6246 | -17.4641 | -0.8299 |
| Base | 10 | 10 | DStIS14 | Combination | 7.1524 | -0.5162 | 89.1704 | 0.5208 | 15.2525 | 0.3754 |
| Base | 10 | 10 | DStIS15 | Combination | -2.2222 | -8.8139 | 99.8355 | 13.8675 | -0.9129 | 0.0099 |
| Base | 10 | 10 | DStIS16 | Combination | -2.4424 | 7.7235 | 90.2805 | -12.7221 | -1.2986 | -0.4643 |
| Base | 10 | 10 | DStIS17 | Combination | -11.1507 | -0.4184 | 73.7861 | 0.461 | -17.1481 | -0.765 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|----------|---------|----------|----------|----------|---------|
| Base | 10 | 10 | DStIS18 | Combination | 7.8188 | -0.3605 | 62.011 | 0.3572 | 15.5685 | 0.4404 |
| Base | 10 | 10 | DStIS19 | Combination | -1.5559 | -8.6582 | 72.676 | 13.7039 | -0.597 | 0.0748 |
| Base | 10 | 10 | DStIS20 | Combination | -1.776 | 7.8793 | 63.121 | -12.8858 | -0.9827 | -0.3994 |
| Base | 10 | 10 | DStID1 | Combination | -1.6659 | -0.3894 | 67.8985 | 0.4091 | -0.7898 | -0.1623 |
| Base | 10 | 10 | DStID2 | Combination | -1.3192 | -0.3947 | 67.6958 | 0.4162 | -0.1997 | -0.1986 |
| Base | 10 | 10 | DConS1 | Combination | -2.3323 | -0.5452 | 95.058 | 0.5727 | -1.1058 | -0.2272 |
| Base | 10 | 10 | DConS2 | Combination | -1.7775 | -0.5536 | 94.7336 | 0.5841 | -0.1615 | -0.2853 |
| Base | 10 | 10 | DConS3 | Combination | -1.8981 | -0.4816 | 81.4634 | 0.511 | -0.7818 | -0.3193 |
| Base | 10 | 10 | DConS4 | Combination | -1.2679 | -0.4657 | 81.0066 | 0.4879 | 0.3025 | -0.1573 |
| Base | 10 | 10 | DConS5 | Combination | -2.6999 | -0.5545 | 95.3245 | 0.5862 | -1.7383 | -0.3217 |
| Base | 10 | 10 | DConS6 | Combination | -1.9647 | -0.536 | 94.7914 | 0.5592 | -0.4732 | -0.1327 |
| Base | 10 | 10 | DConS7 | Combination | -2.0335 | -0.3987 | 68.1651 | 0.4226 | -1.4224 | -0.2568 |
| Base | 10 | 10 | DConS8 | Combination | -1.2984 | -0.3802 | 67.632 | 0.3956 | -0.1573 | -0.0678 |
| Base | 10 | 10 | DConS9 | Combination | -9.7128 | -0.4985 | 86.2815 | 0.5439 | -14.261 | -0.7549 |
| Base | 10 | 10 | DConS10 | Combination | 6.5468 | -0.4488 | 76.1885 | 0.455 | 13.7818 | 0.2783 |
| Base | 10 | 10 | DConS11 | Combination | -1.4886 | -7.5611 | 85.33 | 11.895 | -0.0743 | -0.0351 |
| Base | 10 | 10 | DConS12 | Combination | -1.6773 | 6.6138 | 77.14 | -10.8961 | -0.4049 | -0.4416 |
| Base | 10 | 10 | DConS13 | Combination | -11.8171 | -0.5742 | 100.9455 | 0.6246 | -17.4641 | -0.8299 |
| Base | 10 | 10 | DConS14 | Combination | 7.1524 | -0.5162 | 89.1704 | 0.5208 | 15.2525 | 0.3754 |
| Base | 10 | 10 | DConS15 | Combination | -2.2222 | -8.8139 | 99.8355 | 13.8675 | -0.9129 | 0.0099 |
| Base | 10 | 10 | DConS16 | Combination | -2.4424 | 7.7235 | 90.2805 | -12.7221 | -1.2986 | -0.4643 |
| Base | 10 | 10 | DConS17 | Combination | -11.1507 | -0.4184 | 73.7861 | 0.461 | -17.1481 | -0.765 |
| Base | 10 | 10 | DConS18 | Combination | 7.8188 | -0.3605 | 62.011 | 0.3572 | 15.5685 | 0.4404 |
| Base | 10 | 10 | DConS19 | Combination | -1.5559 | -8.6582 | 72.676 | 13.7039 | -0.597 | 0.0748 |
| Base | 10 | 10 | DConS20 | Combination | -1.776 | 7.8793 | 63.121 | -12.8858 | -0.9827 | -0.3994 |
| Base | 11 | 11 | Dead | LinStatic | -1.049 | -0.672 | 70.5436 | 0.6875 | 6.1757 | 0.1844 |
| Base | 11 | 11 | Live | LinStatic | -0.2895 | -0.0029 | -0.0558 | -0.0027 | -0.8728 | 0.0757 |
| Base | 11 | 11 | WIND | LinStatic | -0.3572 | 0.0096 | -0.0344 | -0.0268 | -1.2896 | 0.0227 |
| Base | 11 | 11 | EQX | LinStatic | -2.6277 | 0.1839 | -0.0107 | -0.3303 | -9.2827 | -0.2865 |
| Base | 11 | 11 | EQY | LinStatic | 0.1998 | -8.0068 | 0.5297 | 14.0265 | 0.3651 | 0.0736 |
| Base | 11 | 11 | DSIbS1 | Combination | -1.4686 | -0.9408 | 98.761 | 0.9624 | 8.6459 | 0.2582 |
| Base | 11 | 11 | DSIbS2 | Combination | -1.9319 | -0.9454 | 98.6718 | 0.9582 | 7.2494 | 0.3794 |
| Base | 11 | 11 | DSIbS3 | Combination | -2.0349 | -0.7983 | 84.5441 | 0.7896 | 4.8158 | 0.3394 |
| Base | 11 | 11 | DSIbS4 | Combination | -1.1776 | -0.8214 | 84.6266 | 0.8539 | 7.911 | 0.285 |
| Base | 11 | 11 | DSIbS5 | Combination | -1.9688 | -0.9274 | 98.7129 | 0.9249 | 6.8404 | 0.29 |
| Base | 11 | 11 | DSIbS6 | Combination | -0.9685 | -0.9542 | 98.8092 | 1 | 10.4514 | 0.2265 |
| Base | 11 | 11 | DSIbS7 | Combination | -1.5491 | -0.6586 | 70.4955 | 0.6499 | 4.3701 | 0.2162 |
| Base | 11 | 11 | DSIbS8 | Combination | -0.5489 | -0.6854 | 70.5917 | 0.725 | 7.9812 | 0.1527 |
| Base | 11 | 11 | DSIbS9 | Combination | -1.6063 | -0.8098 | 84.5854 | 0.8217 | 6.3634 | 0.3122 |
| Base | 11 | 11 | DSIbS10 | Combination | -1.6063 | -0.8098 | 84.5854 | 0.8217 | 6.3634 | 0.3122 |
| Base | 11 | 11 | DSIbS11 | Combination | -1.6063 | -0.8098 | 84.5854 | 0.8217 | 6.3634 | 0.3122 |
| Base | 11 | 11 | DSIbS12 | Combination | -1.6063 | -0.8098 | 84.5854 | 0.8217 | 6.3634 | 0.3122 |
| Base | 11 | 11 | DSIbS13 | Combination | -1.4686 | -0.9408 | 98.761 | 0.9624 | 8.6459 | 0.2582 |
| Base | 11 | 11 | DSIbS14 | Combination | -1.4686 | -0.9408 | 98.761 | 0.9624 | 8.6459 | 0.2582 |
| Base | 11 | 11 | DSIbS15 | Combination | -1.4686 | -0.9408 | 98.761 | 0.9624 | 8.6459 | 0.2582 |
| Base | 11 | 11 | DSIbS16 | Combination | -1.4686 | -0.9408 | 98.761 | 0.9624 | 8.6459 | 0.2582 |
| Base | 11 | 11 | DSIbS17 | Combination | -1.049 | -0.672 | 70.5436 | 0.6875 | 6.1757 | 0.1844 |
| Base | 11 | 11 | DSIbS18 | Combination | -1.049 | -0.672 | 70.5436 | 0.6875 | 6.1757 | 0.1844 |
| Base | 11 | 11 | DSIbS19 | Combination | -1.049 | -0.672 | 70.5436 | 0.6875 | 6.1757 | 0.1844 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|----------|----------|----------|------------|------------|------------|
| Base | 11 | 11 | DSIbS20 | Combination | -1.049 | -0.672 | 70.5436 | 0.6875 | 6.1757 | 0.1844 |
| Base | 11 | 11 | DStIS1 | Combination | -1.4686 | -0.9408 | 98.761 | 0.9624 | 8.6459 | 0.2582 |
| Base | 11 | 11 | DStIS2 | Combination | -1.9319 | -0.9454 | 98.6718 | 0.9582 | 7.2494 | 0.3794 |
| Base | 11 | 11 | DStIS3 | Combination | -2.0349 | -0.7983 | 84.5441 | 0.7896 | 4.8158 | 0.3394 |
| Base | 11 | 11 | DStIS4 | Combination | -1.1776 | -0.8214 | 84.6266 | 0.8539 | 7.911 | 0.285 |
| Base | 11 | 11 | DStIS5 | Combination | -1.9688 | -0.9274 | 98.7129 | 0.9249 | 6.8404 | 0.29 |
| Base | 11 | 11 | DStIS6 | Combination | -0.9685 | -0.9542 | 98.8092 | 1 | 10.4514 | 0.2265 |
| Base | 11 | 11 | DStIS7 | Combination | -1.5491 | -0.6586 | 70.4955 | 0.6499 | 4.3701 | 0.2162 |
| Base | 11 | 11 | DStIS8 | Combination | -0.5489 | -0.6854 | 70.5917 | 0.725 | 7.9812 | 0.1527 |
| Base | 11 | 11 | DStIS9 | Combination | -4.7595 | -0.5892 | 84.5726 | 0.4254 | -4.7759 | -0.0316 |
| Base | 11 | 11 | DStIS10 | Combination | 1.547 | -1.0305 | 84.5982 | 1.2181 | 17.5027 | 0.656 |
| Base | 11 | 11 | DStIS11 | Combination | -1.3665 | -10.418 | 85.221 | 17.6536 | 6.8015 | 0.4005 |
| Base | 11 | 11 | DStIS12 | Combination | -1.846 | 8.7983 | 83.9498 | -16.0101 | 5.9252 | 0.2239 |
| Base | 11 | 11 | DStIS13 | Combination | -5.1475 | -0.6834 | 98.7461 | 0.5 | -4.3499 | -0.1429 |
| Base | 11 | 11 | DStIS14 | Combination | 2.2102 | -1.1982 | 98.776 | 1.4249 | 21.6417 | 0.6593 |
| Base | 11 | 11 | DStIS15 | Combination | -1.1889 | -12.1503 | 99.5026 | 20.5996 | 9.1571 | 0.3613 |
| Base | 11 | 11 | DStIS16 | Combination | -1.7483 | 10.2687 | 98.0195 | -18.6747 | 8.1347 | 0.1552 |
| Base | 11 | 11 | DStIS17 | Combination | -4.7279 | -0.4146 | 70.5286 | 0.225 | -6.8202 | -0.2167 |
| Base | 11 | 11 | DStIS18 | Combination | 2.6298 | -0.9294 | 70.5586 | 1.1499 | 19.1715 | 0.5856 |
| Base | 11 | 11 | DStIS19 | Combination | -0.7693 | -11.8815 | 71.2851 | 20.3246 | 6.6868 | 0.2875 |
| Base | 11 | 11 | DStIS20 | Combination | -1.3287 | 10.5375 | 69.8021 | -18.9497 | 5.6645 | 0.0814 |
| Base | 11 | 11 | DStID1 | Combination | -1.049 | -0.672 | 70.5436 | 0.6875 | 6.1757 | 0.1844 |
| Base | 11 | 11 | DStID2 | Combination | -1.3386 | -0.6749 | 70.4878 | 0.6848 | 5.3028 | 0.2602 |
| Base | 11 | 11 | DConS1 | Combination | -1.4686 | -0.9408 | 98.761 | 0.9624 | 8.6459 | 0.2582 |
| Base | 11 | 11 | DConS2 | Combination | -1.9319 | -0.9454 | 98.6718 | 0.9582 | 7.2494 | 0.3794 |
| Base | 11 | 11 | DConS3 | Combination | -2.0349 | -0.7983 | 84.5441 | 0.7896 | 4.8158 | 0.3394 |
| Base | 11 | 11 | DConS4 | Combination | -1.1776 | -0.8214 | 84.6266 | 0.8539 | 7.911 | 0.285 |
| Base | 11 | 11 | DConS5 | Combination | -1.9688 | -0.9274 | 98.7129 | 0.9249 | 6.8404 | 0.29 |
| Base | 11 | 11 | DConS6 | Combination | -0.9685 | -0.9542 | 98.8092 | 1 | 10.4514 | 0.2265 |
| Base | 11 | 11 | DConS7 | Combination | -1.5491 | -0.6586 | 70.4955 | 0.6499 | 4.3701 | 0.2162 |
| Base | 11 | 11 | DConS8 | Combination | -0.5489 | -0.6854 | 70.5917 | 0.725 | 7.9812 | 0.1527 |
| Base | 11 | 11 | DConS9 | Combination | -4.7595 | -0.5892 | 84.5726 | 0.4254 | -4.7759 | -0.0316 |
| Base | 11 | 11 | DConS10 | Combination | 1.547 | -1.0305 | 84.5982 | 1.2181 | 17.5027 | 0.656 |
| Base | 11 | 11 | DConS11 | Combination | -1.3665 | -10.418 | 85.221 | 17.6536 | 6.8015 | 0.4005 |
| Base | 11 | 11 | DConS12 | Combination | -1.846 | 8.7983 | 83.9498 | -16.0101 | 5.9252 | 0.2239 |
| Base | 11 | 11 | DConS13 | Combination | -5.1475 | -0.6834 | 98.7461 | 0.5 | -4.3499 | -0.1429 |
| Base | 11 | 11 | DConS14 | Combination | 2.2102 | -1.1982 | 98.776 | 1.4249 | 21.6417 | 0.6593 |
| Base | 11 | 11 | DConS15 | Combination | -1.1889 | -12.1503 | 99.5026 | 20.5996 | 9.1571 | 0.3613 |
| Base | 11 | 11 | DConS16 | Combination | -1.7483 | 10.2687 | 98.0195 | -18.6747 | 8.1347 | 0.1552 |
| Base | 11 | 11 | DConS17 | Combination | -4.7279 | -0.4146 | 70.5286 | 0.225 | -6.8202 | -0.2167 |
| Base | 11 | 11 | DConS18 | Combination | 2.6298 | -0.9294 | 70.5586 | 1.1499 | 19.1715 | 0.5856 |
| Base | 11 | 11 | DConS19 | Combination | -0.7693 | -11.8815 | 71.2851 | 20.3246 | 6.6868 | 0.2875 |
| Base | 11 | 11 | DConS20 | Combination | -1.3287 | 10.5375 | 69.8021 | -18.9497 | 5.6645 | 0.0814 |
| Base | 12 | 12 | Dead | LinStatic | 3.5576 | -0.6892 | 76.1468 | 0.7248 | -4.2688 | -0.149 |
| Base | 12 | 12 | Live | LinStatic | 0.13 | -0.0072 | 0.045 | 0.0054 | 0.3628 | -0.0359 |
| Base | 12 | 12 | WIND | LinStatic | -0.0883 | -0.018 | -0.1262 | 0.0286 | -0.2676 | -0.061 |
| Base | 12 | 12 | EQX | LinStatic | -3.0654 | -0.1649 | -1.9557 | 0.2946 | -7.7832 | -0.3607 |
| Base | 12 | 12 | EQY | LinStatic | 0.0633 | -8.1408 | 0.5672 | 14.2621 | 0.1209 | 0.1119 |
| Base | 12 | 12 | DSIbS1 | Combination | 4.9806 | -0.9649 | 106.6055 | 1.0147 | -5.9763 | -0.2085 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|--------|----------|----------|----------|----------|---------|
| Base | 12 | 12 | DSlbS2 | Combination | 5.1886 | -0.9765 | 106.6776 | 1.0234 | -5.3958 | -0.266 |
| Base | 12 | 12 | DSlbS3 | Combination | 4.3191 | -0.8574 | 91.2787 | 0.9106 | -5.0083 | -0.2951 |
| Base | 12 | 12 | DSlbS4 | Combination | 4.5311 | -0.8141 | 91.5817 | 0.842 | -4.366 | -0.1487 |
| Base | 12 | 12 | DSlbS5 | Combination | 4.857 | -0.9901 | 106.4288 | 1.0548 | -6.351 | -0.2939 |
| Base | 12 | 12 | DSlbS6 | Combination | 5.1043 | -0.9397 | 106.7823 | 0.9747 | -5.6016 | -0.1231 |
| Base | 12 | 12 | DSlbS7 | Combination | 3.4339 | -0.7144 | 75.9701 | 0.7648 | -4.6435 | -0.2343 |
| Base | 12 | 12 | DSlbS8 | Combination | 3.6812 | -0.664 | 76.3235 | 0.6848 | -3.8941 | -0.0636 |
| Base | 12 | 12 | DSlbS9 | Combination | 4.4251 | -0.8358 | 91.4302 | 0.8763 | -4.6872 | -0.2219 |
| Base | 12 | 12 | DSlbS10 | Combination | 4.4251 | -0.8358 | 91.4302 | 0.8763 | -4.6872 | -0.2219 |
| Base | 12 | 12 | DSlbS11 | Combination | 4.4251 | -0.8358 | 91.4302 | 0.8763 | -4.6872 | -0.2219 |
| Base | 12 | 12 | DSlbS12 | Combination | 4.4251 | -0.8358 | 91.4302 | 0.8763 | -4.6872 | -0.2219 |
| Base | 12 | 12 | DSlbS13 | Combination | 4.9806 | -0.9649 | 106.6055 | 1.0147 | -5.9763 | -0.2085 |
| Base | 12 | 12 | DSlbS14 | Combination | 4.9806 | -0.9649 | 106.6055 | 1.0147 | -5.9763 | -0.2085 |
| Base | 12 | 12 | DSlbS15 | Combination | 4.9806 | -0.9649 | 106.6055 | 1.0147 | -5.9763 | -0.2085 |
| Base | 12 | 12 | DSlbS16 | Combination | 4.9806 | -0.9649 | 106.6055 | 1.0147 | -5.9763 | -0.2085 |
| Base | 12 | 12 | DSlbS17 | Combination | 3.5576 | -0.6892 | 76.1468 | 0.7248 | -4.2688 | -0.149 |
| Base | 12 | 12 | DSlbS18 | Combination | 3.5576 | -0.6892 | 76.1468 | 0.7248 | -4.2688 | -0.149 |
| Base | 12 | 12 | DSlbS19 | Combination | 3.5576 | -0.6892 | 76.1468 | 0.7248 | -4.2688 | -0.149 |
| Base | 12 | 12 | DSlbS20 | Combination | 3.5576 | -0.6892 | 76.1468 | 0.7248 | -4.2688 | -0.149 |
| Base | 12 | 12 | DStlS1 | Combination | 4.9806 | -0.9649 | 106.6055 | 1.0147 | -5.9763 | -0.2085 |
| Base | 12 | 12 | DStlS2 | Combination | 5.1886 | -0.9765 | 106.6776 | 1.0234 | -5.3958 | -0.266 |
| Base | 12 | 12 | DStlS3 | Combination | 4.3191 | -0.8574 | 91.2787 | 0.9106 | -5.0083 | -0.2951 |
| Base | 12 | 12 | DStlS4 | Combination | 4.5311 | -0.8141 | 91.5817 | 0.842 | -4.366 | -0.1487 |
| Base | 12 | 12 | DStlS5 | Combination | 4.857 | -0.9901 | 106.4288 | 1.0548 | -6.351 | -0.2939 |
| Base | 12 | 12 | DStlS6 | Combination | 5.1043 | -0.9397 | 106.7823 | 0.9747 | -5.6016 | -0.1231 |
| Base | 12 | 12 | DStlS7 | Combination | 3.4339 | -0.7144 | 75.9701 | 0.7648 | -4.6435 | -0.2343 |
| Base | 12 | 12 | DStlS8 | Combination | 3.6812 | -0.664 | 76.3235 | 0.6848 | -3.8941 | -0.0636 |
| Base | 12 | 12 | DStlS9 | Combination | 0.7466 | -1.0336 | 89.0834 | 1.2298 | -14.027 | -0.6547 |
| Base | 12 | 12 | DStlS10 | Combination | 8.1036 | -0.6379 | 93.7771 | 0.5227 | 4.6527 | 0.211 |
| Base | 12 | 12 | DStlS11 | Combination | 4.5011 | -10.6047 | 92.1108 | 17.9908 | -4.5421 | -0.0876 |
| Base | 12 | 12 | DStlS12 | Combination | 4.3491 | 8.9332 | 90.7496 | -16.2383 | -4.8323 | -0.3562 |
| Base | 12 | 12 | DStlS13 | Combination | 0.6891 | -1.1958 | 103.8675 | 1.4272 | -16.8728 | -0.7135 |
| Base | 12 | 12 | DStlS14 | Combination | 9.2722 | -0.7341 | 109.3435 | 0.6023 | 4.9202 | 0.2964 |
| Base | 12 | 12 | DStlS15 | Combination | 5.0693 | -12.3621 | 107.3996 | 20.9817 | -5.8071 | -0.0518 |
| Base | 12 | 12 | DStlS16 | Combination | 4.892 | 10.4322 | 105.8115 | -18.9522 | -6.1456 | -0.3652 |
| Base | 12 | 12 | DStlS17 | Combination | -0.734 | -0.9201 | 73.4088 | 1.1373 | -15.1653 | -0.6539 |
| Base | 12 | 12 | DStlS18 | Combination | 7.8491 | -0.4584 | 78.8848 | 0.3123 | 6.6277 | 0.356 |
| Base | 12 | 12 | DStlS19 | Combination | 3.6462 | -12.0864 | 76.9408 | 20.6918 | -4.0996 | 0.0077 |
| Base | 12 | 12 | DStlS20 | Combination | 3.4689 | 10.7079 | 75.3528 | -19.2422 | -4.4381 | -0.3057 |
| Base | 12 | 12 | DStlD1 | Combination | 3.5576 | -0.6892 | 76.1468 | 0.7248 | -4.2688 | -0.149 |
| Base | 12 | 12 | DStlD2 | Combination | 3.6876 | -0.6965 | 76.1919 | 0.7302 | -3.906 | -0.1849 |
| Base | 12 | 12 | DConS1 | Combination | 4.9806 | -0.9649 | 106.6055 | 1.0147 | -5.9763 | -0.2085 |
| Base | 12 | 12 | DConS2 | Combination | 5.1886 | -0.9765 | 106.6776 | 1.0234 | -5.3958 | -0.266 |
| Base | 12 | 12 | DConS3 | Combination | 4.3191 | -0.8574 | 91.2787 | 0.9106 | -5.0083 | -0.2951 |
| Base | 12 | 12 | DConS4 | Combination | 4.5311 | -0.8141 | 91.5817 | 0.842 | -4.366 | -0.1487 |
| Base | 12 | 12 | DConS5 | Combination | 4.857 | -0.9901 | 106.4288 | 1.0548 | -6.351 | -0.2939 |
| Base | 12 | 12 | DConS6 | Combination | 5.1043 | -0.9397 | 106.7823 | 0.9747 | -5.6016 | -0.1231 |
| Base | 12 | 12 | DConS7 | Combination | 3.4339 | -0.7144 | 75.9701 | 0.7648 | -4.6435 | -0.2343 |
| Base | 12 | 12 | DConS8 | Combination | 3.6812 | -0.664 | 76.3235 | 0.6848 | -3.8941 | -0.0636 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|----------|----------|----------|----------|----------|---------|
| Base | 12 | 12 | DConS9 | Combination | 0.7466 | -1.0336 | 89.0834 | 1.2298 | -14.027 | -0.6547 |
| Base | 12 | 12 | DConS10 | Combination | 8.1036 | -0.6379 | 93.7771 | 0.5227 | 4.6527 | 0.211 |
| Base | 12 | 12 | DConS11 | Combination | 4.5011 | -10.6047 | 92.1108 | 17.9908 | -4.5421 | -0.0876 |
| Base | 12 | 12 | DConS12 | Combination | 4.3491 | 8.9332 | 90.7496 | -16.2383 | -4.8323 | -0.3562 |
| Base | 12 | 12 | DConS13 | Combination | 0.6891 | -1.1958 | 103.8675 | 1.4272 | -16.8728 | -0.7135 |
| Base | 12 | 12 | DConS14 | Combination | 9.2722 | -0.7341 | 109.3435 | 0.6023 | 4.9202 | 0.2964 |
| Base | 12 | 12 | DConS15 | Combination | 5.0693 | -12.3621 | 107.3996 | 20.9817 | -5.8071 | -0.0518 |
| Base | 12 | 12 | DConS16 | Combination | 4.892 | 10.4322 | 105.8115 | -18.9522 | -6.1456 | -0.3652 |
| Base | 12 | 12 | DConS17 | Combination | -0.734 | -0.9201 | 73.4088 | 1.1373 | -15.1653 | -0.6539 |
| Base | 12 | 12 | DConS18 | Combination | 7.8491 | -0.4584 | 78.8848 | 0.3123 | 6.6277 | 0.356 |
| Base | 12 | 12 | DConS19 | Combination | 3.6462 | -12.0864 | 76.9408 | 20.6918 | -4.0996 | 0.0077 |
| Base | 12 | 12 | DConS20 | Combination | 3.4689 | 10.7079 | 75.3528 | -19.2422 | -4.4381 | -0.3057 |
| Base | 13 | 13 | Dead | LinStatic | -6.9707 | 4.5225 | 62.1861 | 1.4303 | 1.0811 | 0.1884 |
| Base | 13 | 13 | Live | LinStatic | 0.0183 | -0.1214 | 0.1392 | 0.1197 | -0.0849 | 0.0704 |
| Base | 13 | 13 | WIND | LinStatic | -0.7718 | -0.0584 | 0.3682 | 0.0435 | -1.5975 | 0.0358 |
| Base | 13 | 13 | EQX | LinStatic | -9.4598 | 0.1443 | 3.1169 | -0.2866 | -18.3953 | -0.1488 |
| Base | 13 | 13 | EQY | LinStatic | 0.1928 | -6.4729 | -2.5154 | 12.4003 | 0.3557 | -0.2473 |
| Base | 13 | 13 | DSIbS1 | Combination | -9.759 | 6.3316 | 87.0606 | 2.0024 | 1.5136 | 0.2638 |
| Base | 13 | 13 | DSIbS2 | Combination | -9.7297 | 6.1374 | 87.2834 | 2.194 | 1.3777 | 0.3764 |
| Base | 13 | 13 | DSIbS3 | Combination | -9.269 | 5.2114 | 75.2323 | 1.9122 | -0.7216 | 0.3535 |
| Base | 13 | 13 | DSIbS4 | Combination | -7.4167 | 5.3514 | 74.3486 | 1.8078 | 3.1124 | 0.2676 |
| Base | 13 | 13 | DSIbS5 | Combination | -10.8394 | 6.2499 | 87.576 | 2.0634 | -0.7229 | 0.3139 |
| Base | 13 | 13 | DSIbS6 | Combination | -8.6785 | 6.4133 | 86.5451 | 1.9415 | 3.7501 | 0.2137 |
| Base | 13 | 13 | DSIbS7 | Combination | -8.0511 | 4.4409 | 62.7016 | 1.4912 | -1.1554 | 0.2386 |
| Base | 13 | 13 | DSIbS8 | Combination | -5.8902 | 4.6042 | 61.6707 | 1.3694 | 3.3176 | 0.1383 |
| Base | 13 | 13 | DSIbS9 | Combination | -8.3429 | 5.2814 | 74.7904 | 1.86 | 1.1954 | 0.3106 |
| Base | 13 | 13 | DSIbS10 | Combination | -8.3429 | 5.2814 | 74.7904 | 1.86 | 1.1954 | 0.3106 |
| Base | 13 | 13 | DSIbS11 | Combination | -8.3429 | 5.2814 | 74.7904 | 1.86 | 1.1954 | 0.3106 |
| Base | 13 | 13 | DSIbS12 | Combination | -8.3429 | 5.2814 | 74.7904 | 1.86 | 1.1954 | 0.3106 |
| Base | 13 | 13 | DSIbS13 | Combination | -9.759 | 6.3316 | 87.0606 | 2.0024 | 1.5136 | 0.2638 |
| Base | 13 | 13 | DSIbS14 | Combination | -9.759 | 6.3316 | 87.0606 | 2.0024 | 1.5136 | 0.2638 |
| Base | 13 | 13 | DSIbS15 | Combination | -9.759 | 6.3316 | 87.0606 | 2.0024 | 1.5136 | 0.2638 |
| Base | 13 | 13 | DSIbS16 | Combination | -9.759 | 6.3316 | 87.0606 | 2.0024 | 1.5136 | 0.2638 |
| Base | 13 | 13 | DSIbS17 | Combination | -6.9707 | 4.5225 | 62.1861 | 1.4303 | 1.0811 | 0.1884 |
| Base | 13 | 13 | DSIbS18 | Combination | -6.9707 | 4.5225 | 62.1861 | 1.4303 | 1.0811 | 0.1884 |
| Base | 13 | 13 | DSIbS19 | Combination | -6.9707 | 4.5225 | 62.1861 | 1.4303 | 1.0811 | 0.1884 |
| Base | 13 | 13 | DSIbS20 | Combination | -6.9707 | 4.5225 | 62.1861 | 1.4303 | 1.0811 | 0.1884 |
| Base | 13 | 13 | DStIS1 | Combination | -9.759 | 6.3316 | 87.0606 | 2.0024 | 1.5136 | 0.2638 |
| Base | 13 | 13 | DStIS2 | Combination | -9.7297 | 6.1374 | 87.2834 | 2.194 | 1.3777 | 0.3764 |
| Base | 13 | 13 | DStIS3 | Combination | -9.269 | 5.2114 | 75.2323 | 1.9122 | -0.7216 | 0.3535 |
| Base | 13 | 13 | DStIS4 | Combination | -7.4167 | 5.3514 | 74.3486 | 1.8078 | 3.1124 | 0.2676 |
| Base | 13 | 13 | DStIS5 | Combination | -10.8394 | 6.2499 | 87.576 | 2.0634 | -0.7229 | 0.3139 |
| Base | 13 | 13 | DStIS6 | Combination | -8.6785 | 6.4133 | 86.5451 | 1.9415 | 3.7501 | 0.2137 |
| Base | 13 | 13 | DStIS7 | Combination | -8.0511 | 4.4409 | 62.7016 | 1.4912 | -1.1554 | 0.2386 |
| Base | 13 | 13 | DStIS8 | Combination | -5.8902 | 4.6042 | 61.6707 | 1.3694 | 3.3176 | 0.1383 |
| Base | 13 | 13 | DStIS9 | Combination | -19.6946 | 5.4545 | 78.5307 | 1.5161 | -20.8789 | 0.132 |
| Base | 13 | 13 | DStIS10 | Combination | 3.0089 | 5.1083 | 71.0502 | 2.2039 | 23.2698 | 0.4891 |
| Base | 13 | 13 | DStIS11 | Combination | -8.1115 | -2.486 | 71.7719 | 16.7404 | 1.6223 | 0.0138 |
| Base | 13 | 13 | DStIS12 | Combination | -8.5742 | 13.0489 | 77.8089 | -13.0203 | 0.7686 | 0.6073 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|----------|---------|----------|----------|----------|---------|
| Base | 13 | 13 | DStIS13 | Combination | -23.0026 | 6.5335 | 91.4242 | 1.6012 | -24.2398 | 0.0555 |
| Base | 13 | 13 | DStIS14 | Combination | 3.4847 | 6.1296 | 82.697 | 2.4037 | 27.267 | 0.4722 |
| Base | 13 | 13 | DStIS15 | Combination | -9.489 | -2.7304 | 83.539 | 19.3628 | 2.0116 | -0.0824 |
| Base | 13 | 13 | DStIS16 | Combination | -10.0289 | 15.3936 | 90.5822 | -15.358 | 1.0156 | 0.61 |
| Base | 13 | 13 | DStIS17 | Combination | -20.2144 | 4.7245 | 66.5497 | 1.0291 | -24.6723 | -0.0199 |
| Base | 13 | 13 | DStIS18 | Combination | 6.273 | 4.3206 | 57.8225 | 1.8315 | 26.8345 | 0.3968 |
| Base | 13 | 13 | DStIS19 | Combination | -6.7007 | -4.5395 | 58.6645 | 18.7907 | 1.5791 | -0.1578 |
| Base | 13 | 13 | DStIS20 | Combination | -7.2406 | 13.5845 | 65.7077 | -15.9301 | 0.5831 | 0.5347 |
| Base | 13 | 13 | DStID1 | Combination | -6.9707 | 4.5225 | 62.1861 | 1.4303 | 1.0811 | 0.1884 |
| Base | 13 | 13 | DStID2 | Combination | -6.9524 | 4.4012 | 62.3254 | 1.55 | 0.9962 | 0.2588 |
| Base | 13 | 13 | DConS1 | Combination | -9.759 | 6.3316 | 87.0606 | 2.0024 | 1.5136 | 0.2638 |
| Base | 13 | 13 | DConS2 | Combination | -9.7297 | 6.1374 | 87.2834 | 2.194 | 1.3777 | 0.3764 |
| Base | 13 | 13 | DConS3 | Combination | -9.269 | 5.2114 | 75.2323 | 1.9122 | -0.7216 | 0.3535 |
| Base | 13 | 13 | DConS4 | Combination | -7.4167 | 5.3514 | 74.3486 | 1.8078 | 3.1124 | 0.2676 |
| Base | 13 | 13 | DConS5 | Combination | -10.8394 | 6.2499 | 87.576 | 2.0634 | -0.7229 | 0.3139 |
| Base | 13 | 13 | DConS6 | Combination | -8.6785 | 6.4133 | 86.5451 | 1.9415 | 3.7501 | 0.2137 |
| Base | 13 | 13 | DConS7 | Combination | -8.0511 | 4.4409 | 62.7016 | 1.4912 | -1.1554 | 0.2386 |
| Base | 13 | 13 | DConS8 | Combination | -5.8902 | 4.6042 | 61.6707 | 1.3694 | 3.3176 | 0.1383 |
| Base | 13 | 13 | DConS9 | Combination | -19.6946 | 5.4545 | 78.5307 | 1.5161 | -20.8789 | 0.132 |
| Base | 13 | 13 | DConS10 | Combination | 3.0089 | 5.1083 | 71.0502 | 2.2039 | 23.2698 | 0.4891 |
| Base | 13 | 13 | DConS11 | Combination | -8.1115 | -2.486 | 71.7719 | 16.7404 | 1.6223 | 0.0138 |
| Base | 13 | 13 | DConS12 | Combination | -8.5742 | 13.0489 | 77.8089 | -13.0203 | 0.7686 | 0.6073 |
| Base | 13 | 13 | DConS13 | Combination | -23.0026 | 6.5335 | 91.4242 | 1.6012 | -24.2398 | 0.0555 |
| Base | 13 | 13 | DConS14 | Combination | 3.4847 | 6.1296 | 82.697 | 2.4037 | 27.267 | 0.4722 |
| Base | 13 | 13 | DConS15 | Combination | -9.489 | -2.7304 | 83.539 | 19.3628 | 2.0116 | -0.0824 |
| Base | 13 | 13 | DConS16 | Combination | -10.0289 | 15.3936 | 90.5822 | -15.358 | 1.0156 | 0.61 |
| Base | 13 | 13 | DConS17 | Combination | -20.2144 | 4.7245 | 66.5497 | 1.0291 | -24.6723 | -0.0199 |
| Base | 13 | 13 | DConS18 | Combination | 6.273 | 4.3206 | 57.8225 | 1.8315 | 26.8345 | 0.3968 |
| Base | 13 | 13 | DConS19 | Combination | -6.7007 | -4.5395 | 58.6645 | 18.7907 | 1.5791 | -0.1578 |
| Base | 13 | 13 | DConS20 | Combination | -7.2406 | 13.5845 | 65.7077 | -15.9301 | 0.5831 | 0.5347 |
| Base | 14 | 14 | Dead | LinStatic | -0.6664 | 1.266 | 208.7304 | 4.9109 | -1.2162 | -0.1411 |
| Base | 14 | 14 | Live | LinStatic | -0.1271 | 0.0109 | -0.1913 | -0.0094 | -0.236 | -0.0343 |
| Base | 14 | 14 | WIND | LinStatic | -0.9834 | 0.0096 | -0.135 | -0.007 | -1.8202 | -0.0505 |
| Base | 14 | 14 | EQX | LinStatic | -10.8576 | -0.0168 | 0.0034 | 0.0339 | -19.8819 | -0.2661 |
| Base | 14 | 14 | EQY | LinStatic | 0.2271 | -0.9348 | -4.542 | 4.266 | 0.3937 | -0.0076 |
| Base | 14 | 14 | DSIbS1 | Combination | -0.933 | 1.7723 | 292.2226 | 6.8753 | -1.7027 | -0.1976 |
| Base | 14 | 14 | DSIbS2 | Combination | -1.1364 | 1.7898 | 291.9165 | 6.8602 | -2.0802 | -0.2524 |
| Base | 14 | 14 | DSIbS3 | Combination | -2.1323 | 1.5438 | 250.0849 | 5.8734 | -3.9269 | -0.271 |
| Base | 14 | 14 | DSIbS4 | Combination | 0.2279 | 1.5207 | 250.409 | 5.8901 | 0.4417 | -0.1499 |
| Base | 14 | 14 | DSIbS5 | Combination | -2.3098 | 1.7858 | 292.0336 | 6.8655 | -4.251 | -0.2682 |
| Base | 14 | 14 | DSIbS6 | Combination | 0.4438 | 1.7589 | 292.4117 | 6.885 | 0.8457 | -0.1269 |
| Base | 14 | 14 | DSIbS7 | Combination | -2.0432 | 1.2794 | 208.5414 | 4.9011 | -3.7645 | -0.2118 |
| Base | 14 | 14 | DSIbS8 | Combination | 0.7104 | 1.2525 | 208.9195 | 4.9207 | 1.3321 | -0.0705 |
| Base | 14 | 14 | DSIbS9 | Combination | -0.9522 | 1.5322 | 250.247 | 5.8818 | -1.7426 | -0.2105 |
| Base | 14 | 14 | DSIbS10 | Combination | -0.9522 | 1.5322 | 250.247 | 5.8818 | -1.7426 | -0.2105 |
| Base | 14 | 14 | DSIbS11 | Combination | -0.9522 | 1.5322 | 250.247 | 5.8818 | -1.7426 | -0.2105 |
| Base | 14 | 14 | DSIbS12 | Combination | -0.9522 | 1.5322 | 250.247 | 5.8818 | -1.7426 | -0.2105 |
| Base | 14 | 14 | DSIbS13 | Combination | -0.933 | 1.7723 | 292.2226 | 6.8753 | -1.7027 | -0.1976 |
| Base | 14 | 14 | DSIbS14 | Combination | -0.933 | 1.7723 | 292.2226 | 6.8753 | -1.7027 | -0.1976 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|----------|---------|----------|---------|----------|---------|
| Base | 14 | 14 | DSIbS15 | Combination | -0.933 | 1.7723 | 292.2226 | 6.8753 | -1.7027 | -0.1976 |
| Base | 14 | 14 | DSIbS16 | Combination | -0.933 | 1.7723 | 292.2226 | 6.8753 | -1.7027 | -0.1976 |
| Base | 14 | 14 | DSIbS17 | Combination | -0.6664 | 1.266 | 208.7304 | 4.9109 | -1.2162 | -0.1411 |
| Base | 14 | 14 | DSIbS18 | Combination | -0.6664 | 1.266 | 208.7304 | 4.9109 | -1.2162 | -0.1411 |
| Base | 14 | 14 | DSIbS19 | Combination | -0.6664 | 1.266 | 208.7304 | 4.9109 | -1.2162 | -0.1411 |
| Base | 14 | 14 | DSIbS20 | Combination | -0.6664 | 1.266 | 208.7304 | 4.9109 | -1.2162 | -0.1411 |
| Base | 14 | 14 | DStIS1 | Combination | -0.933 | 1.7723 | 292.2226 | 6.8753 | -1.7027 | -0.1976 |
| Base | 14 | 14 | DStIS2 | Combination | -1.1364 | 1.7898 | 291.9165 | 6.8602 | -2.0802 | -0.2524 |
| Base | 14 | 14 | DStIS3 | Combination | -2.1323 | 1.5438 | 250.0849 | 5.8734 | -3.9269 | -0.271 |
| Base | 14 | 14 | DStIS4 | Combination | 0.2279 | 1.5207 | 250.409 | 5.8901 | 0.4417 | -0.1499 |
| Base | 14 | 14 | DStIS5 | Combination | -2.3098 | 1.7858 | 292.0336 | 6.8655 | -4.251 | -0.2682 |
| Base | 14 | 14 | DStIS6 | Combination | 0.4438 | 1.7589 | 292.4117 | 6.885 | 0.8457 | -0.1269 |
| Base | 14 | 14 | DStIS7 | Combination | -2.0432 | 1.2794 | 208.5414 | 4.9011 | -3.7645 | -0.2118 |
| Base | 14 | 14 | DStIS8 | Combination | 0.7104 | 1.2525 | 208.9195 | 4.9207 | 1.3321 | -0.0705 |
| Base | 14 | 14 | DStIS9 | Combination | -13.9813 | 1.5121 | 250.251 | 5.9225 | -25.6009 | -0.5298 |
| Base | 14 | 14 | DStIS10 | Combination | 12.0769 | 1.5524 | 250.2429 | 5.8411 | 22.1157 | 0.1089 |
| Base | 14 | 14 | DStIS11 | Combination | -0.6797 | 0.4105 | 244.7966 | 11.0009 | -1.2702 | -0.2196 |
| Base | 14 | 14 | DStIS12 | Combination | -1.2248 | 2.654 | 255.6973 | 0.7626 | -2.215 | -0.2014 |
| Base | 14 | 14 | DStIS13 | Combination | -16.1336 | 1.7488 | 292.2273 | 6.9227 | -29.5373 | -0.5701 |
| Base | 14 | 14 | DStIS14 | Combination | 14.2677 | 1.7959 | 292.2179 | 6.8278 | 26.132 | 0.175 |
| Base | 14 | 14 | DStIS15 | Combination | -0.615 | 0.4636 | 285.8639 | 12.8476 | -1.1515 | -0.2082 |
| Base | 14 | 14 | DStIS16 | Combination | -1.2509 | 3.0811 | 298.5814 | 0.9029 | -2.2538 | -0.1869 |
| Base | 14 | 14 | DStIS17 | Combination | -15.867 | 1.2425 | 208.7352 | 4.9584 | -29.0509 | -0.5137 |
| Base | 14 | 14 | DStIS18 | Combination | 14.5342 | 1.2895 | 208.7257 | 4.8634 | 26.6185 | 0.2315 |
| Base | 14 | 14 | DStIS19 | Combination | -0.3484 | -0.0428 | 202.3717 | 10.8833 | -0.665 | -0.1517 |
| Base | 14 | 14 | DStIS20 | Combination | -0.9844 | 2.5747 | 215.0892 | -1.0615 | -1.7673 | -0.1305 |
| Base | 14 | 14 | DStID1 | Combination | -0.6664 | 1.266 | 208.7304 | 4.9109 | -1.2162 | -0.1411 |
| Base | 14 | 14 | DStID2 | Combination | -0.7935 | 1.2769 | 208.5391 | 4.9015 | -1.4522 | -0.1754 |
| Base | 14 | 14 | DConS1 | Combination | -0.933 | 1.7723 | 292.2226 | 6.8753 | -1.7027 | -0.1976 |
| Base | 14 | 14 | DConS2 | Combination | -1.1364 | 1.7898 | 291.9165 | 6.8602 | -2.0802 | -0.2524 |
| Base | 14 | 14 | DConS3 | Combination | -2.1323 | 1.5438 | 250.0849 | 5.8734 | -3.9269 | -0.271 |
| Base | 14 | 14 | DConS4 | Combination | 0.2279 | 1.5207 | 250.409 | 5.8901 | 0.4417 | -0.1499 |
| Base | 14 | 14 | DConS5 | Combination | -2.3098 | 1.7858 | 292.0336 | 6.8655 | -4.251 | -0.2682 |
| Base | 14 | 14 | DConS6 | Combination | 0.4438 | 1.7589 | 292.4117 | 6.885 | 0.8457 | -0.1269 |
| Base | 14 | 14 | DConS7 | Combination | -2.0432 | 1.2794 | 208.5414 | 4.9011 | -3.7645 | -0.2118 |
| Base | 14 | 14 | DConS8 | Combination | 0.7104 | 1.2525 | 208.9195 | 4.9207 | 1.3321 | -0.0705 |
| Base | 14 | 14 | DConS9 | Combination | -13.9813 | 1.5121 | 250.251 | 5.9225 | -25.6009 | -0.5298 |
| Base | 14 | 14 | DConS10 | Combination | 12.0769 | 1.5524 | 250.2429 | 5.8411 | 22.1157 | 0.1089 |
| Base | 14 | 14 | DConS11 | Combination | -0.6797 | 0.4105 | 244.7966 | 11.0009 | -1.2702 | -0.2196 |
| Base | 14 | 14 | DConS12 | Combination | -1.2248 | 2.654 | 255.6973 | 0.7626 | -2.215 | -0.2014 |
| Base | 14 | 14 | DConS13 | Combination | -16.1336 | 1.7488 | 292.2273 | 6.9227 | -29.5373 | -0.5701 |
| Base | 14 | 14 | DConS14 | Combination | 14.2677 | 1.7959 | 292.2179 | 6.8278 | 26.132 | 0.175 |
| Base | 14 | 14 | DConS15 | Combination | -0.615 | 0.4636 | 285.8639 | 12.8476 | -1.1515 | -0.2082 |
| Base | 14 | 14 | DConS16 | Combination | -1.2509 | 3.0811 | 298.5814 | 0.9029 | -2.2538 | -0.1869 |
| Base | 14 | 14 | DConS17 | Combination | -15.867 | 1.2425 | 208.7352 | 4.9584 | -29.0509 | -0.5137 |
| Base | 14 | 14 | DConS18 | Combination | 14.5342 | 1.2895 | 208.7257 | 4.8634 | 26.6185 | 0.2315 |
| Base | 14 | 14 | DConS19 | Combination | -0.3484 | -0.0428 | 202.3717 | 10.8833 | -0.665 | -0.1517 |
| Base | 14 | 14 | DConS20 | Combination | -0.9844 | 2.5747 | 215.0892 | -1.0615 | -1.7673 | -0.1305 |
| Base | 15 | 15 | Dead | LinStatic | 5.9592 | 4.5131 | 61.7692 | 1.4585 | -3.1731 | -0.1823 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|---------|---------|---------|----------|----------|---------|
| Base | 15 | 15 | Live | LinStatic | -0.2309 | -0.124 | 0.0564 | 0.1259 | -0.343 | -0.0448 |
| Base | 15 | 15 | WIND | LinStatic | -0.963 | -0.11 | -0.2248 | 0.1232 | -1.7953 | -0.0738 |
| Base | 15 | 15 | EQX | LinStatic | -9.5575 | -0.1266 | -3.0807 | 0.2513 | -18.495 | -0.4367 |
| Base | 15 | 15 | EQY | LinStatic | 0.1996 | -6.5435 | -2.4927 | 12.5697 | 0.3659 | 0.2387 |
| Base | 15 | 15 | DSIbS1 | Combination | 8.3429 | 6.3183 | 86.4769 | 2.0418 | -4.4424 | -0.2552 |
| Base | 15 | 15 | DSIbS2 | Combination | 7.9734 | 6.1198 | 86.5671 | 2.2432 | -4.9911 | -0.3269 |
| Base | 15 | 15 | DSIbS3 | Combination | 5.7184 | 5.1348 | 73.9209 | 2.049 | -6.3737 | -0.3611 |
| Base | 15 | 15 | DSIbS4 | Combination | 8.0295 | 5.3989 | 74.4605 | 1.7534 | -2.065 | -0.184 |
| Base | 15 | 15 | DSIbS5 | Combination | 6.9947 | 6.1642 | 86.1621 | 2.2143 | -6.9558 | -0.3585 |
| Base | 15 | 15 | DSIbS6 | Combination | 9.691 | 6.4724 | 86.7916 | 1.8694 | -1.9289 | -0.1519 |
| Base | 15 | 15 | DSIbS7 | Combination | 4.611 | 4.359 | 61.4544 | 1.6309 | -5.6865 | -0.2856 |
| Base | 15 | 15 | DSIbS8 | Combination | 7.3074 | 4.6671 | 62.0839 | 1.286 | -0.6597 | -0.079 |
| Base | 15 | 15 | DSIbS9 | Combination | 6.874 | 5.2668 | 74.1907 | 1.9012 | -4.2193 | -0.2725 |
| Base | 15 | 15 | DSIbS10 | Combination | 6.874 | 5.2668 | 74.1907 | 1.9012 | -4.2193 | -0.2725 |
| Base | 15 | 15 | DSIbS11 | Combination | 6.874 | 5.2668 | 74.1907 | 1.9012 | -4.2193 | -0.2725 |
| Base | 15 | 15 | DSIbS12 | Combination | 6.874 | 5.2668 | 74.1907 | 1.9012 | -4.2193 | -0.2725 |
| Base | 15 | 15 | DSIbS13 | Combination | 8.3429 | 6.3183 | 86.4769 | 2.0418 | -4.4424 | -0.2552 |
| Base | 15 | 15 | DSIbS14 | Combination | 8.3429 | 6.3183 | 86.4769 | 2.0418 | -4.4424 | -0.2552 |
| Base | 15 | 15 | DSIbS15 | Combination | 8.3429 | 6.3183 | 86.4769 | 2.0418 | -4.4424 | -0.2552 |
| Base | 15 | 15 | DSIbS16 | Combination | 8.3429 | 6.3183 | 86.4769 | 2.0418 | -4.4424 | -0.2552 |
| Base | 15 | 15 | DSIbS17 | Combination | 5.9592 | 4.5131 | 61.7692 | 1.4585 | -3.1731 | -0.1823 |
| Base | 15 | 15 | DSIbS18 | Combination | 5.9592 | 4.5131 | 61.7692 | 1.4585 | -3.1731 | -0.1823 |
| Base | 15 | 15 | DSIbS19 | Combination | 5.9592 | 4.5131 | 61.7692 | 1.4585 | -3.1731 | -0.1823 |
| Base | 15 | 15 | DSIbS20 | Combination | 5.9592 | 4.5131 | 61.7692 | 1.4585 | -3.1731 | -0.1823 |
| Base | 15 | 15 | DStIS1 | Combination | 8.3429 | 6.3183 | 86.4769 | 2.0418 | -4.4424 | -0.2552 |
| Base | 15 | 15 | DStIS2 | Combination | 7.9734 | 6.1198 | 86.5671 | 2.2432 | -4.9911 | -0.3269 |
| Base | 15 | 15 | DStIS3 | Combination | 5.7184 | 5.1348 | 73.9209 | 2.049 | -6.3737 | -0.3611 |
| Base | 15 | 15 | DStIS4 | Combination | 8.0295 | 5.3989 | 74.4605 | 1.7534 | -2.065 | -0.184 |
| Base | 15 | 15 | DStIS5 | Combination | 6.9947 | 6.1642 | 86.1621 | 2.2143 | -6.9558 | -0.3585 |
| Base | 15 | 15 | DStIS6 | Combination | 9.691 | 6.4724 | 86.7916 | 1.8694 | -1.9289 | -0.1519 |
| Base | 15 | 15 | DStIS7 | Combination | 4.611 | 4.359 | 61.4544 | 1.6309 | -5.6865 | -0.2856 |
| Base | 15 | 15 | DStIS8 | Combination | 7.3074 | 4.6671 | 62.0839 | 1.286 | -0.6597 | -0.079 |
| Base | 15 | 15 | DStIS9 | Combination | -4.595 | 5.115 | 70.4938 | 2.2027 | -26.4134 | -0.7966 |
| Base | 15 | 15 | DStIS10 | Combination | 18.3429 | 5.4187 | 77.8875 | 1.5997 | 17.9747 | 0.2515 |
| Base | 15 | 15 | DStIS11 | Combination | 7.1135 | -2.5854 | 71.1994 | 16.9849 | -3.7802 | 0.0139 |
| Base | 15 | 15 | DStIS12 | Combination | 6.6344 | 13.119 | 77.182 | -13.1825 | -4.6584 | -0.559 |
| Base | 15 | 15 | DStIS13 | Combination | -5.0376 | 6.1411 | 82.1639 | 2.3936 | -30.3354 | -0.8666 |
| Base | 15 | 15 | DStIS14 | Combination | 21.7233 | 6.4955 | 90.7899 | 1.6901 | 21.4507 | 0.3562 |
| Base | 15 | 15 | DStIS15 | Combination | 8.6224 | -2.8426 | 82.987 | 19.6395 | -3.9301 | 0.079 |
| Base | 15 | 15 | DStIS16 | Combination | 8.0634 | 15.4792 | 89.9667 | -15.5558 | -4.9547 | -0.5894 |
| Base | 15 | 15 | DStIS17 | Combination | -7.4213 | 4.3359 | 57.4562 | 1.8102 | -29.0662 | -0.7937 |
| Base | 15 | 15 | DStIS18 | Combination | 19.3397 | 4.6903 | 66.0822 | 1.1067 | 22.7199 | 0.4291 |
| Base | 15 | 15 | DStIS19 | Combination | 6.2387 | -4.6478 | 58.2793 | 19.0561 | -2.6608 | 0.1519 |
| Base | 15 | 15 | DStIS20 | Combination | 5.6797 | 13.674 | 65.259 | -16.1392 | -3.6854 | -0.5165 |
| Base | 15 | 15 | DStID1 | Combination | 5.9592 | 4.5131 | 61.7692 | 1.4585 | -3.1731 | -0.1823 |
| Base | 15 | 15 | DStID2 | Combination | 5.7283 | 4.389 | 61.8256 | 1.5843 | -3.5161 | -0.2271 |
| Base | 15 | 15 | DConS1 | Combination | 8.3429 | 6.3183 | 86.4769 | 2.0418 | -4.4424 | -0.2552 |
| Base | 15 | 15 | DConS2 | Combination | 7.9734 | 6.1198 | 86.5671 | 2.2432 | -4.9911 | -0.3269 |
| Base | 15 | 15 | DConS3 | Combination | 5.7184 | 5.1348 | 73.9209 | 2.049 | -6.3737 | -0.3611 |

Table 5.4 - Joint Reactions (continued)

| Story | Label | Unique Name | Output Case | Case Type | FX kN | FY kN | FZ kN | MX kN-m | MY kN-m | MZ kN-m |
|-------|-------|-------------|-------------|-------------|---------|---------|---------|----------|----------|---------|
| Base | 15 | 15 | DConS4 | Combination | 8.0295 | 5.3989 | 74.4605 | 1.7534 | -2.065 | -0.184 |
| Base | 15 | 15 | DConS5 | Combination | 6.9947 | 6.1642 | 86.1621 | 2.2143 | -6.9558 | -0.3585 |
| Base | 15 | 15 | DConS6 | Combination | 9.691 | 6.4724 | 86.7916 | 1.8694 | -1.9289 | -0.1519 |
| Base | 15 | 15 | DConS7 | Combination | 4.611 | 4.359 | 61.4544 | 1.6309 | -5.6865 | -0.2856 |
| Base | 15 | 15 | DConS8 | Combination | 7.3074 | 4.6671 | 62.0839 | 1.286 | -0.6597 | -0.079 |
| Base | 15 | 15 | DConS9 | Combination | -4.595 | 5.115 | 70.4938 | 2.2027 | -26.4134 | -0.7966 |
| Base | 15 | 15 | DConS10 | Combination | 18.3429 | 5.4187 | 77.8875 | 1.5997 | 17.9747 | 0.2515 |
| Base | 15 | 15 | DConS11 | Combination | 7.1135 | -2.5854 | 71.1994 | 16.9849 | -3.7802 | 0.0139 |
| Base | 15 | 15 | DConS12 | Combination | 6.6344 | 13.119 | 77.182 | -13.1825 | -4.6584 | -0.559 |
| Base | 15 | 15 | DConS13 | Combination | -5.0376 | 6.1411 | 82.1639 | 2.3936 | -30.3354 | -0.8666 |
| Base | 15 | 15 | DConS14 | Combination | 21.7233 | 6.4955 | 90.7899 | 1.6901 | 21.4507 | 0.3562 |
| Base | 15 | 15 | DConS15 | Combination | 8.6224 | -2.8426 | 82.987 | 19.6395 | -3.9301 | 0.079 |
| Base | 15 | 15 | DConS16 | Combination | 8.0634 | 15.4792 | 89.9667 | -15.5558 | -4.9547 | -0.5894 |
| Base | 15 | 15 | DConS17 | Combination | -7.4213 | 4.3359 | 57.4562 | 1.8102 | -29.0662 | -0.7937 |
| Base | 15 | 15 | DConS18 | Combination | 19.3397 | 4.6903 | 66.0822 | 1.1067 | 22.7199 | 0.4291 |
| Base | 15 | 15 | DConS19 | Combination | 6.2387 | -4.6478 | 58.2793 | 19.0561 | -2.6608 | 0.1519 |
| Base | 15 | 15 | DConS20 | Combination | 5.6797 | 13.674 | 65.259 | -16.1392 | -3.6854 | -0.5165 |

5.4 Modal Results

Table 5.5 - Modal Periods And Frequencies

| Case | Mode | Period sec | Frequency cyc/sec | CircFreq rad/sec | Eigenvalue rad2/sec2 |
|-------|------|------------|-------------------|------------------|----------------------|
| Modal | 1 | 0.528 | 1.894 | 11.9016 | 141.6484 |
| Modal | 2 | 0.452 | 2.211 | 13.8909 | 192.9565 |
| Modal | 3 | 0.418 | 2.395 | 15.0461 | 226.3845 |
| Modal | 4 | 0.34 | 2.942 | 18.487 | 341.7688 |
| Modal | 5 | 0.315 | 3.174 | 19.9435 | 397.7447 |
| Modal | 6 | 0.103 | 9.668 | 60.7445 | 3689.8904 |
| Modal | 7 | 0.101 | 9.893 | 62.1604 | 3863.9154 |
| Modal | 8 | 0.09 | 11.092 | 69.6928 | 4857.0822 |
| Modal | 9 | 0.088 | 11.354 | 71.3381 | 5089.1275 |
| Modal | 10 | 0.086 | 11.645 | 73.1648 | 5353.0842 |
| Modal | 11 | 0.08 | 12.431 | 78.1064 | 6100.609 |
| Modal | 12 | 0.077 | 12.99 | 81.6199 | 6661.8059 |

Table 5.6 - Modal Participating Mass Ratios (Part 1 of 2)

| Case | Mode | Period sec | UX | UY | UZ | SumUX | SumUY | SumUZ | RX | RY |
|-------|------|------------|-----------|-----------|----|--------|-----------|-------|-----------|-----------|
| Modal | 1 | 0.528 | 0.9254 | 1.214E-05 | 0 | 0.9254 | 1.214E-05 | 0 | 8.67E-06 | 0.9293 |
| Modal | 2 | 0.452 | 0.0001 | 0.8703 | 0 | 0.9255 | 0.8703 | 0 | 0.8505 | 0.0001 |
| Modal | 3 | 0.418 | 0.0035 | 0.0061 | 0 | 0.929 | 0.8764 | 0 | 0.0076 | 0.0032 |
| Modal | 4 | 0.34 | 6.455E-07 | 0.0101 | 0 | 0.929 | 0.8865 | 0 | 0.0077 | 6.402E-07 |
| Modal | 5 | 0.315 | 1.82E-06 | 0.0685 | 0 | 0.929 | 0.9549 | 0 | 0.0412 | 1.468E-06 |
| Modal | 6 | 0.103 | 0.0252 | 2.042E-06 | 0 | 0.9542 | 0.9549 | 0 | 1.081E-06 | 0.0083 |
| Modal | 7 | 0.101 | 0.0268 | 0 | 0 | 0.981 | 0.9549 | 0 | 0 | 0.0202 |
| Modal | 8 | 0.09 | 0.0007 | 0.0153 | 0 | 0.9818 | 0.9702 | 0 | 0.0347 | 0.0003 |
| Modal | 9 | 0.088 | 0.0045 | 0.0029 | 0 | 0.9862 | 0.9731 | 0 | 0.0077 | 0.0017 |
| Modal | 10 | 0.086 | 0.0004 | 0.0006 | 0 | 0.9867 | 0.9738 | 0 | 0.0025 | 0.0001 |
| Modal | 11 | 0.08 | 4.2E-06 | 0.0189 | 0 | 0.9867 | 0.9927 | 0 | 0.0473 | 2.089E-05 |

Table 5.6 - Modal Participating Mass Ratios (Part 1 of 2, continued)

| Case | Mode | Period sec | UX | UY | UZ | SumUX | SumUY | SumUZ | RX | RY |
|-------|------|------------|--------|-----------|----|--------|--------|-------|-----------|--------|
| Modal | 12 | 0.077 | 0.0101 | 9.286E-06 | 0 | 0.9968 | 0.9927 | 0 | 2.443E-05 | 0.0242 |

Table 5.6 - Modal Participating Mass Ratios (Part 2 of 2)

| Case | Mode | RZ | SumRX | SumRY | SumRZ |
|-------|------|-----------|----------|--------|--------|
| Modal | 1 | 0.0033 | 8.67E-06 | 0.9293 | 0.0033 |
| Modal | 2 | 0.0094 | 0.8505 | 0.9293 | 0.0127 |
| Modal | 3 | 0.943 | 0.8581 | 0.9325 | 0.9557 |
| Modal | 4 | 0.0001 | 0.8658 | 0.9325 | 0.9558 |
| Modal | 5 | 0.0004 | 0.9069 | 0.9325 | 0.9562 |
| Modal | 6 | 0.0023 | 0.9069 | 0.9408 | 0.9584 |
| Modal | 7 | 0.0002 | 0.9069 | 0.9611 | 0.9587 |
| Modal | 8 | 0.0031 | 0.9416 | 0.9614 | 0.9618 |
| Modal | 9 | 0.0172 | 0.9493 | 0.9631 | 0.9789 |
| Modal | 10 | 0.0012 | 0.9518 | 0.9632 | 0.9801 |
| Modal | 11 | 0.0085 | 0.9991 | 0.9632 | 0.9886 |
| Modal | 12 | 4.081E-05 | 0.9991 | 0.9874 | 0.9887 |

Table 5.7 - Modal Load Participation Ratios

| Case | ItemType | Item | Static % | Dynamic % |
|-------|--------------|------|----------|-----------|
| Modal | Acceleration | UX | 99.99 | 99.68 |
| Modal | Acceleration | UY | 99.99 | 99.27 |
| Modal | Acceleration | UZ | 0 | 0 |

Table 5.8 - Modal Direction Factors

| Case | Mode | Period sec | UX | UY | UZ | RZ |
|-------|------|------------|-------|-------|----|-------|
| Modal | 1 | 0.528 | 0.996 | 0 | 0 | 0.004 |
| Modal | 2 | 0.452 | 0 | 0.99 | 0 | 0.01 |
| Modal | 3 | 0.418 | 0.004 | 0.008 | 0 | 0.989 |
| Modal | 4 | 0.34 | 0 | 0.987 | 0 | 0.013 |
| Modal | 5 | 0.315 | 0 | 0.983 | 0 | 0.017 |
| Modal | 6 | 0.103 | 0.938 | 0 | 0 | 0.062 |
| Modal | 7 | 0.101 | 0.997 | 0 | 0 | 0.003 |
| Modal | 8 | 0.09 | 0.012 | 0.584 | 0 | 0.403 |
| Modal | 9 | 0.088 | 0.245 | 0.42 | 0 | 0.335 |
| Modal | 10 | 0.086 | 0.018 | 0.096 | 0 | 0.886 |
| Modal | 11 | 0.08 | 0 | 0.897 | 0 | 0.103 |
| Modal | 12 | 0.077 | 0.954 | 0.001 | 0 | 0.045 |

6 Design Data

This chapter provides design data and results.

6.1 Steel Frame Design

Table 6.1 - Steel Frame Design Preferences - BS 5950-2000

| Item | Value |
|--------------------------|--------------------|
| Multi-Response Design | Step-by-Step - All |
| Frame Type | Moment Frame |
| Consider Deflection? | Yes |
| DL Ratio | 120 |
| SDL+LL Ratio | 120 |
| LL Ratio | 360 |
| Total Ratio | 240 |
| Total Camber Limit | 240 |
| Pattern Live Load Factor | 0.75 |
| D/C Ratio Limit | 0.95 |
| Maximum Iterations | 1 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 1 of 4)

| Story | Label | Unique Name | Design Type | Design Section | Frame Type | Check Deflection? | Deflection Type |
|--------|-------|-------------|-------------|--------------------|--------------------|--------------------|--------------------|
| Story2 | C15 | 80 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C77 | 148 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C80 | 151 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C83 | 154 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C86 | 157 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C89 | 160 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C92 | 163 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C95 | 166 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C98 | 169 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C101 | 172 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C104 | 175 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C107 | 178 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C110 | 181 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C112 | 102 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C113 | 103 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C114 | 104 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C115 | 105 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C116 | 106 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C117 | 107 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C118 | 108 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C119 | 109 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C120 | 110 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C121 | 111 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C122 | 112 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C123 | 113 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C124 | 114 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C125 | 156 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C126 | 158 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C127 | 159 | Column | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | C128 | 161 | Column | Program Determined | Program Determined | Program Determined | Program Determined |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 1 of 4, continued)

| Story | Label | Unique Name | Design Type | Design Section | Frame Type | Check Deflection? | Deflection Type |
|--------|-------|-------------|-------------|--------------------|--------------------|--------------------|--------------------|
| Story2 | B251 | 197 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B270 | 239 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B271 | 240 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B272 | 247 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B273 | 248 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B292 | 298 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B293 | 299 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B294 | 306 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B295 | 307 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B314 | 349 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B315 | 350 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B316 | 357 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B317 | 358 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B336 | 400 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B337 | 401 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B338 | 408 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B339 | 409 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B358 | 451 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B359 | 452 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B360 | 459 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B361 | 460 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B380 | 502 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B381 | 503 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B382 | 510 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B383 | 511 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B23 | 48 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B24 | 49 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B25 | 50 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B26 | 51 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B27 | 76 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B29 | 77 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B30 | 79 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B31 | 81 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B32 | 82 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B33 | 83 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B35 | 84 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B36 | 85 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B37 | 86 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B38 | 87 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B39 | 88 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B41 | 89 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B42 | 90 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B43 | 91 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B44 | 92 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B45 | 93 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B47 | 94 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B48 | 95 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B49 | 96 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B50 | 97 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 1 of 4, continued)

| Story | Label | Unique Name | Design Type | Design Section | Frame Type | Check Deflection? | Deflection Type |
|--------|-------|-------------|-------------|----------------|--------------------|--------------------|--------------------|
| Story2 | B51 | 98 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B53 | 99 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B54 | 100 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B55 | 101 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B59 | 125 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B61 | 126 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B63 | 127 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B64 | 128 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B65 | 129 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B66 | 130 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B67 | 131 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B69 | 132 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B70 | 133 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B71 | 134 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B72 | 135 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B73 | 136 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B75 | 137 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B76 | 138 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B77 | 139 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B78 | 140 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B79 | 141 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B80 | 142 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B81 | 143 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B82 | 144 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B83 | 145 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B84 | 146 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B85 | 147 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B86 | 149 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B87 | 150 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B88 | 152 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B89 | 153 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B90 | 155 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B91 | 198 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B92 | 199 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B93 | 200 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B94 | 201 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B95 | 202 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B96 | 203 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B97 | 204 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B98 | 205 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B99 | 206 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B100 | 207 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B101 | 208 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B102 | 209 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B103 | 210 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B104 | 211 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B105 | 212 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B106 | 213 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B107 | 214 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 1 of 4, continued)

| Story | Label | Unique Name | Design Type | Design Section | Frame Type | Check Deflection? | Deflection Type |
|--------|-------|-------------|-------------|----------------|--------------------|--------------------|--------------------|
| Story2 | B108 | 215 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B109 | 216 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B110 | 217 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B111 | 218 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B112 | 219 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B113 | 220 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B114 | 221 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B115 | 222 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B116 | 223 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B117 | 224 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B119 | 225 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B120 | 249 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B121 | 250 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B122 | 251 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B123 | 252 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B125 | 253 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B126 | 254 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B127 | 255 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B128 | 256 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B129 | 257 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B131 | 258 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B132 | 259 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B133 | 260 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B134 | 261 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B135 | 262 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B137 | 263 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B138 | 264 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B139 | 265 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B140 | 266 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B141 | 267 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B143 | 268 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B144 | 269 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B145 | 270 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B146 | 271 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B147 | 272 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B149 | 273 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B150 | 274 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B151 | 283 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B152 | 284 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B153 | 308 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B155 | 309 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B156 | 310 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B157 | 311 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B158 | 312 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B159 | 313 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B232 | 314 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B233 | 315 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B234 | 316 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B235 | 317 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 1 of 4, continued)

| Story | Label | Unique Name | Design Type | Design Section | Frame Type | Check Deflection? | Deflection Type |
|--------|-------|-------------|-------------|--------------------|--------------------|--------------------|--------------------|
| Story2 | B371 | 485 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B372 | 486 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B373 | 487 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B374 | 488 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B375 | 512 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B376 | 513 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B377 | 514 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B379 | 515 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B384 | 516 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B385 | 517 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B386 | 518 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B387 | 519 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B388 | 520 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B389 | 521 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B390 | 522 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B391 | 523 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B392 | 524 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B393 | 525 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B394 | 526 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B395 | 527 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B396 | 528 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B397 | 529 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B398 | 530 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B399 | 531 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B456 | 532 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B457 | 533 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B458 | 534 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B459 | 535 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B461 | 536 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B462 | 537 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B463 | 538 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B464 | 539 | Beam | RHS60*40,3 | Program Determined | Program Determined | Program Determined |
| Story2 | B28 | 540 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B34 | 541 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B40 | 542 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B46 | 543 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B52 | 544 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B62 | 545 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B68 | 546 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B74 | 547 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B118 | 548 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B124 | 549 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B130 | 550 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B136 | 551 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B142 | 552 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B148 | 553 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B154 | 554 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B168 | 555 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |
| Story2 | B169 | 556 | Beam | Program Determined | Program Determined | Program Determined | Program Determined |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 2 of 4)

| DL Ratio | SDL+LL Ratio | LL Ratio | Total Ratio | Camber Ratio | Specified Camber mm | Net Area Ratio | LLRF | Unbraced Length Ratio Major | Unbraced Length Ratio Minor | Effective Length Factor Major |
|----------|--------------|----------|-------------|--------------|---------------------|----------------|------|-----------------------------|-----------------------------|-------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 2 of 4, continued)

| DL Ratio | SDL+LL Ratio | LL Ratio | Total Ratio | Camber Ratio | Specified Camber mm | Net Area Ratio | LLRF | Unbraced Length Ratio Major | Unbraced Length Ratio Minor | Effective Length Factor Major |
|----------|--------------|----------|-------------|--------------|---------------------|----------------|------|-----------------------------|-----------------------------|-------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 2 of 4, continued)

| DL Ratio | SDL+LL Ratio | LL Ratio | Total Ratio | Camber Ratio | Specified Camber mm | Net Area Ratio | LLRF | Unbraced Length Ratio Major | Unbraced Length Ratio Minor | Effective Length Factor Major |
|----------|--------------|----------|-------------|--------------|---------------------|----------------|------|-----------------------------|-----------------------------|-------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 2 of 4, continued)

| DL Ratio | SDL+LL Ratio | LL Ratio | Total Ratio | Camber Ratio | Specified Camber mm | Net Area Ratio | LLRF | Unbraced Length Ratio Major | Unbraced Length Ratio Minor | Effective Length Factor Major |
|-----------------|---------------------|-----------------|--------------------|---------------------|----------------------------|-----------------------|-------------|------------------------------------|------------------------------------|--------------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 2 of 4, continued)

| DL Ratio | SDL+LL Ratio | LL Ratio | Total Ratio | Camber Ratio | Specified Camber mm | Net Area Ratio | LLRF | Unbraced Length Ratio Major | Unbraced Length Ratio Minor | Effective Length Factor Major |
|----------|--------------|----------|-------------|--------------|---------------------|----------------|------|-----------------------------|-----------------------------|-------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 2 of 4, continued)

| DL Ratio | SDL+LL Ratio | LL Ratio | Total Ratio | Camber Ratio | Specified Camber mm | Net Area Ratio | LLRF | Unbraced Length Ratio Major | Unbraced Length Ratio Minor | Effective Length Factor Major |
|----------|--------------|----------|-------------|--------------|---------------------|----------------|------|-----------------------------|-----------------------------|-------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 2 of 4, continued)

| DL Ratio | SDL+LL Ratio | LL Ratio | Total Ratio | Camber Ratio | Specified Camber mm | Net Area Ratio | LLRF | Unbraced Length Ratio Major | Unbraced Length Ratio Minor | Effective Length Factor Major |
|-----------------|---------------------|-----------------|--------------------|---------------------|----------------------------|-----------------------|-------------|------------------------------------|------------------------------------|--------------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 2 of 4, continued)

| DL Ratio | SDL+LL Ratio | LL Ratio | Total Ratio | Camber Ratio | Specified Camber mm | Net Area Ratio | LLRF | Unbraced Length Ratio Major | Unbraced Length Ratio Minor | Effective Length Factor Major |
|----------|--------------|----------|-------------|--------------|---------------------|----------------|------|-----------------------------|-----------------------------|-------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 2 of 4, continued)

| DL Ratio | SDL+LL Ratio | LL Ratio | Total Ratio | Camber Ratio | Specified Camber mm | Net Area Ratio | LLRF | Unbraced Length Ratio Major | Unbraced Length Ratio Minor | Effective Length Factor Major |
|----------|--------------|----------|-------------|--------------|---------------------|----------------|------|-----------------------------|-----------------------------|-------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 2 of 4, continued)

| DL Ratio | SDL+LL Ratio | LL Ratio | Total Ratio | Camber Ratio | Specified Camber mm | Net Area Ratio | LLRF | Unbraced Length Ratio Major | Unbraced Length Ratio Minor | Effective Length Factor Major |
|----------|--------------|----------|-------------|--------------|---------------------|----------------|------|-----------------------------|-----------------------------|-------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 2 of 4, continued)

| DL Ratio | SDL+LL Ratio | LL Ratio | Total Ratio | Camber Ratio | Specified Camber mm | Net Area Ratio | LLRF | Unbraced Length Ratio Major | Unbraced Length Ratio Minor | Effective Length Factor Major |
|-----------------|---------------------|-----------------|--------------------|---------------------|----------------------------|-----------------------|-------------|------------------------------------|------------------------------------|--------------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 2 of 4, continued)

| DL Ratio | SDL+LL Ratio | LL Ratio | Total Ratio | Camber Ratio | Specified Camber mm | Net Area Ratio | LLRF | Unbraced Length Ratio Major | Unbraced Length Ratio Minor | Effective Length Factor Major |
|----------|--------------|----------|-------------|--------------|---------------------|----------------|------|-----------------------------|-----------------------------|-------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 3 of 4)

| Uniform Moment Factor (m Major) | Uniform Moment Factor (m Minor) | Eqv. Uniform Moment factor (mLT) | Yield stress, Fy MPa | Compressive Capacity, Pc kN | Tensile Capacity, Pt kN | Major Bending Capacity, Mc3 kN-m | Minor Bending Capacity, Mc2 kN-m | Buckling Resistance Moment, Mb kN-m | Major Shear Capacity, Pv2 kN |
|---------------------------------|---------------------------------|----------------------------------|----------------------|-----------------------------|-------------------------|----------------------------------|----------------------------------|-------------------------------------|------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 3 of 4, continued)

| Uniform Moment Factor (m Major) | Uniform Moment Factor (m Minor) | Eqv. Uniform Moment factor (mLT) | Yield stress, F_y MPa | Compressive Capacity, P_c kN | Tensile Capacity, P_t kN | Major Bending Capacity, M_{c3} kN-m | Minor Bending Capacity, M_{c2} kN-m | Buckling Resistance Moment, M_b kN-m | Major Shear Capacity, P_v2 kN |
|---------------------------------|---------------------------------|----------------------------------|-------------------------|--------------------------------|----------------------------|---------------------------------------|---------------------------------------|--|---------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 3 of 4, continued)

| Uniform Moment Factor (m Major) | Uniform Moment Factor (m Minor) | Eqv. Uniform Moment factor (mLT) | Yield stress, F_y MPa | Compressive Capacity, P_c kN | Tensile Capacity, P_t kN | Major Bending Capacity, M_{c3} kN-m | Minor Bending Capacity, M_{c2} kN-m | Buckling Resistance Moment, M_b kN-m | Major Shear Capacity, P_v2 kN |
|---------------------------------|---------------------------------|----------------------------------|-------------------------|--------------------------------|----------------------------|---------------------------------------|---------------------------------------|--|---------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 3 of 4, continued)

| Uniform Moment Factor (m Major) | Uniform Moment Factor (m Minor) | Eqv. Uniform Moment factor (mLT) | Yield stress, F_y MPa | Compressive Capacity, P_c kN | Tensile Capacity, P_t kN | Major Bending Capacity, M_{c3} kN-m | Minor Bending Capacity, M_{c2} kN-m | Buckling Resistance Moment, M_b kN-m | Major Shear Capacity, P_v2 kN |
|---------------------------------|---------------------------------|----------------------------------|-------------------------|--------------------------------|----------------------------|---------------------------------------|---------------------------------------|--|---------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 3 of 4, continued)

| Uniform Moment Factor (m Major) | Uniform Moment Factor (m Minor) | Eqv. Uniform Moment factor (mLT) | Yield stress, F_y MPa | Compressive Capacity, P_c kN | Tensile Capacity, P_t kN | Major Bending Capacity, M_{c3} kN-m | Minor Bending Capacity, M_{c2} kN-m | Buckling Resistance Moment, M_b kN-m | Major Shear Capacity, P_v2 kN |
|---------------------------------|---------------------------------|----------------------------------|-------------------------|--------------------------------|----------------------------|---------------------------------------|---------------------------------------|--|---------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 3 of 4, continued)

| Uniform Moment Factor (m Major) | Uniform Moment Factor (m Minor) | Eqv. Uniform Moment factor (mLT) | Yield stress, F_y MPa | Compressive Capacity, P_c kN | Tensile Capacity, P_t kN | Major Bending Capacity, M_{c3} kN-m | Minor Bending Capacity, M_{c2} kN-m | Buckling Resistance Moment, M_b kN-m | Major Shear Capacity, P_v2 kN |
|---------------------------------|---------------------------------|----------------------------------|-------------------------|--------------------------------|----------------------------|---------------------------------------|---------------------------------------|--|---------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 3 of 4, continued)

| Uniform Moment Factor (m Major) | Uniform Moment Factor (m Minor) | Eqv. Uniform Moment factor (mLT) | Yield stress, Fy MPa | Compressive Capacity, Pc kN | Tensile Capacity, Pt kN | Major Bending Capacity, Mc3 kN-m | Minor Bending Capacity, Mc2 kN-m | Buckling Resistance Moment, Mb kN-m | Major Shear Capacity, Pv2 kN |
|---------------------------------|---------------------------------|----------------------------------|----------------------|-----------------------------|-------------------------|----------------------------------|----------------------------------|-------------------------------------|------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
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| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 3 of 4, continued)

| Uniform Moment Factor (m Major) | Uniform Moment Factor (m Minor) | Eqv. Uniform Moment factor (mLT) | Yield stress, Fy MPa | Compressive Capacity, Pc kN | Tensile Capacity, Pt kN | Major Bending Capacity, Mc3 kN-m | Minor Bending Capacity, Mc2 kN-m | Buckling Resistance Moment, Mb kN-m | Major Shear Capacity, Pv2 kN |
|---------------------------------|---------------------------------|----------------------------------|----------------------|-----------------------------|-------------------------|----------------------------------|----------------------------------|-------------------------------------|------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 3 of 4, continued)

| Uniform Moment Factor (m Major) | Uniform Moment Factor (m Minor) | Eqv. Uniform Moment factor (mLT) | Yield stress, Fy MPa | Compressive Capacity, Pc kN | Tensile Capacity, Pt kN | Major Bending Capacity, Mc3 kN-m | Minor Bending Capacity, Mc2 kN-m | Buckling Resistance Moment, Mb kN-m | Major Shear Capacity, Pv2 kN |
|--|--|---|-----------------------------|------------------------------------|--------------------------------|---|---|--|-------------------------------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 3 of 4, continued)

| Uniform Moment Factor (m Major) | Uniform Moment Factor (m Minor) | Eqv. Uniform Moment factor (mLT) | Yield stress, Fy MPa | Compressive Capacity, Pc kN | Tensile Capacity, Pt kN | Major Bending Capacity, Mc3 kN-m | Minor Bending Capacity, Mc2 kN-m | Buckling Resistance Moment, Mb kN-m | Major Shear Capacity, Pv2 kN |
|---|---|--|-------------------------------|-----------------------------------|----------------------------------|--|--|---|--|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.2 - Steel Frame Design Overwrites - BS 5950-2000 (Part 4 of 4, continued)

| D/C Ratio Limit |
|-----------------|
| 0 |
| 0 |
| 0 |
| 0 |
| 0 |
| 0 |
| 0 |
| 0 |

Table 6.3 - Steel Column Envelope - BS 5950-2000 (Part 1 of 2)

| UniqueName | Story | Label | Section | Moment Interaction Check | PMM Combo | V22 Ratio | V33 Ratio |
|------------|--------|-------|---------------|-----------------------------------|-----------|-----------|-----------|
| 80 | Story2 | C15 | RHS 40*40,3MM | 0.585 = 0.056 + 0 + 0.528 | DStIS2 | 0 | 0.032 |
| 148 | Story2 | C77 | RHS 40*40,3MM | 0.11 = 0.049 + 0.011 + 0.049 | DStIS2 | 0.001 | 0 |
| 151 | Story2 | C80 | RHS 40*40,3MM | 0.067 = 0.042 + 0.009 + 0.015 | DStIS3 | 0.001 | 0.003 |
| 154 | Story2 | C83 | RHS 40*40,3MM | 0.069 = 0.028 + 0.009 + 0.032 | DStIS2 | 0.002 | 0.002 |
| 157 | Story2 | C86 | RHS 40*40,3MM | 0.084 = 0.017 + 0.009 + 0.058 | DStIS2 | 0.003 | 0.003 |
| 160 | Story2 | C89 | RHS 40*40,3MM | 0.127 = 0 + 0.024 + 0.103 | DStIS2 | 0.016 | 0.004 |
| 163 | Story2 | C92 | RHS 40*40,3MM | 0.409 = 0.022 + 0.206 + 0.181 | DStIS2 | 0.134 | 0.003 |
| 166 | Story2 | C95 | RHS 40*40,3MM | 0.109 = 0.049 + 0.011 + 0.049 | DStIS2 | 0.001 | 0 |
| 169 | Story2 | C98 | RHS 40*40,3MM | 0.065 = 0.039 + 0.008 + 0.018 | DStIS2 | 0.001 | 0.003 |
| 172 | Story2 | C101 | RHS 40*40,3MM | 0.069 = 0.028 + 0.009 + 0.032 | DStIS2 | 0.002 | 0.002 |
| 175 | Story2 | C104 | RHS 40*40,3MM | 0.084 = 0.017 + 0.009 + 0.058 | DStIS2 | 0.002 | 0.003 |
| 178 | Story2 | C107 | RHS 40*40,3MM | 0.124 = 0 + 0.021 + 0.103 | DStIS2 | 0.016 | 0.004 |
| 181 | Story2 | C110 | RHS 40*40,3MM | 0.422 = 0.023 + 0.218 + 0.181 | DStIS2 | 0.143 | 0.003 |
| 102 | Story2 | C112 | RHS 40*40,3MM | 0.269 = 0.165 + 0 + 0.103 | DStIS2 | 0.0001335 | 0.006 |
| 103 | Story2 | C113 | RHS 40*40,3MM | 0.174 = 0.128 + 0.03 + 0.016 | DStIS3 | 0.004 | 0.001 |
| 104 | Story2 | C114 | RHS 40*40,3MM | 0.136 = 0.102 + 0.03 + 0.003 | DStIS3 | 0.004 | 0.0003914 |
| 105 | Story2 | C115 | RHS 40*40,3MM | 0.121 = 0.075 + 0.045 + 0.002 | DStIS3 | 0.008 | 0.0004195 |
| 106 | Story2 | C116 | RHS 40*40,3MM | 0.121 = 0.047 + 0.067 + 0.008 | DStIS3 | 0.016 | 0.001 |
| 107 | Story2 | C117 | RHS 40*40,3MM | 0.246 = 0.013 + 0.221 + 0.012 | DStIS3 | 0.075 | 0.001 |
| 108 | Story2 | C118 | RHS 40*40,3MM | 0.184 = 0.029 + 0.131 + 0.024 | DStIS10 | 0.078 | 0.0004263 |
| 109 | Story2 | C119 | RHS 40*40,3MM | 0.172 = 0.124 + 0.029 + 0.019 | DStIS2 | 0.004 | 0.001 |
| 110 | Story2 | C120 | RHS 40*40,3MM | 0.131 = 0.099 + 0.028 + 0.004 | DStIS2 | 0.004 | 0.000389 |
| 111 | Story2 | C121 | RHS 40*40,3MM | 0.116 = 0.072 + 0.042 + 0.002 | DStIS2 | 0.007 | 0.0004188 |
| 112 | Story2 | C122 | RHS 40*40,3MM | 0.116 = 0.045 + 0.062 + 0.009 | DStIS2 | 0.015 | 0.001 |
| 113 | Story2 | C123 | RHS 40*40,3MM | 0.237 = 0.013 + 0.209 + 0.015 | DStIS2 | 0.071 | 0.001 |
| 114 | Story2 | C124 | RHS 40*40,3MM | 0.166 = 0.029 + 0.114 + 0.023 | DStIS9 | 0.068 | 0.0004259 |
| 156 | Story2 | C125 | RHS 40*40,3MM | 0.199 = 0.183 + 0 + 0.016 | DStIS2 | 0.0001373 | 0.001 |
| 158 | Story2 | C126 | RHS 40*40,3MM | 0.153 = 0.116 + 0.035 + 0.002 | DStIS3 | 0.004 | 0.0001418 |
| 159 | Story2 | C127 | RHS 40*40,3MM | 0.125 = 0.092 + 0.032 + 4.925E-04 | DStIS3 | 0.005 | 0.0002255 |
| 161 | Story2 | C128 | RHS 40*40,3MM | 0.115 = 0.066 + 0.048 + 0.001 | DStIS3 | 0.009 | 0.0003242 |
| 162 | Story2 | C129 | RHS 40*40,3MM | 0.121 = 0.04 + 0.078 + 0.003 | DStIS3 | 0.018 | 0.0004492 |
| 164 | Story2 | C130 | RHS 40*40,3MM | 0.186 = 0.01 + 0.172 + 0.005 | DStIS9 | 0.059 | 0.0004496 |
| 165 | Story2 | C131 | RHS 40*40,3MM | 0.433 = 0.041 + 0.388 + 0.005 | DStIS10 | 0.239 | 0.0003949 |
| 167 | Story2 | C132 | RHS 40*40,3MM | 0.145 = 0.109 + 0.032 + 0.004 | DStIS2 | 0.004 | 0.0001397 |
| 168 | Story2 | C133 | RHS 40*40,3MM | 0.117 = 0.086 + 0.03 + 0.001 | DStIS2 | 0.004 | 0.0002255 |
| 170 | Story2 | C134 | RHS 40*40,3MM | 0.107 = 0.062 + 0.044 + 0.001 | DStIS2 | 0.008 | 0.0003264 |

Table 6.3 - Steel Column Envelope - BS 5950-2000 (Part 1 of 2, continued)

| UniqueName | Story | Label | Section | Moment Interaction Check | PMM Combo | V22 Ratio | V33 Ratio |
|------------|--------|-------|---------------|-----------------------------------|-----------|-----------|-----------|
| 171 | Story2 | C135 | RHS 40*40,3MM | 0.113 = 0.037 + 0.073 + 0.003 | DStIS2 | 0.017 | 0.0004485 |
| 173 | Story2 | C136 | RHS 40*40,3MM | 0.167 = 0.009 + 0.154 + 0.004 | DStIS10 | 0.053 | 0.0004523 |
| 174 | Story2 | C137 | RHS 40*40,3MM | 0.383 = 0.038 + 0.34 + 0.005 | DStIS9 | 0.209 | 0.0003897 |
| 226 | Story2 | C138 | RHS 40*40,3MM | 0.19 = 0.187 + 0.001 + 0.002 | DStIS3 | 0.0001365 | 0.0003898 |
| 227 | Story2 | C139 | RHS 40*40,3MM | 0.155 = 0.119 + 0.036 + 1.597E-04 | DStIS3 | 0.004 | 0.0001216 |
| 228 | Story2 | C140 | RHS 40*40,3MM | 0.127 = 0.094 + 0.033 + 0 | DStIS3 | 0.005 | 0 |
| 229 | Story2 | C141 | RHS 40*40,3MM | 0.117 = 0.068 + 0.049 + 0 | DStIS3 | 0.009 | 0.0001252 |
| 230 | Story2 | C142 | RHS 40*40,3MM | 0.119 = 0.041 + 0.078 + 1.403E-04 | DStIS3 | 0.018 | 0.0001069 |
| 231 | Story2 | C143 | RHS 40*40,3MM | 0.195 = 0.011 + 0.184 + 0 | DStIS9 | 0.063 | 0.0001871 |
| 232 | Story2 | C144 | RHS 40*40,3MM | 0.365 = 0.038 + 0.327 + 0.001 | DStIS10 | 0.201 | 0.0001621 |
| 233 | Story2 | C145 | RHS 40*40,3MM | 0.147 = 0.113 + 0.032 + 0.002 | DStIS2 | 0.004 | 0.0001212 |
| 234 | Story2 | C146 | RHS 40*40,3MM | 0.12 = 0.089 + 0.031 + 0 | DStIS2 | 0.004 | 0 |
| 235 | Story2 | C147 | RHS 40*40,3MM | 0.11 = 0.064 + 0.045 + 0 | DStIS2 | 0.008 | 0.0001248 |
| 236 | Story2 | C148 | RHS 40*40,3MM | 0.112 = 0.039 + 0.073 + 2.466E-04 | DStIS2 | 0.017 | 0.0001069 |
| 237 | Story2 | C149 | RHS 40*40,3MM | 0.177 = 0.01 + 0.167 + 0 | DStIS10 | 0.057 | 0.0001855 |
| 238 | Story2 | C150 | RHS 40*40,3MM | 0.318 = 0.035 + 0.282 + 4.618E-04 | DStIS9 | 0.173 | 0.0001617 |
| 285 | Story2 | C151 | RHS 40*40,3MM | 0.2 = 0.199 + 0.001 + 0 | DStIS3 | 0.0001372 | 0.0003238 |
| 286 | Story2 | C152 | RHS 40*40,3MM | 0.155 = 0.118 + 0.037 + 0 | DStIS3 | 0.005 | 0 |
| 287 | Story2 | C153 | RHS 40*40,3MM | 0.127 = 0.093 + 0.034 + 0 | DStIS3 | 0.005 | 0 |
| 288 | Story2 | C154 | RHS 40*40,3MM | 0.117 = 0.067 + 0.05 + 0 | DStIS3 | 0.009 | 0 |
| 289 | Story2 | C155 | RHS 40*40,3MM | 0.123 = 0.039 + 0.084 + 0 | DStIS3 | 0.02 | 0 |
| 290 | Story2 | C156 | RHS 40*40,3MM | 0.177 = 0.009 + 0.168 + 0 | DStIS9 | 0.058 | 0.0001175 |
| 291 | Story2 | C157 | RHS 40*40,3MM | 0.494 = 0.044 + 0.45 + 0 | DStIS10 | 0.278 | 0.0001644 |
| 292 | Story2 | C158 | RHS 40*40,3MM | 0.146 = 0.111 + 0.035 + 0 | DStIS2 | 0.004 | 0 |
| 293 | Story2 | C159 | RHS 40*40,3MM | 0.12 = 0.088 + 0.032 + 0 | DStIS2 | 0.005 | 0 |
| 294 | Story2 | C160 | RHS 40*40,3MM | 0.11 = 0.063 + 0.047 + 0 | DStIS2 | 0.008 | 0 |
| 295 | Story2 | C161 | RHS 40*40,3MM | 0.116 = 0.037 + 0.079 + 0 | DStIS2 | 0.019 | 0 |
| 296 | Story2 | C162 | RHS 40*40,3MM | 0.156 = 0.008 + 0.148 + 0 | DStIS10 | 0.051 | 0.0001177 |
| 297 | Story2 | C163 | RHS 40*40,3MM | 0.432 = 0.041 + 0.391 + 0 | DStIS9 | 0.241 | 0.0001643 |
| 336 | Story2 | C164 | RHS 40*40,3MM | 0.19 = 0.187 + 0.001 + 0.002 | DStIS3 | 0.0001364 | 0.0003868 |
| 337 | Story2 | C165 | RHS 40*40,3MM | 0.155 = 0.119 + 0.036 + 1.597E-04 | DStIS3 | 0.004 | 0.0001201 |
| 338 | Story2 | C166 | RHS 40*40,3MM | 0.127 = 0.094 + 0.033 + 0 | DStIS3 | 0.005 | 0 |
| 339 | Story2 | C167 | RHS 40*40,3MM | 0.117 = 0.068 + 0.049 + 0 | DStIS3 | 0.009 | 0.0001219 |
| 340 | Story2 | C168 | RHS 40*40,3MM | 0.119 = 0.041 + 0.078 + 1.298E-04 | DStIS3 | 0.018 | 0.0001056 |
| 341 | Story2 | C169 | RHS 40*40,3MM | 0.194 = 0.011 + 0.183 + 0 | DStIS9 | 0.063 | 0.0001795 |
| 342 | Story2 | C170 | RHS 40*40,3MM | 0.363 = 0.038 + 0.325 + 0.001 | DStIS10 | 0.2 | 0.0001574 |
| 343 | Story2 | C171 | RHS 40*40,3MM | 0.147 = 0.113 + 0.032 + 0.002 | DStIS2 | 0.004 | 0.0001204 |
| 344 | Story2 | C172 | RHS 40*40,3MM | 0.12 = 0.089 + 0.031 + 0 | DStIS2 | 0.004 | 0 |
| 345 | Story2 | C173 | RHS 40*40,3MM | 0.11 = 0.064 + 0.045 + 0 | DStIS2 | 0.008 | 0.0001225 |
| 346 | Story2 | C174 | RHS 40*40,3MM | 0.112 = 0.039 + 0.073 + 2.481E-04 | DStIS2 | 0.017 | 0.0001046 |
| 347 | Story2 | C175 | RHS 40*40,3MM | 0.176 = 0.01 + 0.167 + 0 | DStIS10 | 0.057 | 0.00018 |
| 348 | Story2 | C176 | RHS 40*40,3MM | 0.316 = 0.035 + 0.28 + 0.001 | DStIS9 | 0.171 | 0.0001582 |
| 387 | Story2 | C177 | RHS 40*40,3MM | 0.199 = 0.183 + 0 + 0.016 | DStIS2 | 0.0001371 | 0.001 |
| 388 | Story2 | C178 | RHS 40*40,3MM | 0.153 = 0.116 + 0.035 + 0.002 | DStIS3 | 0.004 | 0.0001395 |
| 389 | Story2 | C179 | RHS 40*40,3MM | 0.125 = 0.092 + 0.032 + 4.961E-04 | DStIS3 | 0.005 | 0.000223 |
| 390 | Story2 | C180 | RHS 40*40,3MM | 0.115 = 0.066 + 0.048 + 0.001 | DStIS3 | 0.009 | 0.0003215 |
| 391 | Story2 | C181 | RHS 40*40,3MM | 0.121 = 0.04 + 0.078 + 0.003 | DStIS3 | 0.018 | 0.0004436 |
| 392 | Story2 | C182 | RHS 40*40,3MM | 0.184 = 0.01 + 0.17 + 0.005 | DStIS9 | 0.058 | 0.000441 |
| 393 | Story2 | C183 | RHS 40*40,3MM | 0.429 = 0.04 + 0.384 + 0.005 | DStIS10 | 0.237 | 0.0003852 |

Table 6.3 - Steel Column Envelope - BS 5950-2000 (Part 1 of 2, continued)

| UniqueName | Story | Label | Section | Moment Interaction Check | PMM Combo | V22 Ratio | V33 Ratio |
|------------|--------|-------|---------------|-------------------------------|-----------|-----------|-----------|
| 394 | Story2 | C184 | RHS 40*40,3MM | 0.145 = 0.109 + 0.032 + 0.004 | DStIS2 | 0.004 | 0.0001381 |
| 395 | Story2 | C185 | RHS 40*40,3MM | 0.117 = 0.086 + 0.03 + 0.001 | DStIS2 | 0.004 | 0.0002247 |
| 396 | Story2 | C186 | RHS 40*40,3MM | 0.107 = 0.062 + 0.044 + 0.001 | DStIS2 | 0.008 | 0.0003227 |
| 397 | Story2 | C187 | RHS 40*40,3MM | 0.113 = 0.037 + 0.073 + 0.003 | DStIS2 | 0.017 | 0.0004443 |
| 398 | Story2 | C188 | RHS 40*40,3MM | 0.165 = 0.008 + 0.152 + 0.004 | DStIS10 | 0.053 | 0.0004419 |
| 399 | Story2 | C189 | RHS 40*40,3MM | 0.378 = 0.038 + 0.335 + 0.005 | DStIS9 | 0.206 | 0.0003834 |
| 438 | Story2 | C190 | RHS 40*40,3MM | 0.269 = 0.165 + 0 + 0.103 | DStIS2 | 0.0001332 | 0.006 |
| 439 | Story2 | C191 | RHS 40*40,3MM | 0.174 = 0.128 + 0.03 + 0.016 | DStIS3 | 0.004 | 0.001 |
| 440 | Story2 | C192 | RHS 40*40,3MM | 0.136 = 0.102 + 0.03 + 0.003 | DStIS3 | 0.004 | 0.0003906 |
| 441 | Story2 | C193 | RHS 40*40,3MM | 0.121 = 0.075 + 0.045 + 0.002 | DStIS3 | 0.008 | 0.000415 |
| 442 | Story2 | C194 | RHS 40*40,3MM | 0.121 = 0.047 + 0.067 + 0.008 | DStIS3 | 0.016 | 0.001 |
| 443 | Story2 | C195 | RHS 40*40,3MM | 0.245 = 0.013 + 0.22 + 0.012 | DStIS3 | 0.075 | 0.001 |
| 444 | Story2 | C196 | RHS 40*40,3MM | 0.177 = 0.029 + 0.124 + 0.024 | DStIS10 | 0.074 | 0.0004065 |
| 445 | Story2 | C197 | RHS 40*40,3MM | 0.172 = 0.124 + 0.029 + 0.019 | DStIS2 | 0.004 | 0.001 |
| 446 | Story2 | C198 | RHS 40*40,3MM | 0.131 = 0.099 + 0.028 + 0.004 | DStIS2 | 0.004 | 0.0003892 |
| 447 | Story2 | C199 | RHS 40*40,3MM | 0.116 = 0.072 + 0.042 + 0.002 | DStIS2 | 0.007 | 0.0004131 |
| 448 | Story2 | C200 | RHS 40*40,3MM | 0.116 = 0.045 + 0.062 + 0.009 | DStIS2 | 0.015 | 0.001 |
| 449 | Story2 | C201 | RHS 40*40,3MM | 0.238 = 0.013 + 0.21 + 0.015 | DStIS2 | 0.071 | 0.001 |
| 450 | Story2 | C202 | RHS 40*40,3MM | 0.158 = 0.028 + 0.106 + 0.023 | DStIS9 | 0.063 | 0.0004077 |
| 489 | Story2 | C203 | RHS 40*40,3MM | 0.585 = 0.056 + 0 + 0.528 | DStIS2 | 0 | 0.032 |
| 490 | Story2 | C204 | RHS 40*40,3MM | 0.11 = 0.049 + 0.011 + 0.049 | DStIS2 | 0.001 | 0 |
| 491 | Story2 | C205 | RHS 40*40,3MM | 0.067 = 0.042 + 0.009 + 0.015 | DStIS3 | 0.001 | 0.003 |
| 492 | Story2 | C206 | RHS 40*40,3MM | 0.069 = 0.028 + 0.009 + 0.032 | DStIS2 | 0.002 | 0.002 |
| 493 | Story2 | C207 | RHS 40*40,3MM | 0.084 = 0.017 + 0.009 + 0.058 | DStIS2 | 0.003 | 0.003 |
| 494 | Story2 | C208 | RHS 40*40,3MM | 0.126 = 0 + 0.024 + 0.103 | DStIS2 | 0.015 | 0.004 |
| 495 | Story2 | C209 | RHS 40*40,3MM | 0.411 = 0.022 + 0.207 + 0.181 | DStIS2 | 0.133 | 0.003 |
| 496 | Story2 | C210 | RHS 40*40,3MM | 0.109 = 0.049 + 0.011 + 0.049 | DStIS2 | 0.001 | 0 |
| 497 | Story2 | C211 | RHS 40*40,3MM | 0.065 = 0.039 + 0.008 + 0.018 | DStIS2 | 0.001 | 0.003 |
| 498 | Story2 | C212 | RHS 40*40,3MM | 0.069 = 0.028 + 0.009 + 0.032 | DStIS2 | 0.002 | 0.002 |
| 499 | Story2 | C213 | RHS 40*40,3MM | 0.084 = 0.017 + 0.009 + 0.058 | DStIS2 | 0.002 | 0.003 |
| 500 | Story2 | C214 | RHS 40*40,3MM | 0.124 = 0 + 0.022 + 0.103 | DStIS2 | 0.014 | 0.004 |
| 501 | Story2 | C215 | RHS 40*40,3MM | 0.421 = 0.023 + 0.217 + 0.181 | DStIS2 | 0.136 | 0.003 |

Table 6.3 - Steel Column Envelope - BS 5950-2000 (Part 2 of 2)

| UniqueName | Section Class | Cont. Plate cm2 | DbL. Plate mm | B/C Ratio Major | B/C Ratio Minor |
|------------|---------------|-----------------|---------------|-----------------|-----------------|
| 80 | Class 1 | | | | |
| 148 | Class 1 | | | | |
| 151 | Class 1 | | | | |
| 154 | Class 1 | | | | |
| 157 | Class 1 | | | | |
| 160 | Class 1 | | | | |
| 163 | Class 1 | | | | |
| 166 | Class 1 | | | | |
| 169 | Class 1 | | | | |
| 172 | Class 1 | | | | |
| 175 | Class 1 | | | | |
| 178 | Class 1 | | | | |

Table 6.3 - Steel Column Envelope - BS 5950-2000 (Part 2 of 2, continued)

| UniqueName | Section Class | Cont. Plate cm2 | DbL. Plate mm | B/C Ratio Major | B/C Ratio Minor |
|------------|---------------|-----------------|---------------|-----------------|-----------------|
| 181 | Class 1 | | | | |
| 102 | Class 1 | | | | |
| 103 | Class 1 | | | | |
| 104 | Class 1 | | | | |
| 105 | Class 1 | | | | |
| 106 | Class 1 | | | | |
| 107 | Class 1 | | | | |
| 108 | Class 1 | | | 0 | 0 |
| 109 | Class 1 | | | | |
| 110 | Class 1 | | | | |
| 111 | Class 1 | | | | |
| 112 | Class 1 | | | | |
| 113 | Class 1 | | | | |
| 114 | Class 1 | | | 0 | 0 |
| 156 | Class 1 | | | | |
| 158 | Class 1 | | | | |
| 159 | Class 1 | | | | |
| 161 | Class 1 | | | | |
| 162 | Class 1 | | | | |
| 164 | Class 1 | | | 0 | 0 |
| 165 | Class 1 | | | 0 | 0 |
| 167 | Class 1 | | | | |
| 168 | Class 1 | | | | |
| 170 | Class 1 | | | | |
| 171 | Class 1 | | | | |
| 173 | Class 1 | | | 0 | 0 |
| 174 | Class 1 | | | 0 | 0 |
| 226 | Class 1 | | | | |
| 227 | Class 1 | | | | |
| 228 | Class 1 | | | | |
| 229 | Class 1 | | | | |
| 230 | Class 1 | | | | |
| 231 | Class 1 | | | 0 | 0 |
| 232 | Class 1 | | | 0 | 0 |
| 233 | Class 1 | | | | |
| 234 | Class 1 | | | | |
| 235 | Class 1 | | | | |
| 236 | Class 1 | | | | |
| 237 | Class 1 | | | 0 | 0 |
| 238 | Class 1 | | | 0 | 0 |
| 285 | Class 1 | | | | |
| 286 | Class 1 | | | | |
| 287 | Class 1 | | | | |
| 288 | Class 1 | | | | |
| 289 | Class 1 | | | | |
| 290 | Class 1 | | | 0 | 0 |
| 291 | Class 1 | | | 0 | 0 |
| 292 | Class 1 | | | | |

Table 6.3 - Steel Column Envelope - BS 5950-2000 (Part 2 of 2, continued)

| UniqueName | Section Class | Cont. Plate cm2 | DbI. Plate mm | B/C Ratio Major | B/C Ratio Minor |
|------------|---------------|-----------------|---------------|-----------------|-----------------|
| 293 | Class 1 | | | | |
| 294 | Class 1 | | | | |
| 295 | Class 1 | | | | |
| 296 | Class 1 | | | 0 | 0 |
| 297 | Class 1 | | | 0 | 0 |
| 336 | Class 1 | | | | |
| 337 | Class 1 | | | | |
| 338 | Class 1 | | | | |
| 339 | Class 1 | | | | |
| 340 | Class 1 | | | | |
| 341 | Class 1 | | | 0 | 0 |
| 342 | Class 1 | | | 0 | 0 |
| 343 | Class 1 | | | | |
| 344 | Class 1 | | | | |
| 345 | Class 1 | | | | |
| 346 | Class 1 | | | | |
| 347 | Class 1 | | | 0 | 0 |
| 348 | Class 1 | | | 0 | 0 |
| 387 | Class 1 | | | | |
| 388 | Class 1 | | | | |
| 389 | Class 1 | | | | |
| 390 | Class 1 | | | | |
| 391 | Class 1 | | | | |
| 392 | Class 1 | | | 0 | 0 |
| 393 | Class 1 | | | 0 | 0 |
| 394 | Class 1 | | | | |
| 395 | Class 1 | | | | |
| 396 | Class 1 | | | | |
| 397 | Class 1 | | | | |
| 398 | Class 1 | | | 0 | 0 |
| 399 | Class 1 | | | 0 | 0 |
| 438 | Class 1 | | | | |
| 439 | Class 1 | | | | |
| 440 | Class 1 | | | | |
| 441 | Class 1 | | | | |
| 442 | Class 1 | | | | |
| 443 | Class 1 | | | | |
| 444 | Class 1 | | | 0 | 0 |
| 445 | Class 1 | | | | |
| 446 | Class 1 | | | | |
| 447 | Class 1 | | | | |
| 448 | Class 1 | | | | |
| 449 | Class 1 | | | | |
| 450 | Class 1 | | | 0 | 0 |
| 489 | Class 1 | | | | |
| 490 | Class 1 | | | | |
| 491 | Class 1 | | | | |
| 492 | Class 1 | | | | |

Table 6.3 - Steel Column Envelope - BS 5950-2000 (Part 2 of 2, continued)

| UniqueName | Section Class | Cont. Plate cm2 | DbL. Plate mm | B/C Ratio Major | B/C Ratio Minor |
|------------|---------------|-----------------|---------------|-----------------|-----------------|
| 493 | Class 1 | | | | |
| 494 | Class 1 | | | | |
| 495 | Class 1 | | | | |
| 496 | Class 1 | | | | |
| 497 | Class 1 | | | | |
| 498 | Class 1 | | | | |
| 499 | Class 1 | | | | |
| 500 | Class 1 | | | | |
| 501 | Class 1 | | | | |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 1 of 2)

| UniqueName | Story | Label | Section | Moment Interaction Check | PMM Combo | V22 Ratio | V33 Ratio |
|------------|--------|-------|---------------|-------------------------------|-----------|-----------|-----------|
| 184 | Story2 | B56 | RHS 40*40,3MM | 0.088 = 0.065 + 0.008 + 0.015 | DStIS3 | 0.001 | 0.002 |
| 185 | Story2 | B57 | RHS 40*40,3MM | 0.102 = 0.079 + 0.003 + 0.02 | DStIS3 | 0.001 | 0.001 |
| 192 | Story2 | B58 | RHS 40*40,3MM | 0.099 = 0.072 + 0.003 + 0.024 | DStIS2 | 0.001 | 0.001 |
| 194 | Story2 | B60 | RHS 40*40,3MM | 0.083 = 0.059 + 0.006 + 0.018 | DStIS2 | 0.001 | 0.002 |
| 115 | Story2 | B226 | RHS 40*40,3MM | 0.182 = 0.165 + 0.016 + 0.001 | DStIS3 | 0.002 | 0.000416 |
| 116 | Story2 | B227 | RHS 40*40,3MM | 0.208 = 0.194 + 0.009 + 0.005 | DStIS3 | 0.001 | 0.0002527 |
| 123 | Story2 | B228 | RHS 40*40,3MM | 0.2 = 0.186 + 0.008 + 0.006 | DStIS2 | 0.001 | 0.0002456 |
| 124 | Story2 | B229 | RHS 40*40,3MM | 0.175 = 0.159 + 0.014 + 0.002 | DStIS2 | 0.002 | 0.0004147 |
| 176 | Story2 | B248 | RHS 40*40,3MM | 0.169 = 0.135 + 0.031 + 0.003 | DStIS3 | 0.003 | 0.0004514 |
| 177 | Story2 | B249 | RHS 40*40,3MM | 0.185 = 0.172 + 0.011 + 0.002 | DStIS3 | 0.001 | 0.0003691 |
| 196 | Story2 | B250 | RHS 40*40,3MM | 0.172 = 0.161 + 0.01 + 0.001 | DStIS2 | 0.001 | 0.0003667 |
| 197 | Story2 | B251 | RHS 40*40,3MM | 0.158 = 0.125 + 0.029 + 0.003 | DStIS2 | 0.003 | 0.0004552 |
| 239 | Story2 | B270 | RHS 40*40,3MM | 0.172 = 0.142 + 0.029 + 0.001 | DStIS3 | 0.003 | 0.0002571 |
| 240 | Story2 | B271 | RHS 40*40,3MM | 0.189 = 0.177 + 0.012 + 0.001 | DStIS3 | 0.001 | 0.0001899 |
| 247 | Story2 | B272 | RHS 40*40,3MM | 0.177 = 0.166 + 0.011 + 0.001 | DStIS2 | 0.001 | 0.0001906 |
| 248 | Story2 | B273 | RHS 40*40,3MM | 0.161 = 0.133 + 0.027 + 0.001 | DStIS2 | 0.003 | 0.0002549 |
| 298 | Story2 | B292 | RHS 40*40,3MM | 0.169 = 0.132 + 0.037 + 0 | DStIS3 | 0.003 | 0.0001946 |
| 299 | Story2 | B293 | RHS 40*40,3MM | 0.186 = 0.173 + 0.013 + 0 | DStIS3 | 0.001 | 0.000171 |
| 306 | Story2 | B294 | RHS 40*40,3MM | 0.174 = 0.162 + 0.012 + 0 | DStIS2 | 0.001 | 0.0001687 |
| 307 | Story2 | B295 | RHS 40*40,3MM | 0.158 = 0.122 + 0.035 + 0 | DStIS2 | 0.003 | 0.0001926 |
| 349 | Story2 | B314 | RHS 40*40,3MM | 0.172 = 0.142 + 0.029 + 0.001 | DStIS3 | 0.003 | 0.0002488 |
| 350 | Story2 | B315 | RHS 40*40,3MM | 0.189 = 0.177 + 0.012 + 0.001 | DStIS3 | 0.001 | 0.000188 |
| 357 | Story2 | B316 | RHS 40*40,3MM | 0.177 = 0.166 + 0.011 + 0.001 | DStIS2 | 0.001 | 0.0001866 |
| 358 | Story2 | B317 | RHS 40*40,3MM | 0.161 = 0.133 + 0.027 + 0.001 | DStIS2 | 0.003 | 0.0002493 |
| 400 | Story2 | B336 | RHS 40*40,3MM | 0.169 = 0.135 + 0.031 + 0.003 | DStIS3 | 0.003 | 0.0004436 |
| 401 | Story2 | B337 | RHS 40*40,3MM | 0.185 = 0.172 + 0.011 + 0.002 | DStIS3 | 0.001 | 0.0003595 |
| 408 | Story2 | B338 | RHS 40*40,3MM | 0.172 = 0.161 + 0.01 + 0.001 | DStIS2 | 0.001 | 0.0003594 |
| 409 | Story2 | B339 | RHS 40*40,3MM | 0.158 = 0.125 + 0.029 + 0.003 | DStIS2 | 0.003 | 0.0004446 |
| 451 | Story2 | B358 | RHS 40*40,3MM | 0.182 = 0.165 + 0.016 + 0.001 | DStIS3 | 0.002 | 0.0003983 |
| 452 | Story2 | B359 | RHS 40*40,3MM | 0.208 = 0.194 + 0.009 + 0.005 | DStIS3 | 0.001 | 0.0002362 |
| 459 | Story2 | B360 | RHS 40*40,3MM | 0.2 = 0.186 + 0.008 + 0.006 | DStIS2 | 0.001 | 0.0002314 |
| 460 | Story2 | B361 | RHS 40*40,3MM | 0.175 = 0.159 + 0.014 + 0.002 | DStIS2 | 0.002 | 0.0003945 |
| 502 | Story2 | B380 | RHS 40*40,3MM | 0.088 = 0.065 + 0.008 + 0.015 | DStIS3 | 0.001 | 0.002 |
| 503 | Story2 | B381 | RHS 40*40,3MM | 0.102 = 0.079 + 0.003 + 0.02 | DStIS3 | 0.001 | 0.001 |
| 510 | Story2 | B382 | RHS 40*40,3MM | 0.099 = 0.072 + 0.003 + 0.024 | DStIS2 | 0.001 | 0.001 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 1 of 2, continued)

| UniqueName | Story | Label | Section | Moment Interaction Check | PMM Combo | V22 Ratio | V33 Ratio |
|------------|--------|-------|---------------|------------------------------------|-----------|-----------|-----------|
| 511 | Story2 | B383 | RHS 40*40,3MM | $0.083 = 0.059 + 0.006 + 0.018$ | DStIS2 | 0.001 | 0.002 |
| 48 | Story2 | B23 | RHS60*40,3 | $0.479 = 0.258 + 0.219 + 0.002$ | DStIS3 | 0.031 | 0.001 |
| 49 | Story2 | B24 | RHS60*40,3 | $0.265 = 0.184 + 0.076 + 0.005$ | DStIS3 | 0.01 | 0.001 |
| 50 | Story2 | B25 | RHS60*40,3 | $0.149 = 0.128 + 0.02 + 0.001$ | DStIS2 | 0.005 | 0.001 |
| 51 | Story2 | B26 | RHS60*40,3 | $0.098 = 0.081 + 0.015 + 0.001$ | DStIS2 | 0.005 | 0.001 |
| 76 | Story2 | B27 | RHS60*40,3 | $0.068 = 0.045 + 0.018 + 0.004$ | DStIS2 | 0.005 | 0.001 |
| 77 | Story2 | B29 | RHS60*40,3 | $0.04 = 0.019 + 0.018 + 0.003$ | DStIS2 | 0.005 | 0.0001581 |
| 79 | Story2 | B30 | RHS60*40,3 | $0.044 = 0.006 + 0.029 + 0.009$ | DStIS2 | 0.006 | 0.001 |
| 81 | Story2 | B31 | RHS60*40,3 | $0.48 = 0.264 + 0.213 + 0.002$ | DStIS2 | 0.031 | 0.001 |
| 82 | Story2 | B32 | RHS60*40,3 | $0.256 = 0.188 + 0.063 + 0.005$ | DStIS2 | 0.01 | 0.001 |
| 83 | Story2 | B33 | RHS60*40,3 | $0.151 = 0.13 + 0.021 + 0.001$ | DStIS2 | 0.005 | 0.001 |
| 84 | Story2 | B35 | RHS60*40,3 | $0.099 = 0.083 + 0.015 + 0.001$ | DStIS2 | 0.005 | 0.001 |
| 85 | Story2 | B36 | RHS60*40,3 | $0.068 = 0.046 + 0.018 + 0.004$ | DStIS2 | 0.005 | 0.001 |
| 86 | Story2 | B37 | RHS60*40,3 | $0.041 = 0.02 + 0.018 + 0.003$ | DStIS2 | 0.005 | 0.0001696 |
| 87 | Story2 | B38 | RHS60*40,3 | $0.044 = 0.006 + 0.029 + 0.009$ | DStIS2 | 0.006 | 0.001 |
| 88 | Story2 | B39 | RHS60*40,3 | $0.347 = 0.046 + 0.213 + 0.088$ | DStIS3 | 0.029 | 0.009 |
| 89 | Story2 | B41 | RHS60*40,3 | $0.21 = 0.077 + 0.091 + 0.042$ | DStIS3 | 0.008 | 0.006 |
| 90 | Story2 | B42 | RHS60*40,3 | $0.092 = 0.074 + 0.017 + 0.001$ | DStIS3 | 0.001 | 0.001 |
| 91 | Story2 | B43 | RHS60*40,3 | $0.058 = 0.033 + 0.013 + 0.012$ | DStIS3 | 0.001 | 0.0003636 |
| 92 | Story2 | B44 | RHS60*40,3 | $0.067 = 0.024 + 0.005 + 0.038$ | DStIS2 | 0.001 | 0.001 |
| 93 | Story2 | B45 | RHS60*40,3 | $0.14 = 0.081 + 0.002 + 0.057$ | DStIS2 | 0.001 | 0.004 |
| 94 | Story2 | B47 | RHS60*40,3 | $0.196 = 0.139 + 0.005 + 0.051$ | DStIS2 | 0.002 | 0.007 |
| 95 | Story2 | B48 | RHS60*40,3 | $0.341 = 0.03 + 0.206 + 0.105$ | DStIS2 | 0.028 | 0.009 |
| 96 | Story2 | B49 | RHS60*40,3 | $0.191 = 0.061 + 0.08 + 0.05$ | DStIS2 | 0.007 | 0.006 |
| 97 | Story2 | B50 | RHS60*40,3 | $0.078 = 0.059 + 0.005 + 0.015$ | DStIS2 | 0.001 | 0.001 |
| 98 | Story2 | B51 | RHS60*40,3 | $0.047 = 0.022 + 0.011 + 0.014$ | DStIS2 | 0.001 | 0.0003657 |
| 99 | Story2 | B53 | RHS60*40,3 | $0.07 = 0.034 + 0.005 + 0.031$ | DStIS3 | 0.001 | 0.001 |
| 100 | Story2 | B54 | RHS60*40,3 | $0.14 = 0.081 + 0.002 + 0.057$ | DStIS2 | 0.001 | 0.004 |
| 101 | Story2 | B55 | RHS60*40,3 | $0.196 = 0.139 + 0.005 + 0.051$ | DStIS2 | 0.002 | 0.007 |
| 125 | Story2 | B59 | RHS60*40,3 | $0.443 = 0.022 + 0.418 + 0.004$ | DStIS10 | 0.047 | 0.0003453 |
| 126 | Story2 | B61 | RHS60*40,3 | $0.226 = 0.006 + 0.217 + 0.004$ | DStIS3 | 0.029 | 0.001 |
| 127 | Story2 | B63 | RHS60*40,3 | $0.049 = 0.02 + 0.028 + 0.001$ | DStIS3 | 0.011 | 0.001 |
| 128 | Story2 | B64 | RHS60*40,3 | $0.062 = 0.023 + 0.035 + 0.003$ | DStIS2 | 0.011 | 0.001 |
| 129 | Story2 | B65 | RHS60*40,3 | $0.06 = 0.021 + 0.038 + 3.872E-04$ | DStIS2 | 0.011 | 0.000445 |
| 130 | Story2 | B66 | RHS60*40,3 | $0.055 = 0.017 + 0.034 + 0.005$ | DStIS2 | 0.01 | 0.0004087 |
| 131 | Story2 | B67 | RHS60*40,3 | $0.081 = 0.008 + 0.069 + 0.004$ | DStIS2 | 0.013 | 0 |
| 132 | Story2 | B69 | RHS60*40,3 | $0.429 = 0.024 + 0.401 + 0.004$ | DStIS2 | 0.047 | 0.0003505 |
| 133 | Story2 | B70 | RHS60*40,3 | $0.208 = 0.005 + 0.199 + 0.004$ | DStIS2 | 0.029 | 0.001 |
| 134 | Story2 | B71 | RHS60*40,3 | $0.049 = 0.018 + 0.03 + 0.002$ | DStIS2 | 0.011 | 0.001 |
| 135 | Story2 | B72 | RHS60*40,3 | $0.062 = 0.023 + 0.035 + 0.003$ | DStIS2 | 0.011 | 0.001 |
| 136 | Story2 | B73 | RHS60*40,3 | $0.06 = 0.021 + 0.038 + 4.443E-04$ | DStIS2 | 0.011 | 0.0004595 |
| 137 | Story2 | B75 | RHS60*40,3 | $0.055 = 0.017 + 0.034 + 0.005$ | DStIS2 | 0.01 | 0.0004184 |
| 138 | Story2 | B76 | RHS60*40,3 | $0.08 = 0.008 + 0.069 + 0.004$ | DStIS2 | 0.013 | 0 |
| 139 | Story2 | B77 | RHS60*40,3 | $0.669 = 0.267 + 0.391 + 0.012$ | DStIS3 | 0.041 | 0.001 |
| 140 | Story2 | B78 | RHS60*40,3 | $0.541 = 0.278 + 0.254 + 0.009$ | DStIS3 | 0.024 | 0.001 |
| 141 | Story2 | B79 | RHS60*40,3 | $0.29 = 0.261 + 0.029 + 2.48E-04$ | DStIS3 | 0.003 | 0.0004798 |
| 142 | Story2 | B80 | RHS60*40,3 | $0.19 = 0.156 + 0.03 + 0.004$ | DStIS3 | 0.003 | 0.0001738 |
| 143 | Story2 | B81 | RHS60*40,3 | $0.066 = 0.043 + 0.015 + 0.008$ | DStIS3 | 0.002 | 0.0004263 |
| 144 | Story2 | B82 | RHS60*40,3 | $0.13 = 0.109 + 0.009 + 0.012$ | DStIS2 | 0.002 | 0.001 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 1 of 2, continued)

| UniqueName | Story | Label | Section | Moment Interaction Check | PMM Combo | V22 Ratio | V33 Ratio |
|------------|--------|-------|------------|-----------------------------------|-----------|-----------|-----------|
| 145 | Story2 | B83 | RHS60*40,3 | 0.301 = 0.257 + 0.042 + 0.001 | DStIS2 | 0.005 | 0.001 |
| 146 | Story2 | B84 | RHS60*40,3 | 0.635 = 0.244 + 0.375 + 0.016 | DStIS2 | 0.039 | 0.001 |
| 147 | Story2 | B85 | RHS60*40,3 | 0.506 = 0.254 + 0.24 + 0.011 | DStIS2 | 0.023 | 0.001 |
| 149 | Story2 | B86 | RHS60*40,3 | 0.263 = 0.237 + 0.025 + 2.242E-04 | DStIS2 | 0.002 | 0.0004743 |
| 150 | Story2 | B87 | RHS60*40,3 | 0.169 = 0.137 + 0.028 + 0.004 | DStIS2 | 0.003 | 0.0001707 |
| 152 | Story2 | B88 | RHS60*40,3 | 0.052 = 0.028 + 0.014 + 0.01 | DStIS2 | 0.002 | 0.0004271 |
| 153 | Story2 | B89 | RHS60*40,3 | 0.138 = 0.12 + 0.008 + 0.01 | DStIS3 | 0.002 | 0.001 |
| 155 | Story2 | B90 | RHS60*40,3 | 0.304 = 0.262 + 0.041 + 0.001 | DStIS3 | 0.005 | 0.001 |
| 198 | Story2 | B91 | RHS60*40,3 | 0.536 = 0.03 + 0.506 + 1.066E-04 | DStIS10 | 0.059 | 0.0001295 |
| 199 | Story2 | B92 | RHS60*40,3 | 0.184 = 0.017 + 0.166 + 0.001 | DStIS9 | 0.023 | 0.0002663 |
| 200 | Story2 | B93 | RHS60*40,3 | 0.052 = 0.012 + 0.04 + 3.405E-04 | DStIS2 | 0.012 | 0.0004382 |
| 201 | Story2 | B94 | RHS60*40,3 | 0.04 = 0.007 + 0.032 + 0.001 | DStIS2 | 0.011 | 0.0004337 |
| 202 | Story2 | B95 | RHS60*40,3 | 0.044 = 0.004 + 0.036 + 0.004 | DStIS2 | 0.011 | 0.0004434 |
| 203 | Story2 | B96 | RHS60*40,3 | 0.029 = 0.001 + 0.028 + 0 | DStIS2 | 0.01 | 0.0002902 |
| 204 | Story2 | B97 | RHS60*40,3 | 0.077 = 0.003 + 0.07 + 0.004 | DStIS2 | 0.013 | 0.0001293 |
| 205 | Story2 | B98 | RHS60*40,3 | 0.491 = 0.028 + 0.463 + 0 | DStIS9 | 0.058 | 0.0001319 |
| 206 | Story2 | B99 | RHS60*40,3 | 0.168 = 0.017 + 0.149 + 0.001 | DStIS10 | 0.021 | 0.0002675 |
| 207 | Story2 | B100 | RHS60*40,3 | 0.052 = 0.011 + 0.04 + 3.076E-04 | DStIS2 | 0.012 | 0.0004447 |
| 208 | Story2 | B101 | RHS60*40,3 | 0.039 = 0.006 + 0.032 + 0.001 | DStIS2 | 0.011 | 0.000442 |
| 209 | Story2 | B102 | RHS60*40,3 | 0.044 = 0.004 + 0.036 + 0.004 | DStIS2 | 0.011 | 0.0004524 |
| 210 | Story2 | B103 | RHS60*40,3 | 0.029 = 0.001 + 0.028 + 0 | DStIS2 | 0.01 | 0.0003042 |
| 211 | Story2 | B104 | RHS60*40,3 | 0.077 = 0.003 + 0.07 + 0.004 | DStIS2 | 0.013 | 0.000139 |
| 212 | Story2 | B105 | RHS60*40,3 | 0.711 = 0.275 + 0.432 + 0.004 | DStIS3 | 0.054 | 0.0003659 |
| 213 | Story2 | B106 | RHS60*40,3 | 0.518 = 0.317 + 0.196 + 0.005 | DStIS3 | 0.018 | 0.001 |
| 214 | Story2 | B107 | RHS60*40,3 | 0.361 = 0.304 + 0.055 + 0.001 | DStIS3 | 0.005 | 0.0003186 |
| 215 | Story2 | B108 | RHS60*40,3 | 0.249 = 0.218 + 0.031 + 0 | DStIS3 | 0.003 | 0.0001865 |
| 216 | Story2 | B109 | RHS60*40,3 | 0.138 = 0.117 + 0.019 + 0.001 | DStIS3 | 0.002 | 0.0001461 |
| 217 | Story2 | B110 | RHS60*40,3 | 0.026 = 0.011 + 0.012 + 0.003 | DStIS3 | 0.002 | 0.000239 |
| 218 | Story2 | B111 | RHS60*40,3 | 0.166 = 0.126 + 0.039 + 0.001 | DStIS3 | 0.004 | 0.0002443 |
| 219 | Story2 | B112 | RHS60*40,3 | 0.677 = 0.25 + 0.422 + 0.005 | DStIS2 | 0.051 | 0.0003767 |
| 220 | Story2 | B113 | RHS60*40,3 | 0.475 = 0.292 + 0.177 + 0.006 | DStIS2 | 0.016 | 0.001 |
| 221 | Story2 | B114 | RHS60*40,3 | 0.333 = 0.28 + 0.052 + 0.001 | DStIS2 | 0.005 | 0.0003147 |
| 222 | Story2 | B115 | RHS60*40,3 | 0.228 = 0.2 + 0.028 + 2.341E-04 | DStIS2 | 0.003 | 0.000187 |
| 223 | Story2 | B116 | RHS60*40,3 | 0.125 = 0.106 + 0.017 + 0.002 | DStIS2 | 0.002 | 0.000143 |
| 224 | Story2 | B117 | RHS60*40,3 | 0.029 = 0.018 + 0.008 + 0.003 | DStIS4 | 0.002 | 0.0002389 |
| 225 | Story2 | B119 | RHS60*40,3 | 0.177 = 0.138 + 0.038 + 0.001 | DStIS3 | 0.004 | 0.0002452 |
| 249 | Story2 | B120 | RHS60*40,3 | 0.571 = 0.015 + 0.555 + 0.001 | DStIS10 | 0.055 | 0.0001096 |
| 250 | Story2 | B121 | RHS60*40,3 | 0.208 = 0.027 + 0.18 + 4.042E-04 | DStIS3 | 0.025 | 0.0001604 |
| 251 | Story2 | B122 | RHS60*40,3 | 0.058 = 0.02 + 0.039 + 1.437E-04 | DStIS3 | 0.012 | 0.0001694 |
| 252 | Story2 | B123 | RHS60*40,3 | 0.046 = 0.012 + 0.032 + 0.001 | DStIS2 | 0.011 | 0.00021 |
| 253 | Story2 | B125 | RHS60*40,3 | 0.043 = 0.006 + 0.036 + 3.056E-04 | DStIS2 | 0.011 | 0.0001817 |
| 254 | Story2 | B126 | RHS60*40,3 | 0.032 = 0.001 + 0.029 + 0.002 | DStIS2 | 0.01 | 0.0001598 |
| 255 | Story2 | B127 | RHS60*40,3 | 0.078 = 0.006 + 0.071 + 0.001 | DStIS2 | 0.014 | 0 |
| 256 | Story2 | B128 | RHS60*40,3 | 0.525 = 0.018 + 0.507 + 0.001 | DStIS9 | 0.055 | 0.0001093 |
| 257 | Story2 | B129 | RHS60*40,3 | 0.187 = 0.023 + 0.164 + 3.171E-04 | DStIS10 | 0.023 | 0.0001623 |
| 258 | Story2 | B131 | RHS60*40,3 | 0.058 = 0.018 + 0.04 + 1.585E-04 | DStIS2 | 0.012 | 0.0001714 |
| 259 | Story2 | B132 | RHS60*40,3 | 0.046 = 0.012 + 0.032 + 0.001 | DStIS2 | 0.011 | 0.0002135 |
| 260 | Story2 | B133 | RHS60*40,3 | 0.043 = 0.006 + 0.036 + 3.325E-04 | DStIS2 | 0.011 | 0.0001865 |
| 261 | Story2 | B134 | RHS60*40,3 | 0.032 = 0.001 + 0.029 + 0.002 | DStIS2 | 0.01 | 0.0001646 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 1 of 2, continued)

| UniqueName | Story | Label | Section | Moment Interaction Check | PMM Combo | V22 Ratio | V33 Ratio |
|------------|--------|-------|------------|-----------------------------------|-----------|-----------|-----------|
| 262 | Story2 | B135 | RHS60*40,3 | 0.078 = 0.006 + 0.071 + 0.001 | DStIS2 | 0.014 | 0 |
| 263 | Story2 | B137 | RHS60*40,3 | 0.779 = 0.293 + 0.484 + 0.001 | DStIS3 | 0.05 | 0.0001795 |
| 264 | Story2 | B138 | RHS60*40,3 | 0.543 = 0.327 + 0.216 + 2.118E-04 | DStIS3 | 0.02 | 0 |
| 265 | Story2 | B139 | RHS60*40,3 | 0.365 = 0.313 + 0.052 + 1.31E-04 | DStIS3 | 0.004 | 0.0001697 |
| 266 | Story2 | B140 | RHS60*40,3 | 0.255 = 0.222 + 0.032 + 2.845E-04 | DStIS3 | 0.003 | 0.0001554 |
| 267 | Story2 | B141 | RHS60*40,3 | 0.138 = 0.118 + 0.019 + 2.936E-04 | DStIS3 | 0.002 | 0.0001331 |
| 268 | Story2 | B143 | RHS60*40,3 | 0.022 = 0.009 + 0.013 + 4.106E-04 | DStIS3 | 0.002 | 0 |
| 269 | Story2 | B144 | RHS60*40,3 | 0.171 = 0.131 + 0.04 + 3.214E-04 | DStIS3 | 0.005 | 0.000145 |
| 270 | Story2 | B145 | RHS60*40,3 | 0.74 = 0.268 + 0.471 + 0.001 | DStIS2 | 0.047 | 0.0001803 |
| 271 | Story2 | B146 | RHS60*40,3 | 0.499 = 0.301 + 0.198 + 0 | DStIS2 | 0.018 | 0 |
| 272 | Story2 | B147 | RHS60*40,3 | 0.337 = 0.288 + 0.049 + 1.215E-04 | DStIS2 | 0.004 | 0.0001669 |
| 273 | Story2 | B149 | RHS60*40,3 | 0.234 = 0.204 + 0.03 + 3.04E-04 | DStIS2 | 0.003 | 0.0001534 |
| 274 | Story2 | B150 | RHS60*40,3 | 0.124 = 0.106 + 0.018 + 3.66E-04 | DStIS2 | 0.002 | 0.0001326 |
| 283 | Story2 | B151 | RHS60*40,3 | 0.028 = 0.019 + 0.009 + 1.713E-04 | DStIS5 | 0.002 | 0 |
| 284 | Story2 | B152 | RHS60*40,3 | 0.182 = 0.143 + 0.039 + 3.192E-04 | DStIS3 | 0.004 | 0.0001439 |
| 308 | Story2 | B153 | RHS60*40,3 | 0.58 = 0.027 + 0.553 + 0 | DStIS10 | 0.063 | 0 |
| 309 | Story2 | B155 | RHS60*40,3 | 0.19 = 0.025 + 0.165 + 1.153E-04 | DStIS9 | 0.023 | 0 |
| 310 | Story2 | B156 | RHS60*40,3 | 0.069 = 0.023 + 0.046 + 0 | DStIS2 | 0.013 | 0 |
| 311 | Story2 | B157 | RHS60*40,3 | 0.047 = 0.017 + 0.029 + 0 | DStIS3 | 0.011 | 0 |
| 312 | Story2 | B158 | RHS60*40,3 | 0.044 = 0.009 + 0.035 + 0 | DStIS2 | 0.011 | 0 |
| 313 | Story2 | B159 | RHS60*40,3 | 0.028 = 0.002 + 0.026 + 0 | DStIS2 | 0.01 | 0 |
| 314 | Story2 | B232 | RHS60*40,3 | 0.08 = 0.007 + 0.073 + 0 | DStIS2 | 0.014 | 0 |
| 315 | Story2 | B233 | RHS60*40,3 | 0.525 = 0.025 + 0.5 + 0 | DStIS9 | 0.062 | 0 |
| 316 | Story2 | B234 | RHS60*40,3 | 0.171 = 0.025 + 0.146 + 0 | DStIS10 | 0.02 | 0 |
| 317 | Story2 | B235 | RHS60*40,3 | 0.069 = 0.023 + 0.046 + 0 | DStIS2 | 0.013 | 0 |
| 318 | Story2 | B236 | RHS60*40,3 | 0.046 = 0.015 + 0.031 + 0 | DStIS2 | 0.011 | 0 |
| 319 | Story2 | B237 | RHS60*40,3 | 0.044 = 0.009 + 0.035 + 0 | DStIS2 | 0.011 | 0 |
| 320 | Story2 | B238 | RHS60*40,3 | 0.028 = 0.002 + 0.026 + 0 | DStIS2 | 0.01 | 0 |
| 321 | Story2 | B239 | RHS60*40,3 | 0.08 = 0.007 + 0.073 + 0 | DStIS2 | 0.014 | 0 |
| 322 | Story2 | B240 | RHS60*40,3 | 0.767 = 0.298 + 0.47 + 0 | DStIS3 | 0.059 | 0.0001205 |
| 323 | Story2 | B241 | RHS60*40,3 | 0.535 = 0.347 + 0.188 + 0 | DStIS3 | 0.018 | 0 |
| 324 | Story2 | B242 | RHS60*40,3 | 0.401 = 0.335 + 0.066 + 0 | DStIS3 | 0.005 | 0.0001614 |
| 325 | Story2 | B243 | RHS60*40,3 | 0.284 = 0.25 + 0.033 + 0 | DStIS3 | 0.003 | 0.0001215 |
| 326 | Story2 | B244 | RHS60*40,3 | 0.171 = 0.149 + 0.022 + 0 | DStIS3 | 0.002 | 0.0001301 |
| 327 | Story2 | B245 | RHS60*40,3 | 0.056 = 0.042 + 0.014 + 0 | DStIS3 | 0.002 | 0 |
| 328 | Story2 | B247 | RHS60*40,3 | 0.128 = 0.088 + 0.04 + 0 | DStIS3 | 0.005 | 0.0001355 |
| 329 | Story2 | B252 | RHS60*40,3 | 0.733 = 0.274 + 0.459 + 0 | DStIS2 | 0.055 | 0.0001229 |
| 330 | Story2 | B253 | RHS60*40,3 | 0.493 = 0.323 + 0.17 + 0 | DStIS2 | 0.015 | 0 |
| 331 | Story2 | B254 | RHS60*40,3 | 0.375 = 0.312 + 0.062 + 0 | DStIS2 | 0.005 | 0.000159 |
| 332 | Story2 | B255 | RHS60*40,3 | 0.264 = 0.233 + 0.03 + 0 | DStIS2 | 0.003 | 0.0001203 |
| 333 | Story2 | B256 | RHS60*40,3 | 0.158 = 0.138 + 0.02 + 0 | DStIS2 | 0.002 | 0.0001281 |
| 334 | Story2 | B257 | RHS60*40,3 | 0.05 = 0.037 + 0.013 + 0 | DStIS2 | 0.002 | 0 |
| 335 | Story2 | B258 | RHS60*40,3 | 0.139 = 0.1 + 0.038 + 0 | DStIS3 | 0.004 | 0.0001343 |
| 359 | Story2 | B259 | RHS60*40,3 | 0.569 = 0.015 + 0.553 + 0.001 | DStIS10 | 0.055 | 0.0001088 |
| 360 | Story2 | B260 | RHS60*40,3 | 0.208 = 0.027 + 0.18 + 4.191E-04 | DStIS3 | 0.025 | 0.0001602 |
| 361 | Story2 | B261 | RHS60*40,3 | 0.058 = 0.02 + 0.039 + 1.173E-04 | DStIS3 | 0.012 | 0.0001692 |
| 362 | Story2 | B262 | RHS60*40,3 | 0.046 = 0.012 + 0.032 + 0.001 | DStIS2 | 0.011 | 0.0002099 |
| 363 | Story2 | B263 | RHS60*40,3 | 0.043 = 0.006 + 0.036 + 3.202E-04 | DStIS2 | 0.011 | 0.0001814 |
| 364 | Story2 | B264 | RHS60*40,3 | 0.032 = 0.001 + 0.029 + 0.002 | DStIS2 | 0.01 | 0.0001597 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 1 of 2, continued)

| UniqueName | Story | Label | Section | Moment Interaction Check | PMM Combo | V22 Ratio | V33 Ratio |
|------------|--------|-------|------------|-----------------------------------|-----------|-----------|-----------|
| 365 | Story2 | B265 | RHS60*40,3 | 0.078 = 0.006 + 0.071 + 0.001 | DStIS2 | 0.014 | 0 |
| 366 | Story2 | B266 | RHS60*40,3 | 0.523 = 0.018 + 0.505 + 0.001 | DStIS9 | 0.055 | 0.0001084 |
| 367 | Story2 | B267 | RHS60*40,3 | 0.186 = 0.023 + 0.163 + 3.616E-04 | DStIS10 | 0.023 | 0.0001623 |
| 368 | Story2 | B276 | RHS60*40,3 | 0.058 = 0.018 + 0.04 + 1.615E-04 | DStIS2 | 0.012 | 0.0001718 |
| 369 | Story2 | B277 | RHS60*40,3 | 0.046 = 0.012 + 0.032 + 0.001 | DStIS2 | 0.011 | 0.0002136 |
| 370 | Story2 | B278 | RHS60*40,3 | 0.043 = 0.006 + 0.036 + 3.316E-04 | DStIS2 | 0.011 | 0.0001868 |
| 371 | Story2 | B279 | RHS60*40,3 | 0.032 = 0.001 + 0.029 + 0.002 | DStIS2 | 0.01 | 0.0001648 |
| 372 | Story2 | B280 | RHS60*40,3 | 0.078 = 0.006 + 0.071 + 0.001 | DStIS2 | 0.014 | 0 |
| 373 | Story2 | B281 | RHS60*40,3 | 0.779 = 0.293 + 0.485 + 0.001 | DStIS3 | 0.05 | 0.0001734 |
| 374 | Story2 | B282 | RHS60*40,3 | 0.543 = 0.327 + 0.215 + 2.284E-04 | DStIS3 | 0.02 | 0 |
| 375 | Story2 | B283 | RHS60*40,3 | 0.365 = 0.313 + 0.052 + 1.359E-04 | DStIS3 | 0.004 | 0.0001635 |
| 376 | Story2 | B284 | RHS60*40,3 | 0.255 = 0.222 + 0.032 + 2.747E-04 | DStIS3 | 0.003 | 0.00015 |
| 377 | Story2 | B285 | RHS60*40,3 | 0.138 = 0.118 + 0.019 + 3.013E-04 | DStIS3 | 0.002 | 0.0001319 |
| 378 | Story2 | B286 | RHS60*40,3 | 0.022 = 0.009 + 0.013 + 4.038E-04 | DStIS3 | 0.002 | 0 |
| 379 | Story2 | B287 | RHS60*40,3 | 0.171 = 0.131 + 0.04 + 3.163E-04 | DStIS3 | 0.005 | 0.0001417 |
| 380 | Story2 | B288 | RHS60*40,3 | 0.74 = 0.268 + 0.471 + 0.001 | DStIS2 | 0.047 | 0.0001756 |
| 381 | Story2 | B289 | RHS60*40,3 | 0.499 = 0.302 + 0.198 + 0 | DStIS2 | 0.018 | 0 |
| 382 | Story2 | B290 | RHS60*40,3 | 0.337 = 0.288 + 0.049 + 1.209E-04 | DStIS2 | 0.004 | 0.0001626 |
| 383 | Story2 | B291 | RHS60*40,3 | 0.234 = 0.204 + 0.03 + 3.064E-04 | DStIS2 | 0.003 | 0.0001498 |
| 384 | Story2 | B296 | RHS60*40,3 | 0.124 = 0.106 + 0.018 + 3.676E-04 | DStIS2 | 0.002 | 0.0001302 |
| 385 | Story2 | B297 | RHS60*40,3 | 0.028 = 0.019 + 0.009 + 1.751E-04 | DStIS5 | 0.002 | 0 |
| 386 | Story2 | B298 | RHS60*40,3 | 0.182 = 0.143 + 0.039 + 3.157E-04 | DStIS3 | 0.004 | 0.0001409 |
| 410 | Story2 | B299 | RHS60*40,3 | 0.532 = 0.03 + 0.502 + 2.456E-04 | DStIS10 | 0.059 | 0.0001295 |
| 411 | Story2 | B300 | RHS60*40,3 | 0.182 = 0.017 + 0.165 + 0.001 | DStIS9 | 0.023 | 0.0002658 |
| 412 | Story2 | B301 | RHS60*40,3 | 0.052 = 0.012 + 0.04 + 3.17E-04 | DStIS2 | 0.012 | 0.0004382 |
| 413 | Story2 | B302 | RHS60*40,3 | 0.04 = 0.007 + 0.032 + 0.001 | DStIS2 | 0.011 | 0.0004333 |
| 414 | Story2 | B303 | RHS60*40,3 | 0.044 = 0.004 + 0.036 + 0.004 | DStIS2 | 0.011 | 0.0004434 |
| 415 | Story2 | B304 | RHS60*40,3 | 0.029 = 0.001 + 0.028 + 0 | DStIS2 | 0.01 | 0.0002897 |
| 416 | Story2 | B305 | RHS60*40,3 | 0.077 = 0.003 + 0.07 + 0.004 | DStIS2 | 0.013 | 0.0001292 |
| 417 | Story2 | B306 | RHS60*40,3 | 0.486 = 0.028 + 0.458 + 1.728E-04 | DStIS9 | 0.058 | 0.0001319 |
| 418 | Story2 | B307 | RHS60*40,3 | 0.166 = 0.017 + 0.148 + 0.001 | DStIS10 | 0.021 | 0.0002683 |
| 419 | Story2 | B308 | RHS60*40,3 | 0.052 = 0.011 + 0.04 + 3.097E-04 | DStIS2 | 0.012 | 0.0004447 |
| 420 | Story2 | B309 | RHS60*40,3 | 0.039 = 0.006 + 0.032 + 0.001 | DStIS2 | 0.011 | 0.0004425 |
| 421 | Story2 | B310 | RHS60*40,3 | 0.044 = 0.004 + 0.036 + 0.004 | DStIS2 | 0.011 | 0.0004526 |
| 422 | Story2 | B311 | RHS60*40,3 | 0.029 = 0.001 + 0.028 + 0 | DStIS2 | 0.01 | 0.0003046 |
| 423 | Story2 | B320 | RHS60*40,3 | 0.077 = 0.003 + 0.07 + 0.004 | DStIS2 | 0.013 | 0.0001392 |
| 424 | Story2 | B321 | RHS60*40,3 | 0.712 = 0.275 + 0.433 + 0.004 | DStIS3 | 0.054 | 0.000359 |
| 425 | Story2 | B322 | RHS60*40,3 | 0.518 = 0.317 + 0.196 + 0.005 | DStIS3 | 0.018 | 0.001 |
| 426 | Story2 | B323 | RHS60*40,3 | 0.361 = 0.304 + 0.055 + 0.001 | DStIS3 | 0.005 | 0.0003082 |
| 427 | Story2 | B324 | RHS60*40,3 | 0.249 = 0.218 + 0.031 + 0 | DStIS3 | 0.003 | 0.0001808 |
| 428 | Story2 | B325 | RHS60*40,3 | 0.138 = 0.117 + 0.019 + 0.002 | DStIS3 | 0.002 | 0.000139 |
| 429 | Story2 | B326 | RHS60*40,3 | 0.026 = 0.011 + 0.012 + 0.003 | DStIS3 | 0.002 | 0.0002382 |
| 430 | Story2 | B327 | RHS60*40,3 | 0.166 = 0.126 + 0.039 + 0.001 | DStIS3 | 0.004 | 0.0002418 |
| 431 | Story2 | B328 | RHS60*40,3 | 0.677 = 0.25 + 0.422 + 0.005 | DStIS2 | 0.051 | 0.0003667 |
| 432 | Story2 | B329 | RHS60*40,3 | 0.475 = 0.292 + 0.178 + 0.006 | DStIS2 | 0.016 | 0.001 |
| 433 | Story2 | B330 | RHS60*40,3 | 0.334 = 0.28 + 0.052 + 0.001 | DStIS2 | 0.005 | 0.0003061 |
| 434 | Story2 | B331 | RHS60*40,3 | 0.228 = 0.2 + 0.028 + 2.352E-04 | DStIS2 | 0.003 | 0.0001795 |
| 435 | Story2 | B332 | RHS60*40,3 | 0.125 = 0.106 + 0.017 + 0.002 | DStIS2 | 0.002 | 0.0001374 |
| 436 | Story2 | B333 | RHS60*40,3 | 0.029 = 0.018 + 0.008 + 0.003 | DStIS4 | 0.002 | 0.0002392 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 1 of 2, continued)

| UniqueName | Story | Label | Section | Moment Interaction Check | PMM Combo | V22 Ratio | V33 Ratio |
|------------|--------|-------|------------|-----------------------------------|-----------|-----------|-----------|
| 437 | Story2 | B334 | RHS60*40,3 | 0.177 = 0.138 + 0.038 + 0.001 | DStIS3 | 0.004 | 0.0002419 |
| 461 | Story2 | B335 | RHS60*40,3 | 0.437 = 0.022 + 0.411 + 0.004 | DStIS10 | 0.047 | 0.0003453 |
| 462 | Story2 | B340 | RHS60*40,3 | 0.226 = 0.006 + 0.216 + 0.004 | DStIS3 | 0.029 | 0.001 |
| 463 | Story2 | B341 | RHS60*40,3 | 0.049 = 0.02 + 0.028 + 0.001 | DStIS3 | 0.011 | 0.001 |
| 464 | Story2 | B342 | RHS60*40,3 | 0.062 = 0.023 + 0.035 + 0.003 | DStIS2 | 0.011 | 0.001 |
| 465 | Story2 | B343 | RHS60*40,3 | 0.06 = 0.021 + 0.038 + 4.059E-04 | DStIS2 | 0.011 | 0.0004444 |
| 466 | Story2 | B344 | RHS60*40,3 | 0.055 = 0.017 + 0.034 + 0.005 | DStIS2 | 0.01 | 0.0004087 |
| 467 | Story2 | B345 | RHS60*40,3 | 0.081 = 0.008 + 0.069 + 0.004 | DStIS2 | 0.013 | 0 |
| 468 | Story2 | B346 | RHS60*40,3 | 0.428 = 0.024 + 0.4 + 0.004 | DStIS2 | 0.047 | 0.0003506 |
| 469 | Story2 | B347 | RHS60*40,3 | 0.208 = 0.005 + 0.199 + 0.004 | DStIS2 | 0.029 | 0.001 |
| 470 | Story2 | B348 | RHS60*40,3 | 0.049 = 0.018 + 0.03 + 0.002 | DStIS2 | 0.011 | 0.001 |
| 471 | Story2 | B349 | RHS60*40,3 | 0.062 = 0.023 + 0.035 + 0.003 | DStIS2 | 0.011 | 0.001 |
| 472 | Story2 | B350 | RHS60*40,3 | 0.06 = 0.021 + 0.038 + 4.441E-04 | DStIS2 | 0.011 | 0.0004598 |
| 473 | Story2 | B351 | RHS60*40,3 | 0.055 = 0.017 + 0.034 + 0.005 | DStIS2 | 0.01 | 0.0004186 |
| 474 | Story2 | B352 | RHS60*40,3 | 0.08 = 0.008 + 0.069 + 0.004 | DStIS2 | 0.013 | 0 |
| 475 | Story2 | B353 | RHS60*40,3 | 0.671 = 0.266 + 0.393 + 0.012 | DStIS3 | 0.041 | 0.001 |
| 476 | Story2 | B354 | RHS60*40,3 | 0.54 = 0.278 + 0.253 + 0.009 | DStIS3 | 0.024 | 0.001 |
| 477 | Story2 | B355 | RHS60*40,3 | 0.29 = 0.26 + 0.029 + 2.559E-04 | DStIS3 | 0.003 | 0.0004633 |
| 478 | Story2 | B364 | RHS60*40,3 | 0.19 = 0.156 + 0.03 + 0.003 | DStIS3 | 0.003 | 0.0001588 |
| 479 | Story2 | B365 | RHS60*40,3 | 0.066 = 0.043 + 0.015 + 0.008 | DStIS3 | 0.002 | 0.0004213 |
| 480 | Story2 | B366 | RHS60*40,3 | 0.13 = 0.109 + 0.009 + 0.012 | DStIS2 | 0.002 | 0.001 |
| 481 | Story2 | B367 | RHS60*40,3 | 0.301 = 0.257 + 0.042 + 0.001 | DStIS2 | 0.005 | 0.001 |
| 482 | Story2 | B368 | RHS60*40,3 | 0.635 = 0.244 + 0.375 + 0.016 | DStIS2 | 0.039 | 0.001 |
| 483 | Story2 | B369 | RHS60*40,3 | 0.506 = 0.254 + 0.24 + 0.011 | DStIS2 | 0.023 | 0.001 |
| 484 | Story2 | B370 | RHS60*40,3 | 0.263 = 0.238 + 0.025 + 2.251E-04 | DStIS2 | 0.002 | 0.0004601 |
| 485 | Story2 | B371 | RHS60*40,3 | 0.169 = 0.137 + 0.028 + 0.004 | DStIS2 | 0.003 | 0.0001577 |
| 486 | Story2 | B372 | RHS60*40,3 | 0.052 = 0.028 + 0.014 + 0.01 | DStIS2 | 0.002 | 0.0004206 |
| 487 | Story2 | B373 | RHS60*40,3 | 0.138 = 0.12 + 0.008 + 0.01 | DStIS3 | 0.002 | 0.001 |
| 488 | Story2 | B374 | RHS60*40,3 | 0.304 = 0.262 + 0.041 + 0.001 | DStIS3 | 0.005 | 0.001 |
| 512 | Story2 | B375 | RHS60*40,3 | 0.481 = 0.258 + 0.221 + 0.002 | DStIS3 | 0.031 | 0.001 |
| 513 | Story2 | B376 | RHS60*40,3 | 0.264 = 0.184 + 0.075 + 0.005 | DStIS3 | 0.01 | 0.001 |
| 514 | Story2 | B377 | RHS60*40,3 | 0.149 = 0.128 + 0.02 + 0.001 | DStIS2 | 0.005 | 0.001 |
| 515 | Story2 | B379 | RHS60*40,3 | 0.098 = 0.081 + 0.015 + 0.001 | DStIS2 | 0.005 | 0.001 |
| 516 | Story2 | B384 | RHS60*40,3 | 0.067 = 0.045 + 0.018 + 0.004 | DStIS2 | 0.005 | 0.001 |
| 517 | Story2 | B385 | RHS60*40,3 | 0.04 = 0.019 + 0.018 + 0.003 | DStIS2 | 0.005 | 0.0001577 |
| 518 | Story2 | B386 | RHS60*40,3 | 0.044 = 0.006 + 0.029 + 0.009 | DStIS2 | 0.006 | 0.001 |
| 519 | Story2 | B387 | RHS60*40,3 | 0.479 = 0.264 + 0.212 + 0.002 | DStIS2 | 0.031 | 0.001 |
| 520 | Story2 | B388 | RHS60*40,3 | 0.257 = 0.188 + 0.063 + 0.005 | DStIS2 | 0.01 | 0.001 |
| 521 | Story2 | B389 | RHS60*40,3 | 0.151 = 0.13 + 0.021 + 0.001 | DStIS2 | 0.005 | 0.001 |
| 522 | Story2 | B390 | RHS60*40,3 | 0.099 = 0.083 + 0.015 + 0.001 | DStIS2 | 0.005 | 0.001 |
| 523 | Story2 | B391 | RHS60*40,3 | 0.068 = 0.047 + 0.018 + 0.004 | DStIS2 | 0.005 | 0.001 |
| 524 | Story2 | B392 | RHS60*40,3 | 0.041 = 0.02 + 0.018 + 0.003 | DStIS2 | 0.005 | 0.0001698 |
| 525 | Story2 | B393 | RHS60*40,3 | 0.044 = 0.006 + 0.029 + 0.009 | DStIS2 | 0.006 | 0.001 |
| 526 | Story2 | B394 | RHS60*40,3 | 0.349 = 0.045 + 0.216 + 0.088 | DStIS3 | 0.029 | 0.009 |
| 527 | Story2 | B395 | RHS60*40,3 | 0.208 = 0.076 + 0.09 + 0.042 | DStIS3 | 0.007 | 0.006 |
| 528 | Story2 | B396 | RHS60*40,3 | 0.092 = 0.073 + 0.017 + 0.001 | DStIS3 | 0.001 | 0.001 |
| 529 | Story2 | B397 | RHS60*40,3 | 0.058 = 0.033 + 0.013 + 0.012 | DStIS3 | 0.001 | 0.0003509 |
| 530 | Story2 | B398 | RHS60*40,3 | 0.067 = 0.024 + 0.005 + 0.038 | DStIS2 | 0.001 | 0.001 |
| 531 | Story2 | B399 | RHS60*40,3 | 0.14 = 0.081 + 0.002 + 0.057 | DStIS2 | 0.001 | 0.004 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 1 of 2, continued)

| UniqueName | Story | Label | Section | Moment Interaction Check | PMM Combo | V22 Ratio | V33 Ratio |
|------------|--------|-------|---------------|-------------------------------------|-----------|-----------|-----------|
| 532 | Story2 | B456 | RHS60*40,3 | $0.196 = 0.139 + 0.005 + 0.051$ | DStiS2 | 0.002 | 0.007 |
| 533 | Story2 | B457 | RHS60*40,3 | $0.341 = 0.03 + 0.205 + 0.105$ | DStiS2 | 0.028 | 0.009 |
| 534 | Story2 | B458 | RHS60*40,3 | $0.192 = 0.061 + 0.081 + 0.05$ | DStiS2 | 0.007 | 0.006 |
| 535 | Story2 | B459 | RHS60*40,3 | $0.078 = 0.059 + 0.005 + 0.015$ | DStiS2 | 0.001 | 0.001 |
| 536 | Story2 | B461 | RHS60*40,3 | $0.047 = 0.022 + 0.011 + 0.014$ | DStiS2 | 0.001 | 0.0003512 |
| 537 | Story2 | B462 | RHS60*40,3 | $0.07 = 0.034 + 0.005 + 0.031$ | DStiS3 | 0.001 | 0.001 |
| 538 | Story2 | B463 | RHS60*40,3 | $0.14 = 0.081 + 0.002 + 0.057$ | DStiS2 | 0.001 | 0.004 |
| 539 | Story2 | B464 | RHS60*40,3 | $0.196 = 0.139 + 0.005 + 0.051$ | DStiS2 | 0.002 | 0.007 |
| 540 | Story2 | B28 | RHS 40*40,3MM | $0.678 = 0.079 + 0.599 + 0$ | DStiS2 | 0.067 | 0 |
| 541 | Story2 | B34 | RHS 40*40,3MM | $0.787 = 0.178 + 0.609 + 0$ | DStiS2 | 0.067 | 0 |
| 542 | Story2 | B40 | RHS 40*40,3MM | $0.947 = 0.348 + 0.6 + 0$ | DStiS2 | 0.067 | 0 |
| 543 | Story2 | B46 | RHS40*40,4 | $0.898 = 0.418 + 0.48 + 0$ | DStiS2 | 0.054 | 0 |
| 544 | Story2 | B52 | RHS40*40,4 | $0.898 = 0.418 + 0.48 + 0$ | DStiS2 | 0.054 | 0 |
| 545 | Story2 | B62 | RHS 40*40,3MM | $0.947 = 0.348 + 0.6 + 0$ | DStiS2 | 0.067 | 0 |
| 546 | Story2 | B68 | RHS 40*40,3MM | $0.787 = 0.178 + 0.609 + 0$ | DStiS2 | 0.067 | 0 |
| 547 | Story2 | B74 | RHS 40*40,3MM | $0.678 = 0.079 + 0.599 + 0$ | DStiS2 | 0.067 | 0 |
| 548 | Story2 | B118 | RHS 40*40,3MM | $0.763 = 0.01 + 0.722 + 0.03$ | DStiS2 | 0.079 | 0.003 |
| 549 | Story2 | B124 | RHS 40*40,3MM | $0.714 = 0.009 + 0.689 + 0.017$ | DStiS2 | 0.072 | 0.0003761 |
| 550 | Story2 | B130 | RHS 40*40,3MM | $0.67 = 0.033 + 0.636 + 4.989E-04$ | DStiS2 | 0.071 | 0 |
| 551 | Story2 | B136 | RHS 40*40,3MM | $0.685 = 0.035 + 0.646 + 0.003$ | DStiS2 | 0.071 | 0.0001253 |
| 552 | Story2 | B142 | RHS 40*40,3MM | $0.685 = 0.035 + 0.646 + 0.003$ | DStiS2 | 0.071 | 0.0001253 |
| 553 | Story2 | B148 | RHS 40*40,3MM | $0.67 = 0.033 + 0.636 + 0.001$ | DStiS2 | 0.071 | 0 |
| 554 | Story2 | B154 | RHS 40*40,3MM | $0.714 = 0.009 + 0.689 + 0.017$ | DStiS2 | 0.072 | 0.0003763 |
| 555 | Story2 | B168 | RHS 40*40,3MM | $0.763 = 0.01 + 0.722 + 0.03$ | DStiS2 | 0.079 | 0.003 |
| 556 | Story2 | B169 | RHS 40*40,3MM | $0.764 = 0.005 + 0.718 + 0.041$ | DStiS2 | 0.078 | 0.004 |
| 557 | Story2 | B170 | RHS 40*40,3MM | $0.73 = 0.019 + 0.691 + 0.02$ | DStiS2 | 0.069 | 0.001 |
| 558 | Story2 | B171 | RHS 40*40,3MM | $0.613 = 0.011 + 0.601 + 0.001$ | DStiS2 | 0.067 | 0.0001349 |
| 559 | Story2 | B172 | RHS 40*40,3MM | $0.618 = 0.015 + 0.602 + 0.001$ | DStiS2 | 0.067 | 0 |
| 560 | Story2 | B173 | RHS 40*40,3MM | $0.618 = 0.015 + 0.602 + 0.001$ | DStiS2 | 0.067 | 0 |
| 561 | Story2 | B174 | RHS 40*40,3MM | $0.613 = 0.011 + 0.601 + 0.001$ | DStiS2 | 0.067 | 0.0001348 |
| 562 | Story2 | B175 | RHS 40*40,3MM | $0.73 = 0.019 + 0.691 + 0.02$ | DStiS2 | 0.069 | 0.001 |
| 563 | Story2 | B176 | RHS 40*40,3MM | $0.764 = 0.005 + 0.718 + 0.041$ | DStiS2 | 0.078 | 0.004 |
| 564 | Story2 | B177 | RHS 40*40,3MM | $0.772 = 0 + 0.728 + 0.044$ | DStiS2 | 0.079 | 0.004 |
| 565 | Story2 | B178 | RHS 40*40,3MM | $0.771 = 0.045 + 0.705 + 0.022$ | DStiS2 | 0.07 | 0.001 |
| 566 | Story2 | B179 | RHS 40*40,3MM | $0.643 = 0.038 + 0.604 + 0.001$ | DStiS2 | 0.067 | 0.000182 |
| 567 | Story2 | B180 | RHS 40*40,3MM | $0.622 = 0.018 + 0.604 + 0.001$ | DStiS2 | 0.067 | 0 |
| 568 | Story2 | B181 | RHS 40*40,3MM | $0.622 = 0.018 + 0.604 + 0.001$ | DStiS2 | 0.067 | 0 |
| 569 | Story2 | B182 | RHS 40*40,3MM | $0.643 = 0.038 + 0.604 + 0.001$ | DStiS2 | 0.067 | 0.000182 |
| 570 | Story2 | B183 | RHS 40*40,3MM | $0.771 = 0.045 + 0.705 + 0.022$ | DStiS2 | 0.07 | 0.001 |
| 571 | Story2 | B184 | RHS 40*40,3MM | $0.772 = 1.071E-04 + 0.728 + 0.044$ | DStiS2 | 0.079 | 0.004 |
| 572 | Story2 | B185 | RHS 40*40,3MM | $0.773 = 0 + 0.729 + 0.043$ | DStiS2 | 0.079 | 0.004 |
| 573 | Story2 | B186 | RHS 40*40,3MM | $0.814 = 0.086 + 0.705 + 0.023$ | DStiS2 | 0.07 | 0.001 |
| 574 | Story2 | B187 | RHS 40*40,3MM | $0.706 = 0.099 + 0.605 + 0.002$ | DStiS2 | 0.067 | 0.0002224 |
| 575 | Story2 | B188 | RHS 40*40,3MM | $0.712 = 0.106 + 0.605 + 0.001$ | DStiS2 | 0.067 | 0 |
| 576 | Story2 | B189 | RHS 40*40,3MM | $0.712 = 0.106 + 0.605 + 0.001$ | DStiS2 | 0.067 | 0 |
| 577 | Story2 | B190 | RHS 40*40,3MM | $0.706 = 0.099 + 0.605 + 0.002$ | DStiS2 | 0.067 | 0.0002223 |
| 578 | Story2 | B191 | RHS 40*40,3MM | $0.814 = 0.086 + 0.705 + 0.023$ | DStiS2 | 0.07 | 0.001 |
| 579 | Story2 | B192 | RHS 40*40,3MM | $0.773 = 0 + 0.729 + 0.043$ | DStiS2 | 0.079 | 0.004 |
| 580 | Story2 | B193 | RHS 40*40,3MM | $0.789 = 0.04 + 0.722 + 0.027$ | DStiS2 | 0.078 | 0.004 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 1 of 2, continued)

| UniqueName | Story | Label | Section | Moment Interaction Check | PMM Combo | V22 Ratio | V33 Ratio |
|------------|--------|-------|---------------|-----------------------------------|-----------|-----------|-----------|
| 581 | Story2 | B194 | RHS 40*40,3MM | 0.815 = 0.101 + 0.695 + 0.019 | DStIS2 | 0.069 | 0.001 |
| 582 | Story2 | B195 | RHS 40*40,3MM | 0.784 = 0.177 + 0.605 + 0.001 | DStIS2 | 0.067 | 0.0001811 |
| 583 | Story2 | B196 | RHS 40*40,3MM | 0.798 = 0.192 + 0.605 + 0.001 | DStIS2 | 0.067 | 0 |
| 584 | Story2 | B197 | RHS 40*40,3MM | 0.798 = 0.192 + 0.605 + 0.001 | DStIS2 | 0.067 | 0 |
| 585 | Story2 | B198 | RHS 40*40,3MM | 0.784 = 0.177 + 0.605 + 0.001 | DStIS2 | 0.067 | 0.0001811 |
| 586 | Story2 | B199 | RHS 40*40,3MM | 0.815 = 0.101 + 0.695 + 0.019 | DStIS2 | 0.069 | 0.001 |
| 587 | Story2 | B200 | RHS 40*40,3MM | 0.789 = 0.04 + 0.722 + 0.027 | DStIS2 | 0.078 | 0.004 |
| 588 | Story2 | B201 | RHS 40*40,3MM | 0.739 = 0.019 + 0.699 + 0.021 | DStIS2 | 0.075 | 0.003 |
| 589 | Story2 | B202 | RHS 40*40,3MM | 0.85 = 0.165 + 0.669 + 0.016 | DStIS2 | 0.069 | 0.001 |
| 590 | Story2 | B203 | RHS 40*40,3MM | 0.844 = 0.239 + 0.604 + 0.001 | DStIS2 | 0.067 | 0.0001679 |
| 591 | Story2 | B204 | RHS 40*40,3MM | 0.899 = 0.294 + 0.604 + 0.001 | DStIS2 | 0.067 | 0 |
| 592 | Story2 | B205 | RHS 40*40,3MM | 0.899 = 0.294 + 0.604 + 0.001 | DStIS2 | 0.067 | 0 |
| 593 | Story2 | B206 | RHS 40*40,3MM | 0.844 = 0.239 + 0.604 + 0.001 | DStIS2 | 0.067 | 0.0001678 |
| 594 | Story2 | B207 | RHS 40*40,3MM | 0.85 = 0.165 + 0.669 + 0.016 | DStIS2 | 0.069 | 0.001 |
| 595 | Story2 | B208 | RHS 40*40,3MM | 0.739 = 0.019 + 0.699 + 0.021 | DStIS2 | 0.075 | 0.003 |
| 596 | Story2 | B209 | RHS 40*40,3MM | 0.763 = 0.011 + 0.722 + 0.03 | DStIS2 | 0.079 | 0.003 |
| 597 | Story2 | B210 | RHS 40*40,3MM | 0.715 = 0.009 + 0.689 + 0.017 | DStIS2 | 0.072 | 0.0003766 |
| 598 | Story2 | B211 | RHS 40*40,3MM | 0.67 = 0.033 + 0.636 + 4.954E-04 | DStIS2 | 0.071 | 0 |
| 599 | Story2 | B212 | RHS 40*40,3MM | 0.685 = 0.035 + 0.646 + 0.003 | DStIS2 | 0.071 | 0.0001229 |
| 600 | Story2 | B213 | RHS 40*40,3MM | 0.685 = 0.035 + 0.646 + 0.003 | DStIS2 | 0.071 | 0.000123 |
| 601 | Story2 | B214 | RHS 40*40,3MM | 0.67 = 0.033 + 0.636 + 4.946E-04 | DStIS2 | 0.071 | 0 |
| 602 | Story2 | B215 | RHS 40*40,3MM | 0.715 = 0.009 + 0.689 + 0.017 | DStIS2 | 0.072 | 0.0003769 |
| 603 | Story2 | B216 | RHS 40*40,3MM | 0.763 = 0.011 + 0.722 + 0.031 | DStIS2 | 0.079 | 0.003 |
| 604 | Story2 | B217 | RHS 40*40,3MM | 0.764 = 0.005 + 0.718 + 0.041 | DStIS2 | 0.078 | 0.004 |
| 605 | Story2 | B218 | RHS 40*40,3MM | 0.731 = 0.02 + 0.691 + 0.02 | DStIS2 | 0.069 | 0.001 |
| 606 | Story2 | B219 | RHS 40*40,3MM | 0.613 = 0.011 + 0.601 + 0.001 | DStIS2 | 0.067 | 0.0001336 |
| 607 | Story2 | B220 | RHS 40*40,3MM | 0.619 = 0.016 + 0.602 + 0.001 | DStIS2 | 0.067 | 0 |
| 608 | Story2 | B221 | RHS 40*40,3MM | 0.619 = 0.016 + 0.602 + 0.001 | DStIS2 | 0.067 | 0 |
| 609 | Story2 | B222 | RHS 40*40,3MM | 0.613 = 0.011 + 0.601 + 0.001 | DStIS2 | 0.067 | 0.0001336 |
| 610 | Story2 | B223 | RHS 40*40,3MM | 0.731 = 0.02 + 0.691 + 0.02 | DStIS2 | 0.069 | 0.001 |
| 611 | Story2 | B224 | RHS 40*40,3MM | 0.764 = 0.005 + 0.718 + 0.041 | DStIS2 | 0.078 | 0.004 |
| 612 | Story2 | B225 | RHS 40*40,3MM | 0.772 = 0 + 0.728 + 0.044 | DStIS2 | 0.079 | 0.004 |
| 613 | Story2 | B230 | RHS 40*40,3MM | 0.772 = 0.045 + 0.705 + 0.022 | DStIS2 | 0.07 | 0.001 |
| 614 | Story2 | B231 | RHS 40*40,3MM | 0.642 = 0.037 + 0.604 + 0.001 | DStIS2 | 0.067 | 0.0001818 |
| 615 | Story2 | B246 | RHS 40*40,3MM | 0.621 = 0.017 + 0.604 + 0.001 | DStIS2 | 0.067 | 0 |
| 616 | Story2 | B268 | RHS 40*40,3MM | 0.621 = 0.017 + 0.604 + 0.001 | DStIS2 | 0.067 | 0 |
| 617 | Story2 | B269 | RHS 40*40,3MM | 0.642 = 0.037 + 0.604 + 0.001 | DStIS2 | 0.067 | 0.0001818 |
| 618 | Story2 | B274 | RHS 40*40,3MM | 0.772 = 0.045 + 0.705 + 0.022 | DStIS2 | 0.07 | 0.001 |
| 619 | Story2 | B275 | RHS 40*40,3MM | 0.772 = 0 + 0.728 + 0.044 | DStIS2 | 0.079 | 0.004 |
| 620 | Story2 | B312 | RHS 40*40,3MM | 0.773 = 1.555E-04 + 0.729 + 0.043 | DStIS2 | 0.079 | 0.004 |
| 621 | Story2 | B313 | RHS 40*40,3MM | 0.814 = 0.087 + 0.705 + 0.023 | DStIS2 | 0.07 | 0.001 |
| 622 | Story2 | B318 | RHS 40*40,3MM | 0.705 = 0.099 + 0.605 + 0.002 | DStIS2 | 0.067 | 0.0002221 |
| 623 | Story2 | B319 | RHS 40*40,3MM | 0.711 = 0.105 + 0.605 + 0.001 | DStIS2 | 0.067 | 0 |
| 624 | Story2 | B356 | RHS 40*40,3MM | 0.711 = 0.105 + 0.605 + 0.001 | DStIS2 | 0.067 | 0 |
| 625 | Story2 | B357 | RHS 40*40,3MM | 0.705 = 0.099 + 0.605 + 0.002 | DStIS2 | 0.067 | 0.0002221 |
| 626 | Story2 | B362 | RHS 40*40,3MM | 0.814 = 0.087 + 0.705 + 0.023 | DStIS2 | 0.07 | 0.001 |
| 627 | Story2 | B363 | RHS 40*40,3MM | 0.773 = 1.574E-04 + 0.729 + 0.043 | DStIS2 | 0.079 | 0.004 |
| 628 | Story2 | B378 | RHS 40*40,3MM | 0.789 = 0.04 + 0.722 + 0.027 | DStIS2 | 0.078 | 0.004 |
| 629 | Story2 | B408 | RHS 40*40,3MM | 0.815 = 0.101 + 0.695 + 0.019 | DStIS2 | 0.069 | 0.001 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 1 of 2, continued)

| UniqueName | Story | Label | Section | Moment Interaction Check | PMM Combo | V22 Ratio | V33 Ratio |
|------------|--------|-------|---------------|-------------------------------|-----------|-----------|-----------|
| 630 | Story2 | B409 | RHS 40*40,3MM | 0.784 = 0.177 + 0.605 + 0.001 | DStIS2 | 0.067 | 0.0001815 |
| 631 | Story2 | B410 | RHS 40*40,3MM | 0.797 = 0.192 + 0.605 + 0.001 | DStIS2 | 0.067 | 0 |
| 632 | Story2 | B411 | RHS 40*40,3MM | 0.797 = 0.192 + 0.605 + 0.001 | DStIS2 | 0.067 | 0 |
| 633 | Story2 | B412 | RHS 40*40,3MM | 0.784 = 0.177 + 0.605 + 0.001 | DStIS2 | 0.067 | 0.0001815 |
| 634 | Story2 | B413 | RHS 40*40,3MM | 0.815 = 0.101 + 0.695 + 0.019 | DStIS2 | 0.069 | 0.001 |
| 635 | Story2 | B414 | RHS 40*40,3MM | 0.789 = 0.04 + 0.722 + 0.027 | DStIS2 | 0.078 | 0.004 |
| 636 | Story2 | B415 | RHS 40*40,3MM | 0.739 = 0.019 + 0.699 + 0.021 | DStIS2 | 0.075 | 0.003 |
| 637 | Story2 | B416 | RHS 40*40,3MM | 0.85 = 0.165 + 0.669 + 0.016 | DStIS2 | 0.069 | 0.001 |
| 638 | Story2 | B417 | RHS 40*40,3MM | 0.844 = 0.239 + 0.604 + 0.001 | DStIS2 | 0.067 | 0.0001682 |
| 639 | Story2 | B418 | RHS 40*40,3MM | 0.899 = 0.294 + 0.604 + 0.001 | DStIS2 | 0.067 | 0 |
| 640 | Story2 | B419 | RHS 40*40,3MM | 0.899 = 0.294 + 0.604 + 0.001 | DStIS2 | 0.067 | 0 |
| 641 | Story2 | B420 | RHS 40*40,3MM | 0.844 = 0.239 + 0.604 + 0.001 | DStIS2 | 0.067 | 0.0001683 |
| 642 | Story2 | B421 | RHS 40*40,3MM | 0.85 = 0.165 + 0.669 + 0.016 | DStIS2 | 0.069 | 0.001 |
| 643 | Story2 | B422 | RHS 40*40,3MM | 0.739 = 0.019 + 0.699 + 0.021 | DStIS2 | 0.075 | 0.003 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 2 of 2)

| UniqueName | Section Class | Conn. V I-End kN | Conn. V J-End kN |
|------------|---------------|------------------|------------------|
| 184 | Class 1 | 0 | 0 |
| 185 | Class 1 | 0 | 0 |
| 192 | Class 1 | 0 | 0 |
| 194 | Class 1 | 0 | 0 |
| 115 | Class 1 | 0 | 0 |
| 116 | Class 1 | 0 | 0 |
| 123 | Class 1 | 0 | 0 |
| 124 | Class 1 | 0 | 0 |
| 176 | Class 1 | 0 | 0 |
| 177 | Class 1 | 0 | 0 |
| 196 | Class 1 | 0 | 0 |
| 197 | Class 1 | 0 | 0 |
| 239 | Class 1 | 0 | 0 |
| 240 | Class 1 | 0 | 0 |
| 247 | Class 1 | 0 | 0 |
| 248 | Class 1 | 0 | 0 |
| 298 | Class 1 | 0 | 0 |
| 299 | Class 1 | 0 | 0 |
| 306 | Class 1 | 0 | 0 |
| 307 | Class 1 | 0 | 0 |
| 349 | Class 1 | 0 | 0 |
| 350 | Class 1 | 0 | 0 |
| 357 | Class 1 | 0 | 0 |
| 358 | Class 1 | 0 | 0 |
| 400 | Class 1 | 0 | 0 |
| 401 | Class 1 | 0 | 0 |
| 408 | Class 1 | 0 | 0 |
| 409 | Class 1 | 0 | 0 |
| 451 | Class 1 | 0 | 0 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 2 of 2, continued)

| UniqueName | Section Class | Conn. V I-End kN | Conn. V J-End kN |
|------------|---------------|------------------|------------------|
| 452 | Class 1 | 0 | 0 |
| 459 | Class 1 | 0 | 0 |
| 460 | Class 1 | 0 | 0 |
| 502 | Class 1 | 0 | 0 |
| 503 | Class 1 | 0 | 0 |
| 510 | Class 1 | 0 | 0 |
| 511 | Class 1 | 0 | 0 |
| 48 | Class 1 | 0 | 0 |
| 49 | Class 1 | 0 | 0 |
| 50 | Class 1 | 0 | 0 |
| 51 | Class 1 | 0 | 0 |
| 76 | Class 1 | 0 | 0 |
| 77 | Class 1 | 0 | 0 |
| 79 | Class 1 | 0 | 0 |
| 81 | Class 1 | 0 | 0 |
| 82 | Class 1 | 0 | 0 |
| 83 | Class 1 | 0 | 0 |
| 84 | Class 1 | 0 | 0 |
| 85 | Class 1 | 0 | 0 |
| 86 | Class 1 | 0 | 0 |
| 87 | Class 1 | 0 | 0 |
| 88 | Class 1 | 0 | 0 |
| 89 | Class 1 | 0 | 0 |
| 90 | Class 1 | 0 | 0 |
| 91 | Class 1 | 0 | 0 |
| 92 | Class 1 | 0 | 0 |
| 93 | Class 1 | 0 | 0 |
| 94 | Class 1 | 0 | 0 |
| 95 | Class 1 | 0 | 0 |
| 96 | Class 1 | 0 | 0 |
| 97 | Class 1 | 0 | 0 |
| 98 | Class 1 | 0 | 0 |
| 99 | Class 1 | 0 | 0 |
| 100 | Class 1 | 0 | 0 |
| 101 | Class 1 | 0 | 0 |
| 125 | Class 1 | 0 | 0 |
| 126 | Class 1 | 0 | 0 |
| 127 | Class 1 | 0 | 0 |
| 128 | Class 1 | 0 | 0 |
| 129 | Class 1 | 0 | 0 |
| 130 | Class 1 | 0 | 0 |
| 131 | Class 1 | 0 | 0 |
| 132 | Class 1 | 0 | 0 |
| 133 | Class 1 | 0 | 0 |
| 134 | Class 1 | 0 | 0 |
| 135 | Class 1 | 0 | 0 |
| 136 | Class 1 | 0 | 0 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 2 of 2, continued)

| UniqueName | Section Class | Conn. V I-End kN | Conn. V J-End kN |
|------------|---------------|------------------|------------------|
| 137 | Class 1 | 0 | 0 |
| 138 | Class 1 | 0 | 0 |
| 139 | Class 1 | 0 | 0 |
| 140 | Class 1 | 0 | 0 |
| 141 | Class 1 | 0 | 0 |
| 142 | Class 1 | 0 | 0 |
| 143 | Class 1 | 0 | 0 |
| 144 | Class 1 | 0 | 0 |
| 145 | Class 1 | 0 | 0 |
| 146 | Class 1 | 0 | 0 |
| 147 | Class 1 | 0 | 0 |
| 149 | Class 1 | 0 | 0 |
| 150 | Class 1 | 0 | 0 |
| 152 | Class 1 | 0 | 0 |
| 153 | Class 1 | 0 | 0 |
| 155 | Class 1 | 0 | 0 |
| 198 | Class 1 | 0 | 0 |
| 199 | Class 1 | 0 | 0 |
| 200 | Class 1 | 0 | 0 |
| 201 | Class 1 | 0 | 0 |
| 202 | Class 1 | 0 | 0 |
| 203 | Class 1 | 0 | 0 |
| 204 | Class 1 | 0 | 0 |
| 205 | Class 1 | 0 | 0 |
| 206 | Class 1 | 0 | 0 |
| 207 | Class 1 | 0 | 0 |
| 208 | Class 1 | 0 | 0 |
| 209 | Class 1 | 0 | 0 |
| 210 | Class 1 | 0 | 0 |
| 211 | Class 1 | 0 | 0 |
| 212 | Class 1 | 0 | 0 |
| 213 | Class 1 | 0 | 0 |
| 214 | Class 1 | 0 | 0 |
| 215 | Class 1 | 0 | 0 |
| 216 | Class 1 | 0 | 0 |
| 217 | Class 1 | 0 | 0 |
| 218 | Class 1 | 0 | 0 |
| 219 | Class 1 | 0 | 0 |
| 220 | Class 1 | 0 | 0 |
| 221 | Class 1 | 0 | 0 |
| 222 | Class 1 | 0 | 0 |
| 223 | Class 1 | 0 | 0 |
| 224 | Class 1 | 0 | 0 |
| 225 | Class 1 | 0 | 0 |
| 249 | Class 1 | 0 | 0 |
| 250 | Class 1 | 0 | 0 |
| 251 | Class 1 | 0 | 0 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 2 of 2, continued)

| UniqueName | Section Class | Conn. V I-End kN | Conn. V J-End kN |
|------------|---------------|------------------|------------------|
| 252 | Class 1 | 0 | 0 |
| 253 | Class 1 | 0 | 0 |
| 254 | Class 1 | 0 | 0 |
| 255 | Class 1 | 0 | 0 |
| 256 | Class 1 | 0 | 0 |
| 257 | Class 1 | 0 | 0 |
| 258 | Class 1 | 0 | 0 |
| 259 | Class 1 | 0 | 0 |
| 260 | Class 1 | 0 | 0 |
| 261 | Class 1 | 0 | 0 |
| 262 | Class 1 | 0 | 0 |
| 263 | Class 1 | 0 | 0 |
| 264 | Class 1 | 0 | 0 |
| 265 | Class 1 | 0 | 0 |
| 266 | Class 1 | 0 | 0 |
| 267 | Class 1 | 0 | 0 |
| 268 | Class 1 | 0 | 0 |
| 269 | Class 1 | 0 | 0 |
| 270 | Class 1 | 0 | 0 |
| 271 | Class 1 | 0 | 0 |
| 272 | Class 1 | 0 | 0 |
| 273 | Class 1 | 0 | 0 |
| 274 | Class 1 | 0 | 0 |
| 283 | Class 1 | 0 | 0 |
| 284 | Class 1 | 0 | 0 |
| 308 | Class 1 | 0 | 0 |
| 309 | Class 1 | 0 | 0 |
| 310 | Class 1 | 0 | 0 |
| 311 | Class 1 | 0 | 0 |
| 312 | Class 1 | 0 | 0 |
| 313 | Class 1 | 0 | 0 |
| 314 | Class 1 | 0 | 0 |
| 315 | Class 1 | 0 | 0 |
| 316 | Class 1 | 0 | 0 |
| 317 | Class 1 | 0 | 0 |
| 318 | Class 1 | 0 | 0 |
| 319 | Class 1 | 0 | 0 |
| 320 | Class 1 | 0 | 0 |
| 321 | Class 1 | 0 | 0 |
| 322 | Class 1 | 0 | 0 |
| 323 | Class 1 | 0 | 0 |
| 324 | Class 1 | 0 | 0 |
| 325 | Class 1 | 0 | 0 |
| 326 | Class 1 | 0 | 0 |
| 327 | Class 1 | 0 | 0 |
| 328 | Class 1 | 0 | 0 |
| 329 | Class 1 | 0 | 0 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 2 of 2, continued)

| UniqueName | Section Class | Conn. V I-End kN | Conn. V J-End kN |
|------------|---------------|------------------|------------------|
| 330 | Class 1 | 0 | 0 |
| 331 | Class 1 | 0 | 0 |
| 332 | Class 1 | 0 | 0 |
| 333 | Class 1 | 0 | 0 |
| 334 | Class 1 | 0 | 0 |
| 335 | Class 1 | 0 | 0 |
| 359 | Class 1 | 0 | 0 |
| 360 | Class 1 | 0 | 0 |
| 361 | Class 1 | 0 | 0 |
| 362 | Class 1 | 0 | 0 |
| 363 | Class 1 | 0 | 0 |
| 364 | Class 1 | 0 | 0 |
| 365 | Class 1 | 0 | 0 |
| 366 | Class 1 | 0 | 0 |
| 367 | Class 1 | 0 | 0 |
| 368 | Class 1 | 0 | 0 |
| 369 | Class 1 | 0 | 0 |
| 370 | Class 1 | 0 | 0 |
| 371 | Class 1 | 0 | 0 |
| 372 | Class 1 | 0 | 0 |
| 373 | Class 1 | 0 | 0 |
| 374 | Class 1 | 0 | 0 |
| 375 | Class 1 | 0 | 0 |
| 376 | Class 1 | 0 | 0 |
| 377 | Class 1 | 0 | 0 |
| 378 | Class 1 | 0 | 0 |
| 379 | Class 1 | 0 | 0 |
| 380 | Class 1 | 0 | 0 |
| 381 | Class 1 | 0 | 0 |
| 382 | Class 1 | 0 | 0 |
| 383 | Class 1 | 0 | 0 |
| 384 | Class 1 | 0 | 0 |
| 385 | Class 1 | 0 | 0 |
| 386 | Class 1 | 0 | 0 |
| 410 | Class 1 | 0 | 0 |
| 411 | Class 1 | 0 | 0 |
| 412 | Class 1 | 0 | 0 |
| 413 | Class 1 | 0 | 0 |
| 414 | Class 1 | 0 | 0 |
| 415 | Class 1 | 0 | 0 |
| 416 | Class 1 | 0 | 0 |
| 417 | Class 1 | 0 | 0 |
| 418 | Class 1 | 0 | 0 |
| 419 | Class 1 | 0 | 0 |
| 420 | Class 1 | 0 | 0 |
| 421 | Class 1 | 0 | 0 |
| 422 | Class 1 | 0 | 0 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 2 of 2, continued)

| UniqueName | Section Class | Conn. V I-End kN | Conn. V J-End kN |
|------------|---------------|------------------|------------------|
| 423 | Class 1 | 0 | 0 |
| 424 | Class 1 | 0 | 0 |
| 425 | Class 1 | 0 | 0 |
| 426 | Class 1 | 0 | 0 |
| 427 | Class 1 | 0 | 0 |
| 428 | Class 1 | 0 | 0 |
| 429 | Class 1 | 0 | 0 |
| 430 | Class 1 | 0 | 0 |
| 431 | Class 1 | 0 | 0 |
| 432 | Class 1 | 0 | 0 |
| 433 | Class 1 | 0 | 0 |
| 434 | Class 1 | 0 | 0 |
| 435 | Class 1 | 0 | 0 |
| 436 | Class 1 | 0 | 0 |
| 437 | Class 1 | 0 | 0 |
| 461 | Class 1 | 0 | 0 |
| 462 | Class 1 | 0 | 0 |
| 463 | Class 1 | 0 | 0 |
| 464 | Class 1 | 0 | 0 |
| 465 | Class 1 | 0 | 0 |
| 466 | Class 1 | 0 | 0 |
| 467 | Class 1 | 0 | 0 |
| 468 | Class 1 | 0 | 0 |
| 469 | Class 1 | 0 | 0 |
| 470 | Class 1 | 0 | 0 |
| 471 | Class 1 | 0 | 0 |
| 472 | Class 1 | 0 | 0 |
| 473 | Class 1 | 0 | 0 |
| 474 | Class 1 | 0 | 0 |
| 475 | Class 1 | 0 | 0 |
| 476 | Class 1 | 0 | 0 |
| 477 | Class 1 | 0 | 0 |
| 478 | Class 1 | 0 | 0 |
| 479 | Class 1 | 0 | 0 |
| 480 | Class 1 | 0 | 0 |
| 481 | Class 1 | 0 | 0 |
| 482 | Class 1 | 0 | 0 |
| 483 | Class 1 | 0 | 0 |
| 484 | Class 1 | 0 | 0 |
| 485 | Class 1 | 0 | 0 |
| 486 | Class 1 | 0 | 0 |
| 487 | Class 1 | 0 | 0 |
| 488 | Class 1 | 0 | 0 |
| 512 | Class 1 | 0 | 0 |
| 513 | Class 1 | 0 | 0 |
| 514 | Class 1 | 0 | 0 |
| 515 | Class 1 | 0 | 0 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 2 of 2, continued)

| UniqueName | Section Class | Conn. V I-End kN | Conn. V J-End kN |
|------------|---------------|------------------|------------------|
| 516 | Class 1 | 0 | 0 |
| 517 | Class 1 | 0 | 0 |
| 518 | Class 1 | 0 | 0 |
| 519 | Class 1 | 0 | 0 |
| 520 | Class 1 | 0 | 0 |
| 521 | Class 1 | 0 | 0 |
| 522 | Class 1 | 0 | 0 |
| 523 | Class 1 | 0 | 0 |
| 524 | Class 1 | 0 | 0 |
| 525 | Class 1 | 0 | 0 |
| 526 | Class 1 | 0 | 0 |
| 527 | Class 1 | 0 | 0 |
| 528 | Class 1 | 0 | 0 |
| 529 | Class 1 | 0 | 0 |
| 530 | Class 1 | 0 | 0 |
| 531 | Class 1 | 0 | 0 |
| 532 | Class 1 | 0 | 0 |
| 533 | Class 1 | 0 | 0 |
| 534 | Class 1 | 0 | 0 |
| 535 | Class 1 | 0 | 0 |
| 536 | Class 1 | 0 | 0 |
| 537 | Class 1 | 0 | 0 |
| 538 | Class 1 | 0 | 0 |
| 539 | Class 1 | 0 | 0 |
| 540 | Class 1 | 0 | 0 |
| 541 | Class 1 | 0 | 0 |
| 542 | Class 1 | 0 | 0 |
| 543 | Class 1 | 0 | 0 |
| 544 | Class 1 | 0 | 0 |
| 545 | Class 1 | 0 | 0 |
| 546 | Class 1 | 0 | 0 |
| 547 | Class 1 | 0 | 0 |
| 548 | Class 1 | 0 | 0 |
| 549 | Class 1 | 0 | 0 |
| 550 | Class 1 | 0 | 0 |
| 551 | Class 1 | 0 | 0 |
| 552 | Class 1 | 0 | 0 |
| 553 | Class 1 | 0 | 0 |
| 554 | Class 1 | 0 | 0 |
| 555 | Class 1 | 0 | 0 |
| 556 | Class 1 | 0 | 0 |
| 557 | Class 1 | 0 | 0 |
| 558 | Class 1 | 0 | 0 |
| 559 | Class 1 | 0 | 0 |
| 560 | Class 1 | 0 | 0 |
| 561 | Class 1 | 0 | 0 |
| 562 | Class 1 | 0 | 0 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 2 of 2, continued)

| UniqueName | Section Class | Conn. V I-End kN | Conn. V J-End kN |
|------------|---------------|------------------|------------------|
| 563 | Class 1 | 0 | 0 |
| 564 | Class 1 | 0 | 0 |
| 565 | Class 1 | 0 | 0 |
| 566 | Class 1 | 0 | 0 |
| 567 | Class 1 | 0 | 0 |
| 568 | Class 1 | 0 | 0 |
| 569 | Class 1 | 0 | 0 |
| 570 | Class 1 | 0 | 0 |
| 571 | Class 1 | 0 | 0 |
| 572 | Class 1 | 0 | 0 |
| 573 | Class 1 | 0 | 0 |
| 574 | Class 1 | 0 | 0 |
| 575 | Class 1 | 0 | 0 |
| 576 | Class 1 | 0 | 0 |
| 577 | Class 1 | 0 | 0 |
| 578 | Class 1 | 0 | 0 |
| 579 | Class 1 | 0 | 0 |
| 580 | Class 1 | 0 | 0 |
| 581 | Class 1 | 0 | 0 |
| 582 | Class 1 | 0 | 0 |
| 583 | Class 1 | 0 | 0 |
| 584 | Class 1 | 0 | 0 |
| 585 | Class 1 | 0 | 0 |
| 586 | Class 1 | 0 | 0 |
| 587 | Class 1 | 0 | 0 |
| 588 | Class 1 | 0 | 0 |
| 589 | Class 1 | 0 | 0 |
| 590 | Class 1 | 0 | 0 |
| 591 | Class 1 | 0 | 0 |
| 592 | Class 1 | 0 | 0 |
| 593 | Class 1 | 0 | 0 |
| 594 | Class 1 | 0 | 0 |
| 595 | Class 1 | 0 | 0 |
| 596 | Class 1 | 0 | 0 |
| 597 | Class 1 | 0 | 0 |
| 598 | Class 1 | 0 | 0 |
| 599 | Class 1 | 0 | 0 |
| 600 | Class 1 | 0 | 0 |
| 601 | Class 1 | 0 | 0 |
| 602 | Class 1 | 0 | 0 |
| 603 | Class 1 | 0 | 0 |
| 604 | Class 1 | 0 | 0 |
| 605 | Class 1 | 0 | 0 |
| 606 | Class 1 | 0 | 0 |
| 607 | Class 1 | 0 | 0 |
| 608 | Class 1 | 0 | 0 |
| 609 | Class 1 | 0 | 0 |

Table 6.4 - Steel Beam Envelope - BS 5950-2000 (Part 2 of 2, continued)

| UniqueName | Section Class | Conn. V I-End kN | Conn. V J-End kN |
|------------|---------------|------------------|------------------|
| 610 | Class 1 | 0 | 0 |
| 611 | Class 1 | 0 | 0 |
| 612 | Class 1 | 0 | 0 |
| 613 | Class 1 | 0 | 0 |
| 614 | Class 1 | 0 | 0 |
| 615 | Class 1 | 0 | 0 |
| 616 | Class 1 | 0 | 0 |
| 617 | Class 1 | 0 | 0 |
| 618 | Class 1 | 0 | 0 |
| 619 | Class 1 | 0 | 0 |
| 620 | Class 1 | 0 | 0 |
| 621 | Class 1 | 0 | 0 |
| 622 | Class 1 | 0 | 0 |
| 623 | Class 1 | 0 | 0 |
| 624 | Class 1 | 0 | 0 |
| 625 | Class 1 | 0 | 0 |
| 626 | Class 1 | 0 | 0 |
| 627 | Class 1 | 0 | 0 |
| 628 | Class 1 | 0 | 0 |
| 629 | Class 1 | 0 | 0 |
| 630 | Class 1 | 0 | 0 |
| 631 | Class 1 | 0 | 0 |
| 632 | Class 1 | 0 | 0 |
| 633 | Class 1 | 0 | 0 |
| 634 | Class 1 | 0 | 0 |
| 635 | Class 1 | 0 | 0 |
| 636 | Class 1 | 0 | 0 |
| 637 | Class 1 | 0 | 0 |
| 638 | Class 1 | 0 | 0 |
| 639 | Class 1 | 0 | 0 |
| 640 | Class 1 | 0 | 0 |
| 641 | Class 1 | 0 | 0 |
| 642 | Class 1 | 0 | 0 |
| 643 | Class 1 | 0 | 0 |

Table 6.5 - Steel Brace Envelope - BS 5950-2000 (Part 1 of 2)

| UniqueName | Story | Label | Design Section | Moment Interaction Check | PMM Combo | V22 Ratio | V33 Ratio |
|------------|--------|-------|----------------|-------------------------------|-----------|-----------|-----------|
| 186 | Story2 | D1 | RHS 40*40,3MM | 0.153 = 0.084 + 0.005 + 0.063 | DStIS2 | 0.001 | 0.0003445 |
| 187 | Story2 | D2 | RHS 40*40,3MM | 0.202 = 0.098 + 0.009 + 0.095 | DStIS2 | 0.001 | 0.003 |
| 188 | Story2 | D3 | RHS 40*40,3MM | 0.227 = 0.077 + 0.01 + 0.14 | DStIS2 | 0.001 | 0.009 |
| 189 | Story2 | D4 | RHS 40*40,3MM | 0.227 = 0.077 + 0.01 + 0.14 | DStIS2 | 0.001 | 0.009 |
| 190 | Story2 | D5 | RHS 40*40,3MM | 0.201 = 0.098 + 0.009 + 0.094 | DStIS2 | 0.001 | 0.003 |
| 191 | Story2 | D6 | RHS 40*40,3MM | 0.152 = 0.084 + 0.005 + 0.063 | DStIS2 | 0.001 | 0.0003392 |
| 117 | Story2 | D7 | RHS 40*40,3MM | 0.247 = 0.224 + 0.007 + 0.015 | DStIS3 | 0.001 | 0.0004561 |
| 118 | Story2 | D8 | RHS 40*40,3MM | 0.292 = 0.257 + 0.018 + 0.017 | DStIS3 | 0.002 | 0.001 |
| 119 | Story2 | D9 | RHS 40*40,3MM | 0.326 = 0.29 + 0.022 + 0.014 | DStIS3 | 0.002 | 0.002 |

Table 6.5 - Steel Brace Envelope - BS 5950-2000 (Part 1 of 2, continued)

| UniqueName | Story | Label | Design Section | Moment Interaction Check | PMM Combo | V22 Ratio | V33 Ratio |
|------------|--------|-------|----------------|-------------------------------------|-----------|-----------|-----------|
| 120 | Story2 | D10 | RHS 40*40,3MM | $0.318 = 0.279 + 0.022 + 0.017$ | DStiS2 | 0.002 | 0.002 |
| 121 | Story2 | D11 | RHS 40*40,3MM | $0.287 = 0.247 + 0.018 + 0.021$ | DStiS2 | 0.002 | 0.001 |
| 122 | Story2 | D12 | RHS 40*40,3MM | $0.242 = 0.216 + 0.008 + 0.018$ | DStiS2 | 0.001 | 0.0004549 |
| 179 | Story2 | D13 | RHS 40*40,3MM | $0.21 = 0.202 + 0.006 + 0.002$ | DStiS3 | 0.001 | 0.0001494 |
| 180 | Story2 | D14 | RHS 40*40,3MM | $0.25 = 0.233 + 0.014 + 0.003$ | DStiS3 | 0.002 | 0.00014 |
| 182 | Story2 | D15 | RHS 40*40,3MM | $0.288 = 0.265 + 0.02 + 0.003$ | DStiS3 | 0.002 | 0.0003058 |
| 183 | Story2 | D16 | RHS 40*40,3MM | $0.272 = 0.248 + 0.019 + 0.004$ | DStiS2 | 0.002 | 0.0003035 |
| 193 | Story2 | D17 | RHS 40*40,3MM | $0.235 = 0.218 + 0.013 + 0.003$ | DStiS2 | 0.002 | 0.0001392 |
| 195 | Story2 | D18 | RHS 40*40,3MM | $0.197 = 0.189 + 0.005 + 0.003$ | DStiS2 | 0.001 | 0.0001455 |
| 241 | Story2 | D19 | RHS 40*40,3MM | $0.213 = 0.207 + 0.006 + 0$ | DStiS3 | 0.001 | 0.0001862 |
| 242 | Story2 | D20 | RHS 40*40,3MM | $0.253 = 0.238 + 0.014 + 3.028E-04$ | DStiS3 | 0.002 | 0.0001224 |
| 243 | Story2 | D21 | RHS 40*40,3MM | $0.291 = 0.27 + 0.02 + 0.001$ | DStiS3 | 0.002 | 0 |
| 244 | Story2 | D22 | RHS 40*40,3MM | $0.275 = 0.255 + 0.02 + 0.001$ | DStiS2 | 0.002 | 0 |
| 245 | Story2 | D23 | RHS 40*40,3MM | $0.239 = 0.225 + 0.014 + 0.001$ | DStiS2 | 0.002 | 0.0001229 |
| 246 | Story2 | D24 | RHS 40*40,3MM | $0.2 = 0.195 + 0.006 + 0$ | DStiS2 | 0.001 | 0.0001847 |
| 300 | Story2 | D25 | RHS 40*40,3MM | $0.21 = 0.203 + 0.006 + 0$ | DStiS3 | 0.001 | 0.0001194 |
| 301 | Story2 | D26 | RHS 40*40,3MM | $0.25 = 0.236 + 0.014 + 0$ | DStiS3 | 0.002 | 0.0001182 |
| 302 | Story2 | D27 | RHS 40*40,3MM | $0.287 = 0.267 + 0.02 + 0$ | DStiS3 | 0.002 | 0 |
| 303 | Story2 | D28 | RHS 40*40,3MM | $0.271 = 0.252 + 0.019 + 0$ | DStiS2 | 0.002 | 0 |
| 304 | Story2 | D29 | RHS 40*40,3MM | $0.235 = 0.222 + 0.013 + 0$ | DStiS2 | 0.002 | 0.000117 |
| 305 | Story2 | D30 | RHS 40*40,3MM | $0.197 = 0.191 + 0.006 + 0$ | DStiS2 | 0.001 | 0.0001176 |
| 351 | Story2 | D31 | RHS 40*40,3MM | $0.213 = 0.207 + 0.006 + 0$ | DStiS3 | 0.001 | 0.000182 |
| 352 | Story2 | D32 | RHS 40*40,3MM | $0.253 = 0.238 + 0.014 + 2.885E-04$ | DStiS3 | 0.002 | 0.0001216 |
| 353 | Story2 | D33 | RHS 40*40,3MM | $0.291 = 0.27 + 0.02 + 0.001$ | DStiS3 | 0.002 | 0 |
| 354 | Story2 | D34 | RHS 40*40,3MM | $0.275 = 0.255 + 0.02 + 0.001$ | DStiS2 | 0.002 | 0 |
| 355 | Story2 | D35 | RHS 40*40,3MM | $0.239 = 0.225 + 0.014 + 0.001$ | DStiS2 | 0.002 | 0.0001211 |
| 356 | Story2 | D36 | RHS 40*40,3MM | $0.2 = 0.195 + 0.006 + 0$ | DStiS2 | 0.001 | 0.0001822 |
| 402 | Story2 | D37 | RHS 40*40,3MM | $0.21 = 0.202 + 0.006 + 0.002$ | DStiS3 | 0.001 | 0.0001426 |
| 403 | Story2 | D38 | RHS 40*40,3MM | $0.25 = 0.233 + 0.014 + 0.003$ | DStiS3 | 0.002 | 0.0001373 |
| 404 | Story2 | D39 | RHS 40*40,3MM | $0.288 = 0.265 + 0.02 + 0.003$ | DStiS3 | 0.002 | 0.0003054 |
| 405 | Story2 | D40 | RHS 40*40,3MM | $0.272 = 0.248 + 0.019 + 0.004$ | DStiS2 | 0.002 | 0.0003043 |
| 406 | Story2 | D41 | RHS 40*40,3MM | $0.235 = 0.218 + 0.013 + 0.003$ | DStiS2 | 0.002 | 0.0001354 |
| 407 | Story2 | D42 | RHS 40*40,3MM | $0.197 = 0.189 + 0.005 + 0.003$ | DStiS2 | 0.001 | 0.0001402 |
| 453 | Story2 | D43 | RHS 40*40,3MM | $0.247 = 0.224 + 0.007 + 0.015$ | DStiS3 | 0.001 | 0.0004478 |
| 454 | Story2 | D44 | RHS 40*40,3MM | $0.292 = 0.257 + 0.018 + 0.017$ | DStiS3 | 0.002 | 0.001 |
| 455 | Story2 | D45 | RHS 40*40,3MM | $0.326 = 0.29 + 0.022 + 0.014$ | DStiS3 | 0.002 | 0.002 |
| 456 | Story2 | D46 | RHS 40*40,3MM | $0.318 = 0.279 + 0.022 + 0.017$ | DStiS2 | 0.002 | 0.002 |
| 457 | Story2 | D47 | RHS 40*40,3MM | $0.287 = 0.247 + 0.018 + 0.021$ | DStiS2 | 0.002 | 0.001 |
| 458 | Story2 | D48 | RHS 40*40,3MM | $0.242 = 0.216 + 0.008 + 0.018$ | DStiS2 | 0.001 | 0.0004484 |
| 504 | Story2 | D49 | RHS 40*40,3MM | $0.153 = 0.084 + 0.005 + 0.063$ | DStiS2 | 0.001 | 0.0003345 |
| 505 | Story2 | D50 | RHS 40*40,3MM | $0.202 = 0.098 + 0.009 + 0.095$ | DStiS2 | 0.001 | 0.003 |
| 506 | Story2 | D51 | RHS 40*40,3MM | $0.227 = 0.077 + 0.01 + 0.14$ | DStiS2 | 0.001 | 0.009 |
| 507 | Story2 | D52 | RHS 40*40,3MM | $0.227 = 0.077 + 0.01 + 0.14$ | DStiS2 | 0.001 | 0.009 |
| 508 | Story2 | D53 | RHS 40*40,3MM | $0.201 = 0.098 + 0.009 + 0.094$ | DStiS2 | 0.001 | 0.003 |
| 509 | Story2 | D54 | RHS 40*40,3MM | $0.152 = 0.084 + 0.005 + 0.063$ | DStiS2 | 0.001 | 0.0003308 |

Table 6.5 - Steel Brace Envelope - BS 5950-2000 (Part 2 of 2)

| UniqueName | Section Class | Conn. P I-End kN | Conn. P J-End kN |
|------------|---------------|------------------|------------------|
| 186 | Class 1 | 0 | 0 |
| 187 | Class 1 | 0 | 0 |
| 188 | Class 1 | 0 | 0 |
| 189 | Class 1 | 0 | 0 |
| 190 | Class 1 | 0 | 0 |
| 191 | Class 1 | 0 | 0 |
| 117 | Class 1 | 0 | 0 |
| 118 | Class 1 | 0 | 0 |
| 119 | Class 1 | 0 | 0 |
| 120 | Class 1 | 0 | 0 |
| 121 | Class 1 | 0 | 0 |
| 122 | Class 1 | 0 | 0 |
| 179 | Class 1 | 0 | 0 |
| 180 | Class 1 | 0 | 0 |
| 182 | Class 1 | 0 | 0 |
| 183 | Class 1 | 0 | 0 |
| 193 | Class 1 | 0 | 0 |
| 195 | Class 1 | 0 | 0 |
| 241 | Class 1 | 0 | 0 |
| 242 | Class 1 | 0 | 0 |
| 243 | Class 1 | 0 | 0 |
| 244 | Class 1 | 0 | 0 |
| 245 | Class 1 | 0 | 0 |
| 246 | Class 1 | 0 | 0 |
| 300 | Class 1 | 0 | 0 |
| 301 | Class 1 | 0 | 0 |
| 302 | Class 1 | 0 | 0 |
| 303 | Class 1 | 0 | 0 |
| 304 | Class 1 | 0 | 0 |
| 305 | Class 1 | 0 | 0 |
| 351 | Class 1 | 0 | 0 |
| 352 | Class 1 | 0 | 0 |
| 353 | Class 1 | 0 | 0 |
| 354 | Class 1 | 0 | 0 |
| 355 | Class 1 | 0 | 0 |
| 356 | Class 1 | 0 | 0 |
| 402 | Class 1 | 0 | 0 |
| 403 | Class 1 | 0 | 0 |
| 404 | Class 1 | 0 | 0 |
| 405 | Class 1 | 0 | 0 |
| 406 | Class 1 | 0 | 0 |
| 407 | Class 1 | 0 | 0 |
| 453 | Class 1 | 0 | 0 |
| 454 | Class 1 | 0 | 0 |
| 455 | Class 1 | 0 | 0 |
| 456 | Class 1 | 0 | 0 |
| 457 | Class 1 | 0 | 0 |

Table 6.5 - Steel Brace Envelope - BS 5950-2000 (Part 2 of 2, continued)

| UniqueName | Section Class | Conn. P I-End kN | Conn. P J-End kN |
|------------|---------------|------------------|------------------|
| 458 | Class 1 | 0 | 0 |
| 504 | Class 1 | 0 | 0 |
| 505 | Class 1 | 0 | 0 |
| 506 | Class 1 | 0 | 0 |
| 507 | Class 1 | 0 | 0 |
| 508 | Class 1 | 0 | 0 |
| 509 | Class 1 | 0 | 0 |

6.2 Concrete Frame Design

Table 6.6 - Concrete Frame Design Preferences - BS 8110-97

| Item | Value |
|---------------------------------------|--------------------|
| Multi-Response Design | Step-by-Step - All |
| # Interaction Curves | 24 |
| # Interaction Points | 11 |
| Minimum Eccentricity? | Yes |
| Ignore Beneficial Pu for Beam Design? | Yes |
| Gamma (Steel) | 1.15 |
| Gamma (Concrete) | 1.5 |
| Gamma (Concrete Shear) | 1.25 |
| Pattern Live Load Factor | 0.75 |
| Utilization Factor Limit | 1 |

Table 6.7 - Concrete Column Overwrites - BS 8110-97 (Part 1 of 2)

| Story | Label | Unique Name | Design Type | Design Section | Frame Type | LLRF | Unbraced Length Ratio (Major) | Unbraced Length Ratio (Minor) |
|--------|-------|-------------|-------------|--------------------|--------------------|------|-------------------------------|-------------------------------|
| Story2 | C1 | 53 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | C2 | 44 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | C3 | 57 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | C4 | 59 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | C5 | 61 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | C6 | 63 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | C7 | 65 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | C8 | 67 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | C9 | 69 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | C10 | 71 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | C11 | 78 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | C12 | 75 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | C1 | 52 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | C2 | 54 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | C3 | 56 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | C4 | 58 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | C5 | 60 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | C6 | 62 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | C7 | 64 | Column | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | C8 | 66 | Column | Program Determined | Program Determined | 0 | 0 | 0 |

Table 6.8 - Concrete Beam Overwrites - BS 8110-97 (Part 1 of 2)

| Story | Label | Unique Name | Design Type | Design Section | Frame Type | LLRF | Unbraced Length Ratio (Major) | Unbraced Length Ratio (Minor) |
|--------|-------|-------------|-------------|--------------------|--------------------|------|-------------------------------|-------------------------------|
| Story2 | B1 | 38 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | B3 | 46 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | B5 | 43 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | B7 | 40 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | B8 | 39 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | B9 | 45 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | B15 | 42 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | B17 | 37 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | B18 | 26 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | B20 | 41 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | B21 | 55 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story2 | B22 | 73 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B1 | 23 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B2 | 659 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B3 | 24 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B4 | 651 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B5 | 25 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B7 | 27 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B8 | 35 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B9 | 28 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B10 | 649 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B11 | 661 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B14 | 662 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B15 | 29 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B16 | 645 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B17 | 34 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B18 | 33 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B19 | 647 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B20 | 30 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B21 | 31 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Story1 | B22 | 32 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Base | B1 | 1 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Base | B2 | 2 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Base | B3 | 3 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Base | B4 | 4 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Base | B5 | 5 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Base | B6 | 6 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Base | B7 | 7 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Base | B8 | 8 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Base | B9 | 9 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Base | B10 | 10 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Base | B11 | 11 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Base | B12 | 12 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Base | B13 | 13 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Base | B14 | 14 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Base | B15 | 15 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |
| Base | B16 | 16 | Beam | Program Determined | Program Determined | 0 | 0 | 0 |

Table 6.9 - Concrete Column PMM Envelope - BS 8110-97 (continued)

| Story | Label | UniqueName | Section | Location | P kN | M Major kN-m | M Minor kN-m | PMM Combo | PMM Ratio or Rebar % |
|--------|-------|------------|----------|----------|----------|-----------------|--------------------|--------------|-------------------------------|
| Story1 | C1 | 52 | COL25*25 | Top | 61.0684 | 28.1437 | -12.4399 | DConS14 | 1.72 % |
| Story1 | C1 | 52 | COL25*25 | Bottom | 67.4103 | -33.9014 | 6.9995 | DConS14 | 1.9 % |
| Story1 | C2 | 54 | COL25*25 | Top | 177.876 | -20.3401 | -5.2977 | DConS17 | 0.53 % |
| Story1 | C2 | 54 | COL25*25 | Bottom | 255.3612 | 34.3577 | 4.3567 | DConS13 | 1.48 % |
| Story1 | C3 | 56 | COL25*25 | Top | 61.6372 | -28.7324 | -12.3547 | DConS13 | 1.75 % |
| Story1 | C3 | 56 | COL25*25 | Bottom | 67.9791 | 36.4732 | 6.8771 | DConS13 | 2.17 % |
| Story1 | C4 | 58 | COL25*25 | Top | 42.7619 | 0.5345 | 14.6318 | DConS20 | 0.72 % |
| Story1 | C4 | 58 | COL25*25 | Bottom | 65.9129 | 7.7286 | -21.7711 | DConS16 | 1.05 % |
| Story1 | C5 | 60 | COL25*25 | Top | 39.6072 | -0.4951 | 12.6973 | DConS20 | 0.63 % |
| Story1 | C5 | 60 | COL25*25 | Bottom | 61.7921 | 8.5932 | -20.375 | DConS16 | 0.97 % |
| Story1 | C6 | 62 | COL25*25 | Top | 67.4596 | 9.018 | 15.5698 | DConS16 | 0.78 % |
| Story1 | C6 | 62 | COL25*25 | Bottom | 73.8015 | -7.8675 | -22.1362 | DConS16 | 1.05 % |
| Story1 | C7 | 64 | COL25*25 | Top | 63.493 | 9.5208 | -13.1058 | DConS15 | 0.71 % |
| Story1 | C7 | 64 | COL25*25 | Bottom | 69.8349 | -8.8725 | 20.8184 | DConS15 | 0.99 % |
| Story1 | C8 | 66 | COL25*25 | Top | 67.4676 | 8.9944 | -15.6244 | DConS15 | 0.78 % |
| Story1 | C8 | 66 | COL25*25 | Bottom | 73.8095 | -7.8545 | 22.2232 | DConS15 | 1.06 % |
| Story1 | C9 | 68 | COL25*25 | Top | 42.7623 | 0.5345 | -14.6017 | DConS19 | 0.72 % |
| Story1 | C9 | 68 | COL25*25 | Bottom | 65.9125 | 7.7222 | 21.7082 | DConS15 | 1.04 % |
| Story1 | C10 | 70 | COL25*25 | Top | 61.3548 | 29.7811 | 12.7708 | DConS14 | 1.81 % |
| Story1 | C10 | 70 | COL25*25 | Bottom | 67.6967 | -35.1856 | -7.7395 | DConS14 | 2.06 % |
| Story1 | C11 | 72 | COL25*25 | Top | 178.7128 | -18.6011 | 5.2036 | DConS17 | 0.4 % |
| Story1 | C11 | 72 | COL25*25 | Bottom | 256.5379 | 33.8523 | -4.2495 | DConS13 | 1.43 % |
| Story1 | C12 | 74 | COL25*25 | Top | 61.9891 | -30.6703 | 12.8023 | DConS13 | 1.88 % |
| Story1 | C12 | 74 | COL25*25 | Bottom | 68.331 | 37.9854 | -7.8422 | DConS13 | 2.34 % |
| Story1 | C13 | 280 | COL25*25 | Top | 48.5977 | -17.8955 | 1.8221 | DConS13 | 0.83 % |
| Story1 | C13 | 280 | COL25*25 | Bottom | 40.963 | 18.2505 | -0.8179 | DConS17 | 0.85 % |
| Story1 | C14 | 276 | COL25*25 | Top | 48.4173 | -17.5496 | -1.8227 | DConS13 | 0.82 % |
| Story1 | C14 | 276 | COL25*25 | Bottom | 40.7958 | 17.8343 | 0.8813 | DConS17 | 0.84 % |
| Story1 | C16 | 278 | COL25*25 | Top | 44.325 | -15.622 | -0.5541 | DConS13 | 0.76 % |
| Story1 | C16 | 278 | COL25*25 | Bottom | 26.9144 | -14.142 | -0.5094 | DConS18 | 0.75 % |

Table 6.10 - Concrete Column Shear Envelope - BS 8110-97

| Story | Label | UniqueName | Section | Location | V Major kN | V Major Combo | At Major mm2/m | V Minor kN | V Minor Combo | At Minor mm2/m |
|--------|-------|------------|----------|----------|---------------|------------------|----------------------|---------------|------------------|----------------------|
| Story2 | C1 | 53 | COL25*25 | Top | 30.6966 | DConS14 | 720.44 | 1.0184 | DConS20 | 460 |
| Story2 | C1 | 53 | COL25*25 | Bottom | 30.6966 | DConS14 | 720.44 | 1.0184 | DConS20 | 460 |
| Story2 | C2 | 44 | COL25*25 | Top | 0.9895 | DConS20 | 460 | 8.013 | DConS20 | 460 |
| Story2 | C2 | 44 | COL25*25 | Bottom | 0.9895 | DConS20 | 460 | 8.013 | DConS20 | 460 |
| Story2 | C3 | 57 | COL25*25 | Top | 32.5785 | DConS13 | 764.61 | 1.3379 | DConS20 | 460 |
| Story2 | C3 | 57 | COL25*25 | Bottom | 32.5785 | DConS13 | 764.61 | 1.3379 | DConS20 | 460 |
| Story2 | C4 | 59 | COL25*25 | Top | 1.5103 | DConS20 | 460 | 11.7878 | DConS20 | 460 |
| Story2 | C4 | 59 | COL25*25 | Bottom | 1.5103 | DConS20 | 460 | 11.7878 | DConS20 | 460 |
| Story2 | C5 | 61 | COL25*25 | Top | 1.0364 | DConS20 | 460 | 10.766 | DConS20 | 460 |
| Story2 | C5 | 61 | COL25*25 | Bottom | 1.0364 | DConS20 | 460 | 10.766 | DConS20 | 460 |
| Story2 | C6 | 63 | COL25*25 | Top | 2.9905 | DConS20 | 460 | 12.2535 | DConS20 | 460 |
| Story2 | C6 | 63 | COL25*25 | Bottom | 2.9905 | DConS20 | 460 | 12.2535 | DConS20 | 460 |

Table 6.10 - Concrete Column Shear Envelope - BS 8110-97 (continued)

| Story | Label | UniqueName | Section | Location | V Major kN | V Major Combo | At Major mm2/m | V Minor kN | V Minor Combo | At Minor mm2/m |
|--------|-------|------------|----------|----------|---------------|------------------|----------------------|---------------|------------------|----------------------|
| Story2 | C7 | 65 | COL25*25 | Top | 2.792 | DConS20 | 460 | 11.199 | DConS20 | 460 |
| Story2 | C7 | 65 | COL25*25 | Bottom | 2.792 | DConS20 | 460 | 11.199 | DConS20 | 460 |
| Story2 | C8 | 67 | COL25*25 | Top | 2.9387 | DConS20 | 460 | 11.4826 | DConS20 | 460 |
| Story2 | C8 | 67 | COL25*25 | Bottom | 2.9387 | DConS20 | 460 | 11.4826 | DConS20 | 460 |
| Story2 | C9 | 69 | COL25*25 | Top | 1.2098 | DConS20 | 460 | 11.0231 | DConS20 | 460 |
| Story2 | C9 | 69 | COL25*25 | Bottom | 1.2098 | DConS20 | 460 | 11.0231 | DConS20 | 460 |
| Story2 | C10 | 71 | COL25*25 | Top | 29.5011 | DConS14 | 692.38 | 15.5744 | DConS20 | 460 |
| Story2 | C10 | 71 | COL25*25 | Bottom | 29.5011 | DConS14 | 692.38 | 15.5744 | DConS20 | 460 |
| Story2 | C12 | 75 | COL25*25 | Top | 31.1729 | DConS13 | 731.62 | 15.2767 | DConS20 | 460 |
| Story2 | C12 | 75 | COL25*25 | Bottom | 31.1729 | DConS13 | 731.62 | 15.2767 | DConS20 | 460 |
| Story1 | C1 | 52 | COL25*25 | Top | 6.2931 | DConS20 | 460 | 4.6249 | DConS20 | 460 |
| Story1 | C1 | 52 | COL25*25 | Bottom | 6.2931 | DConS20 | 460 | 4.6249 | DConS20 | 460 |
| Story1 | C2 | 54 | COL25*25 | Top | 0.3929 | DConS20 | 460 | 0.6568 | DConS20 | 460 |
| Story1 | C2 | 54 | COL25*25 | Bottom | 0.3929 | DConS20 | 460 | 0.6568 | DConS20 | 460 |
| Story1 | C3 | 56 | COL25*25 | Top | 6.6394 | DConS20 | 460 | 4.5647 | DConS20 | 460 |
| Story1 | C3 | 56 | COL25*25 | Bottom | 6.6394 | DConS20 | 460 | 4.5647 | DConS20 | 460 |
| Story1 | C4 | 58 | COL25*25 | Top | 0.7679 | DConS20 | 460 | 11.9075 | DConS20 | 460 |
| Story1 | C4 | 58 | COL25*25 | Bottom | 0.7679 | DConS20 | 460 | 11.9075 | DConS20 | 460 |
| Story1 | C5 | 60 | COL25*25 | Top | 1.1645 | DConS20 | 460 | 10.9059 | DConS20 | 460 |
| Story1 | C5 | 60 | COL25*25 | Bottom | 1.1645 | DConS20 | 460 | 10.9059 | DConS20 | 460 |
| Story1 | C6 | 62 | COL25*25 | Top | 3.6561 | DConS20 | 460 | 12.051 | DConS20 | 460 |
| Story1 | C6 | 62 | COL25*25 | Bottom | 3.6561 | DConS20 | 460 | 12.051 | DConS20 | 460 |
| Story1 | C7 | 64 | COL25*25 | Top | 4.016 | DConS20 | 460 | 11.0347 | DConS20 | 460 |
| Story1 | C7 | 64 | COL25*25 | Bottom | 4.016 | DConS20 | 460 | 11.0347 | DConS20 | 460 |
| Story1 | C8 | 66 | COL25*25 | Top | 3.4689 | DConS20 | 460 | 10.7079 | DConS20 | 460 |
| Story1 | C8 | 66 | COL25*25 | Bottom | 3.4689 | DConS20 | 460 | 10.7079 | DConS20 | 460 |
| Story1 | C9 | 68 | COL25*25 | Top | 1.3287 | DConS20 | 460 | 10.5375 | DConS20 | 460 |
| Story1 | C9 | 68 | COL25*25 | Bottom | 1.3287 | DConS20 | 460 | 10.5375 | DConS20 | 460 |
| Story1 | C10 | 70 | COL25*25 | Top | 5.6797 | DConS20 | 460 | 13.674 | DConS20 | 460 |
| Story1 | C10 | 70 | COL25*25 | Bottom | 5.6797 | DConS20 | 460 | 13.674 | DConS20 | 460 |
| Story1 | C11 | 72 | COL25*25 | Top | 0.9844 | DConS20 | 460 | 2.5747 | DConS20 | 460 |
| Story1 | C11 | 72 | COL25*25 | Bottom | 0.9844 | DConS20 | 460 | 2.5747 | DConS20 | 460 |
| Story1 | C12 | 74 | COL25*25 | Top | 7.2406 | DConS20 | 460 | 13.5845 | DConS20 | 460 |
| Story1 | C12 | 74 | COL25*25 | Bottom | 7.2406 | DConS20 | 460 | 13.5845 | DConS20 | 460 |
| Story1 | C13 | 280 | COL25*25 | Top | 1.5586 | DConS20 | 460 | 8.5645 | DConS20 | 460 |
| Story1 | C13 | 280 | COL25*25 | Bottom | 1.5586 | DConS20 | 460 | 8.5645 | DConS20 | 460 |
| Story1 | C14 | 276 | COL25*25 | Top | 1.776 | DConS20 | 460 | 7.8793 | DConS20 | 460 |
| Story1 | C14 | 276 | COL25*25 | Bottom | 1.776 | DConS20 | 460 | 7.8793 | DConS20 | 460 |
| Story1 | C16 | 278 | COL25*25 | Top | 1.2608 | DConS20 | 460 | 6.762 | DConS20 | 460 |
| Story1 | C16 | 278 | COL25*25 | Bottom | 1.2608 | DConS20 | 460 | 6.762 | DConS20 | 460 |

Table 6.11 - Concrete Beam Flexure Envelope - BS 8110-97

| Story | Label | UniqueName | Section | Location | (-) Moment kN-m | (-) Combo | As Top mm2 | (+) Moment kN-m | (+) Combo | As Bot mm2 |
|--------|-------|------------|------------|----------|-----------------------|--------------|---------------|-----------------------|--------------|---------------|
| Story2 | B1 | 38 | BEAM 25*30 | End-I | 0 | DConS10 | 673 | 0 | DConS9 | 490 |
| Story2 | B1 | 38 | BEAM 25*30 | Middle | 0 | DConS2 | 391 | 0 | DConS2 | 630 |
| Story2 | B1 | 38 | BEAM 25*30 | End-J | 0 | DConS13 | 825 | 0 | DConS2 | 391 |

Table 6.11 - Concrete Beam Flexure Envelope - BS 8110-97 (continued)

| Story | Label | UniqueName | Section | Location | (-) Moment kN-m | (-) Combo | As Top mm2 | (+) Moment kN-m | (+) Combo | As Bot mm2 |
|--------|-------|------------|------------|----------|-----------------|-----------|------------|-----------------|-----------|------------|
| Story2 | B3 | 46 | BEAM 25*30 | End-I | 0 | DConS12 | 406 | 0 | DConS2 | 209 |
| Story2 | B3 | 46 | BEAM 25*30 | Middle | 0 | DConS2 | 197 | 0 | DConS2 | 364 |
| Story2 | B3 | 46 | BEAM 25*30 | End-J | 0 | DConS15 | 299 | 0 | DConS12 | 185 |
| Story2 | B5 | 43 | BEAM 25*30 | End-I | 0 | DConS14 | 789 | 0 | DConS3 | 394 |
| Story2 | B5 | 43 | BEAM 25*30 | Middle | 0 | DConS3 | 394 | 0 | DConS2 | 628 |
| Story2 | B5 | 43 | BEAM 25*30 | End-J | 0 | DConS13 | 710 | 0 | DConS10 | 460 |
| Story2 | B7 | 40 | BEAM 25*30 | End-I | 0 | DConS12 | 405 | 0 | DConS2 | 211 |
| Story2 | B7 | 40 | BEAM 25*30 | Middle | 0 | DConS2 | 199 | 0 | DConS2 | 367 |
| Story2 | B7 | 40 | BEAM 25*30 | End-J | 0 | DConS15 | 296 | 0 | DConS12 | 183 |
| Story2 | B8 | 39 | BEAM 25*30 | End-I | 0 | DConS2 | 442 | 0 | DConS2 | 273 |
| Story2 | B8 | 39 | BEAM 25*30 | Middle | 0 | DConS2 | 257 | 0 | DConS2 | 416 |
| Story2 | B8 | 39 | BEAM 25*30 | End-J | 0 | DConS2 | 433 | 0 | DConS2 | 238 |
| Story2 | B9 | 45 | BEAM 25*30 | End-I | 0 | DConS2 | 439 | 0 | DConS2 | 271 |
| Story2 | B9 | 45 | BEAM 25*30 | Middle | 0 | DConS2 | 254 | 0 | DConS2 | 413 |
| Story2 | B9 | 45 | BEAM 25*30 | End-J | 0 | DConS2 | 431 | 0 | DConS2 | 235 |
| Story2 | B15 | 42 | BEAM 25*30 | End-I | 0 | DConS2 | 430 | 0 | DConS2 | 236 |
| Story2 | B15 | 42 | BEAM 25*30 | Middle | 0 | DConS2 | 254 | 0 | DConS2 | 413 |
| Story2 | B15 | 42 | BEAM 25*30 | End-J | 0 | DConS2 | 440 | 0 | DConS2 | 270 |
| Story2 | B17 | 37 | BEAM 25*30 | End-I | 0 | DConS2 | 433 | 0 | DConS2 | 238 |
| Story2 | B17 | 37 | BEAM 25*30 | Middle | 0 | DConS2 | 257 | 0 | DConS2 | 416 |
| Story2 | B17 | 37 | BEAM 25*30 | End-J | 0 | DConS2 | 442 | 0 | DConS2 | 273 |
| Story2 | B18 | 26 | BEAM 25*30 | End-I | 0 | DConS16 | 297 | 0 | DConS11 | 183 |
| Story2 | B18 | 26 | BEAM 25*30 | Middle | 0 | DConS2 | 200 | 0 | DConS2 | 367 |
| Story2 | B18 | 26 | BEAM 25*30 | End-J | 0 | DConS11 | 405 | 0 | DConS2 | 211 |
| Story2 | B20 | 41 | BEAM 25*30 | End-I | 0 | DConS16 | 299 | 0 | DConS11 | 185 |
| Story2 | B20 | 41 | BEAM 25*30 | Middle | 0 | DConS2 | 197 | 0 | DConS2 | 364 |
| Story2 | B20 | 41 | BEAM 25*30 | End-J | 0 | DConS11 | 407 | 0 | DConS2 | 208 |
| Story2 | B21 | 55 | BEAM 25*30 | End-I | 0 | DConS10 | 666 | 0 | DConS9 | 472 |
| Story2 | B21 | 55 | BEAM 25*30 | Middle | 0 | DConS2 | 391 | 0 | DConS2 | 627 |
| Story2 | B21 | 55 | BEAM 25*30 | End-J | 0 | DConS13 | 852 | 0 | DConS2 | 391 |
| Story2 | B22 | 73 | BEAM 25*30 | End-I | 0 | DConS14 | 811 | 0 | DConS9 | 405 |
| Story2 | B22 | 73 | BEAM 25*30 | Middle | 0 | DConS3 | 395 | 0 | DConS2 | 631 |
| Story2 | B22 | 73 | BEAM 25*30 | End-J | 0 | DConS9 | 701 | 0 | DConS10 | 445 |
| Story2 | C11 | 78 | BEAM 25*30 | End-I | 0 | DConS18 | 329 | 0 | DConS13 | 386 |
| Story2 | C11 | 78 | BEAM 25*30 | Middle | 0 | DConS18 | 16 | 0 | DConS20 | 126 |
| Story2 | C11 | 78 | BEAM 25*30 | End-J | 0 | DConS13 | 336 | 0 | DConS18 | 293 |
| Story1 | B1 | 23 | BEAM 25*30 | End-I | 0 | DConS14 | 877 | 0 | DConS13 | 317 |
| Story1 | B1 | 23 | BEAM 25*30 | Middle | 0 | DConS17 | 150 | 0 | DConS13 | 576 |
| Story1 | B1 | 23 | BEAM 25*30 | End-J | 0 | DConS13 | 1237 | 0 | DConS13 | 268 |
| Story1 | B2 | 659 | BEAM 25*30 | End-I | 0 | DConS14 | 382 | 0 | DConS13 | 160 |
| Story1 | B2 | 659 | BEAM 25*30 | Middle | 0 | DConS18 | 150 | 0 | DConS13 | 189 |
| Story1 | B2 | 659 | BEAM 25*30 | End-J | 0 | DConS13 | 204 | 0 | DConS14 | 150 |
| Story1 | B3 | 24 | BEAM 25*30 | End-I | 0 | DConS16 | 813 | 0 | DConS20 | 126 |
| Story1 | B3 | 24 | BEAM 25*30 | Middle | 0 | DConS12 | 10 | 0 | DConS16 | 401 |
| Story1 | B3 | 24 | BEAM 25*30 | End-J | 0 | DConS15 | 538 | 0 | DConS16 | 280 |
| Story1 | B4 | 651 | BEAM 25*30 | End-I | 0 | DConS16 | 227 | 0 | DConS20 | 126 |
| Story1 | B4 | 651 | BEAM 25*30 | Middle | 0 | DConS19 | 150 | 0 | DConS16 | 179 |
| Story1 | B4 | 651 | BEAM 25*30 | End-J | 0 | DConS15 | 244 | 0 | DConS16 | 187 |

Table 6.11 - Concrete Beam Flexure Envelope - BS 8110-97 (continued)

| Story | Label | UniqueName | Section | Location | (-) Moment kN-m | (-) Combo | As Top mm2 | (+) Moment kN-m | (+) Combo | As Bot mm2 |
|--------|-------|------------|-------------|----------|--------------------|-----------|---------------|--------------------|-----------|---------------|
| Story1 | B5 | 25 | BEAM 25*30 | End-I | 0 | DConS14 | 1206 | 0 | DConS14 | 237 |
| Story1 | B5 | 25 | BEAM 25*30 | Middle | 0 | DConS2 | 18 | 0 | DConS14 | 563 |
| Story1 | B5 | 25 | BEAM 25*30 | End-J | 0 | DConS13 | 950 | 0 | DConS14 | 287 |
| Story1 | B7 | 27 | BEAM 25*30 | End-I | 0 | DConS16 | 808 | 0 | DConS20 | 126 |
| Story1 | B7 | 27 | BEAM 25*30 | Middle | 0 | DConS16 | 10 | 0 | DConS16 | 399 |
| Story1 | B7 | 27 | BEAM 25*30 | End-J | 0 | DConS15 | 529 | 0 | DConS16 | 276 |
| Story1 | B8 | 35 | BEAM 25*30 | End-I | 0 | DConS16 | 672 | 0 | DConS20 | 126 |
| Story1 | B8 | 35 | BEAM 25*30 | Middle | 0 | DConS2 | 10 | 0 | DConS15 | 277 |
| Story1 | B8 | 35 | BEAM 25*30 | End-J | 0 | DConS15 | 724 | 0 | DConS20 | 126 |
| Story1 | B9 | 28 | BEAM 25*30 | End-I | 0 | DConS16 | 676 | 0 | DConS20 | 126 |
| Story1 | B9 | 28 | BEAM 25*30 | Middle | 0 | DConS9 | 13 | 0 | DConS15 | 279 |
| Story1 | B9 | 28 | BEAM 25*30 | End-J | 0 | DConS15 | 730 | 0 | DConS20 | 126 |
| Story1 | B10 | 649 | BEAM 25*30 | End-I | 0 | DConS18 | 150 | 0 | DConS20 | 126 |
| Story1 | B10 | 649 | BEAM 25*30 | Middle | 0 | DConS20 | 4 | 0 | DConS20 | 126 |
| Story1 | B10 | 649 | BEAM 25*30 | End-J | 0 | DConS19 | 150 | 0 | DConS20 | 126 |
| Story1 | B11 | 661 | BEAM 25*30 | End-I | 0 | DConS14 | 380 | 0 | DConS17 | 145 |
| Story1 | B11 | 661 | BEAM 25*30 | Middle | 0 | DConS18 | 150 | 0 | DConS13 | 184 |
| Story1 | B11 | 661 | BEAM 25*30 | End-J | 0 | DConS13 | 168 | 0 | DConS14 | 143 |
| Story1 | B14 | 662 | BEAM 25*30 | End-I | 0 | DConS14 | 377 | 0 | DConS13 | 155 |
| Story1 | B14 | 662 | BEAM 25*30 | Middle | 0 | DConS18 | 150 | 0 | DConS13 | 186 |
| Story1 | B14 | 662 | BEAM 25*30 | End-J | 0 | DConS13 | 201 | 0 | DConS14 | 149 |
| Story1 | B15 | 29 | BEAM 25*30 | End-I | 0 | DConS16 | 729 | 0 | DConS20 | 126 |
| Story1 | B15 | 29 | BEAM 25*30 | Middle | 0 | DConS9 | 13 | 0 | DConS16 | 279 |
| Story1 | B15 | 29 | BEAM 25*30 | End-J | 0 | DConS15 | 677 | 0 | DConS20 | 126 |
| Story1 | B16 | 645 | BEAM 25*30 | End-I | 0 | DConS20 | 150 | 0 | DConS20 | 126 |
| Story1 | B16 | 645 | BEAM 25*30 | Middle | 0 | DConS19 | 4 | 0 | DConS20 | 126 |
| Story1 | B16 | 645 | BEAM 25*30 | End-J | 0 | DConS20 | 150 | 0 | DConS20 | 126 |
| Story1 | B17 | 34 | BEAM 25*30 | End-I | 0 | DConS16 | 725 | 0 | DConS20 | 126 |
| Story1 | B17 | 34 | BEAM 25*30 | Middle | 0 | DConS2 | 10 | 0 | DConS16 | 277 |
| Story1 | B17 | 34 | BEAM 25*30 | End-J | 0 | DConS15 | 671 | 0 | DConS20 | 126 |
| Story1 | B18 | 33 | BEAM 25*30 | End-I | 0 | DConS16 | 530 | 0 | DConS15 | 276 |
| Story1 | B18 | 33 | BEAM 25*30 | Middle | 0 | DConS15 | 10 | 0 | DConS15 | 399 |
| Story1 | B18 | 33 | BEAM 25*30 | End-J | 0 | DConS15 | 807 | 0 | DConS20 | 126 |
| Story1 | B19 | 647 | BEAM 25*30 | End-I | 0 | DConS16 | 267 | 0 | DConS15 | 199 |
| Story1 | B19 | 647 | BEAM 25*30 | Middle | 0 | DConS20 | 150 | 0 | DConS15 | 189 |
| Story1 | B19 | 647 | BEAM 25*30 | End-J | 0 | DConS15 | 232 | 0 | DConS20 | 126 |
| Story1 | B20 | 30 | BEAM 25*30 | End-I | 0 | DConS16 | 537 | 0 | DConS15 | 280 |
| Story1 | B20 | 30 | BEAM 25*30 | Middle | 0 | DConS11 | 10 | 0 | DConS15 | 401 |
| Story1 | B20 | 30 | BEAM 25*30 | End-J | 0 | DConS15 | 814 | 0 | DConS20 | 126 |
| Story1 | B21 | 31 | BEAM 25*30 | End-I | 0 | DConS14 | 872 | 0 | DConS13 | 314 |
| Story1 | B21 | 31 | BEAM 25*30 | Middle | 0 | DConS17 | 150 | 0 | DConS13 | 565 |
| Story1 | B21 | 31 | BEAM 25*30 | End-J | 0 | DConS13 | 1265 | 0 | DConS13 | 293 |
| Story1 | B22 | 32 | BEAM 25*30 | End-I | 0 | DConS14 | 1229 | 0 | DConS14 | 258 |
| Story1 | B22 | 32 | BEAM 25*30 | Middle | 0 | DConS14 | 20 | 0 | DConS14 | 554 |
| Story1 | B22 | 32 | BEAM 25*30 | End-J | 0 | DConS13 | 945 | 0 | DConS14 | 285 |
| Base | B1 | 1 | G.BEAM30*40 | End-I | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B1 | 1 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B1 | 1 | G.BEAM30*40 | End-J | 0 | DConS16 | 98 | 0 | DConS20 | 201 |

Table 6.11 - Concrete Beam Flexure Envelope - BS 8110-97 (continued)

| Story | Label | UniqueName | Section | Location | (-) Moment kN-m | (-) Combo | As Top mm ² | (+) Moment kN-m | (+) Combo | As Bot mm ² |
|-------|-------|------------|-------------|----------|--------------------|-----------|---------------------------|--------------------|-----------|---------------------------|
| Base | B2 | 2 | G.BEAM30*40 | End-I | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B2 | 2 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B2 | 2 | G.BEAM30*40 | End-J | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B3 | 3 | G.BEAM30*40 | End-I | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B3 | 3 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B3 | 3 | G.BEAM30*40 | End-J | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B4 | 4 | G.BEAM30*40 | End-I | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B4 | 4 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B4 | 4 | G.BEAM30*40 | End-J | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B5 | 5 | G.BEAM30*40 | End-I | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B5 | 5 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B5 | 5 | G.BEAM30*40 | End-J | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B6 | 6 | G.BEAM30*40 | End-I | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B6 | 6 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B6 | 6 | G.BEAM30*40 | End-J | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B7 | 7 | G.BEAM30*40 | End-I | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B7 | 7 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B7 | 7 | G.BEAM30*40 | End-J | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B8 | 8 | G.BEAM30*40 | End-I | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B8 | 8 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B8 | 8 | G.BEAM30*40 | End-J | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B9 | 9 | G.BEAM30*40 | End-I | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B9 | 9 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B9 | 9 | G.BEAM30*40 | End-J | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B10 | 10 | G.BEAM30*40 | End-I | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B10 | 10 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B10 | 10 | G.BEAM30*40 | End-J | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B11 | 11 | G.BEAM30*40 | End-I | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B11 | 11 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B11 | 11 | G.BEAM30*40 | End-J | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B12 | 12 | G.BEAM30*40 | End-I | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B12 | 12 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B12 | 12 | G.BEAM30*40 | End-J | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B13 | 13 | G.BEAM30*40 | End-I | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B13 | 13 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B13 | 13 | G.BEAM30*40 | End-J | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B14 | 14 | G.BEAM30*40 | End-I | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B14 | 14 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B14 | 14 | G.BEAM30*40 | End-J | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B15 | 15 | G.BEAM30*40 | End-I | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B15 | 15 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B15 | 15 | G.BEAM30*40 | End-J | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B16 | 16 | G.BEAM30*40 | End-I | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B16 | 16 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B16 | 16 | G.BEAM30*40 | End-J | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B17 | 17 | G.BEAM30*40 | End-I | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B17 | 17 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B17 | 17 | G.BEAM30*40 | End-J | 0 | DConS16 | 68 | 0 | DConS20 | 201 |

Table 6.11 - Concrete Beam Flexure Envelope - BS 8110-97 (continued)

| Story | Label | UniqueName | Section | Location | (-) Moment kN-m | (-) Combo | As Top mm2 | (+) Moment kN-m | (+) Combo | As Bot mm2 |
|-------|-------|------------|-------------|----------|-----------------|-----------|------------|-----------------|-----------|------------|
| Base | B18 | 18 | G.BEAM30*40 | End-I | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B18 | 18 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B18 | 18 | G.BEAM30*40 | End-J | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B19 | 19 | G.BEAM30*40 | End-I | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B19 | 19 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B19 | 19 | G.BEAM30*40 | End-J | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B20 | 20 | G.BEAM30*40 | End-I | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B20 | 20 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B20 | 20 | G.BEAM30*40 | End-J | 0 | DConS16 | 68 | 0 | DConS20 | 201 |
| Base | B21 | 21 | G.BEAM30*40 | End-I | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B21 | 21 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B21 | 21 | G.BEAM30*40 | End-J | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B22 | 22 | G.BEAM30*40 | End-I | 0 | DConS16 | 98 | 0 | DConS20 | 201 |
| Base | B22 | 22 | G.BEAM30*40 | Middle | 0 | DConS20 | 0 | 0 | DConS20 | 201 |
| Base | B22 | 22 | G.BEAM30*40 | End-J | 0 | DConS16 | 98 | 0 | DConS20 | 201 |

Table 6.12 - Concrete Beam Shear Envelope - BS 8110-97 (Part 1 of 2)

| Story | Label | UniqueName | Location | Section | V kN | V Combo | At mm2/m | T for At kN-m | T for At Combo | At Torsion mm2/m |
|--------|-------|------------|----------|------------|------|---------|----------|---------------|----------------|------------------|
| Story2 | B1 | 38 | End-I | BEAM 25*30 | 0 | DConS14 | 621.13 | 0 | DConS20 | 0 |
| Story2 | B1 | 38 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B1 | 38 | End-J | BEAM 25*30 | 0 | DConS13 | 721.27 | 0 | DConS20 | 0 |
| Story2 | B3 | 46 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B3 | 46 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B3 | 46 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B5 | 43 | End-I | BEAM 25*30 | 0 | DConS14 | 705.82 | 0 | DConS20 | 0 |
| Story2 | B5 | 43 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B5 | 43 | End-J | BEAM 25*30 | 0 | DConS13 | 633.23 | 0 | DConS20 | 0 |
| Story2 | B7 | 40 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B7 | 40 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B7 | 40 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B8 | 39 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B8 | 39 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B8 | 39 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B9 | 45 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B9 | 45 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B9 | 45 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B15 | 42 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B15 | 42 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B15 | 42 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B17 | 37 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B17 | 37 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B17 | 37 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B18 | 26 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B18 | 26 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B18 | 26 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B20 | 41 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |

Table 6.12 - Concrete Beam Shear Envelope - BS 8110-97 (Part 1 of 2, continued)

| Story | Label | UniqueName | Location | Section | V kN | V Combo | At mm ² /m | T for At kN-m | T for At Combo | At Torsion mm ² /m |
|--------|-------|------------|----------|------------|---------|------------|--------------------------|------------------|-------------------|-------------------------------------|
| Story2 | B20 | 41 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B20 | 41 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B21 | 55 | End-I | BEAM 25*30 | 0 | DConS14 | 626.82 | 0 | DConS20 | 0 |
| Story2 | B21 | 55 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B21 | 55 | End-J | BEAM 25*30 | 0 | DConS13 | 723.61 | 0 | DConS20 | 0 |
| Story2 | B22 | 73 | End-I | BEAM 25*30 | 0 | DConS14 | 707.35 | 0 | DConS20 | 0 |
| Story2 | B22 | 73 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | B22 | 73 | End-J | BEAM 25*30 | 0 | DConS13 | 639.74 | 0 | DConS20 | 0 |
| Story2 | C11 | 78 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | C11 | 78 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story2 | C11 | 78 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B1 | 23 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B1 | 23 | Middle | BEAM 25*30 | 0 | DConS13 | 478.71 | 0 | DConS20 | 0 |
| Story1 | B1 | 23 | End-J | BEAM 25*30 | 0 | DConS13 | 553.87 | 0 | DConS20 | 0 |
| Story1 | B2 | 659 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B2 | 659 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B2 | 659 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B3 | 24 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B3 | 24 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B3 | 24 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B4 | 651 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B4 | 651 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B4 | 651 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B5 | 25 | End-I | BEAM 25*30 | 0 | DConS14 | 533.29 | 0 | DConS20 | 0 |
| Story1 | B5 | 25 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B5 | 25 | End-J | BEAM 25*30 | 0 | DConS13 | 462.93 | 0 | DConS20 | 0 |
| Story1 | B7 | 27 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B7 | 27 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B7 | 27 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B8 | 35 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B8 | 35 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B8 | 35 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B9 | 28 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B9 | 28 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B9 | 28 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B10 | 649 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B10 | 649 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B10 | 649 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B11 | 661 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B11 | 661 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B11 | 661 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B14 | 662 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B14 | 662 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B14 | 662 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B15 | 29 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B15 | 29 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B15 | 29 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B16 | 645 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |

Table 6.12 - Concrete Beam Shear Envelope - BS 8110-97 (Part 1 of 2, continued)

| Story | Label | UniqueName | Location | Section | V kN | V Combo | At mm ² /m | T for At kN-m | T for At Combo | At Torsion mm ² /m |
|--------|-------|------------|----------|-------------|---------|------------|--------------------------|------------------|-------------------|-------------------------------------|
| Story1 | B16 | 645 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B16 | 645 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B17 | 34 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B17 | 34 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B17 | 34 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B18 | 33 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B18 | 33 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B18 | 33 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B19 | 647 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B19 | 647 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B19 | 647 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B20 | 30 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B20 | 30 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B20 | 30 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B21 | 31 | End-I | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B21 | 31 | Middle | BEAM 25*30 | 0 | DConS13 | 511.3 | 0 | DConS20 | 0 |
| Story1 | B21 | 31 | End-J | BEAM 25*30 | 0 | DConS13 | 577.61 | 0 | DConS20 | 0 |
| Story1 | B22 | 32 | End-I | BEAM 25*30 | 0 | DConS14 | 554.05 | 0 | DConS20 | 0 |
| Story1 | B22 | 32 | Middle | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Story1 | B22 | 32 | End-J | BEAM 25*30 | 0 | DConS20 | 460 | 0 | DConS20 | 0 |
| Base | B1 | 1 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B1 | 1 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B1 | 1 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B2 | 2 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B2 | 2 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B2 | 2 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B3 | 3 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B3 | 3 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B3 | 3 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B4 | 4 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B4 | 4 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B4 | 4 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B5 | 5 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B5 | 5 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B5 | 5 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B6 | 6 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B6 | 6 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B6 | 6 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B7 | 7 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B7 | 7 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B7 | 7 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B8 | 8 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B8 | 8 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B8 | 8 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B9 | 9 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B9 | 9 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B9 | 9 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B10 | 10 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |

Table 6.12 - Concrete Beam Shear Envelope - BS 8110-97 (Part 1 of 2, continued)

| Story | Label | UniqueName | Location | Section | V kN | V Combo | At mm2/m | T for At kN-m | T for At Combo | At Torsion mm2/m |
|-------|-------|------------|----------|-------------|---------|------------|-------------|------------------|-------------------|------------------------|
| Base | B10 | 10 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B10 | 10 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B11 | 11 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B11 | 11 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B11 | 11 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B12 | 12 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B12 | 12 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B12 | 12 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B13 | 13 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B13 | 13 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B13 | 13 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B14 | 14 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B14 | 14 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B14 | 14 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B15 | 15 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B15 | 15 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B15 | 15 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B16 | 16 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B16 | 16 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B16 | 16 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B17 | 17 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B17 | 17 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B17 | 17 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B18 | 18 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B18 | 18 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B18 | 18 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B19 | 19 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B19 | 19 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B19 | 19 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B20 | 20 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B20 | 20 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B20 | 20 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B21 | 21 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B21 | 21 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B21 | 21 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B22 | 22 | End-I | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B22 | 22 | Middle | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |
| Base | B22 | 22 | End-J | G.BEAM30*40 | 0 | DConS20 | 552 | 0 | DConS20 | 0 |

Table 6.12 - Concrete Beam Shear Envelope - BS 8110-97 (Part 2 of 2)

| Story | Label | UniqueName | Location | T for As kN-m | T for As Combo | As Torsion mm2 |
|--------|-------|------------|----------|------------------|-------------------|----------------------|
| Story2 | B1 | 38 | End-I | 0 | DConS20 | 0 |
| Story2 | B1 | 38 | Middle | 0 | DConS20 | 0 |
| Story2 | B1 | 38 | End-J | 0 | DConS20 | 0 |
| Story2 | B3 | 46 | End-I | 0 | DConS20 | 0 |
| Story2 | B3 | 46 | Middle | 0 | DConS20 | 0 |

Table 6.12 - Concrete Beam Shear Envelope - BS 8110-97 (Part 2 of 2, continued)

| Story | Label | UniqueName | Location | T for As kN-m | T for As Combo | As Torsion mm ² |
|--------|-------|------------|----------|------------------|-------------------|----------------------------------|
| Story2 | B3 | 46 | End-J | 0 | DConS20 | 0 |
| Story2 | B5 | 43 | End-I | 0 | DConS20 | 0 |
| Story2 | B5 | 43 | Middle | 0 | DConS20 | 0 |
| Story2 | B5 | 43 | End-J | 0 | DConS20 | 0 |
| Story2 | B7 | 40 | End-I | 0 | DConS20 | 0 |
| Story2 | B7 | 40 | Middle | 0 | DConS20 | 0 |
| Story2 | B7 | 40 | End-J | 0 | DConS20 | 0 |
| Story2 | B8 | 39 | End-I | 0 | DConS20 | 0 |
| Story2 | B8 | 39 | Middle | 0 | DConS20 | 0 |
| Story2 | B8 | 39 | End-J | 0 | DConS20 | 0 |
| Story2 | B9 | 45 | End-I | 0 | DConS20 | 0 |
| Story2 | B9 | 45 | Middle | 0 | DConS20 | 0 |
| Story2 | B9 | 45 | End-J | 0 | DConS20 | 0 |
| Story2 | B15 | 42 | End-I | 0 | DConS20 | 0 |
| Story2 | B15 | 42 | Middle | 0 | DConS20 | 0 |
| Story2 | B15 | 42 | End-J | 0 | DConS20 | 0 |
| Story2 | B17 | 37 | End-I | 0 | DConS20 | 0 |
| Story2 | B17 | 37 | Middle | 0 | DConS20 | 0 |
| Story2 | B17 | 37 | End-J | 0 | DConS20 | 0 |
| Story2 | B18 | 26 | End-I | 0 | DConS20 | 0 |
| Story2 | B18 | 26 | Middle | 0 | DConS20 | 0 |
| Story2 | B18 | 26 | End-J | 0 | DConS20 | 0 |
| Story2 | B20 | 41 | End-I | 0 | DConS20 | 0 |
| Story2 | B20 | 41 | Middle | 0 | DConS20 | 0 |
| Story2 | B20 | 41 | End-J | 0 | DConS20 | 0 |
| Story2 | B21 | 55 | End-I | 0 | DConS20 | 0 |
| Story2 | B21 | 55 | Middle | 0 | DConS20 | 0 |
| Story2 | B21 | 55 | End-J | 0 | DConS20 | 0 |
| Story2 | B22 | 73 | End-I | 0 | DConS20 | 0 |
| Story2 | B22 | 73 | Middle | 0 | DConS20 | 0 |
| Story2 | B22 | 73 | End-J | 0 | DConS20 | 0 |
| Story2 | C11 | 78 | End-I | 0 | DConS20 | 0 |
| Story2 | C11 | 78 | Middle | 0 | DConS20 | 0 |
| Story2 | C11 | 78 | End-J | 0 | DConS20 | 0 |
| Story1 | B1 | 23 | End-I | 0 | DConS20 | 0 |
| Story1 | B1 | 23 | Middle | 0 | DConS20 | 0 |
| Story1 | B1 | 23 | End-J | 0 | DConS20 | 0 |
| Story1 | B2 | 659 | End-I | 0 | DConS20 | 0 |
| Story1 | B2 | 659 | Middle | 0 | DConS20 | 0 |
| Story1 | B2 | 659 | End-J | 0 | DConS20 | 0 |
| Story1 | B3 | 24 | End-I | 0 | DConS20 | 0 |
| Story1 | B3 | 24 | Middle | 0 | DConS20 | 0 |
| Story1 | B3 | 24 | End-J | 0 | DConS20 | 0 |
| Story1 | B4 | 651 | End-I | 0 | DConS20 | 0 |
| Story1 | B4 | 651 | Middle | 0 | DConS20 | 0 |
| Story1 | B4 | 651 | End-J | 0 | DConS20 | 0 |
| Story1 | B5 | 25 | End-I | 0 | DConS20 | 0 |
| Story1 | B5 | 25 | Middle | 0 | DConS20 | 0 |

Table 6.12 - Concrete Beam Shear Envelope - BS 8110-97 (Part 2 of 2, continued)

| Story | Label | UniqueName | Location | T for As kN-m | T for As Combo | As Torsion mm ² |
|--------|-------|------------|----------|------------------|-------------------|----------------------------------|
| Story1 | B5 | 25 | End-J | 0 | DConS20 | 0 |
| Story1 | B7 | 27 | End-I | 0 | DConS20 | 0 |
| Story1 | B7 | 27 | Middle | 0 | DConS20 | 0 |
| Story1 | B7 | 27 | End-J | 0 | DConS20 | 0 |
| Story1 | B8 | 35 | End-I | 0 | DConS20 | 0 |
| Story1 | B8 | 35 | Middle | 0 | DConS20 | 0 |
| Story1 | B8 | 35 | End-J | 0 | DConS20 | 0 |
| Story1 | B9 | 28 | End-I | 0 | DConS20 | 0 |
| Story1 | B9 | 28 | Middle | 0 | DConS20 | 0 |
| Story1 | B9 | 28 | End-J | 0 | DConS20 | 0 |
| Story1 | B10 | 649 | End-I | 0 | DConS20 | 0 |
| Story1 | B10 | 649 | Middle | 0 | DConS20 | 0 |
| Story1 | B10 | 649 | End-J | 0 | DConS20 | 0 |
| Story1 | B11 | 661 | End-I | 0 | DConS20 | 0 |
| Story1 | B11 | 661 | Middle | 0 | DConS20 | 0 |
| Story1 | B11 | 661 | End-J | 0 | DConS20 | 0 |
| Story1 | B14 | 662 | End-I | 0 | DConS20 | 0 |
| Story1 | B14 | 662 | Middle | 0 | DConS20 | 0 |
| Story1 | B14 | 662 | End-J | 0 | DConS20 | 0 |
| Story1 | B15 | 29 | End-I | 0 | DConS20 | 0 |
| Story1 | B15 | 29 | Middle | 0 | DConS20 | 0 |
| Story1 | B15 | 29 | End-J | 0 | DConS20 | 0 |
| Story1 | B16 | 645 | End-I | 0 | DConS20 | 0 |
| Story1 | B16 | 645 | Middle | 0 | DConS20 | 0 |
| Story1 | B16 | 645 | End-J | 0 | DConS20 | 0 |
| Story1 | B17 | 34 | End-I | 0 | DConS20 | 0 |
| Story1 | B17 | 34 | Middle | 0 | DConS20 | 0 |
| Story1 | B17 | 34 | End-J | 0 | DConS20 | 0 |
| Story1 | B18 | 33 | End-I | 0 | DConS20 | 0 |
| Story1 | B18 | 33 | Middle | 0 | DConS20 | 0 |
| Story1 | B18 | 33 | End-J | 0 | DConS20 | 0 |
| Story1 | B19 | 647 | End-I | 0 | DConS20 | 0 |
| Story1 | B19 | 647 | Middle | 0 | DConS20 | 0 |
| Story1 | B19 | 647 | End-J | 0 | DConS20 | 0 |
| Story1 | B20 | 30 | End-I | 0 | DConS20 | 0 |
| Story1 | B20 | 30 | Middle | 0 | DConS20 | 0 |
| Story1 | B20 | 30 | End-J | 0 | DConS20 | 0 |
| Story1 | B21 | 31 | End-I | 0 | DConS20 | 0 |
| Story1 | B21 | 31 | Middle | 0 | DConS20 | 0 |
| Story1 | B21 | 31 | End-J | 0 | DConS20 | 0 |
| Story1 | B22 | 32 | End-I | 0 | DConS20 | 0 |
| Story1 | B22 | 32 | Middle | 0 | DConS20 | 0 |
| Story1 | B22 | 32 | End-J | 0 | DConS20 | 0 |
| Base | B1 | 1 | End-I | 0 | DConS20 | 0 |
| Base | B1 | 1 | Middle | 0 | DConS20 | 0 |
| Base | B1 | 1 | End-J | 0 | DConS20 | 0 |
| Base | B2 | 2 | End-I | 0 | DConS20 | 0 |
| Base | B2 | 2 | Middle | 0 | DConS20 | 0 |

Table 6.12 - Concrete Beam Shear Envelope - BS 8110-97 (Part 2 of 2, continued)

| Story | Label | UniqueName | Location | T for As kN-m | T for As Combo | As Torsion mm2 |
|-------|-------|------------|----------|------------------|-------------------|----------------------|
| Base | B2 | 2 | End-J | 0 | DConS20 | 0 |
| Base | B3 | 3 | End-I | 0 | DConS20 | 0 |
| Base | B3 | 3 | Middle | 0 | DConS20 | 0 |
| Base | B3 | 3 | End-J | 0 | DConS20 | 0 |
| Base | B4 | 4 | End-I | 0 | DConS20 | 0 |
| Base | B4 | 4 | Middle | 0 | DConS20 | 0 |
| Base | B4 | 4 | End-J | 0 | DConS20 | 0 |
| Base | B5 | 5 | End-I | 0 | DConS20 | 0 |
| Base | B5 | 5 | Middle | 0 | DConS20 | 0 |
| Base | B5 | 5 | End-J | 0 | DConS20 | 0 |
| Base | B6 | 6 | End-I | 0 | DConS20 | 0 |
| Base | B6 | 6 | Middle | 0 | DConS20 | 0 |
| Base | B6 | 6 | End-J | 0 | DConS20 | 0 |
| Base | B7 | 7 | End-I | 0 | DConS20 | 0 |
| Base | B7 | 7 | Middle | 0 | DConS20 | 0 |
| Base | B7 | 7 | End-J | 0 | DConS20 | 0 |
| Base | B8 | 8 | End-I | 0 | DConS20 | 0 |
| Base | B8 | 8 | Middle | 0 | DConS20 | 0 |
| Base | B8 | 8 | End-J | 0 | DConS20 | 0 |
| Base | B9 | 9 | End-I | 0 | DConS20 | 0 |
| Base | B9 | 9 | Middle | 0 | DConS20 | 0 |
| Base | B9 | 9 | End-J | 0 | DConS20 | 0 |
| Base | B10 | 10 | End-I | 0 | DConS20 | 0 |
| Base | B10 | 10 | Middle | 0 | DConS20 | 0 |
| Base | B10 | 10 | End-J | 0 | DConS20 | 0 |
| Base | B11 | 11 | End-I | 0 | DConS20 | 0 |
| Base | B11 | 11 | Middle | 0 | DConS20 | 0 |
| Base | B11 | 11 | End-J | 0 | DConS20 | 0 |
| Base | B12 | 12 | End-I | 0 | DConS20 | 0 |
| Base | B12 | 12 | Middle | 0 | DConS20 | 0 |
| Base | B12 | 12 | End-J | 0 | DConS20 | 0 |
| Base | B13 | 13 | End-I | 0 | DConS20 | 0 |
| Base | B13 | 13 | Middle | 0 | DConS20 | 0 |
| Base | B13 | 13 | End-J | 0 | DConS20 | 0 |
| Base | B14 | 14 | End-I | 0 | DConS20 | 0 |
| Base | B14 | 14 | Middle | 0 | DConS20 | 0 |
| Base | B14 | 14 | End-J | 0 | DConS20 | 0 |
| Base | B15 | 15 | End-I | 0 | DConS20 | 0 |
| Base | B15 | 15 | Middle | 0 | DConS20 | 0 |
| Base | B15 | 15 | End-J | 0 | DConS20 | 0 |
| Base | B16 | 16 | End-I | 0 | DConS20 | 0 |
| Base | B16 | 16 | Middle | 0 | DConS20 | 0 |
| Base | B16 | 16 | End-J | 0 | DConS20 | 0 |
| Base | B17 | 17 | End-I | 0 | DConS20 | 0 |
| Base | B17 | 17 | Middle | 0 | DConS20 | 0 |
| Base | B17 | 17 | End-J | 0 | DConS20 | 0 |
| Base | B18 | 18 | End-I | 0 | DConS20 | 0 |
| Base | B18 | 18 | Middle | 0 | DConS20 | 0 |

Table 6.12 - Concrete Beam Shear Envelope - BS 8110-97 (Part 2 of 2, continued)

| Story | Label | UniqueName | Location | T for As kN-m | T for As Combo | As Torsion mm ² |
|-------|-------|------------|----------|------------------|-------------------|----------------------------------|
| Base | B18 | 18 | End-J | 0 | DConS20 | 0 |
| Base | B19 | 19 | End-I | 0 | DConS20 | 0 |
| Base | B19 | 19 | Middle | 0 | DConS20 | 0 |
| Base | B19 | 19 | End-J | 0 | DConS20 | 0 |
| Base | B20 | 20 | End-I | 0 | DConS20 | 0 |
| Base | B20 | 20 | Middle | 0 | DConS20 | 0 |
| Base | B20 | 20 | End-J | 0 | DConS20 | 0 |
| Base | B21 | 21 | End-I | 0 | DConS20 | 0 |
| Base | B21 | 21 | Middle | 0 | DConS20 | 0 |
| Base | B21 | 21 | End-J | 0 | DConS20 | 0 |
| Base | B22 | 22 | End-I | 0 | DConS20 | 0 |
| Base | B22 | 22 | Middle | 0 | DConS20 | 0 |
| Base | B22 | 22 | End-J | 0 | DConS20 | 0 |

Table 6.13 - Concrete Joint Envelope - BS 8110-97

| Story | Label | UniqueName | Section | B/C Major Combo | B/C Major Ratio | B/C Minor Combo | B/C Minor Ratio | JS Major Combo | JS Major Ratio | JS Minor Combo | JS Minor Ratio |
|--------|-------|------------|----------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|
| Story2 | C1 | 53 | COL25*25 | | | | | | | | |
| Story2 | C2 | 44 | COL25*25 | | | | | | | | |
| Story2 | C3 | 57 | COL25*25 | | | | | | | | |
| Story2 | C4 | 59 | COL25*25 | | | | | | | | |
| Story2 | C5 | 61 | COL25*25 | | | | | | | | |
| Story2 | C6 | 63 | COL25*25 | | | | | | | | |
| Story2 | C7 | 65 | COL25*25 | | | | | | | | |
| Story2 | C8 | 67 | COL25*25 | | | | | | | | |
| Story2 | C9 | 69 | COL25*25 | | | | | | | | |
| Story2 | C10 | 71 | COL25*25 | | | | | | | | |
| Story2 | C12 | 75 | COL25*25 | | | | | | | | |
| Story1 | C1 | 52 | COL25*25 | | | | | | | | |
| Story1 | C2 | 54 | COL25*25 | | | | | | | | |
| Story1 | C3 | 56 | COL25*25 | | | | | | | | |
| Story1 | C4 | 58 | COL25*25 | | | | | | | | |
| Story1 | C5 | 60 | COL25*25 | | | | | | | | |
| Story1 | C6 | 62 | COL25*25 | | | | | | | | |
| Story1 | C7 | 64 | COL25*25 | | | | | | | | |
| Story1 | C8 | 66 | COL25*25 | | | | | | | | |
| Story1 | C9 | 68 | COL25*25 | | | | | | | | |
| Story1 | C10 | 70 | COL25*25 | | | | | | | | |
| Story1 | C11 | 72 | COL25*25 | | | | | | | | |
| Story1 | C12 | 74 | COL25*25 | | | | | | | | |
| Story1 | C13 | 280 | COL25*25 | | | | | | | | |
| Story1 | C14 | 276 | COL25*25 | | | | | | | | |
| Story1 | C16 | 278 | COL25*25 | | | | | | | | |