RELAÇÃO DO AÇO

VC1-L3
VC2-L3
VC3-L3
VC4-L3
VF1-L2
VF2-L2
VF3-L2
VF4-L2
VF5-L2
VF6-L2
VF7-L2
VF8-L2
VF9-L2
VF10-L2
VF11-L2
VF12-L2
VF13-L2
VF14-L2
VF15-L2
VF16-L2
VF17-L2
VF18-L2
VF19-L2
VF20-L2
VF21-L2
VF22-L2
VF23-L2
VF24-L2
VF25-L2
VF26-L2
VF27-L2
VF28-L2
VF29-L2
VF30-L2
VF31-L2
VF32-L2
VF33-L2
VF34-L2
VF35-L2
VF36-L2
VF37-L2
VF38-L2
VF39-L2
VF40-L2
VF41-L2
VF42-L2
VF43-L2
VF44-L2
VF45-L2
VF46-L2
VF47-L2
VF48-L2
VF49-L2
VF50-L2
VF51-L2
VF52-L2
VF53-L2

RESUMO DO AÇO

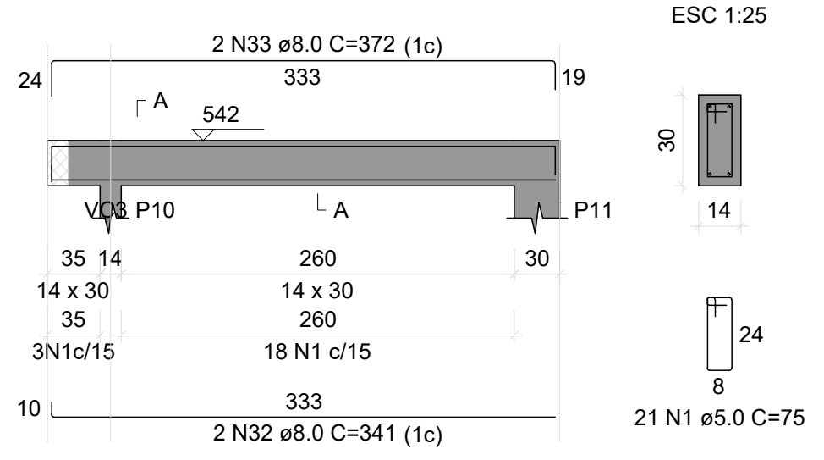
| AÇO | DIAM (mm) | C.TOTAL (m) | PESO + 10% (kg) |
|---|---|---|---|
| CA50 | 6.3 | 201.4 | 54.2 |
| | 8.0 | 803.9 | 348.9 |
| | 10.0 | 494.4 | 335.3 |
| | 12.5 | 182 | 192.8 |
| | 16.0 | 8.2 | 14.3 |
| CA60 | 5.0 | 1550.5 | 262.9 |

| PESO TOTAL (kg) | |
|---|---|
| CA50 | 945.5 |
| CA60 | 262.9 |

Volume de concreto (C-25) = 13.39 m³
Área de forma = 157.48 m²

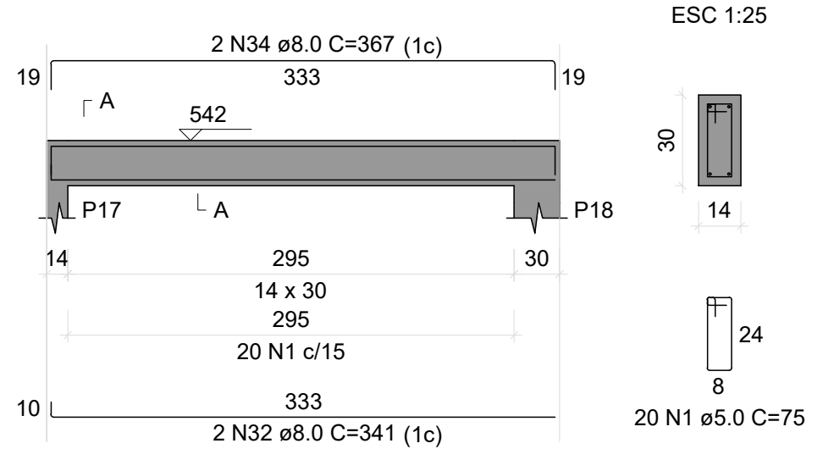
| AÇO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 1199 | 75 | 89925 |
| | 2 | 5.0 | 509 | 95 | 48355 |
| | 3 | 5.0 | 92 | 67 | 6164 |
| | 4 | 5.0 | 4 | 85 | 340 |
| | 5 | 5.0 | 2 | 354 | 708 |
| | 6 | 5.0 | 2 | 275 | 550 |
| | 7 | 5.0 | 2 | 255 | 510 |
| | 8 | 5.0 | 44 | 135 | 5940 |
| | 9 | 5.0 | 2 | 265 | 530 |
| | 10 | 5.0 | 2 | 274 | 548 |
| | 11 | 5.0 | 2 | 444 | 888 |
| | 12 | 5.0 | 2 | 295 | 590 |
| CA50 | 13 | 6.3 | 4 | 240 | 960 |
| | 14 | 6.3 | 4 | 79 | 316 |
| | 15 | 6.3 | 4 | 533 | 2132 |
| | 16 | 6.3 | 12 | 74 | 888 |
| | 17 | 6.3 | 8 | 88 | 704 |
| | 18 | 6.3 | 4 | 169 | 676 |
| | 19 | 6.3 | 4 | 87 | 348 |
| | 20 | 6.3 | 3 | 106 | 318 |
| | 21 | 6.3 | 4 | 108 | 432 |
| | 22 | 6.3 | 4 | 110 | 440 |
| | 23 | 6.3 | 4 | 397 | 1588 |
| | 24 | 6.3 | 8 | 75 | 600 |
| | 25 | 6.3 | 8 | 91 | 728 |
| | 26 | 6.3 | 8 | 99 | 792 |
| | 27 | 6.3 | 4 | 169 | 676 |
| | 28 | 6.3 | 6 | 1196 | 7176 |
| | 29 | 6.3 | 6 | 114 | 684 |
| | 30 | 6.3 | 4 | 88 | 352 |
| | 31 | 6.3 | 4 | 84 | 336 |
| | 32 | 8.0 | 4 | 341 | 1364 |
| | 33 | 8.0 | 2 | 372 | 744 |
| | 34 | 8.0 | 2 | 367 | 734 |
| | 35 | 8.0 | 2 | 350 | 700 |
| | 36 | 8.0 | 2 | 373 | 746 |
| | 37 | 8.0 | 2 | 334 | 668 |
| | 38 | 8.0 | 2 | 352 | 704 |
| | 39 | 8.0 | 2 | 725 | 1450 |
| | 40 | 8.0 | 2 | 190 | 380 |
| | 41 | 8.0 | 2 | 773 | 1546 |
| | 42 | 8.0 | 2 | 77 | 154 |
| | 43 | 8.0 | 1 | 120 | 120 |
| | 44 | 8.0 | 2 | 123 | 246 |
| | 45 | 8.0 | 4 | 596 | 2384 |
| | 46 | 8.0 | 2 | 539 | 1078 |
| | 47 | 8.0 | 2 | 523 | 1046 |
| | 48 | 8.0 | 1 | 145 | 145 |
| | 49 | 8.0 | 2 | 574 | 1148 |
| | 50 | 8.0 | 14 | 93 | 1302 |
| | 51 | 8.0 | 2 | 145 | 290 |
| | 52 | 8.0 | 2 | 135 | 270 |
| | 53 | 8.0 | 2 | 145 | 290 |
| | 54 | 8.0 | 1 | 184 | 184 |
| | 55 | 8.0 | 7 | 423 | 2961 |
| | 56 | 8.0 | 2 | 175 | 350 |
| | 57 | 8.0 | 2 | 214 | 428 |
| | 58 | 8.0 | 1 | 217 | 217 |
| | 59 | 8.0 | 2 | 192 | 384 |
| | 60 | 8.0 | 1 | 297 | 297 |
| | 61 | 8.0 | 2 | 778 | 1556 |
| | 62 | 8.0 | 2 | 101 | 202 |
| | 63 | 8.0 | 1 | 130 | 130 |
| | 64 | 8.0 | 2 | 140 | 280 |
| | 65 | 8.0 | 2 | 236 | 472 |
| | 66 | 8.0 | 2 | 267 | 534 |
| | 67 | 8.0 | 2 | 92 | 184 |
| | 68 | 8.0 | 2 | 133 | 266 |
| | 69 | 8.0 | 2 | 143 | 286 |
| | 70 | 8.0 | 1 | 180 | 180 |
| | 71 | 8.0 | 2 | 1194 | 2388 |
| | 72 | 8.0 | 2 | 101 | 202 |
| | 73 | 8.0 | 1 | 134 | 134 |
| | 74 | 8.0 | 2 | 144 | 288 |
| | 75 | 8.0 | 2 | 131 | 262 |
| | 76 | 8.0 | 2 | 141 | 282 |
| | 77 | 8.0 | 2 | 1193 | 2386 |
| | 78 | 8.0 | 2 | 101 | 202 |
| | 79 | 8.0 | 2 | 113 | 226 |
| | 80 | 8.0 | 2 | 613 | 1226 |
| | 81 | 8.0 | 2 | 169 | 338 |
| | 82 | 8.0 | 2 | 652 | 1304 |
| | 83 | 8.0 | 2 | 998 | 1996 |
| | 84 | 8.0 | 2 | 398 | 796 |
| | 85 | 8.0 | 1 | 195 | 195 |
| | 86 | 8.0 | 2 | 1199 | 2398 |
| | 87 | 8.0 | 2 | 268 | 536 |
| | 88 | 8.0 | 4 | 212 | 848 |
| | 89 | 8.0 | 2 | 250 | 500 |
| | 90 | 8.0 | 1 | 295 | 295 |
| | 91 | 8.0 | 2 | 1137 | 2274 |
| | 92 | 8.0 | 2 | 1146 | 2292 |
| | 93 | 8.0 | 1 | 230 | 230 |
| | 94 | 8.0 | 2 | 430 | 860 |
| | 95 | 8.0 | 2 | 845 | 1690 |
| | 96 | 8.0 | 2 | 192 | 384 |
| | 97 | 8.0 | 2 | 270 | 540 |
| | 98 | 8.0 | 2 | 1145 | 2290 |
| | 99 | 8.0 | 2 | 636 | 1272 |
| | 100 | 8.0 | 1 | 128 | 128 |
| | 101 | 8.0 | 2 | 138 | 276 |
| | 102 | 8.0 | 2 | 228 | 456 |
| | 103 | 8.0 | 2 | 280 | 560 |
| | 104 | 8.0 | 2 | 979 | 1958 |
| | 105 | 8.0 | 1 | 235 | 235 |
| | 106 | 8.0 | 1 | 455 | 455 |
| | 107 | 8.0 | 2 | 797 | 1594 |
| | 108 | 8.0 | 2 | 85 | 170 |
| | 109 | 8.0 | 1 | 118 | 118 |
| | 110 | 8.0 | 2 | 128 | 256 |
| | 111 | 8.0 | 4 | 97 | 388 |
| | 112 | 8.0 | 2 | 147 | 294 |
| | 113 | 8.0 | 4 | 929 | 3716 |
| | 114 | 8.0 | 2 | 322 | 644 |
| | 115 | 8.0 | 1 | 128 | 128 |
| | 116 | 8.0 | 2 | 138 | 276 |
| | 117 | 8.0 | 2 | 503 | 1006 |
| | 118 | 8.0 | 2 | 537 | 1074 |
| | 119 | 8.0 | 2 | 167 | 334 |
| | 120 | 8.0 | 2 | 214 | 428 |
| | 121 | 8.0 | 2 | 105 | 210 |
| | 122 | 8.0 | 2 | 504 | 1008 |
| | 123 | 8.0 | 4 | 439 | 1756 |
| | 124 | 8.0 | 2 | 94 | 188 |
| | 125 | 8.0 | 1 | 262 | 262 |
| | 126 | 8.0 | 1 | 329 | 329 |
| | 127 | 8.0 | 2 | 809 | 1618 |
| | 128 | 8.0 | 1 | 185 | 185 |
| | 129 | 8.0 | 2 | 1198 | 2396 |
| | 130 | 8.0 | 2 | 651 | 1302 |
| | 131 | 8.0 | 2 | 448 | 896 |
| | 132 | 8.0 | 2 | 201 | 402 |
| | 133 | 8.0 | 2 | 144 | 288 |
| | 134 | 10.0 | 96 | 96 | 9216 |
| | 135 | 10.0 | 2 | 637 | 1274 |
| | 136 | 10.0 | 2 | 210 | 420 |
| | 137 | 10.0 | 2 | 572 | 1144 |
| | 138 | 10.0 | 2 | 126 | 252 |
| | 139 | 10.0 | 1 | 177 | 177 |
| | 140 | 10.0 | 1 | 482 | 482 |
| | 141 | 10.0 | 2 | 489 | 978 |
| | 142 | 10.0 | 2 | 563 | 1126 |
| | 143 | 10.0 | 1 | 142 | 142 |
| | 144 | 10.0 | 1 | 409 | 409 |
| | 145 | 10.0 | 2 | 575 | 1150 |
| | 146 | 10.0 | 2 | 177 | 354 |
| | 147 | 10.0 | 1 | 153 | 153 |
| | 148 | 10.0 | 2 | 1104 | 2208 |
| | 149 | 10.0 | 2 | 227 | 454 |
| | 150 | 10.0 | 1 | 159 | 159 |
| | 151 | 10.0 | 2 | 483 | 966 |
| | 152 | 10.0 | 1 | 154 | 154 |
| | 153 | 10.0 | 1 | 175 | 175 |
| | 154 | 10.0 | 2 | 1105 | 2210 |
| | 155 | 10.0 | 2 | 224 | 448 |
| | 156 | 10.0 | 2 | 147 | 294 |
| | 157 | 10.0 | 2 | 150 | 300 |
| | 158 | 10.0 | 2 | 171 | 342 |
| | 159 | 10.0 | 2 | 645 | 1290 |
| | 160 | 10.0 | 2 | 112 | 224 |
| | 161 | 10.0 | 1 | 134 | 134 |
| | 162 | 10.0 | 1 | 179 | 179 |
| | 163 | 10.0 | 2 | 270 | 540 |
| | 164 | 10.0 | 2 | 457 | 914 |
| | 165 | 10.0 | 2 | 200 | 400 |
| | 166 | 10.0 | 2 | 195 | 390 |
| | 167 | 10.0 | 1 | 176 | 176 |
| | 168 | 10.0 | 1 | 563 | 563 |
| | 169 | 10.0 | 2 | 1200 | 2400 |
| | 170 | 10.0 | 2 | 765 | 1530 |
| | 171 | 10.0 | 1 | 158 | 158 |
| | 172 | 10.0 | 2 | 287 | 574 |
| | 173 | 10.0 | 1 | 257 | 257 |
| | 174 | 10.0 | 2 | 527 | 1054 |
| | 175 | 10.0 | 2 | 1158 | 2316 |
| | 176 | 10.0 | 2 | 208 | 416 |
| | 177 | 10.0 | 2 | 593 | 1186 |
| | 178 | 10.0 | 2 | 625 | 1250 |
| | 179 | 10.0 | 1 | 137 | 137 |
| | 180 | 10.0 | 2 | 147 | 294 |
| | 181 | 10.0 | 1 | 141 | 141 |
| | 182 | 10.0 | 2 | 548 | 1096 |
| | 183 | 10.0 | 1 | 183 | 183 |
| | 184 | 10.0 | 1 | 459 | 459 |
| | 185 | 10.0 | 2 | 466 | 932 |
| | 186 | 10.0 | 1 | 133 | 133 |
| | 187 | 10.0 | 2 | 143 | 286 |
| | 188 | 10.0 | 1 | 154 | 154 |
| | 189 | 10.0 | 2 | 469 | 938 |
| | 190 | 10.0 | 2 | 632 | 1264 |
| | 191 | 10.0 | 2 | 1072 | 2144 |
| | 192 | 10.0 | 2 | 169 | 338 |
| | 193 | 12.5 | 1 | 164 | 164 |
| | 194 | 12.5 | 2 | 480 | 960 |
| | 195 | 12.5 | 1 | 154 | 154 |
| | 196 | 12.5 | 1 | 416 | 416 |
| | 197 | 12.5 | 2 | 826 | 1652 |
| | 198 | 12.5 | 2 | 158 | 316 |
| | 199 | 12.5 | 2 | 179 | 358 |
| | 200 | 12.5 | 1 | 215 | 215 |
| | 201 | 12.5 | 1 | 578 | 578 |
| | 202 | 12.5 | 2 | 585 | 1170 |
| | 203 | 12.5 | 1 | 225 | 225 |
| | 204 | 12.5 | 1 | 571 | 571 |
| | 205 | 12.5 | 2 | 1197 | 2394 |
| | 206 | 12.5 | 2 | 673 | 1346 |
| | 207 | 12.5 | 2 | 637 | 1274 |
| | 208 | 12.5 | 2 | 651 | 1302 |
| | 209 | 12.5 | 2 | 370 | 740 |
| | 210 | 12.5 | 2 | 880 | 1760 |
| | 211 | 12.5 | 2 | 170 | 340 |
| | 212 | 12.5 | 2 | 385 | 770 |
| | 213 | 12.5 | 2 | 745 | 1490 |
| | 214 | 16.0 | 2 | 411 | 822 |

VC1
ESC 1:50



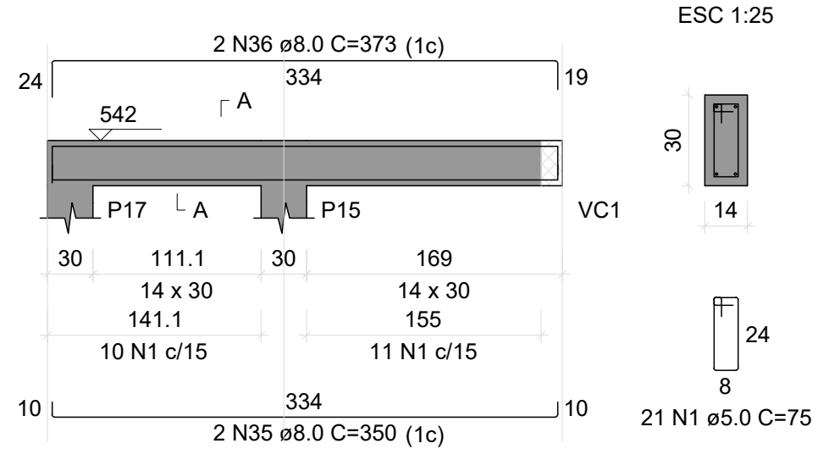
2 N33 ø8.0 C=372 (1c)
2 N32 ø8.0 C=341 (1c)
SEÇÃO A-A
ESC 1:25
21 N1 ø5.0 C=75

VC2
ESC 1:50



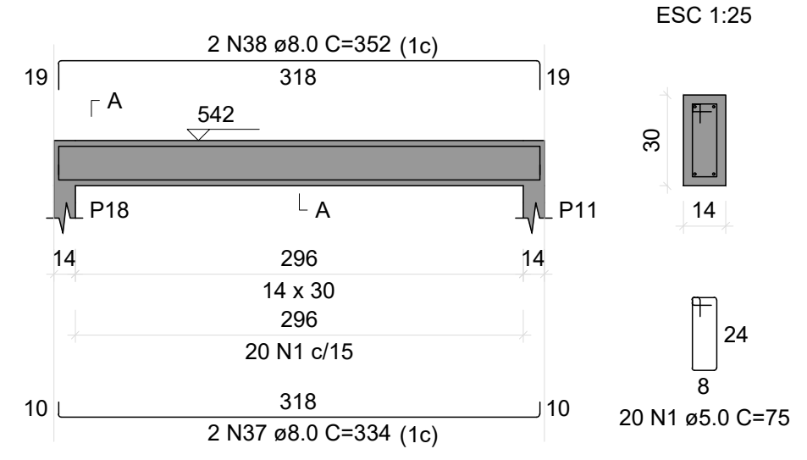
2 N34 ø8.0 C=367 (1c)
2 N32 ø8.0 C=341 (1c)
SEÇÃO A-A
ESC 1:25
20 N1 ø5.0 C=75

VC3
ESC 1:50



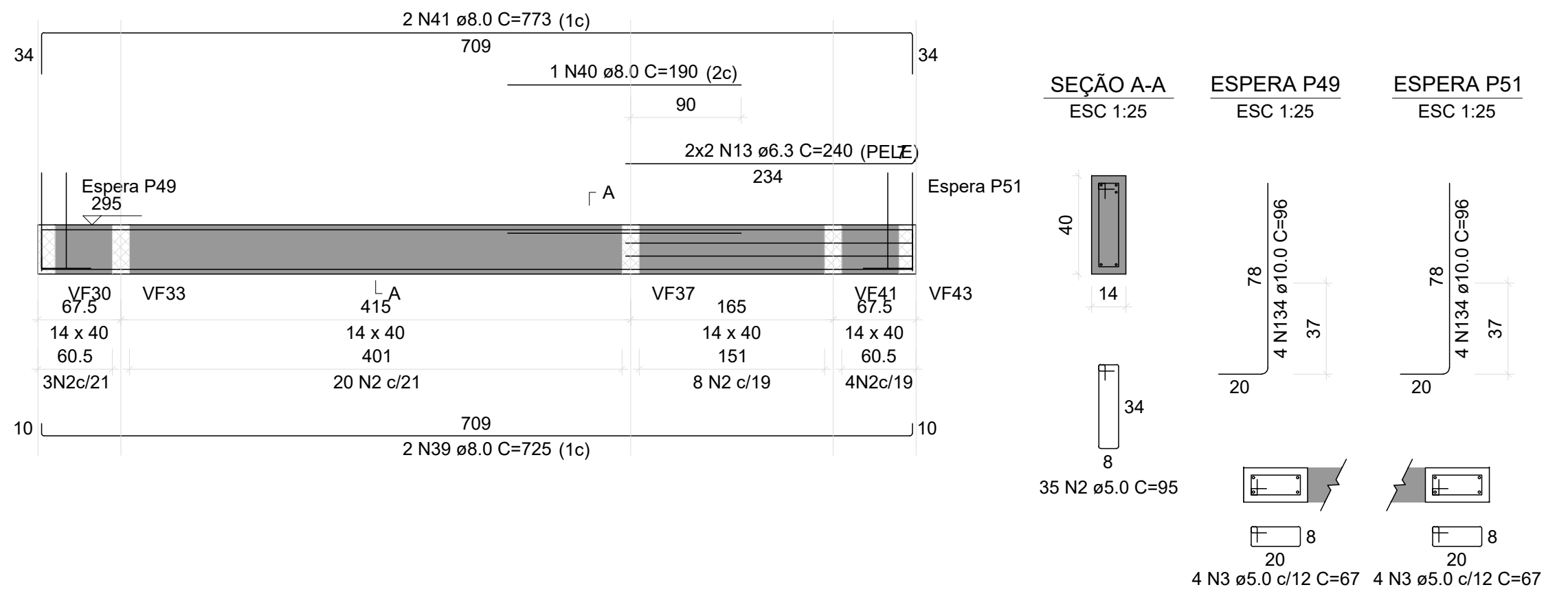
2 N36 ø8.0 C=373 (1c)
2 N35 ø8.0 C=350 (1c)
SEÇÃO A-A
ESC 1:25
20 N1 ø5.0 C=75

VC4
ESC 1:50



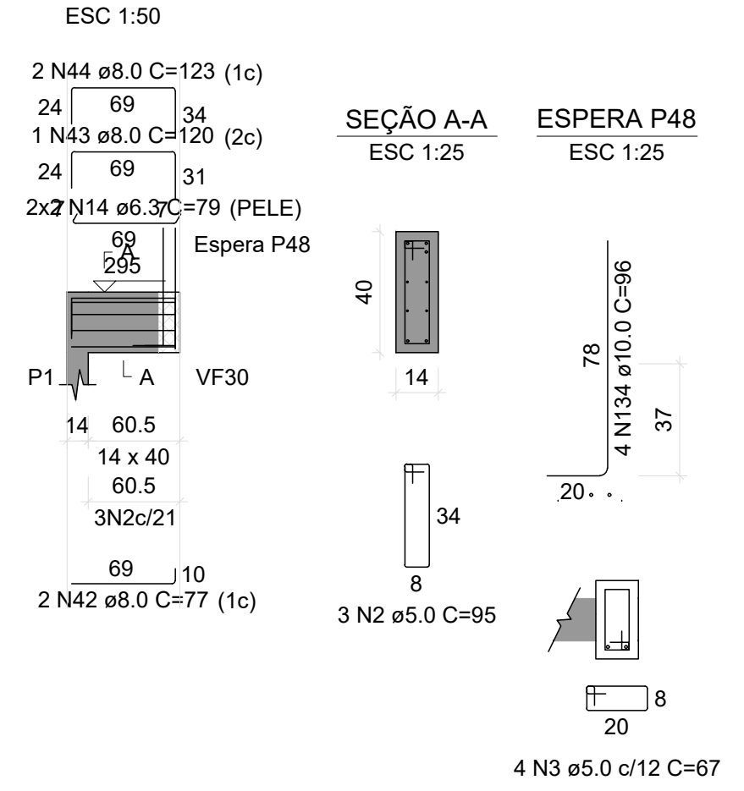
2 N38 ø8.0 C=352 (1c)
2 N37 ø8.0 C=334 (1c)
SEÇÃO A-A
ESC 1:25
20 N1 ø5.0 C=75

VF1
ESC 1:50



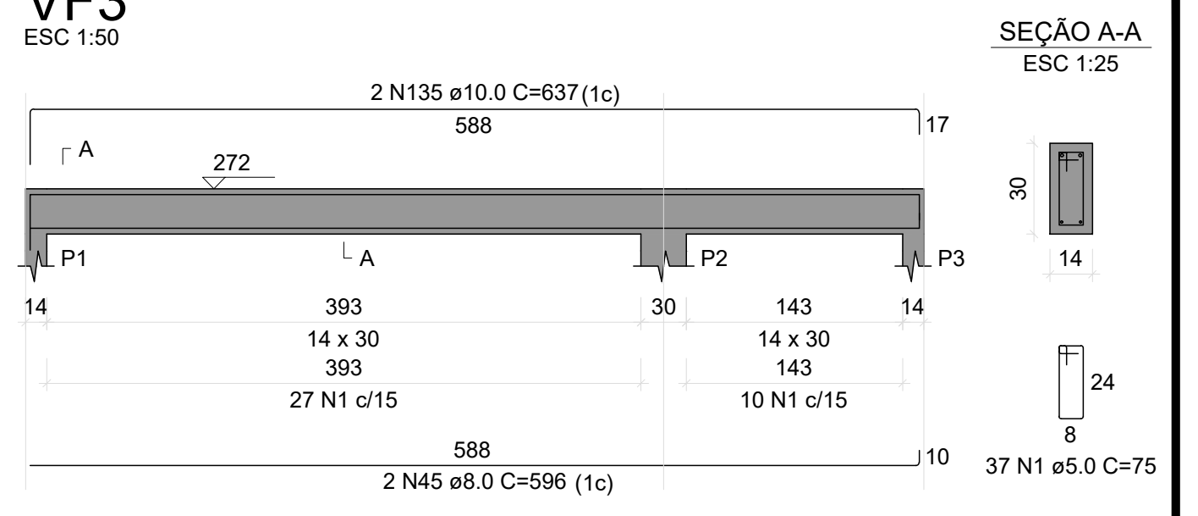
2 N41 ø8.0 C=773 (1c)
1 N40 ø8.0 C=190 (2c)
2x2 N13 ø6.3 C=240 (PELE)
2 N39 ø8.0 C=725 (1c)
SEÇÃO A-A
ESPERA P49
ESPERA P51
35 N2 ø5.0 C=95
4 N3 ø5.0 c/12 C=67
4 N134 ø10.0 C=96

VF2
ESC 1:50



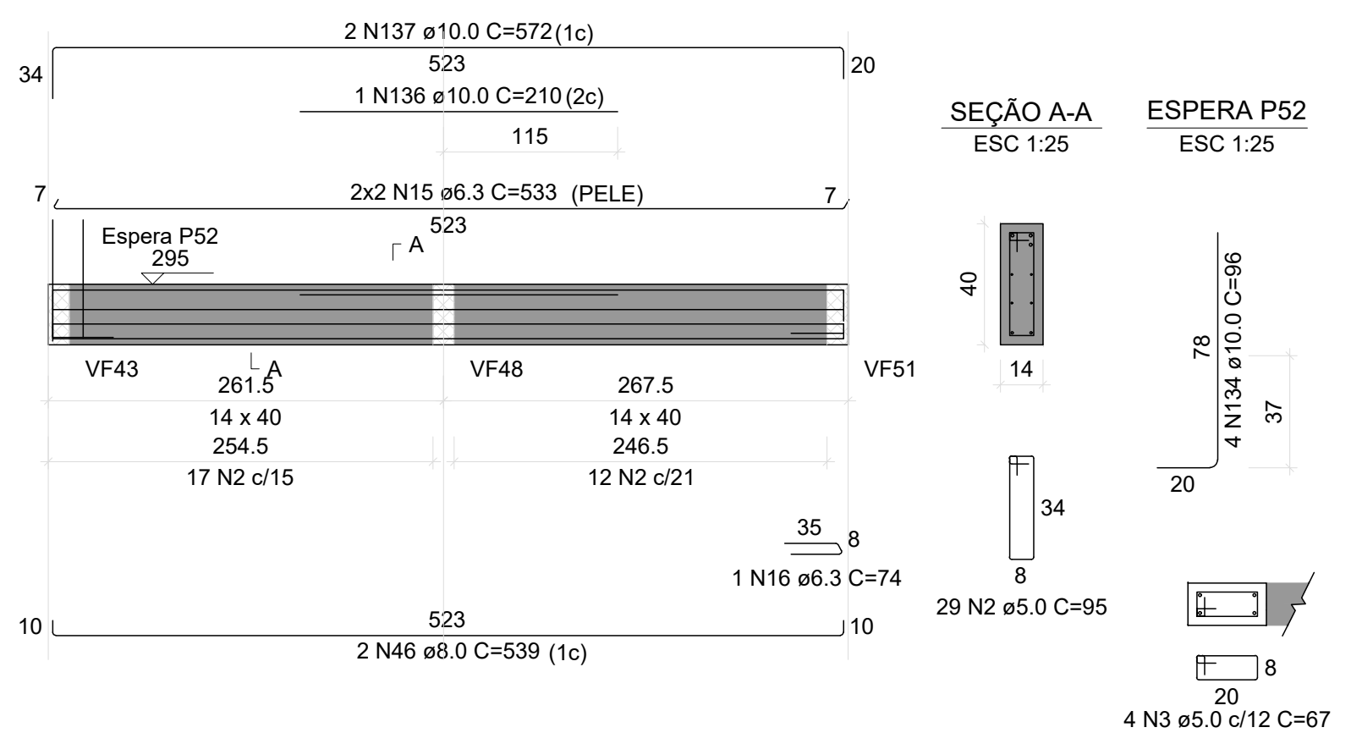
2 N44 ø8.0 C=123 (1c)
1 N43 ø8.0 C=120 (2c)
2x2 N14 ø6.3 C=79 (PELE)
2 N42 ø8.0 C=77 (1c)
SEÇÃO A-A
ESPERA P48
3 N2 ø5.0 C=95
4 N3 ø5.0 c/12 C=67

VF3
ESC 1:50



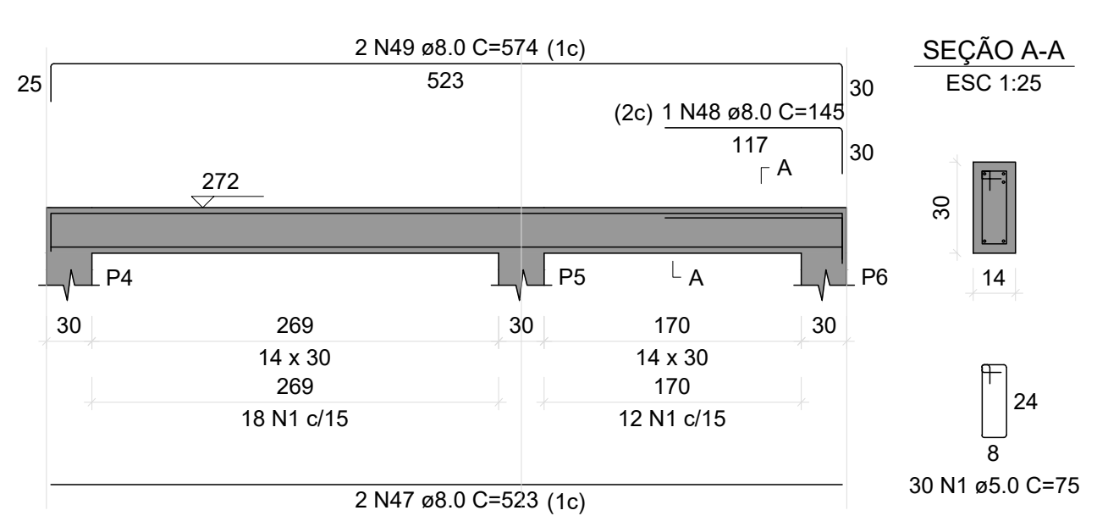
2 N135 ø10.0 C=637 (1c)
2 N45 ø8.0 C=596 (1c)
SEÇÃO A-A
37 N1 ø5.0 C=75

VF4
ESC 1:50



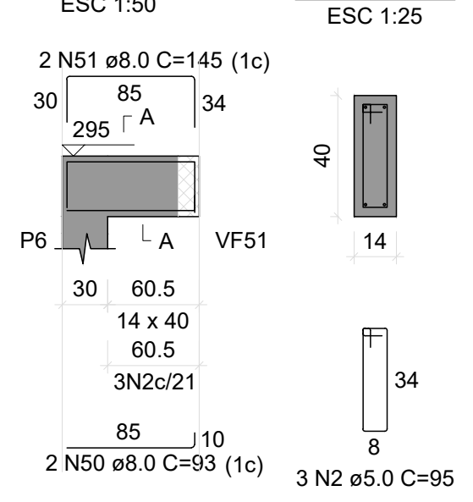
2 N137 ø10.0 C=572 (1c)
1 N136 ø10.0 C=210 (2c)
2x2 N15 ø6.3 C=533 (PELE)
1 N16 ø6.3 C=74
2 N46 ø8.0 C=539 (1c)
SEÇÃO A-A
ESPERA P52
29 N2 ø5.0 C=95
4 N3 ø5.0 c/12 C=67

VF5
ESC 1:50



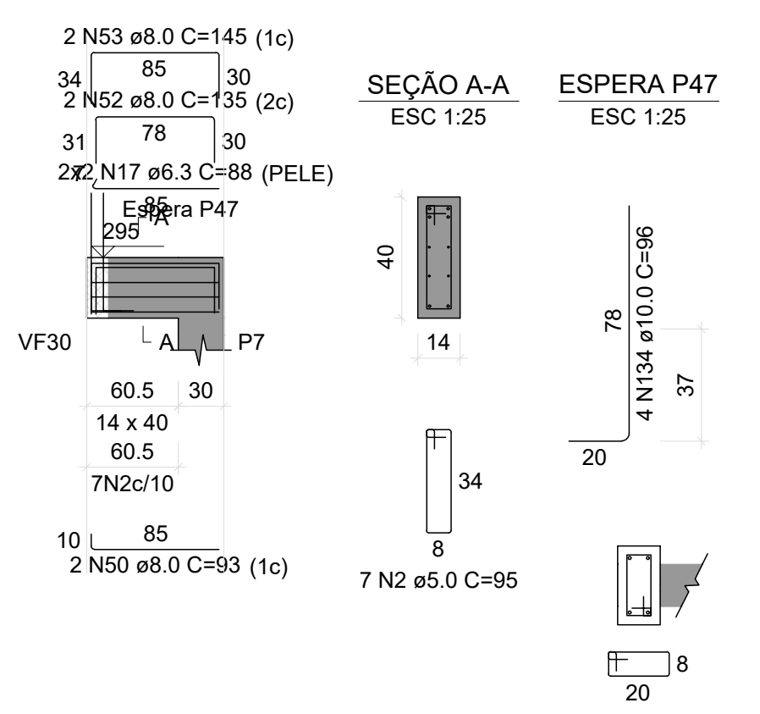
2 N49 ø8.0 C=574 (1c)
(2c) 1 N48 ø8.0 C=145
2 N47 ø8.0 C=523 (1c)
SEÇÃO A-A
30 N1 ø5.0 C=75

VF6
ESC 1:50



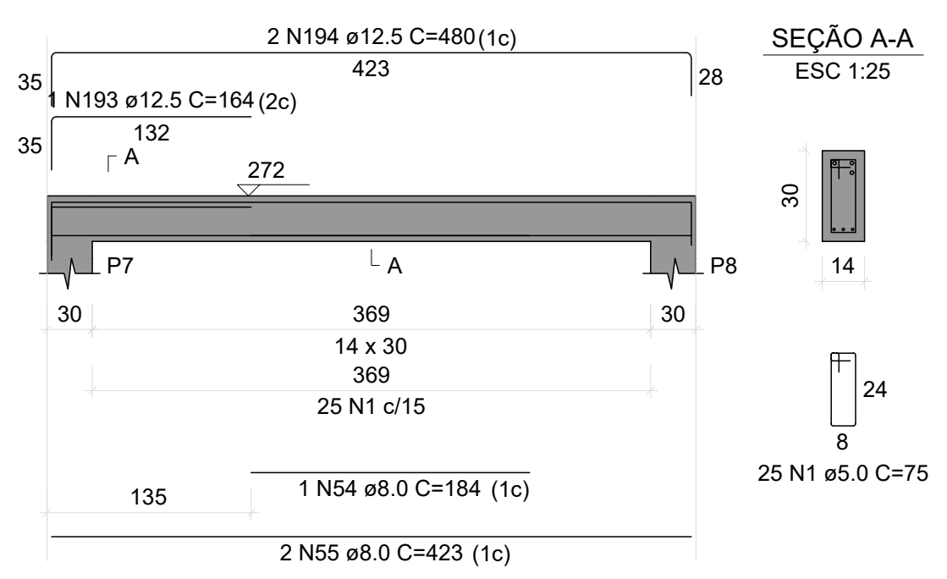
2 N51 ø8.0 C=145 (1c)
2 N50 ø8.0 C=93 (1c)
SEÇÃO A-A
3 N2 ø5.0 C=95

VF7
ESC 1:50



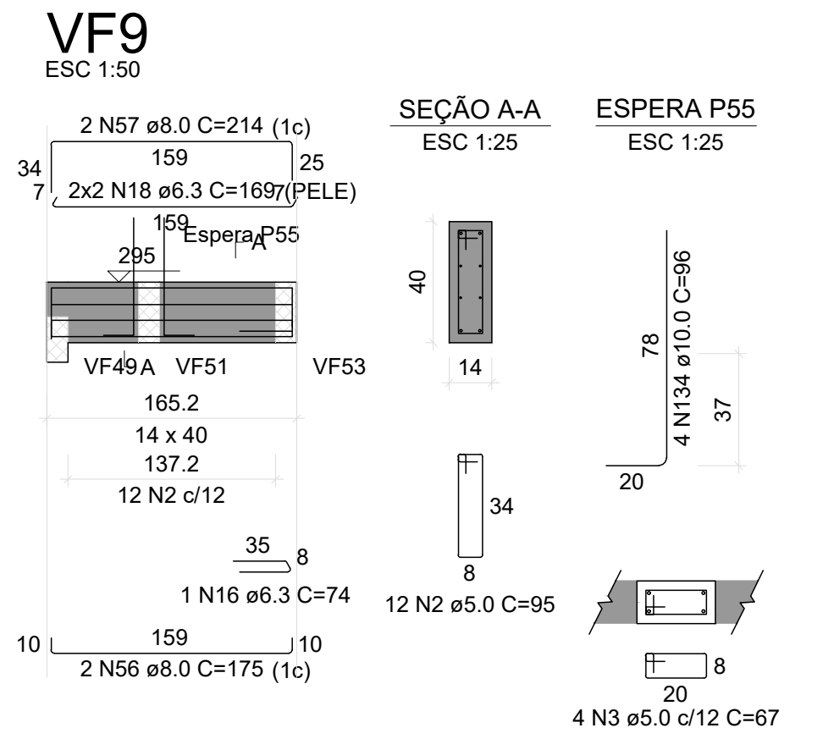
2 N53 ø8.0 C=145 (1c)
2 N52 ø8.0 C=135 (2c)
2x2 N17 ø6.3 C=88 (PELE)
2 N50 ø8.0 C=93 (1c)
SEÇÃO A-A
ESPERA P47
7 N2 ø5.0 C=95
4 N3 ø5.0 c/12 C=67

VF8
ESC 1:50



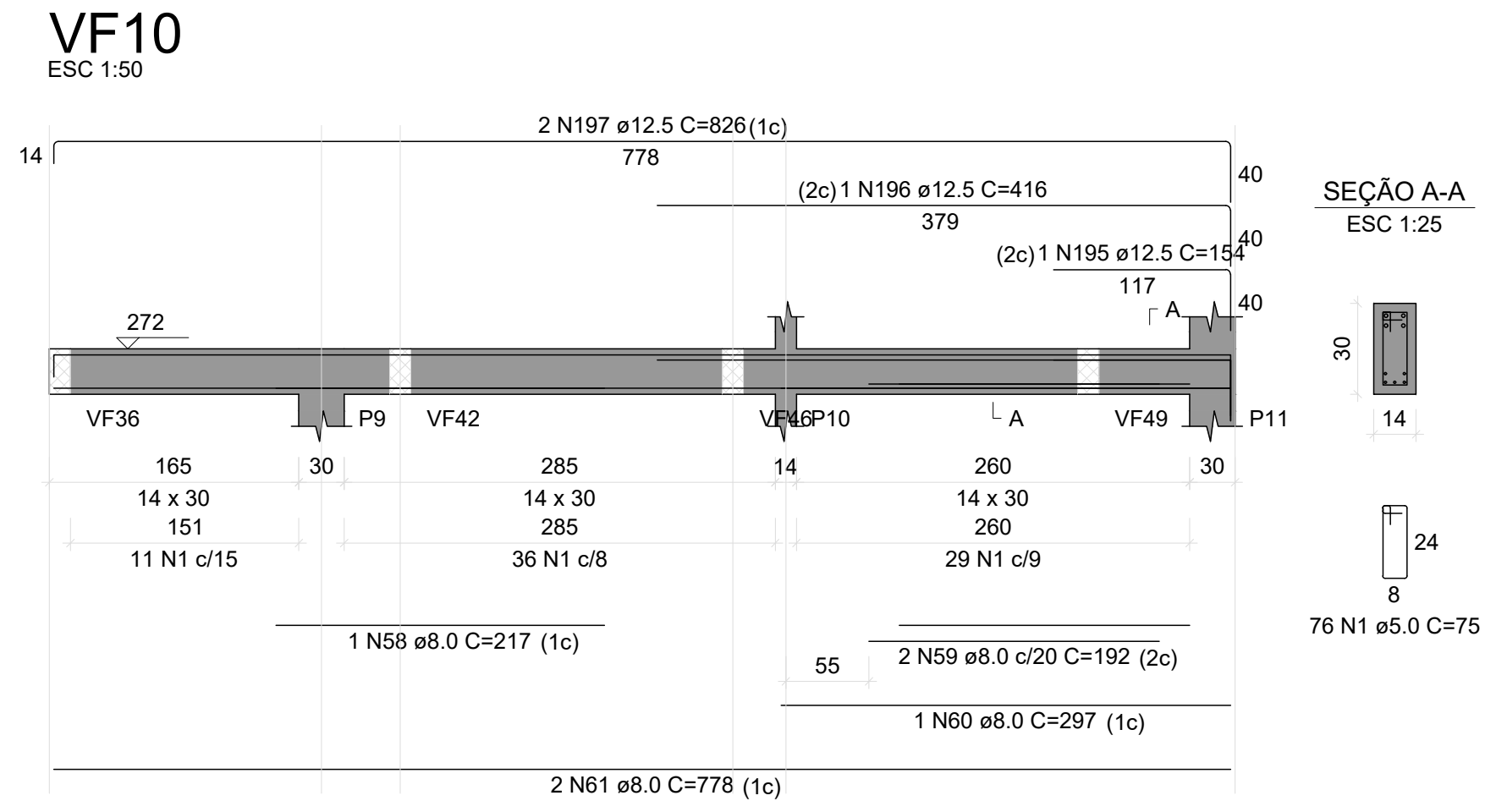
2 N194 ø12.5 C=480 (1c)
1 N193 ø12.5 C=164 (2c)
1 N54 ø8.0 C=184 (1c)
2 N55 ø8.0 C=423 (1c)
SEÇÃO A-A
25 N1 ø5.0 C=75

VF9
ESC 1:50



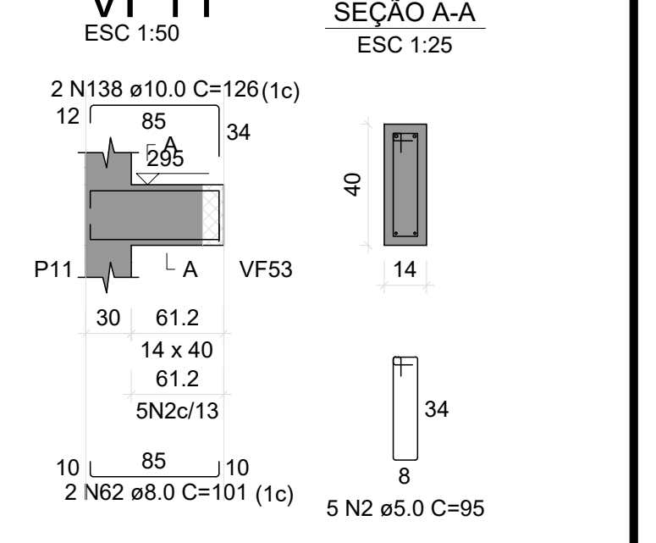
2 N57 ø8.0 C=214 (1c)
2x2 N18 ø6.3 C=169 (PELE)
1 N16 ø6.3 C=74
2 N56 ø8.0 C=175 (1c)
SEÇÃO A-A
ESPERA P55
12 N2 ø5.0 C=95
4 N3 ø5.0 c/12 C=67

VF10
ESC 1:50



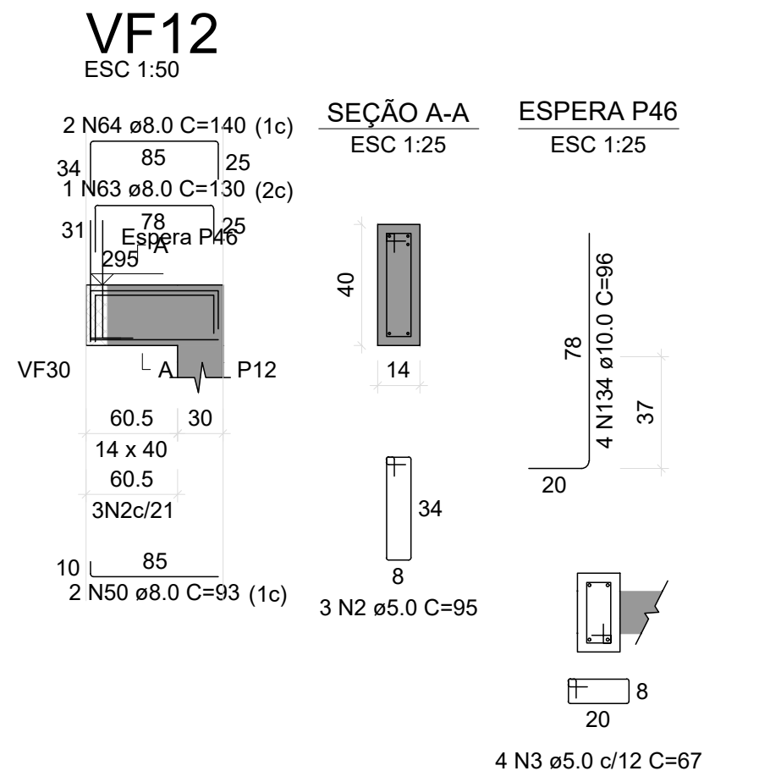
2 N197 ø12.5 C=826 (1c)
(2c) 1 N196 ø12.5 C=416
(2c) 1 N195 ø12.5 C=154
1 N58 ø8.0 C=217 (1c)
2 N59 ø8.0 C=192 (2c)
1 N60 ø8.0 C=297 (1c)
2 N61 ø8.0 C=778 (1c)
SEÇÃO A-A
76 N1 ø5.0 C=75

VF11
ESC 1:50



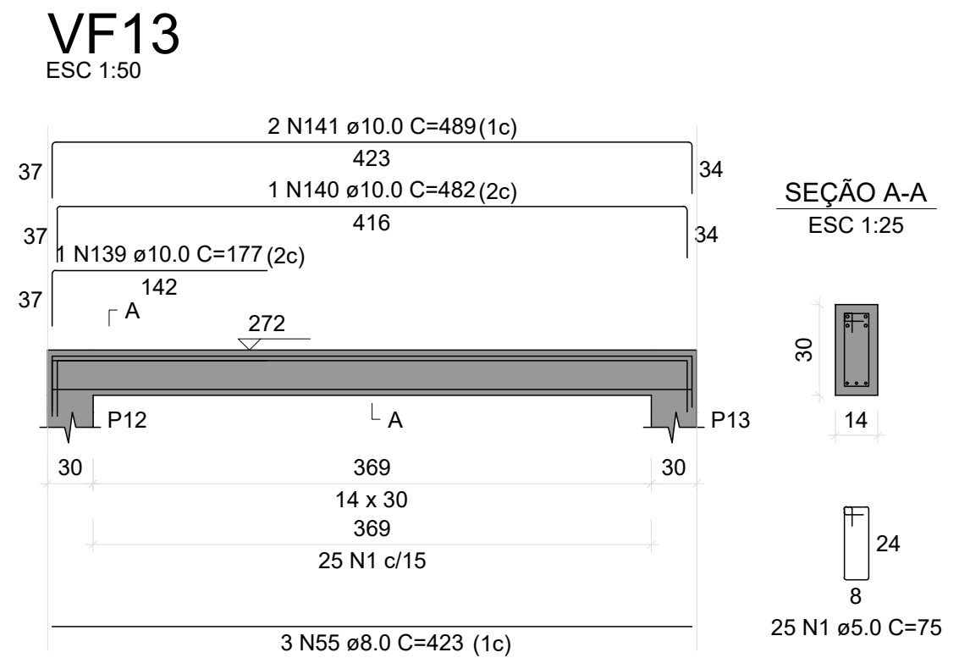
2 N138 ø10.0 C=126 (1c)
2 N62 ø8.0 C=101 (1c)
SEÇÃO A-A
5 N2 ø5.0 C=95

VF12
ESC 1:50



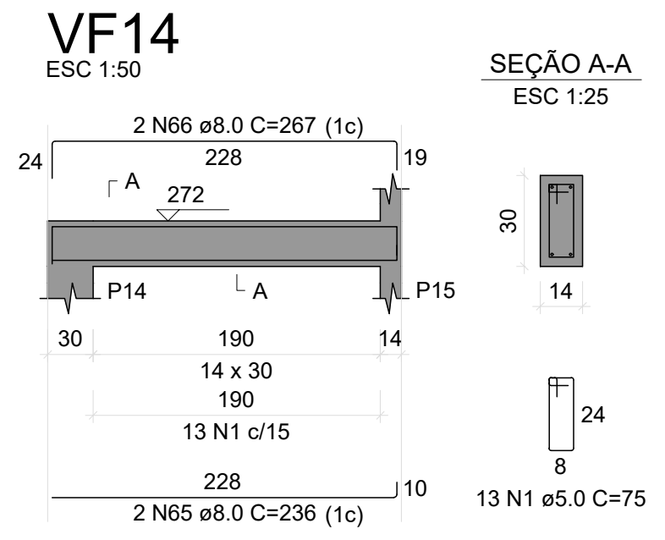
2 N64 ø8.0 C=140 (1c)
1 N63 ø8.0 C=130 (2c)
2 N50 ø8.0 C=93 (1c)
SEÇÃO A-A
ESPERA P46
3 N2 ø5.0 C=95
4 N3 ø5.0 c/12 C=67

VF13
ESC 1:50



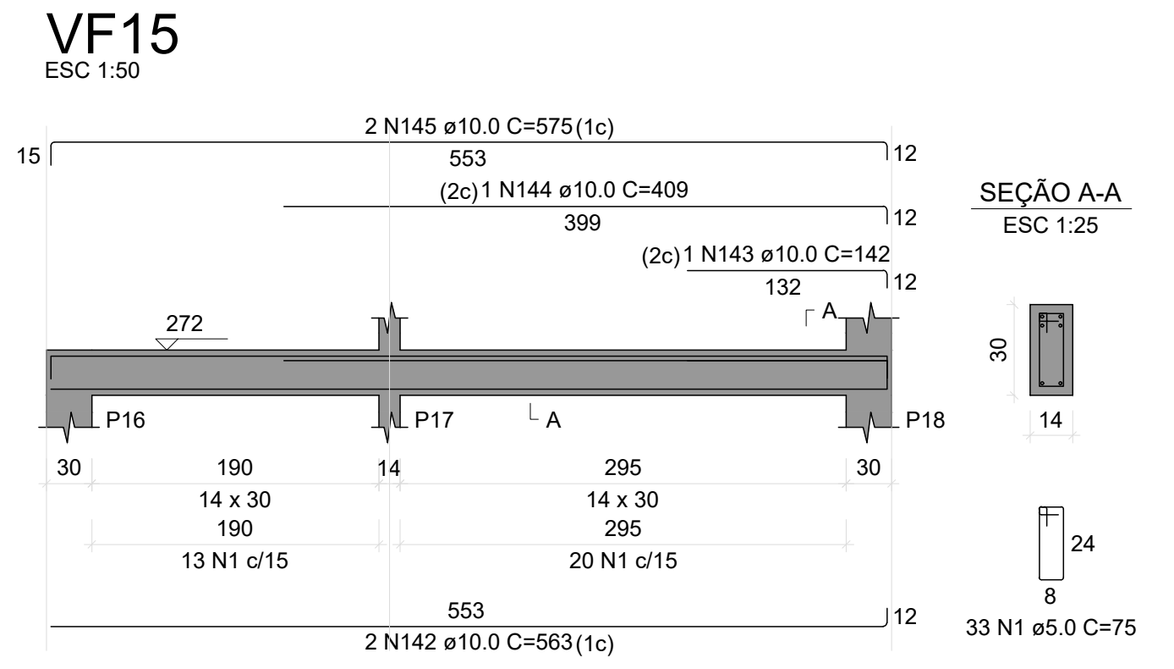
2 N141 ø10.0 C=489 (1c)
1 N140 ø10.0 C=482 (2c)
1 N139 ø10.0 C=177 (2c)
3 N55 ø8.0 C=423 (1c)
SEÇÃO A-A
25 N1 ø5.0 C=75

VF14
ESC 1:50



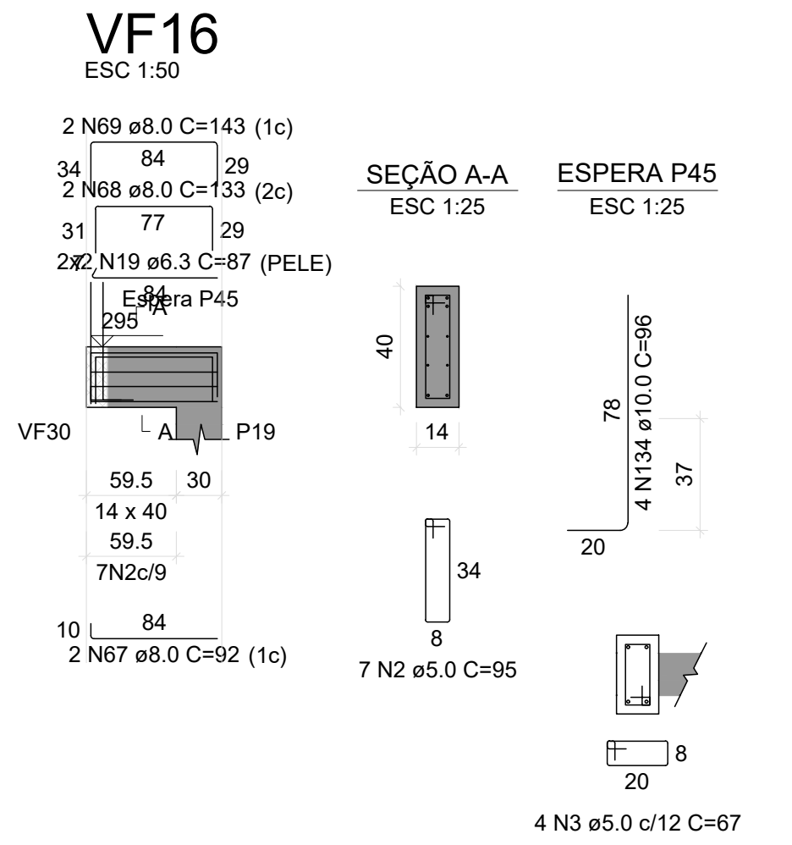
2 N66 ø8.0 C=267 (1c)
2 N65 ø8.0 C=236 (1c)
SEÇÃO A-A
13 N1 ø5.0 C=75

VF15
ESC 1:50



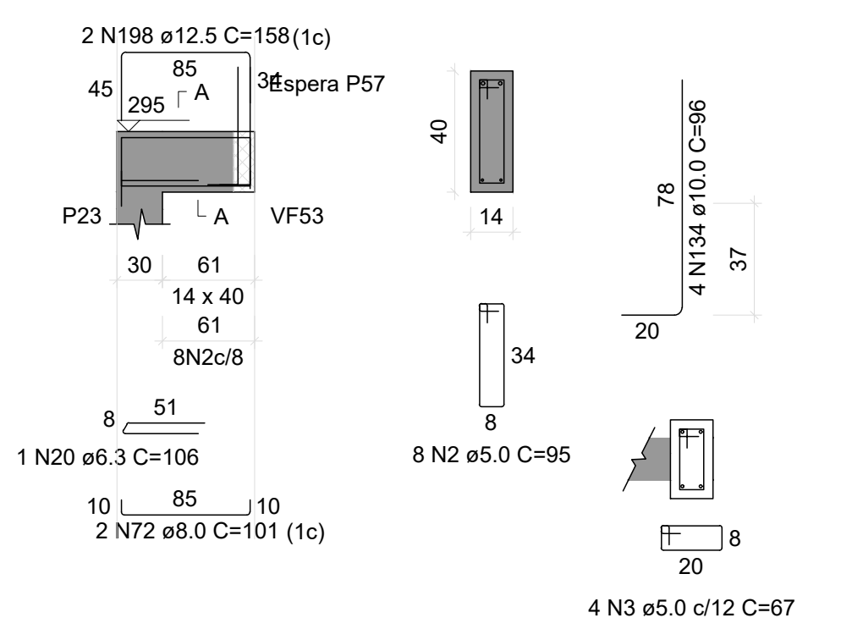
2 N145 ø10.0 C=575 (1c)
(2c) 1 N144 ø10.0 C=409
(2c) 1 N143 ø10.0 C=142
2 N142 ø10.0 C=563 (1c)
SEÇÃO A-A
33 N1 ø5.0 C=75

VF16
ESC 1:50



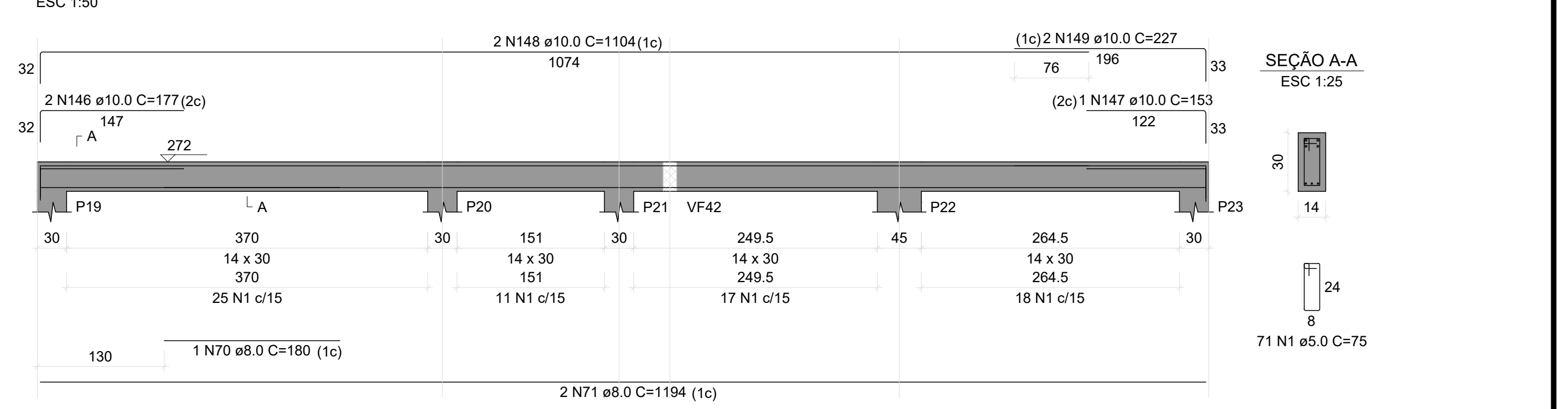
2 N69 ø8.0 C=143 (1c)
2 N68 ø8.0 C=133 (2c)
2x2 N19 ø6.3 C=87 (PELE)
2 N67 ø8.0 C=92 (1c)
SEÇÃO A-A
ESPERA P45
7 N2 ø5.0 C=95
4 N3 ø5.0 c/12 C=67

VF18
ESC 1:50



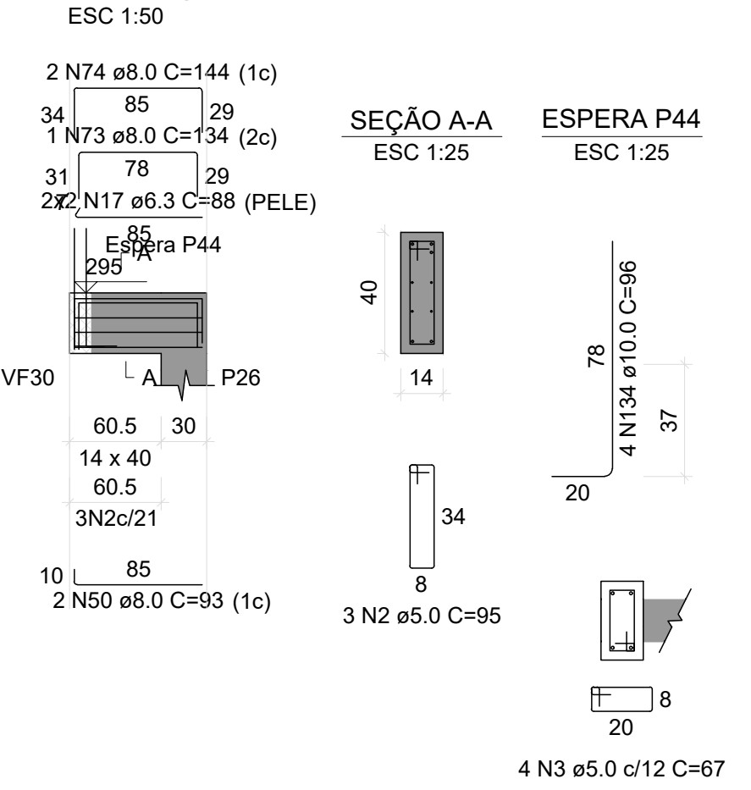
2 N198 ø12.5 C=158 (1c)
1 N20 ø6.3 C=106
2 N72 ø8.0 C=101 (1c)
SEÇÃO A-A
ESPERA P57
8 N2 ø5.0 C=95
4 N3 ø5.0 c/12 C=67

VF17
ESC 1:50



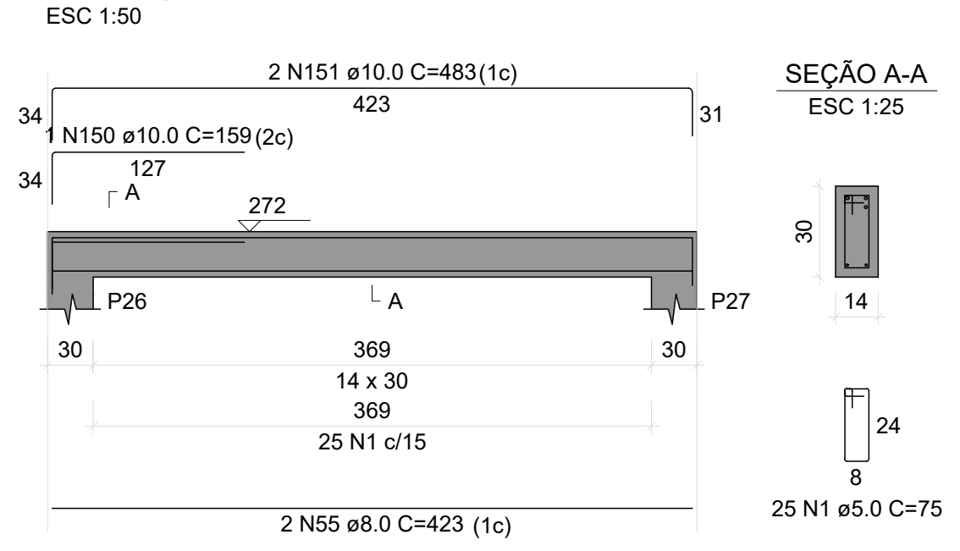
2 N148 ø10.0 C=1104 (1c)
(1c) 2 N149 ø10.0 C=227
2 N146 ø10.0 C=177 (2c)
(2c) 1 N147 ø10.0 C=153
1 N70 ø8.0 C=180 (1c)
2 N71 ø8.0 C=1194 (1c)
SEÇÃO A-A
71 N1 ø5.0 C=75

VF19
ESC 1:50



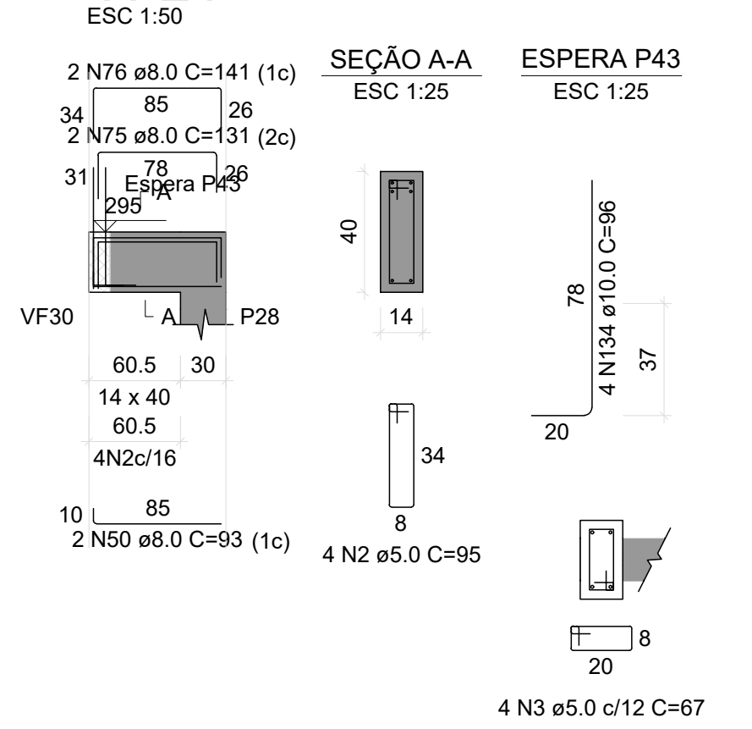
2 N74 ø8.0 C=144 (1c)
1 N73 ø8.0 C=134 (2c)
2x2 N17 ø6.3 C=88 (PELE)
2 N50 ø8.0 C=93 (1c)
SEÇÃO A-A
ESPERA P44
3 N2 ø5.0 C=95
4 N3 ø5.0 c/12 C=67

VF20
ESC 1:50



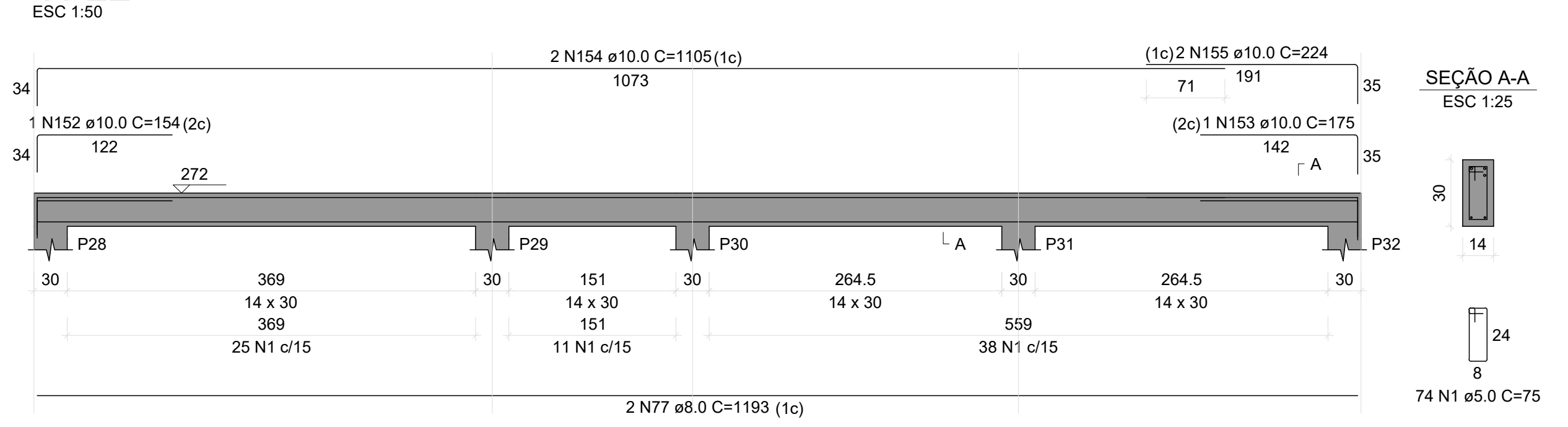
2 N151 ø10.0 C=483 (1c)
1 N150 ø10.0 C=159 (2c)
2 N55 ø8.0 C=423 (1c)
SEÇÃO A-A
25 N1 ø5.0 C=75

VF21
ESC 1:50



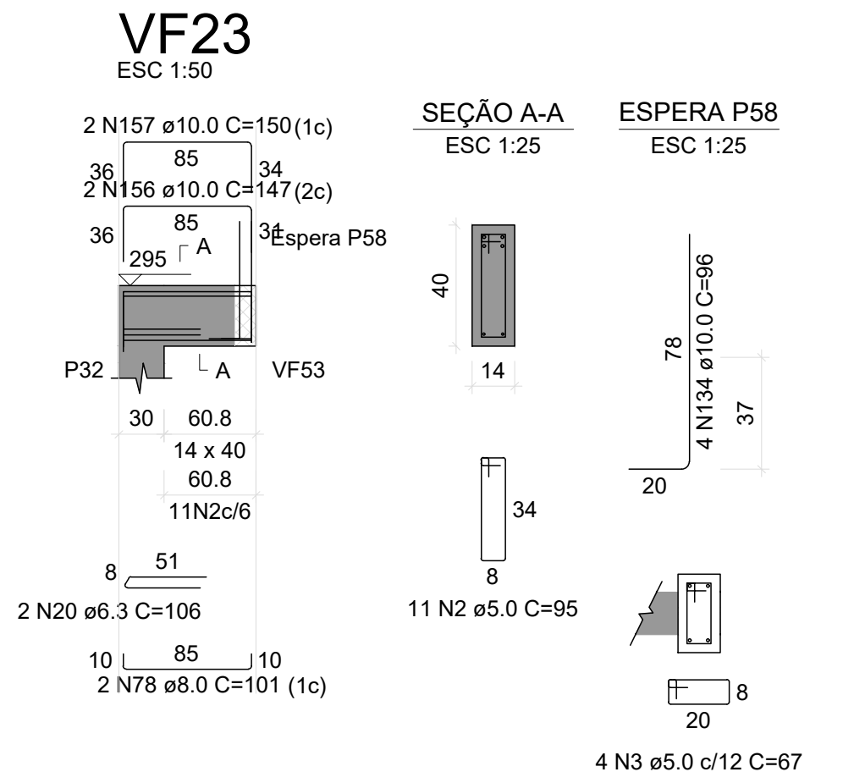
2 N76 ø8.0 C=141 (1c)
2 N75 ø8.0 C=131 (2c)
2 N50 ø8.0 C=93 (1c)
SEÇÃO A-A
ESPERA P43
4 N2 ø5.0 C=95
4 N3 ø5.0 c/12 C=67

VF22
ESC 1:50



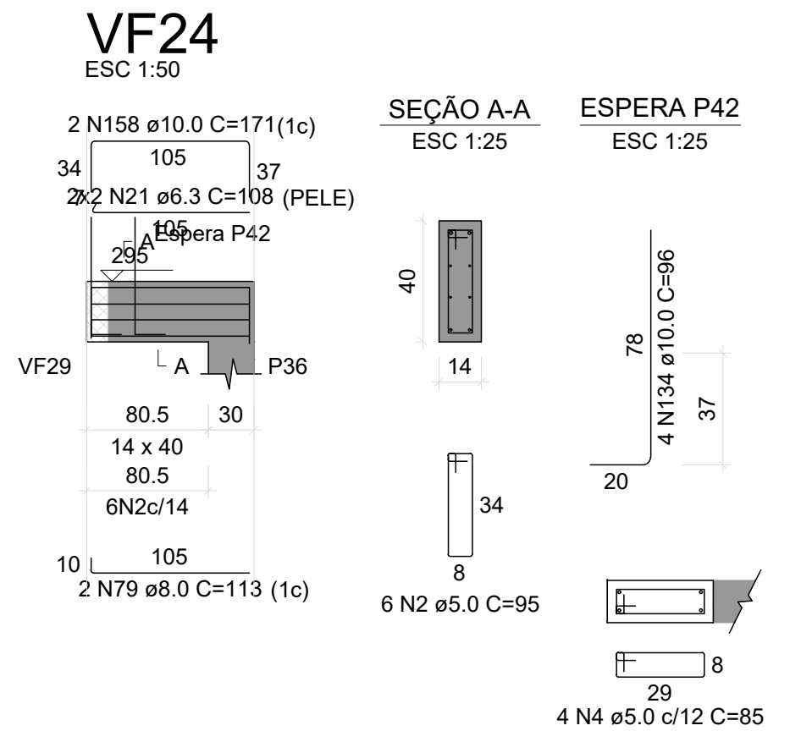
2 N154 ø10.0 C=1105 (1c)
(1c) 2 N155 ø10.0 C=224
1 N152 ø10.0 C=154 (2c)
(2c) 1 N153 ø10.0 C=175
2 N77 ø8.0 C=1193 (1c)
SEÇÃO A-A
74 N1 ø5.0 C=75

VF23
ESC 1:50



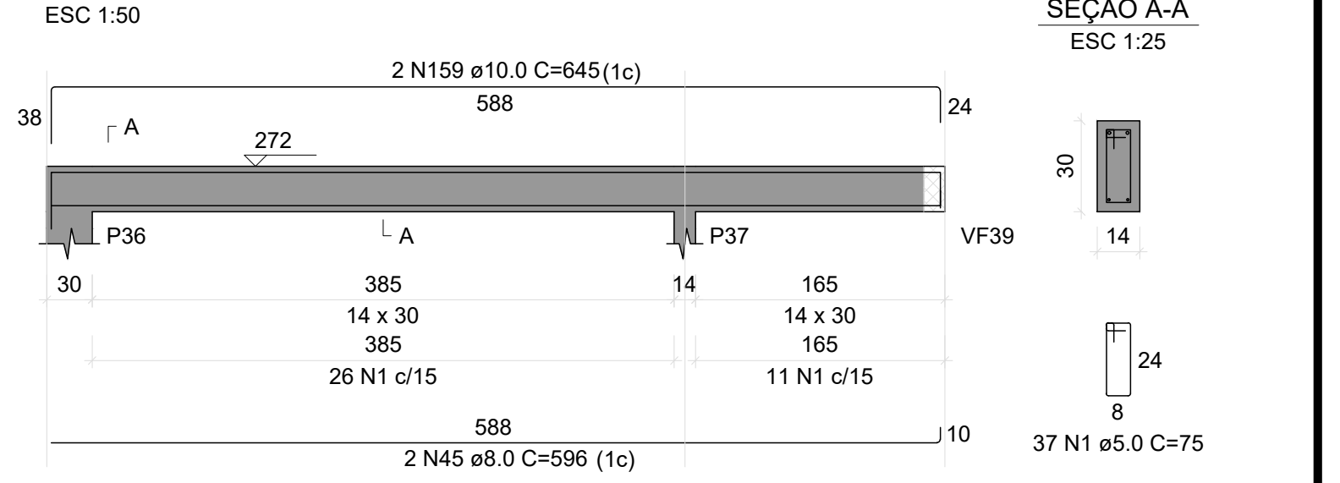
2 N157 ø10.0 C=150 (1c)
2 N156 ø10.0 C=147 (2c)
2 N20 ø6.3 C=106
2 N78 ø8.0 C=101 (1c)
SEÇÃO A-A
ESPERA P58
11 N2 ø5.0 C=95
4 N3 ø5.0 c/12 C=67

VF24
ESC 1:50



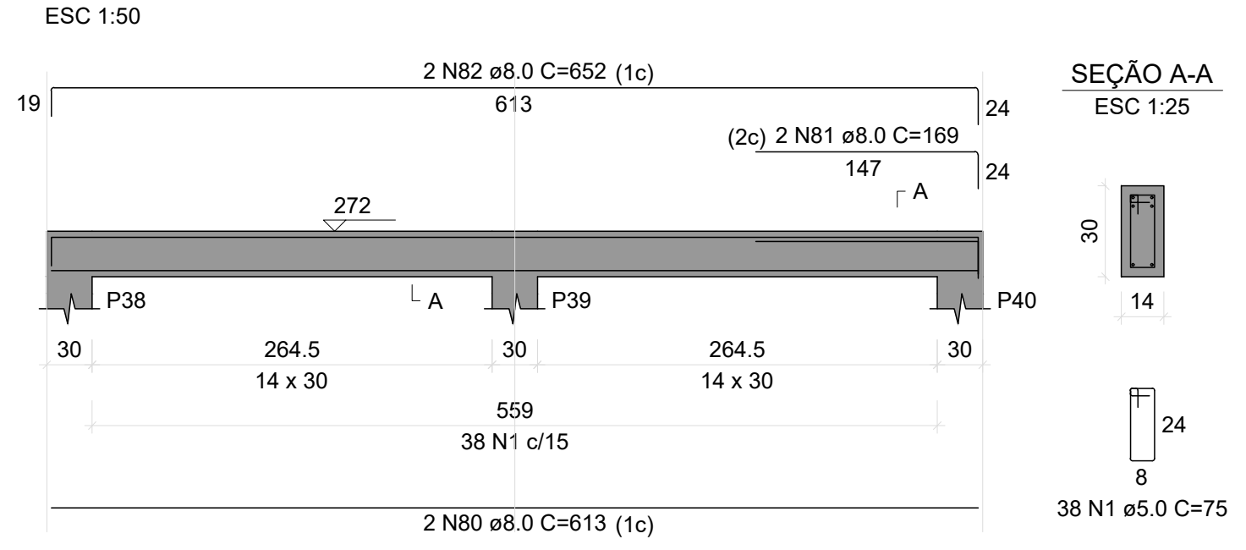
2 N158 ø10.0 C=171 (1c)
2x2 N21 ø6.3 C=108 (PELE)
2 N79 ø8.0 C=113 (1c)
SEÇÃO A-A
ESPERA P42
6 N2 ø5.0 C=95
4 N4 ø5.0 c/12 C=85

VF25
ESC 1:50



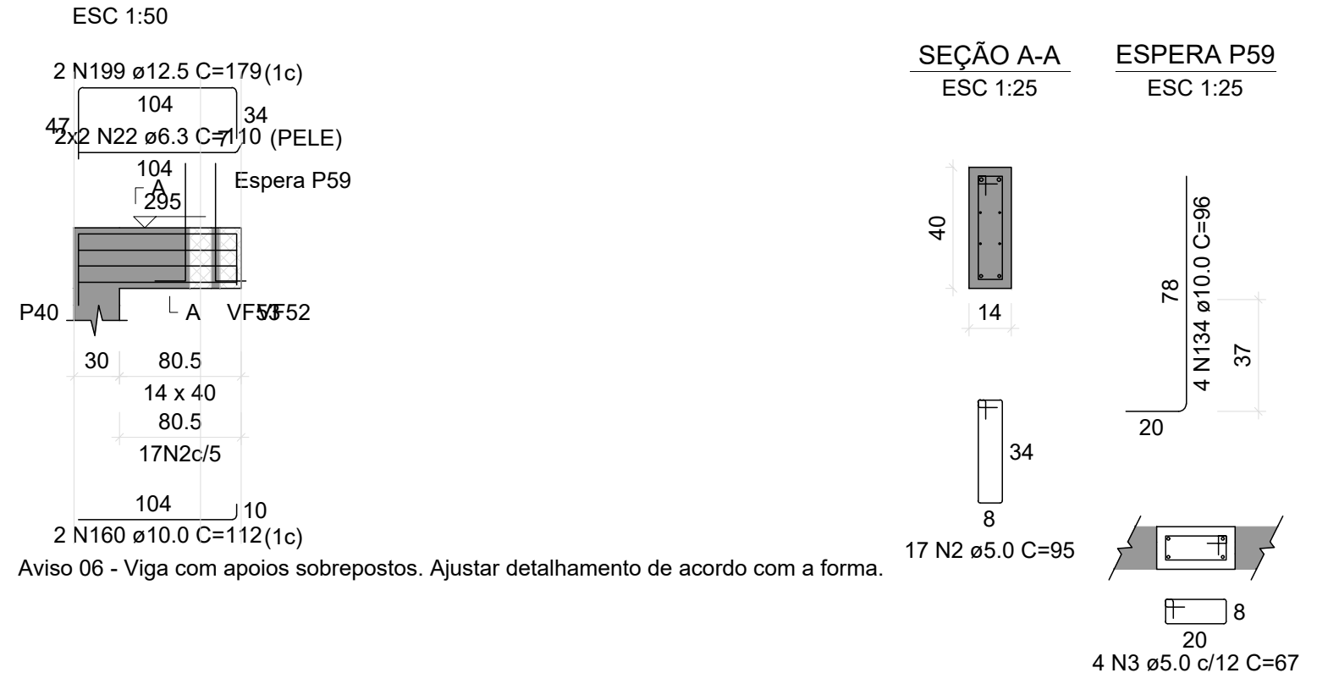
2 N159 ø10.0 C=645 (1c)
2 N45 ø8.0 C=596 (1c)
SEÇÃO A-A
37 N1 ø5.0 C=75

VF26
ESC 1:50



2 N82 ø8.0 C=652 (1c)
(2c) 2 N81 ø8.0 C=169
2 N80 ø8.0 C=613 (1c)
SEÇÃO A-A
38 N1 ø5.0 C=75

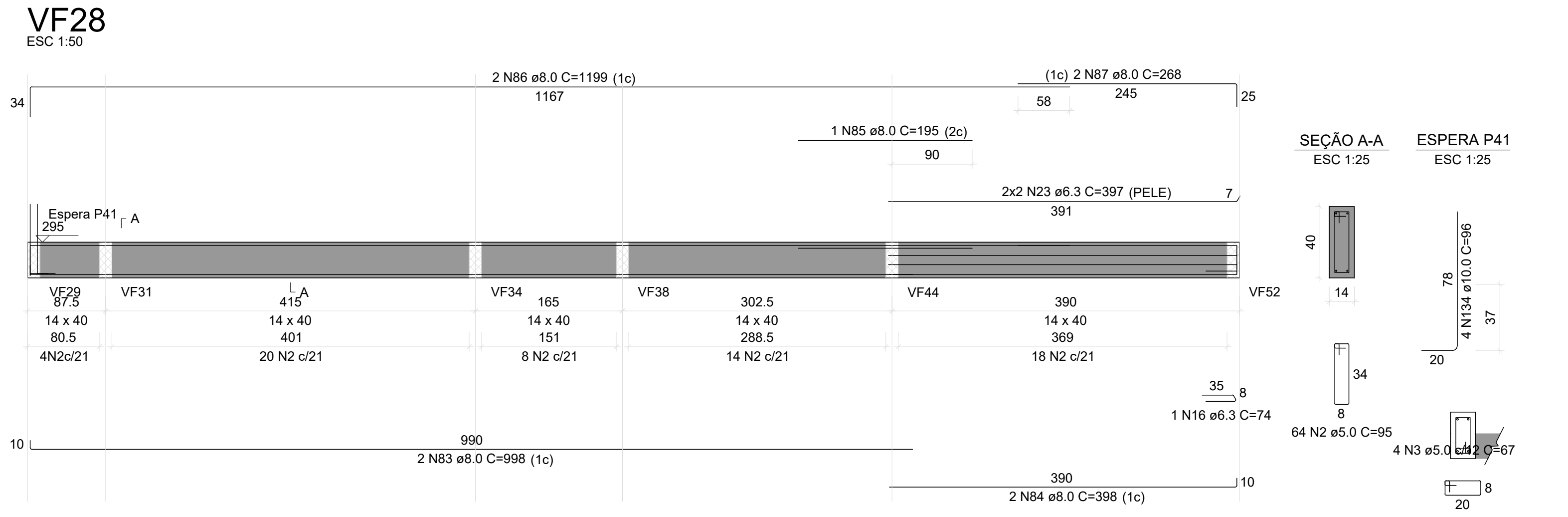
VF27
ESC 1:50



2 N199 ø12.5 C=179 (1c)
2x2 N22 ø6.3 C=110 (PELE)
2 N160 ø10.0 C=112 (1c)
SEÇÃO A-A
ESPERA P59
17 N2 ø5.0 C=95
4 N3 ø5.0 c/12 C=67

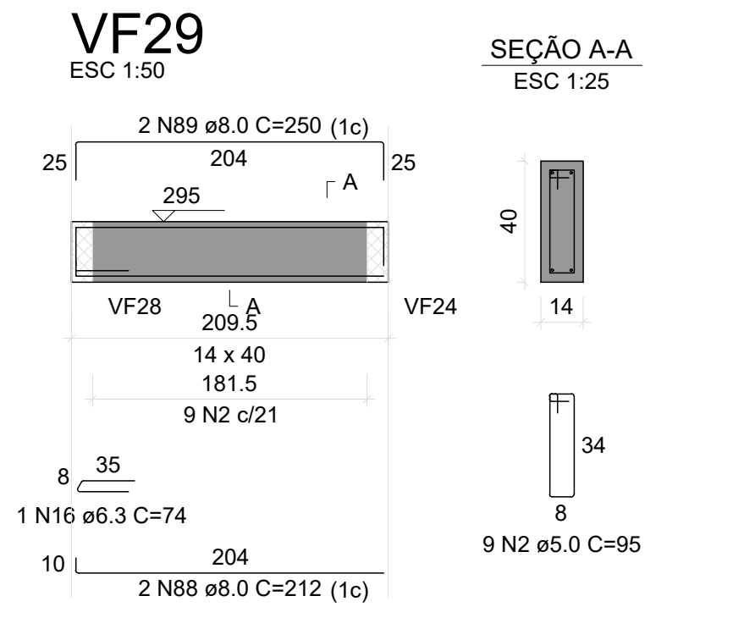
Aviso 06 - Viga com apoios sobrepostos. Ajustar detalhamento de acordo com a forma.

VF28
ESC 1:50



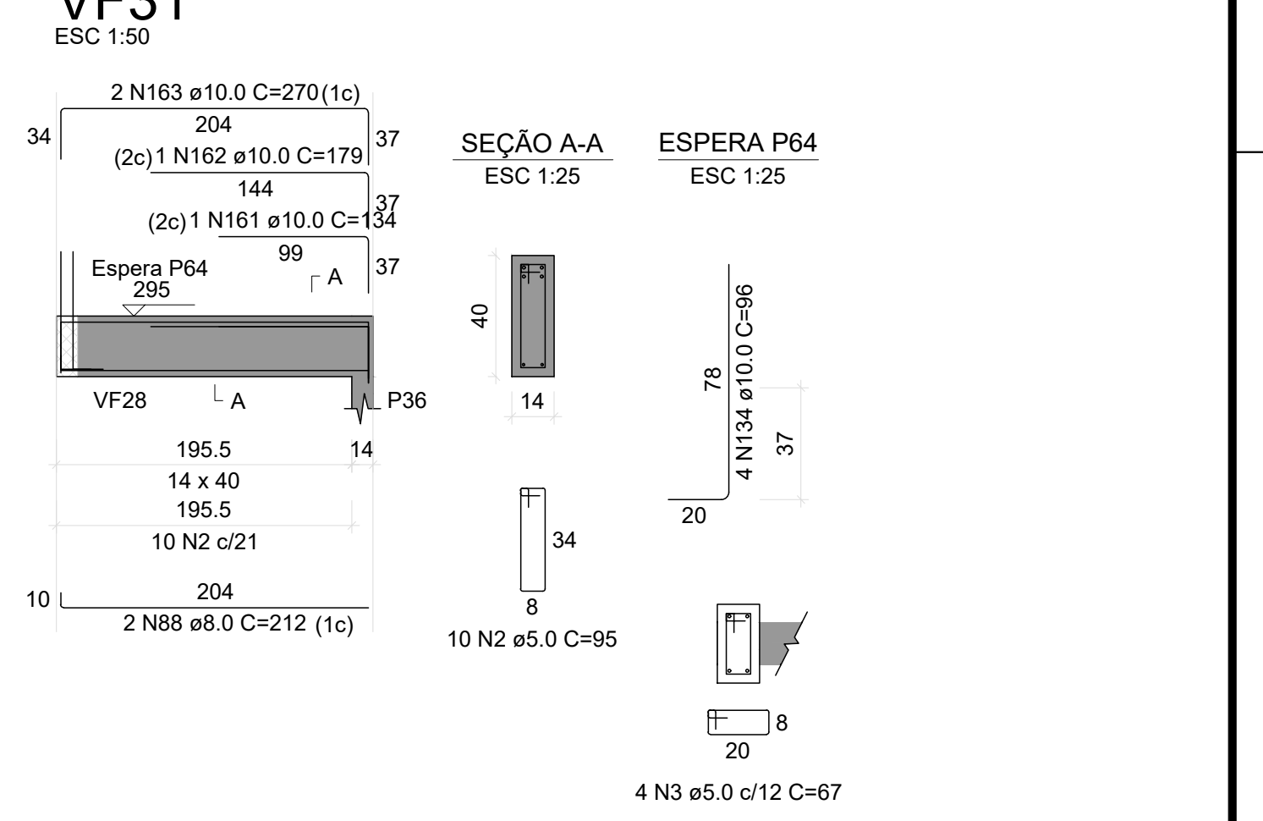
2 N86 ø8.0 C=1199 (1c)
(1c) 2 N87 ø8.0 C=268
1 N85 ø8.0 C=195 (2c)
2x2 N23 ø6.3 C=397 (PELE)
1 N16 ø6.3 C=74
2 N83 ø8.0 C=998 (1c)
2 N84 ø8.0 C=398 (1c)
SEÇÃO A-A
ESPERA P41
64 N2 ø5.0 C=95
4 N3 ø5.0 c/12 C=67

VF29
ESC 1:50



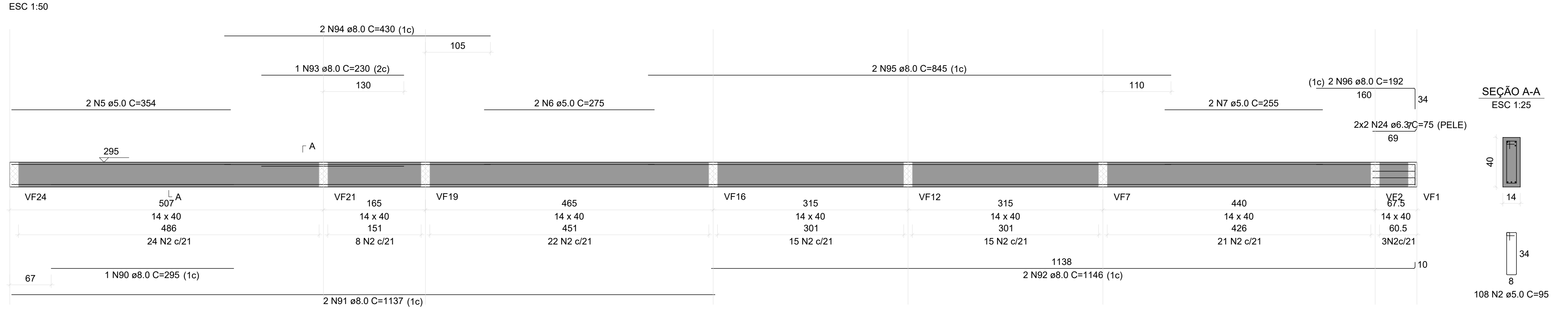
2 N89 ø8.0 C=250 (1c)
1 N16 ø6.3 C=74
2 N88 ø8.0 C=212 (1c)
SEÇÃO A-A
9 N2 ø5.0 C=95

VF31
ESC 1:50



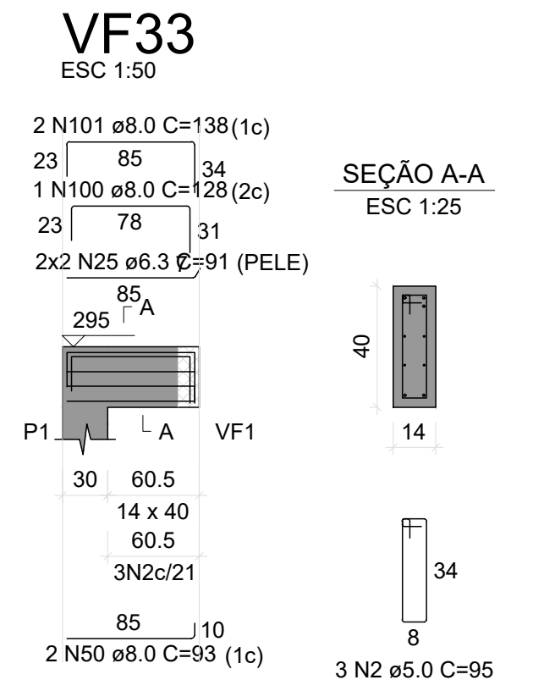
2 N163 ø10.0 C=270 (1c)
(2c) 1 N162 ø10.0 C=179
(2c) 1 N161 ø10.0 C=134
2 N88 ø8.0 C=212 (1c)
SEÇÃO A-A
ESPERA P64
10 N2 ø5.0 C=95
4 N3 ø5.0 c/12 C=67

VF30
ESC 1:50



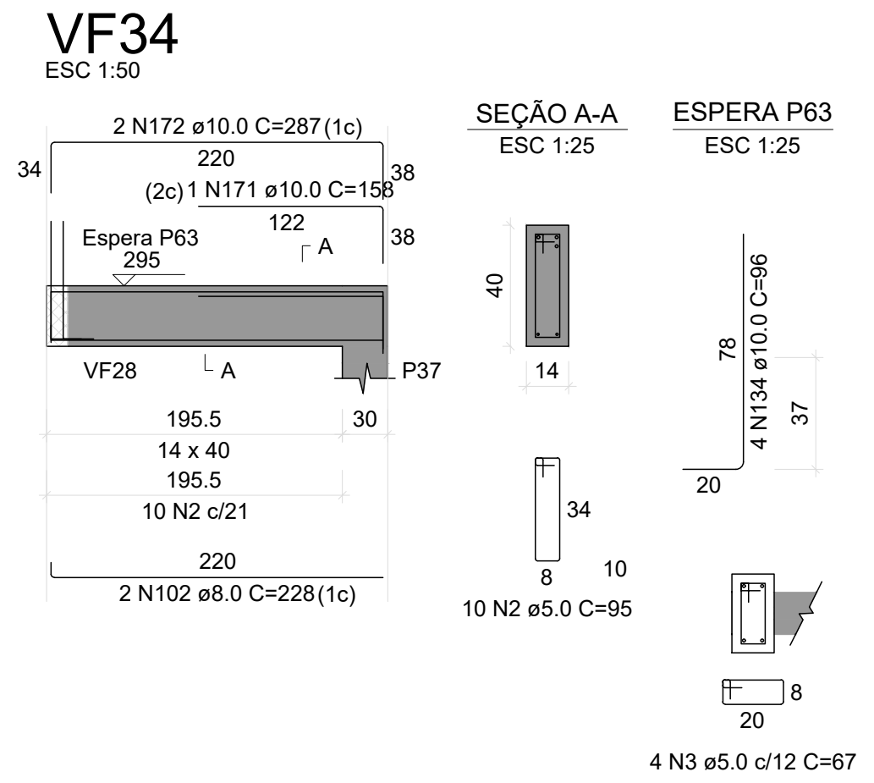
2 N94 ø8.0 C=430 (1c)
1 N93 ø8.0 C=230 (2c)
2 N95 ø8.0 C=845 (1c)
2 N5 ø5.0 C=354
2 N6 ø5.0 C=275
2 N7 ø5.0 C=255
(1c) 2 N96 ø8.0 C=192
2x2 N24 ø6.3 C=75 (PELE)
1 N90 ø8.0 C=295 (1c)
2 N92 ø8.0 C=1146 (1c)
2 N91 ø8.0 C=1137 (1c)
SEÇÃO A-A
108 N2 ø5.0 C=95

VF33
ESC 1:50



2 N101 ø8.0 C=138 (1c)
1 N100 ø8.0 C=128 (2c)
2x2 N25 ø6.3 C=91 (PELE)
2 N50 ø8.0 C=93 (1c)
SEÇÃO A-A
3 N2 ø5.0 C=95

VF34
ESC 1:50



2 N172 ø10.0 C=287 (1c)
(2c) 1 N171 ø10.0 C=158
2 N102 ø8.0 C=228 (1c)
SEÇÃO A-A
ESPERA P63
10 N2 ø5.0 C=95
4 N3 ø5.0 c/12 C=67

**ESTADO DE MATO GROSSO**
**PREFEITURA MUNICIPAL DE BARRA DO GARÇAS**
**CNPJ 03.439.239/0001-50**
**Rua Carajás, 522 centro - Barra do Garças MT - CEP 78.600-000**

SECRETARIA MUNICIPAL DE PLANEJAMENTO URBANO E OBRAS

Folha : 05/07

COORDENADAS: 15°53'43,1"S 52°19'33,2"W

Obra : PROJETO CRAS

APROVAÇÃO

Conteúdo : VIGAS

Local : RUA DOUTOR PERES S/N, ES. JD DOS IPÊS

Propriedade : Prefeitura Municipal Barra do Garças

PROPRIETÁRIO:
PREFEITURA MUNICIPAL DE BARRA DO GARÇAS

Autor do projeto:
JHONATAN CONCEICAO DOS SANTOS:05339922146
Assinado de forma digital por JHONATAN CONCEICAO DOS SANTOS:05339922146
Dados: 2025.04.28 16:41:33 -03'00'
JHONATAN C. SANTOS
ENG. CIVIL - CREA-MT 47792

Área Construída: 259,51 m²
Dimensões: Metros
Escala : INDICADA
Arquivo : CAD
Data : 02/09/2024
Projetista : Autor