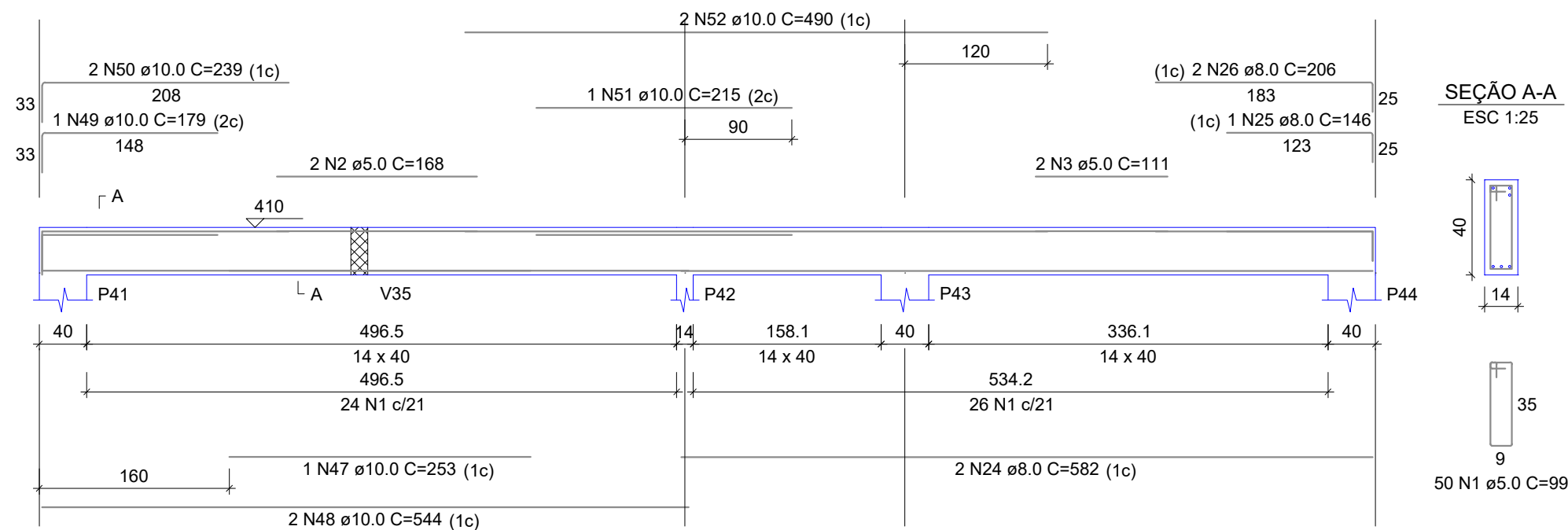


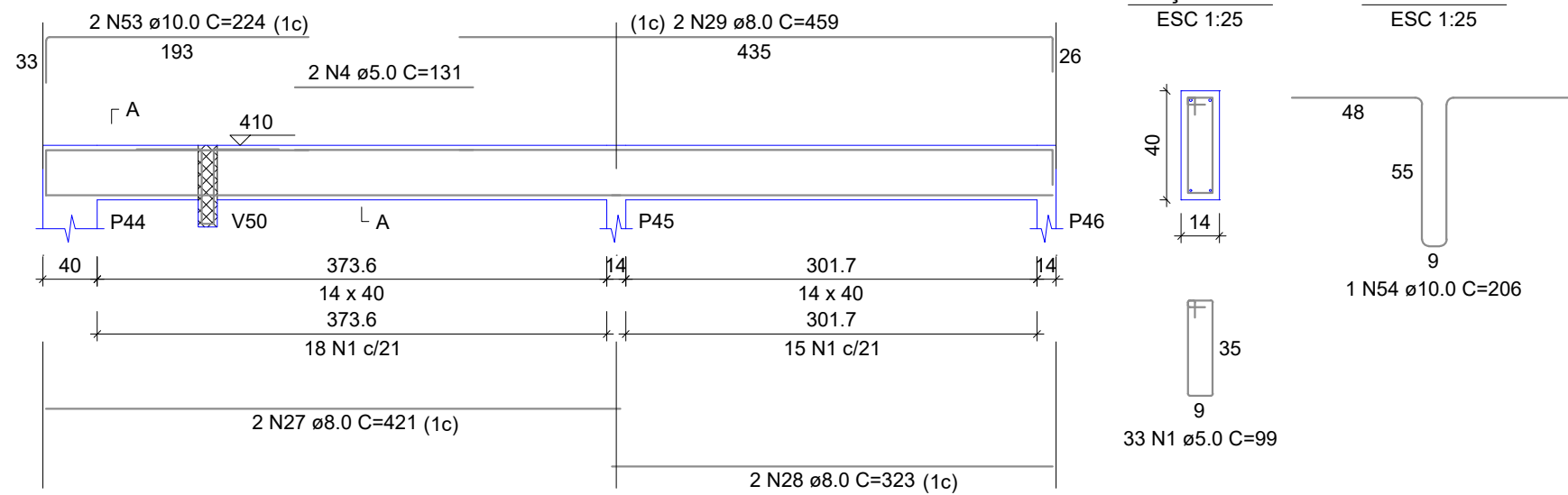
V19

ESC 1:50



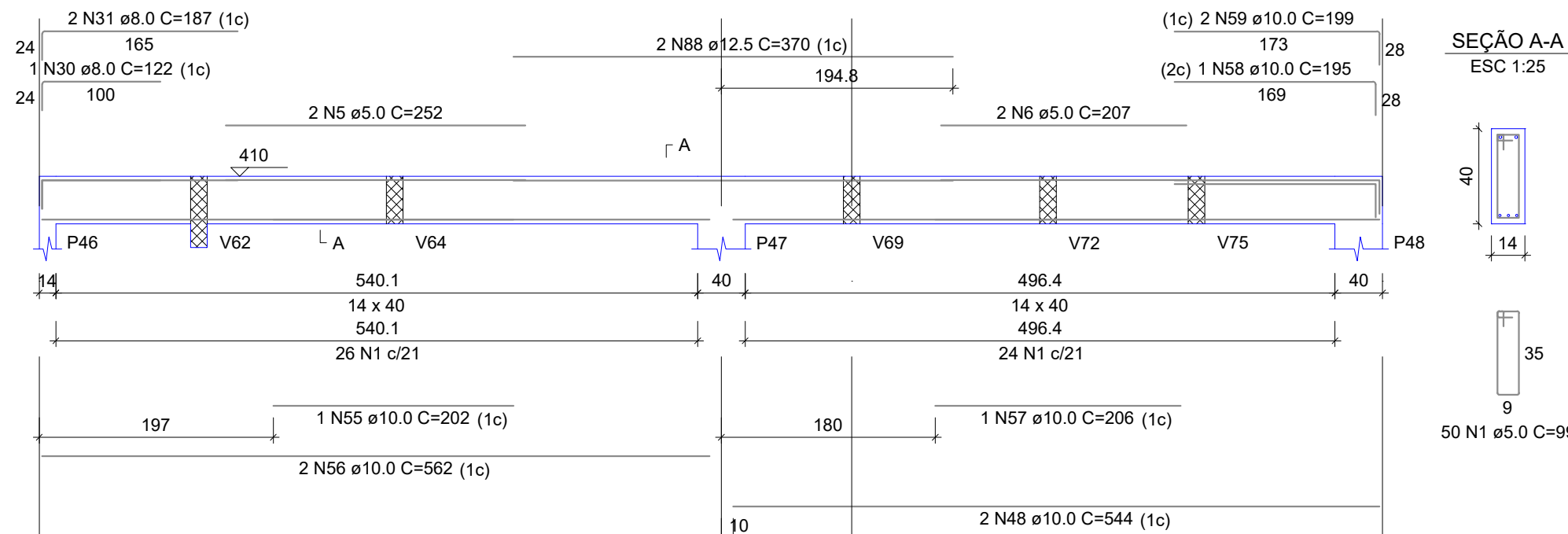
V20

ESC 1:50



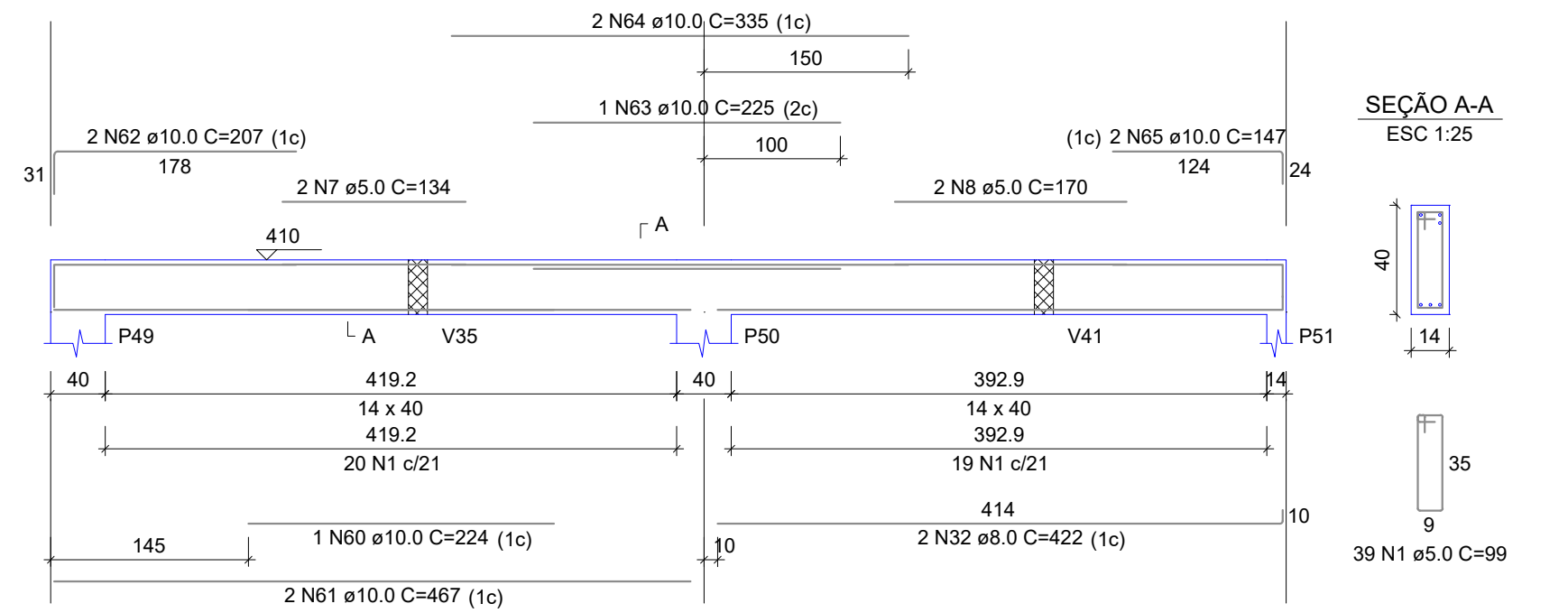
V21

ESC 1:50



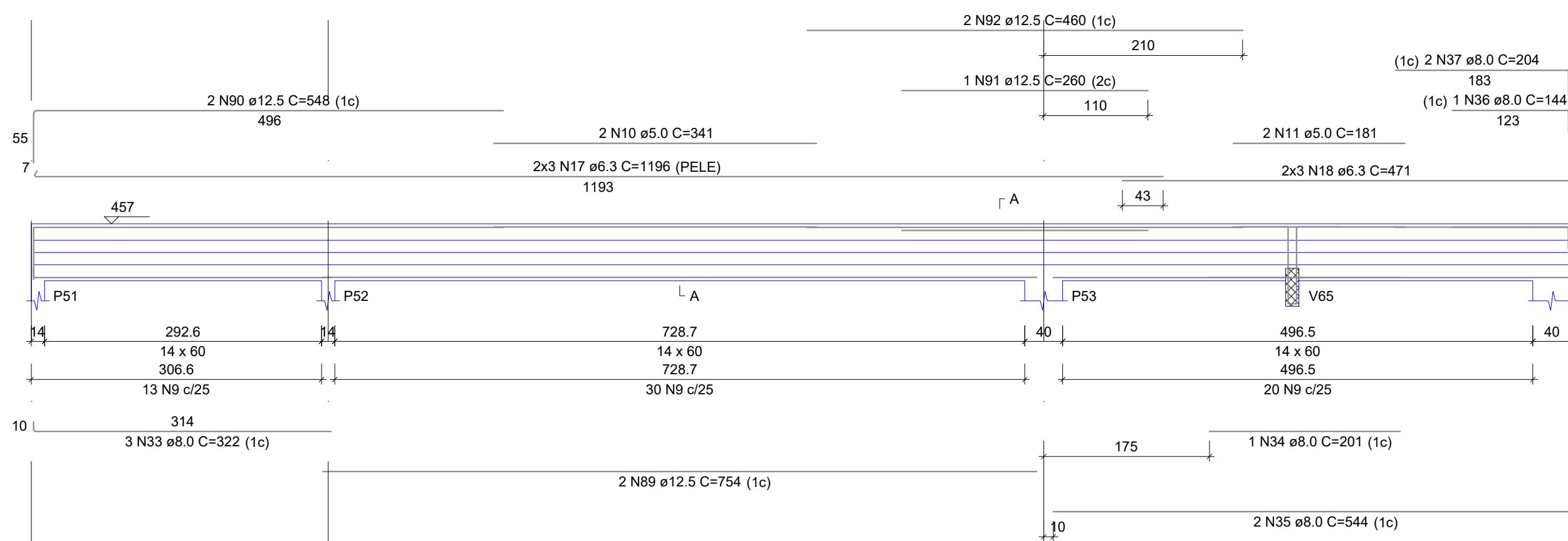
V22

ESC 1:50



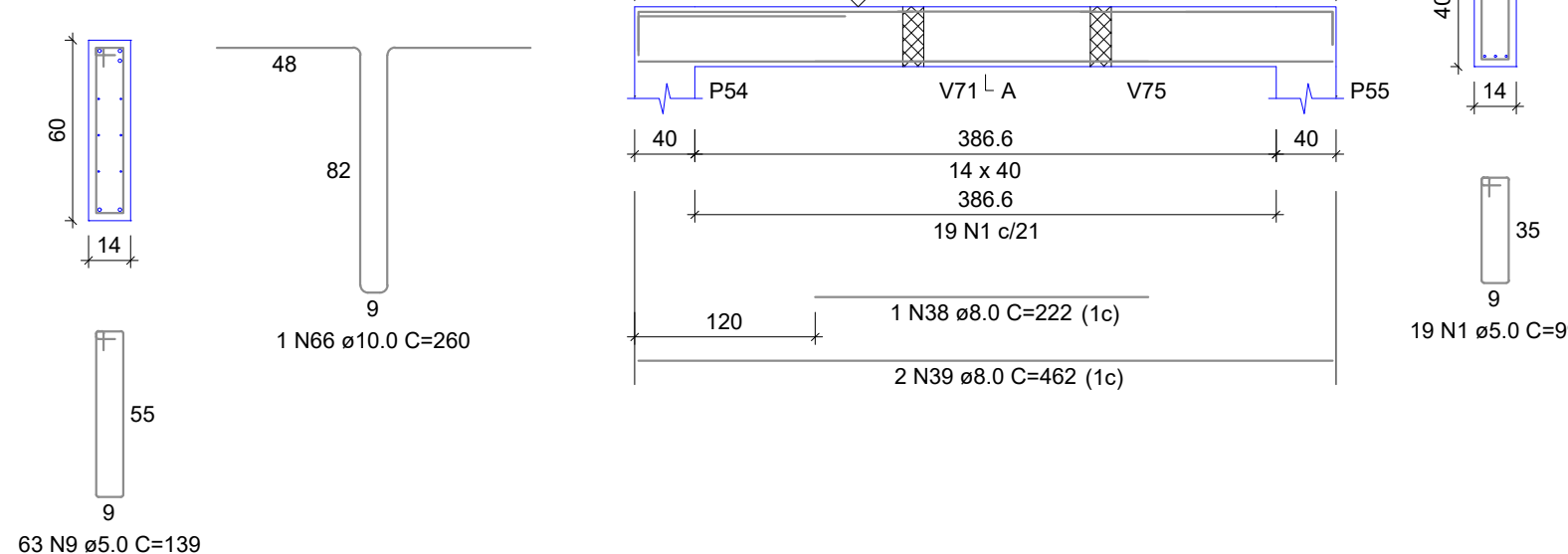
V23

ESC 1:50



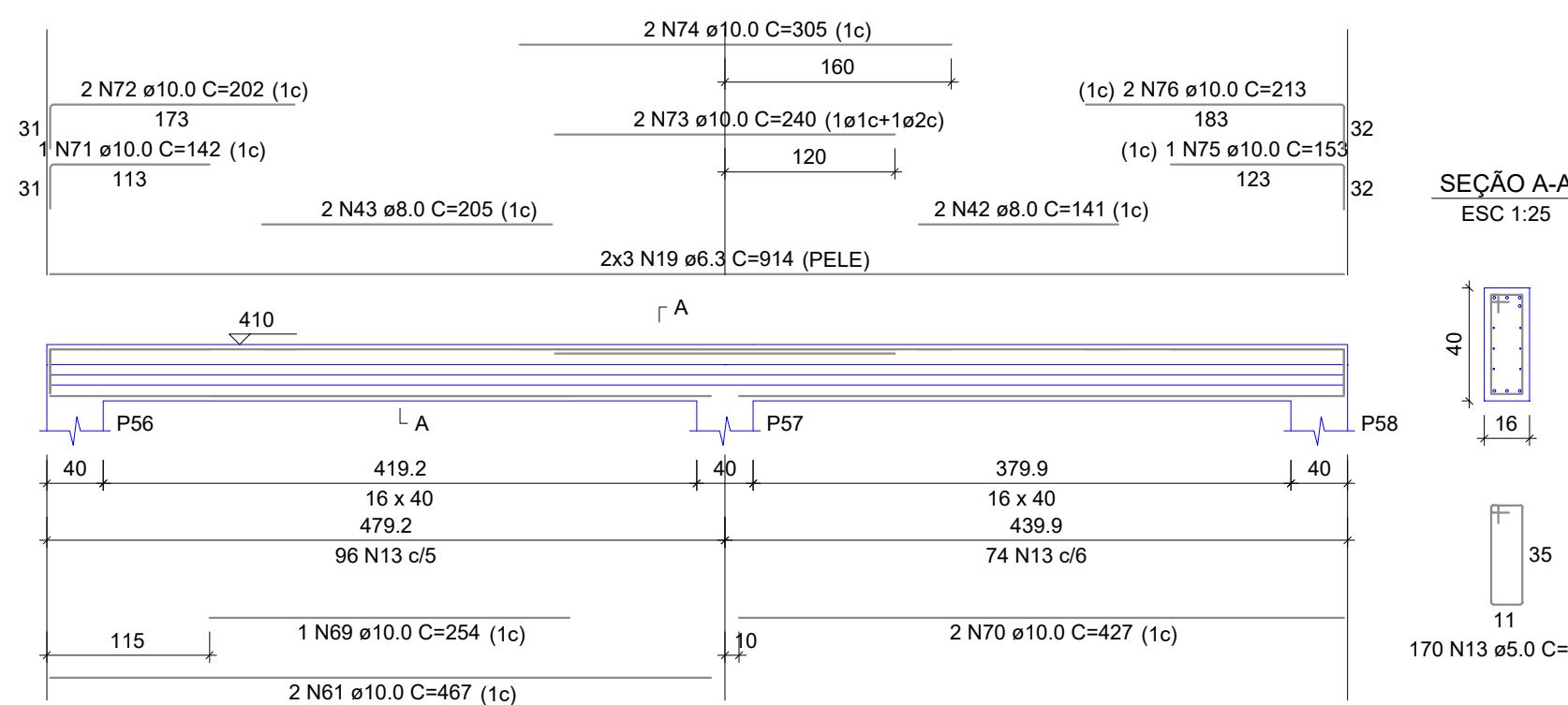
V24

ESC 1:50



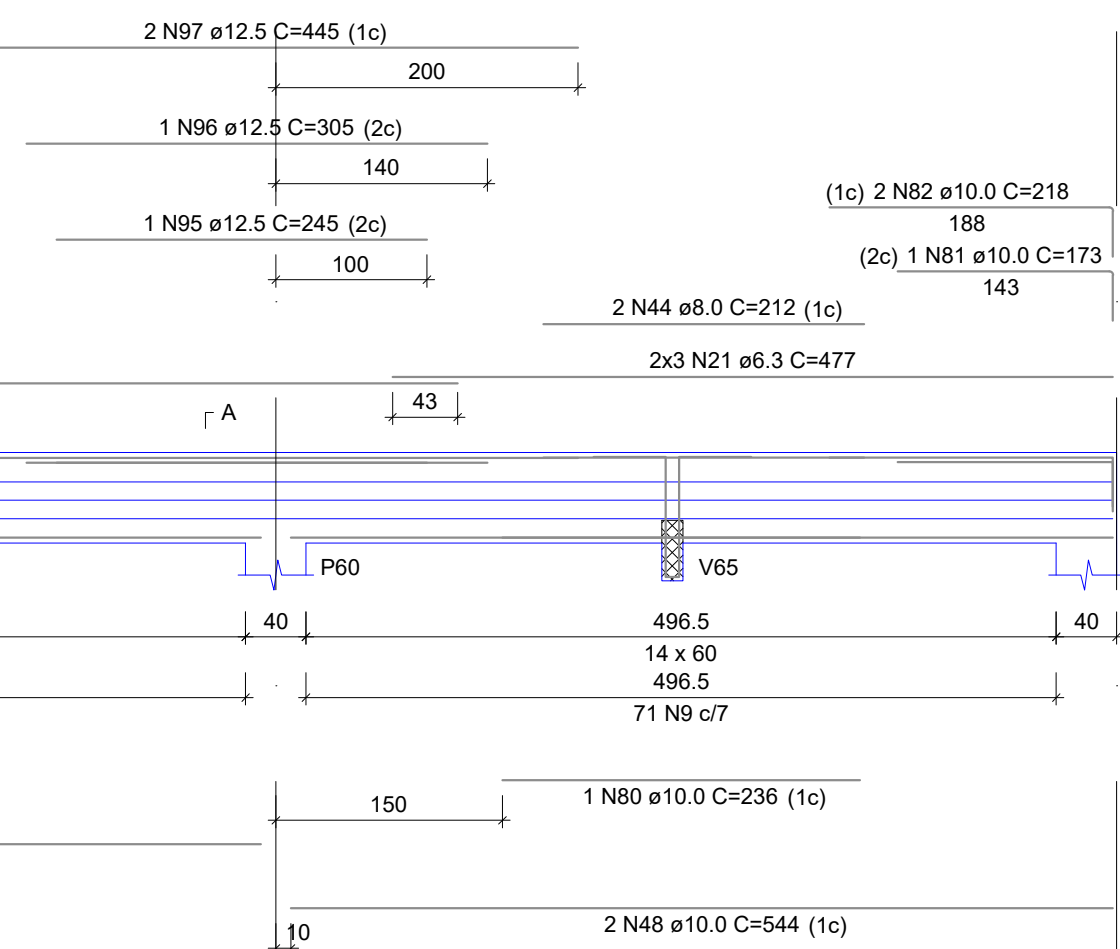
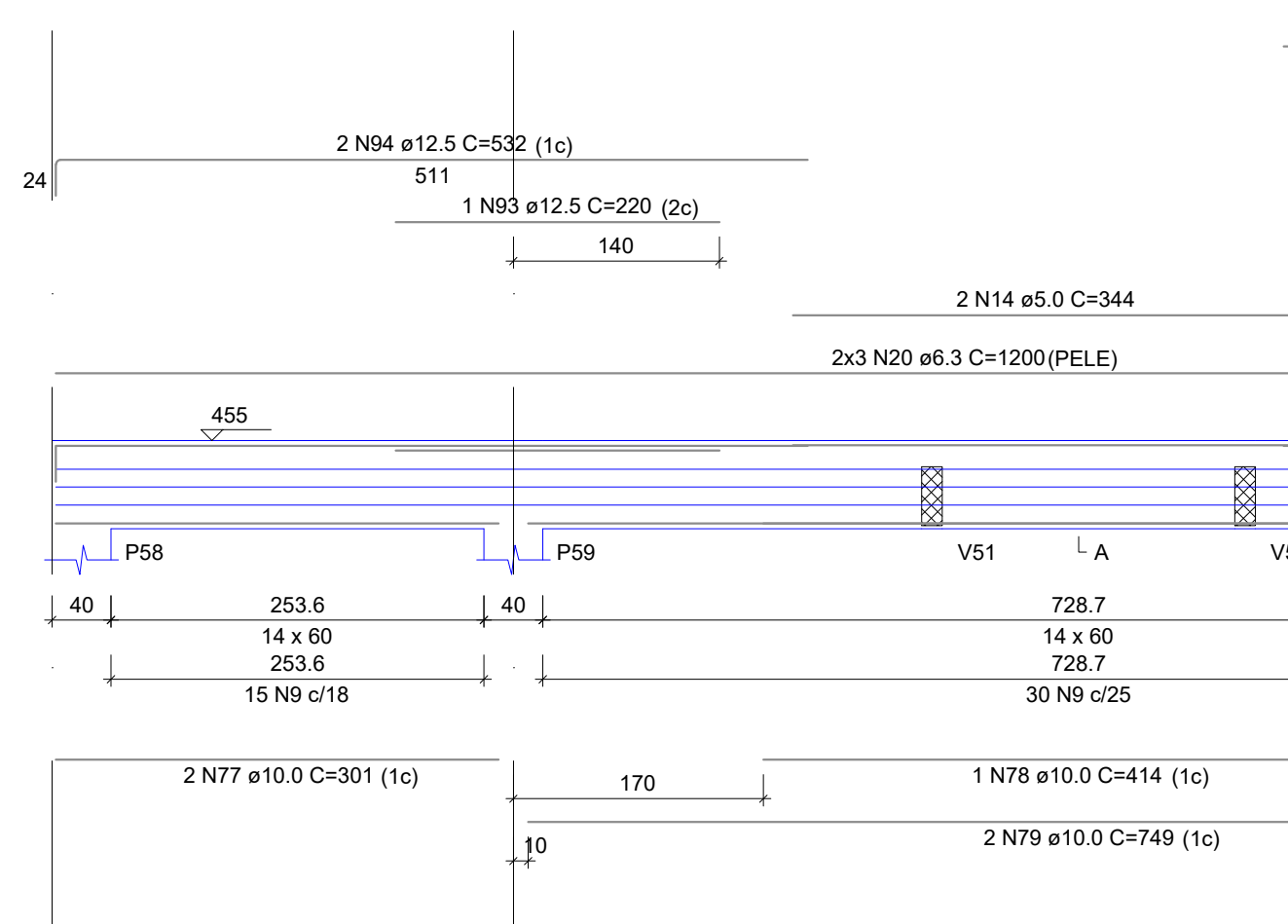
V25

ESC 1:50



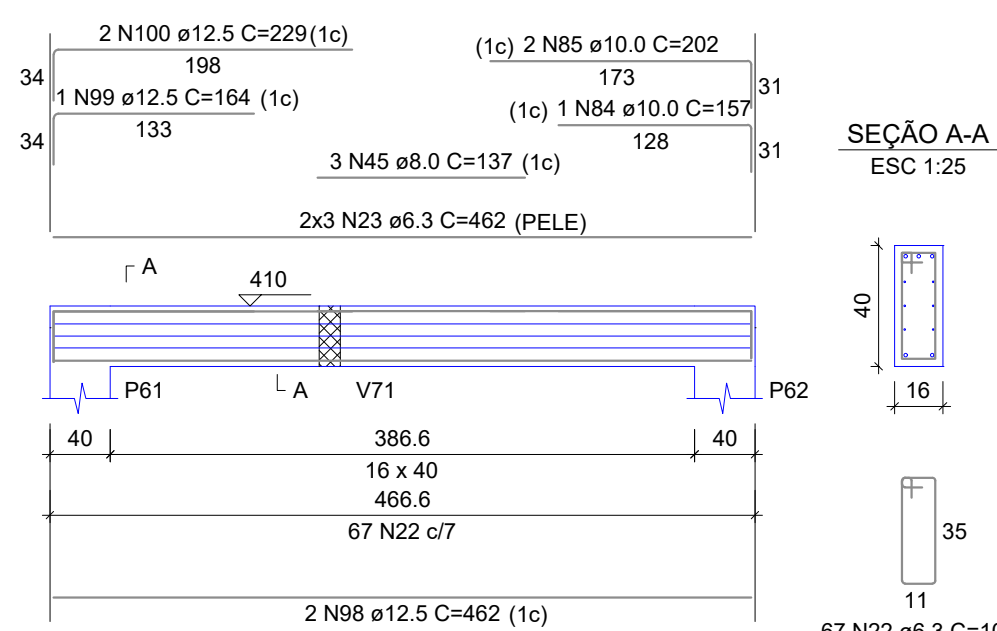
V26

ESC 1:50



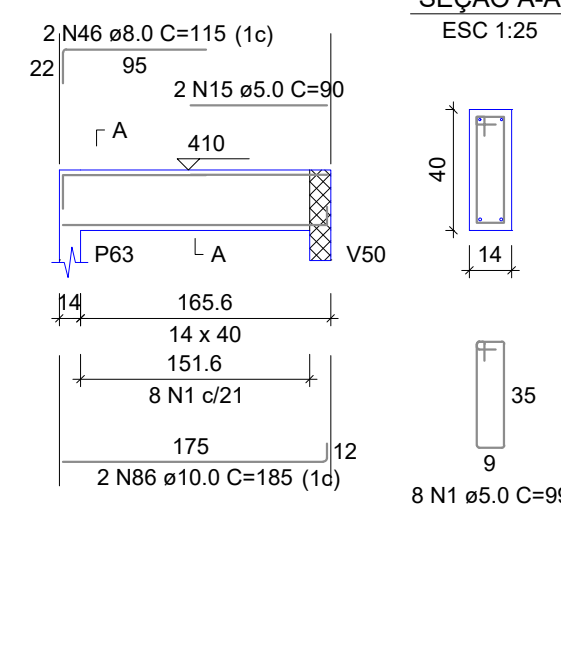
V27

ESC 1:50



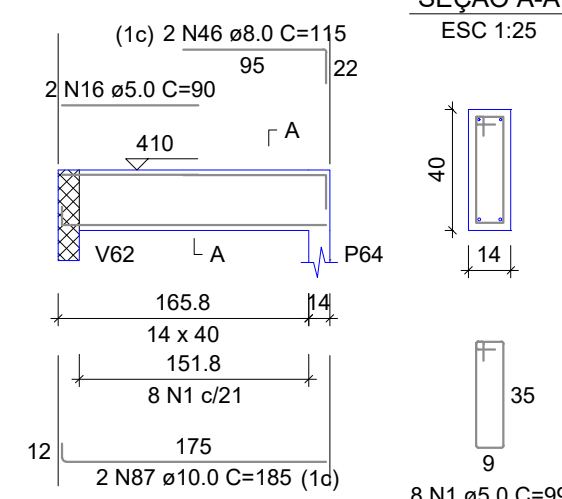
V28

ESC 1:50



V29

ESC 1:50



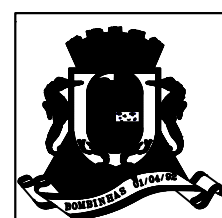
RELAÇÃO DO AÇO

| CAÇO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|------|-----|-----------|-------|-------------|--------------|
| CA80 | 1 | 5.0 | 99 | 20493 | 20493 |
| | 2 | 5.0 | 2 | 168 | 336 |
| | 3 | 5.0 | 2 | 111 | 222 |
| | 4 | 5.0 | 2 | 131 | 262 |
| | 5 | 5.0 | 2 | 252 | 504 |
| | 6 | 5.0 | 2 | 207 | 414 |
| | 7 | 5.0 | 2 | 134 | 268 |
| | 8 | 5.0 | 2 | 170 | 340 |
| | 9 | 5.0 | 179 | 139 | 24881 |
| | 10 | 5.0 | 2 | 341 | 682 |
| | 11 | 5.0 | 2 | 181 | 362 |
| | 12 | 5.0 | 2 | 132 | 264 |
| | 13 | 5.0 | 170 | 103 | 17510 |
| | 14 | 5.0 | 2 | 344 | 688 |
| | 15 | 5.0 | 2 | 90 | 180 |
| | 16 | 5.0 | 2 | 90 | 180 |
| | 17 | 6.3 | 6 | 1196 | 7176 |
| | 18 | 6.3 | 6 | 471 | 2826 |
| | 19 | 6.3 | 6 | 914 | 5484 |
| | 20 | 6.3 | 6 | 1200 | 7200 |
| CA50 | 21 | 6.3 | 6 | 477 | 2862 |
| | 22 | 6.3 | 67 | 104 | 6968 |
| | 23 | 6.3 | 6 | 482 | 2772 |
| | 24 | 8.0 | 2 | 592 | 1184 |
| | 25 | 8.0 | 1 | 146 | 146 |
| | 26 | 8.0 | 2 | 206 | 412 |
| | 27 | 8.0 | 2 | 421 | 842 |
| | 28 | 8.0 | 2 | 323 | 646 |
| | 29 | 8.0 | 2 | 459 | 918 |
| | 30 | 8.0 | 1 | 122 | 122 |
| | 31 | 8.0 | 2 | 187 | 374 |
| | 32 | 8.0 | 2 | 422 | 844 |
| | 33 | 8.0 | 3 | 322 | 966 |
| | 34 | 8.0 | 1 | 201 | 201 |
| | 35 | 8.0 | 2 | 544 | 1088 |
| | 36 | 8.0 | 1 | 144 | 144 |
| | 37 | 8.0 | 2 | 204 | 408 |
| | 38 | 8.0 | 2 | 222 | 444 |
| | 39 | 8.0 | 2 | 462 | 924 |
| | 40 | 8.0 | 1 | 118 | 118 |
| | 41 | 8.0 | 2 | 188 | 376 |
| | 42 | 8.0 | 2 | 141 | 282 |
| | 43 | 8.0 | 2 | 205 | 410 |
| | 44 | 8.0 | 2 | 212 | 424 |
| | 45 | 8.0 | 3 | 137 | 411 |
| | 46 | 8.0 | 4 | 115 | 460 |
| | 47 | 10.0 | 2 | 253 | 506 |
| | 48 | 10.0 | 6 | 544 | 3264 |
| | 49 | 10.0 | 2 | 179 | 358 |
| | 50 | 10.0 | 2 | 239 | 478 |
| | 51 | 10.0 | 1 | 215 | 215 |
| | 52 | 10.0 | 2 | 490 | 980 |
| | 53 | 10.0 | 2 | 224 | 448 |
| | 54 | 10.0 | 1 | 208 | 208 |
| | 55 | 10.0 | 1 | 202 | 202 |
| | 56 | 10.0 | 2 | 562 | 1124 |
| | 57 | 10.0 | 1 | 208 | 208 |
| | 58 | 10.0 | 1 | 195 | 195 |
| | 59 | 10.0 | 2 | 199 | 398 |
| | 60 | 10.0 | 1 | 224 | 224 |
| | 61 | 10.0 | 4 | 457 | 1828 |
| | 62 | 10.0 | 2 | 207 | 414 |
| | 63 | 10.0 | 2 | 225 | 450 |
| | 64 | 10.0 | 2 | 335 | 670 |
| | 65 | 10.0 | 2 | 147 | 294 |
| | 66 | 10.0 | 1 | 260 | 260 |
| | 67 | 10.0 | 1 | 162 | 162 |
| | 68 | 10.0 | 2 | 207 | 414 |
| | 69 | 10.0 | 2 | 254 | 508 |
| | 70 | 10.0 | 2 | 427 | 854 |
| | 71 | 10.0 | 1 | 142 | 142 |
| | 72 | 10.0 | 2 | 202 | 404 |
| | 73 | 10.0 | 2 | 240 | 480 |
| | 74 | 10.0 | 2 | 305 | 610 |
| | 75 | 10.0 | 2 | 153 | 306 |
| | 76 | 10.0 | 2 | 213 | 426 |
| | 77 | 10.0 | 2 | 301 | 602 |
| | 78 | 10.0 | 1 | 414 | 414 |
| | 79 | 10.0 | 2 | 749 | 1498 |
| | 80 | 10.0 | 1 | 236 | 236 |
| | 81 | 10.0 | 1 | 173 | 173 |
| | 82 | 10.0 | 2 | 218 | 436 |
| | 83 | 10.0 | 1 | 296 | 296 |
| | 84 | 10.0 | 1 | 157 | 157 |
| | 85 | 10.0 | 2 | 202 | 404 |
| | 86 | 10.0 | 2 | 185 | 370 |
| | 87 | 10.0 | 2 | 185 | 370 |
| | 88 | 12.5 | 2 | 370 | 740 |
| | 89 | 12.5 | 2 | 754 | 1508 |
| | 90 | 12.5 | 2 | 548 | 1096 |
| | 91 | 12.5 | 1 | 260 | 260 |
| | 92 | 12.5 | 2 | 460 | 920 |
| | 93 | 12.5 | 1 | 220 | 220 |
| | 94 | 12.5 | 2 | 532 | 1064 |
| | 95 | 12.5 | 1 | 245 | 245 |
| | 96 | 12.5 | 1 | 305 | 305 |
| | 97 | 12.5 | 2 | 445 | 890 |
| | 98 | 12.5 | 2 | 462 | 924 |
| | 99 | 12.5 | 1 | 164 | 164 |
| | 100 | 12.5 | 2 | 229 | 458 |

RESUMO DO AÇO

| AÇO | DIAM (mm) | C.TOTAL (m) | PESO + 10% (kg) |
|-----------------|-----------|-------------|-----------------|
| CA50 | 6.3 | 352.9 | 95 |
| | 8.0 | 119 | 51.7 |
| | 10.0 | 209.2 | 141.9 |
| | 12.5 | 87.9 | 93.2 |
| CA60 | 5.0 | 675.9 | 114.6 |
| PESO TOTAL (kg) | | 381.7 | |
| CA50 | | 114.6 | |
| CA60 | | 267.1 | |

Volume de concreto (C=30) = 5.83 m³
Área de forma = 71.61 m²



PREFEITURA MUNICIPAL DE BOMBINHAS
SECRETARIA DE CAPTAÇÃO DE RECURSOS E INVESTIMENTOS
CONSTRUÇÃO UBS JOSÉ AMANDIO
RUA CAVALO - JOSÉ AMANDIO - BOMBINHAS
PROJETO ESTRUTURAL - VIGAS COBERTURA

PAULO HENRIQUE DALMADO WILHELM
17/09/2024
RUA MATHEUS BOBERT DA SILVA
RUA MATHEUS
ARQUIVO
DATA
DESENHO