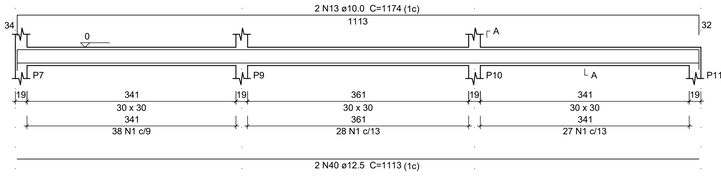
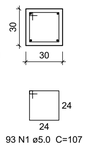
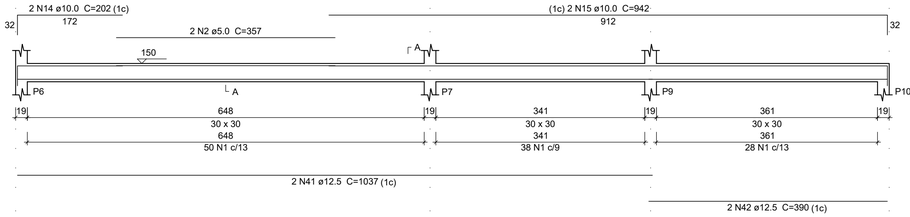
## V1
ESC 1:50



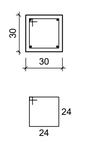

SEÇÃO A-A
ESC 1:25



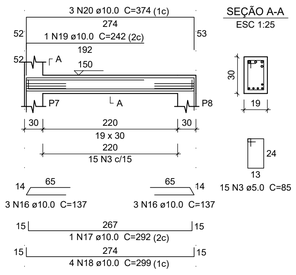

## V1
ESC 1:50




SEÇÃO A-A
ESC 1:25



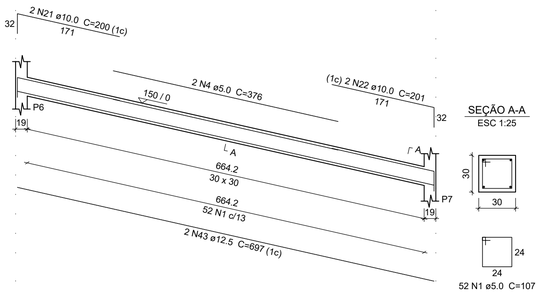

## V2
ESC 1:50




SEÇÃO A-A
ESC 1:25



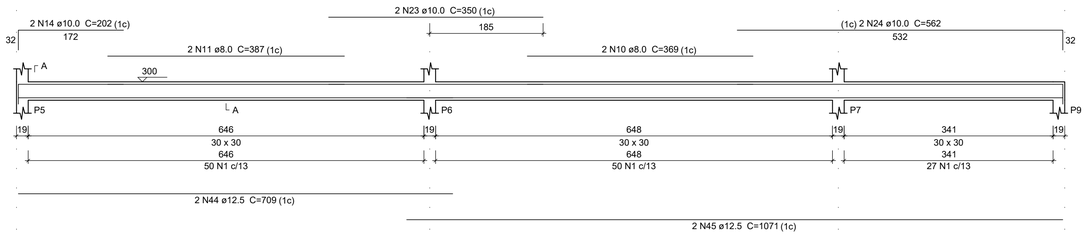

## V3
ESC 1:50



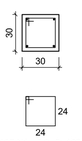

SEÇÃO A-A
ESC 1:25



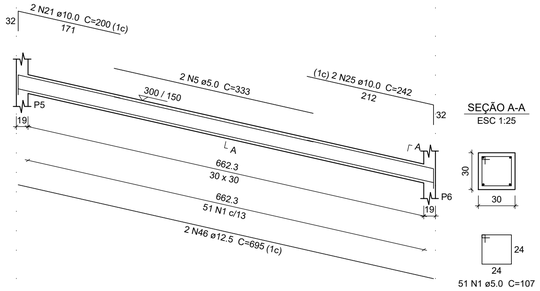

## V1
ESC 1:50




SEÇÃO A-A
ESC 1:25




## V2
ESC 1:50




SEÇÃO A-A
ESC 1:25




## Relação do aço

| | | |
|---|---|---|
| BALDRAME: | V1 | |
| INTERMEDIARIO: | V1 | V2 |
| | V3 | |
| INTERMEDIARIO 2: | V1 | V2 |
| PISO: | V1 | V2 |
| | V3 | V4 |

| AÇO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 813 | 107 | 86991 |
| | 2 | 5.0 | 2 | 357 | 714 |
| | 3 | 5.0 | 45 | 85 | 3825 |
| | 4 | 5.0 | 2 | 376 | 752 |
| | 5 | 5.0 | 2 | 333 | 666 |
| | 6 | 5.0 | 2 | 358 | 716 |
| | 7 | 5.0 | 2 | 315 | 630 |
| | 8 | 5.0 | 2 | 342 | 684 |
| | 9 | 6.3 | 1 | 111 | 111 |
| CA50 | 10 | 8.0 | 2 | 369 | 738 |
| | 11 | 8.0 | 2 | 387 | 774 |
| | 12 | 8.0 | 2 | 388 | 776 |
| | 13 | 10.0 | 2 | 1174 | 2348 |
| | 14 | 10.0 | 4 | 202 | 808 |
| | 15 | 10.0 | 2 | 942 | 1884 |
| | 16 | 10.0 | 6 | 137 | 822 |
| | 17 | 10.0 | 1 | 292 | 292 |
| | 18 | 10.0 | 4 | 299 | 1196 |
| | 19 | 10.0 | 1 | 242 | 242 |
| | 20 | 10.0 | 3 | 374 | 1122 |
| | 21 | 10.0 | 4 | 200 | 800 |
| | 22 | 10.0 | 2 | 201 | 402 |
| | 23 | 10.0 | 4 | 350 | 1400 |
| | 24 | 10.0 | 2 | 562 | 1124 |
| | 25 | 10.0 | 2 | 242 | 484 |
| | 26 | 10.0 | 2 | 177 | 354 |
| | 27 | 10.0 | 1 | 180 | 180 |
| | 28 | 10.0 | 4 | 370 | 1480 |
| | 29 | 10.0 | 2 | 197 | 394 |
| | 30 | 10.0 | 3 | 293 | 879 |
| | 31 | 10.0 | 1 | 150 | 150 |
| | 32 | 10.0 | 3 | 337 | 1011 |
| | 33 | 10.0 | 3 | 284 | 852 |
| | 34 | 10.0 | 1 | 203 | 203 |
| | 35 | 10.0 | 2 | 338 | 676 |
| | 36 | 10.0 | 2 | 1200 | 2400 |
| | 37 | 10.0 | 2 | 242 | 484 |
| | 38 | 10.0 | 3 | 1197 | 3591 |
| | 39 | 10.0 | 3 | 286 | 858 |
| | 40 | 12.5 | 2 | 1113 | 2226 |
| | 41 | 12.5 | 2 | 1037 | 2074 |
| | 42 | 12.5 | 2 | 390 | 780 |
| | 43 | 12.5 | 2 | 697 | 1394 |
| | 44 | 12.5 | 2 | 709 | 1418 |
| | 45 | 12.5 | 2 | 1071 | 2142 |
| | 46 | 12.5 | 2 | 695 | 1390 |
| | 47 | 12.5 | 2 | 672 | 1344 |
| | 48 | 12.5 | 2 | 692 | 1384 |
| | 49 | 12.5 | 2 | 671 | 1342 |
| | 50 | 12.5 | 2 | 677 | 1354 |

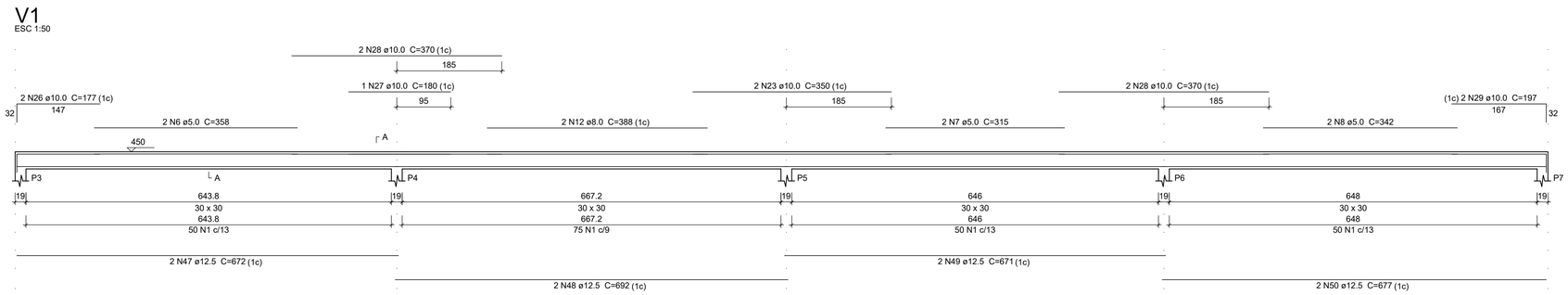
## Resumo do aço

| AÇO | DIAM (mm) | C.TOTAL (m) | PESO + 10 % (kg) |
|---|---|---|---|
| CA50 | 6.3 | 1.2 | 0.3 |
| | 8.0 | 22.9 | 9.9 |
| | 10.0 | 264.4 | 179.3 |
| | 12.5 | 168.5 | 178.5 |
| CA60 | 5.0 | 949.8 | 161 |

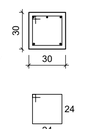
| PESO TOTAL (kg) | |
|---|---|
| CA50 | 368.1 |
| CA60 | 161 |

Volume de concreto (C-25) = 8.75 m³
Área de forma = 88.91 m²

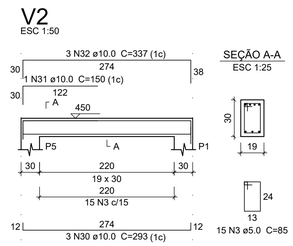
## V1
ESC 1:50




SEÇÃO A-A
ESC 1:25



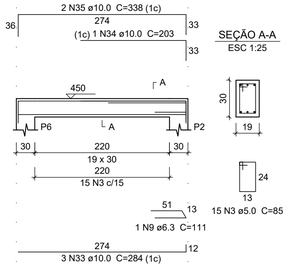

## V2
ESC 1:50




SEÇÃO A-A
ESC 1:25



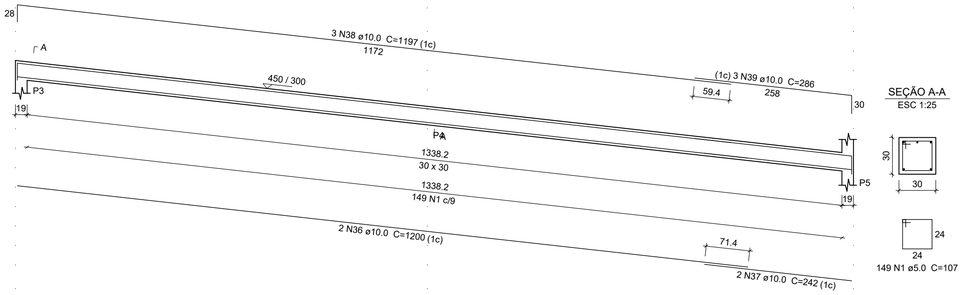

## V3
ESC 1:50




SEÇÃO A-A
ESC 1:25




## V4
ESC 1:50




SEÇÃO A-A
ESC 1:25





TRMUNCHEN ENGENHARIA
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(51) 9 9509 6182


| | |
|---|---|
| OBRA: NOVA SEDE DEFESA CIVÍL E CORPO DE BOMBEIROS | ÁREA À CONSTRUIR: 644,46 m² |
| LOCAL: Rua Firmino Britz, S/N<br>Centro - Feliz | EQUIPE TÉCNICA: TRMUNCHEN ENGENHARIA |
| PROPRIETARIO:<br>MUNICÍPIO DE FELIZ<br>CNPJ: 87.838.330/0001-39 | RESP. TÉCNICO - ENGENHEIRO CIVIL<br>TIAGO RODRIGO MÜNCHEN<br>CREA/RS: 251585 |
| CONTEÚDO: MURO LATERAL VIGAS | PROJETO: PROJETO ESTRUTURAL |

| ESCALA: | DESENHISTA: | DATA: | FOLHA: |
|---|---|---|---|
| INDICADA | TIAGO RODRIGO MÜNCHEN | JUL/2026 | 17 / 18 |

DIREITOS AUTORAIS RESERVADOS. PROIBIDA A REPRODUÇÃO TOTAL OU PARCIAL.