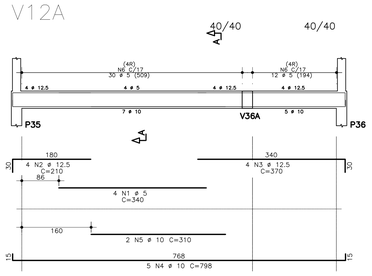
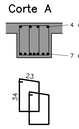
## V12A

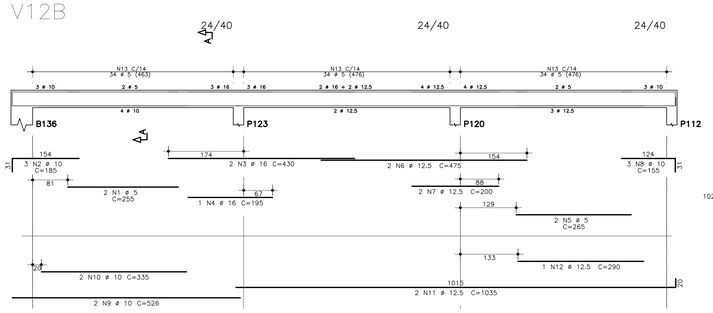



Corte A

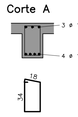



2x42 N6 ø 5 C=129

## V12B

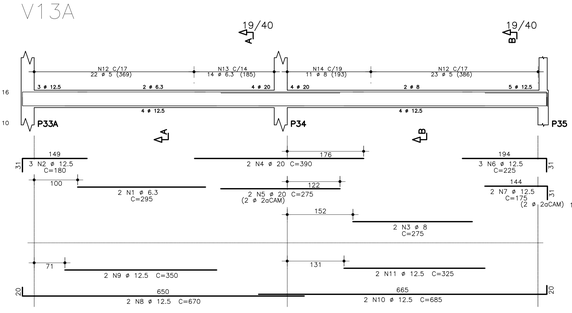



Corte A

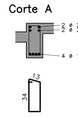



102 N13 ø 5 C=119

## V13A

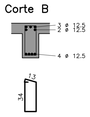



Corte A



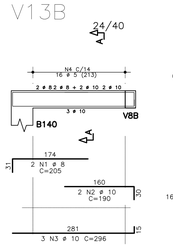

22 N12 ø 5 C=109
14 N13 ø 6.3 C=110

Corte B

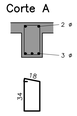



11 N14 ø 8 C=112
23 N12 ø 5 C=109

## V13B

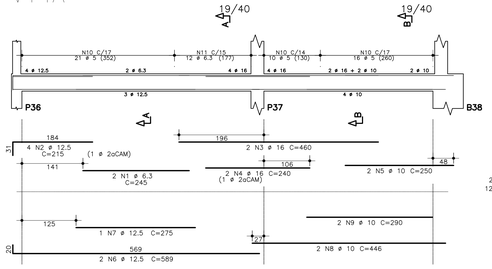



Corte A

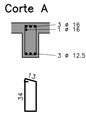



16 N4 ø 5 C=119

## V14A

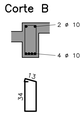



Corte A



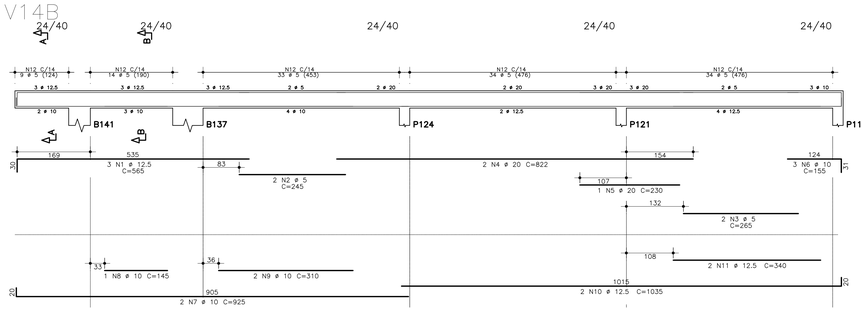

21 N10 ø 5 C=109
12 N11 ø 6.3 C=110

Corte B

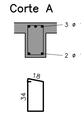



26 N10 ø 5 C=109

## V14B

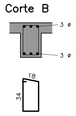



Corte A



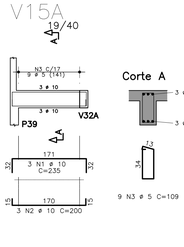

9 N12 ø 5 C=119

Corte B

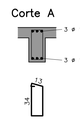



115 N12 ø 5 C=119

## V15A

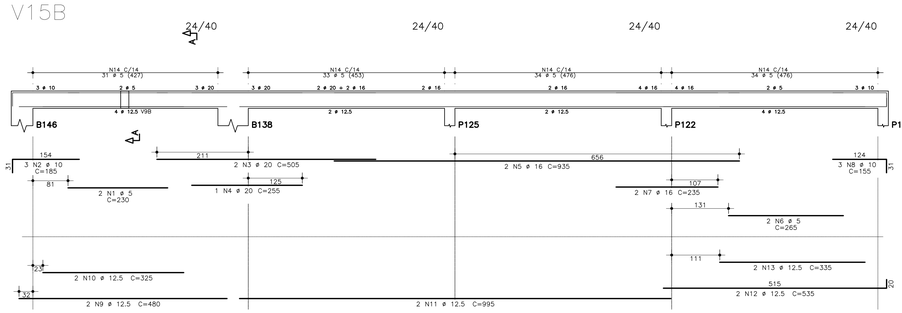



Corte A

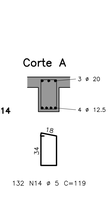



9 N3 ø 5 C=109

## V15B




## V16A

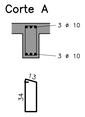



Corte A



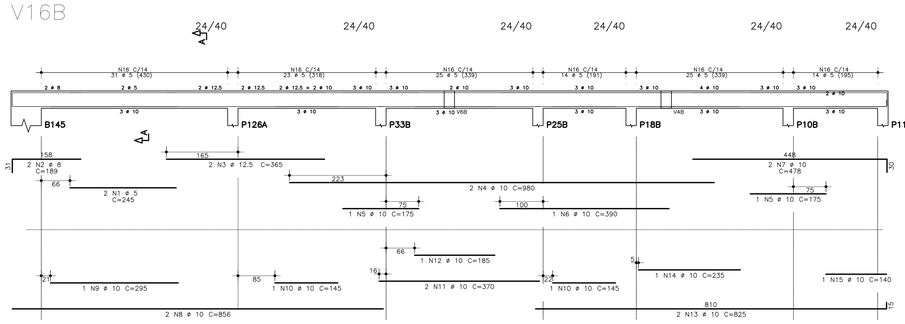

132 N14 ø 5 C=119

Corte A

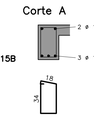



9 N3 ø 5 C=109

## V16B

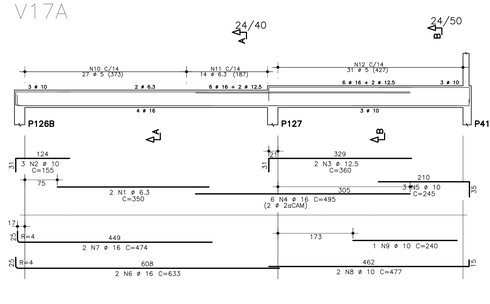



Corte A

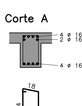



132 N16 ø 5 C=119

## V17A

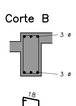



Corte A



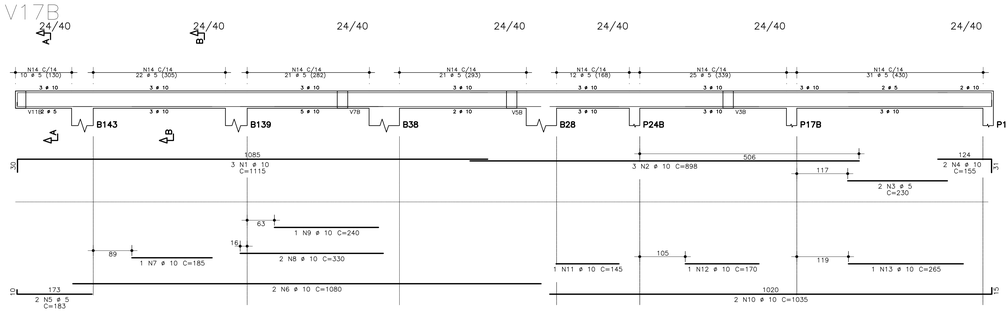

27 N10 ø 5 C=119
14 N11 ø 6.3 C=120

Corte B

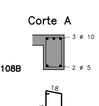



31 N12 ø 5 C=139

## V17B

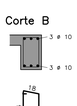



Corte A



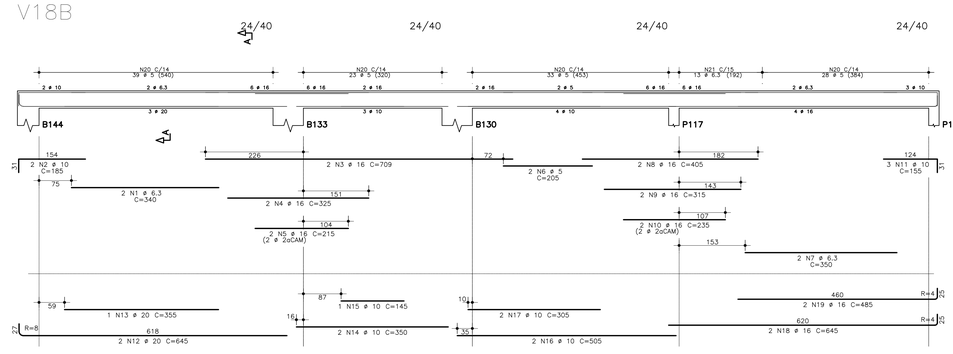

10 N14 ø 5 C=119

Corte B

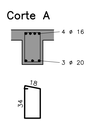



132 N14 ø 5 C=119

## V18B

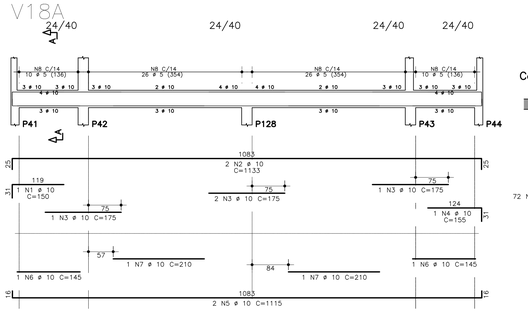



Corte A

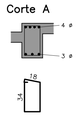



123 N20 ø 5 C=119
13 N21 ø 6.3 C=120

## V18A




Corte A




72 N8 ø 5 C=119

ESQUEMA DE DOBRAMENTO DOS FERROS

**ESCALA**

VIGAS:
–VISTA 1:50
–CORTE 1:25

LAJES:
–TERREO 1:75
–COBERTURA 1:50

| | AÇO | POS | BIT (mm) | QUANT | COMPRIMENTO UNIT (cm) | COMPRIMENTO TOTAL (cm) |
|---|---|---|---|---|---|---|
| V12A | | | | | | |
| | 60B | 1 | 5 | 4 | 340 | 1360 |
| | 50A | 2 | 12.5 | 4 | 210 | 840 |
| | 50A | 3 | 12.5 | 4 | 370 | 1480 |
| | 50A | 4 | 10 | 5 | 798 | 3990 |
| | 50A | 5 | 10 | 2 | 310 | 620 |
| | 60B | 6 | 5 | 84 | 129 | 10836 |
| V12B | | | | | | |
| | 60B | 1 | 5 | 2 | 255 | 510 |
| | 50A | 2 | 10 | 3 | 185 | 555 |
| | 50A | 3 | 16 | 2 | 430 | 860 |
| | 50A | 4 | 16 | 1 | 195 | 195 |
| | 60B | 5 | 5 | 2 | 265 | 530 |
| | 50A | 6 | 12.5 | 2 | 475 | 950 |
| | 50A | 7 | 12.5 | 2 | 200 | 400 |
| | 50A | 8 | 10 | 3 | 155 | 465 |
| | 50A | 9 | 10 | 2 | 526 | 1052 |
| | 50A | 10 | 10 | 2 | 335 | 670 |
| | 50A | 11 | 12.5 | 2 | 1035 | 2070 |
| | 50A | 12 | 12.5 | 1 | 290 | 290 |
| | 60B | 13 | 5 | 102 | 119 | 12138 |
| V13A | | | | | | |
| | 50A | 1 | 6.3 | 2 | 295 | 590 |
| | 50A | 2 | 12.5 | 3 | 180 | 540 |
| | 50A | 3 | 8 | 2 | 275 | 550 |
| | 50A | 4 | 20 | 2 | 390 | 780 |
| | 50A | 5 | 20 | 2 | 275 | 550 |
| | 50A | 6 | 12.5 | 3 | 225 | 675 |
| | 50A | 7 | 12.5 | 2 | 175 | 350 |
| | 50A | 8 | 12.5 | 2 | 670 | 1340 |
| | 50A | 9 | 12.5 | 2 | 350 | 700 |
| | 50A | 10 | 12.5 | 2 | 685 | 1370 |
| | 50A | 11 | 12.5 | 2 | 325 | 650 |
| | 60B | 12 | 5 | 45 | 109 | 4905 |
| | 50A | 13 | 6.3 | 14 | 110 | 1540 |
| | 50A | 14 | 8 | 11 | 112 | 1232 |
| V13B | | | | | | |
| | 50A | 1 | 8 | 2 | 205 | 410 |
| | 50A | 2 | 10 | 2 | 190 | 380 |
| | 50A | 3 | 10 | 3 | 296 | 888 |
| | 60B | 4 | 5 | 16 | 119 | 1904 |
| V14A | | | | | | |
| | 50A | 1 | 6.3 | 2 | 245 | 490 |
| | 50A | 2 | 12.5 | 4 | 215 | 860 |
| | 50A | 3 | 16 | 2 | 460 | 920 |
| | 50A | 4 | 16 | 2 | 240 | 480 |
| | 50A | 5 | 10 | 2 | 250 | 500 |
| | 50A | 6 | 12.5 | 2 | 589 | 1178 |
| | 50A | 7 | 12.5 | 1 | 275 | 275 |
| | 50A | 8 | 10 | 2 | 446 | 892 |
| | 50A | 9 | 10 | 2 | 290 | 580 |
| | 60B | 10 | 5 | 47 | 109 | 12512 |
| | 50A | 11 | 6.3 | 12 | 110 | 1320 |
| V14B | | | | | | |
| | 50A | 1 | 12.5 | 3 | 565 | 1695 |
| | 60B | 2 | 5 | 2 | 245 | 490 |
| | 50A | 3 | 5 | 2 | 265 | 530 |
| | 50A | 4 | 20 | 2 | 822 | 1644 |
| | 50A | 5 | 20 | 1 | 230 | 230 |
| | 50A | 6 | 10 | 3 | 155 | 465 |
| | 50A | 7 | 10 | 2 | 925 | 1850 |
| | 50A | 8 | 10 | 1 | 145 | 145 |
| | 50A | 9 | 10 | 2 | 310 | 620 |
| | 50A | 10 | 12.5 | 2 | 1035 | 2070 |
| | 50A | 11 | 12.5 | 2 | 340 | 680 |
| | 60B | 12 | 5 | 124 | 119 | 14756 |
| V15A | | | | | | |
| | 50A | 1 | 10 | 3 | 235 | 705 |
| | 50A | 2 | 10 | 3 | 200 | 600 |
| | 60B | 3 | 5 | 9 | 109 | 981 |
| V15B | | | | | | |
| | 60B | 1 | 5 | 2 | 230 | 460 |
| | 50A | 2 | 10 | 3 | 185 | 555 |
| | 50A | 3 | 20 | 2 | 505 | 1010 |
| | 50A | 4 | 20 | 1 | 255 | 255 |
| | 50A | 5 | 16 | 2 | 935 | 1870 |
| | 60B | 6 | 5 | 2 | 265 | 530 |
| | 50A | 7 | 16 | 2 | 235 | 470 |
| | 50A | 8 | 10 | 3 | 155 | 465 |
| | 50A | 9 | 12.5 | 2 | 480 | 960 |
| | 50A | 10 | 12.5 | 2 | 325 | 650 |
| | 50A | 11 | 12.5 | 2 | 995 | 1990 |
| | 50A | 12 | 12.5 | 2 | 535 | 1070 |
| | 50A | 13 | 12.5 | 2 | 335 | 670 |
| | 60B | 14 | 5 | 132 | 119 | 15708 |
| V16A | | | | | | |
| | 50A | 1 | 10 | 3 | 235 | 705 |
| | 50A | 2 | 10 | 3 | 200 | 600 |
| | 60B | 3 | 5 | 9 | 109 | 981 |
| V16B | | | | | | |
| | 60B | 1 | 5 | 2 | 245 | 490 |
| | 50A | 2 | 8 | 2 | 189 | 378 |
| | 50A | 3 | 12.5 | 2 | 365 | 730 |
| | 50A | 4 | 10 | 2 | 980 | 1960 |
| | 50A | 5 | 10 | 2 | 175 | 350 |
| | 50A | 6 | 10 | 1 | 390 | 390 |
| | 50A | 7 | 10 | 2 | 478 | 956 |
| | 50A | 8 | 10 | 2 | 856 | 1712 |
| | 50A | 9 | 10 | 1 | 295 | 295 |
| | 50A | 10 | 10 | 2 | 145 | 290 |
| | 50A | 11 | 10 | 2 | 370 | 740 |
| | 50A | 12 | 10 | 1 | 185 | 185 |
| | 50A | 13 | 10 | 2 | 825 | 1650 |
| | 50A | 14 | 10 | 1 | 235 | 235 |
| | 50A | 15 | 10 | 1 | 140 | 140 |
| | 60B | 16 | 5 | 132 | 119 | 15708 |
| V17A | | | | | | |
| | 50A | 1 | 6.3 | 2 | 350 | 700 |
| | 50A | 2 | 10 | 3 | 155 | 465 |
| | 50A | 3 | 12.5 | 2 | 360 | 720 |
| | 50A | 4 | 16 | 6 | 495 | 2970 |
| | 50A | 5 | 10 | 3 | 245 | 735 |
| | 50A | 6 | 16 | 2 | 633 | 1266 |
| | 50A | 7 | 16 | 2 | 474 | 948 |
| | 50A | 8 | 10 | 2 | 477 | 954 |
| | 50A | 9 | 10 | 1 | 240 | 240 |
| | 60B | 10 | 5 | 27 | 119 | 3213 |
| | 50A | 11 | 6.3 | 14 | 120 | 1680 |
| | 60B | 12 | 5 | 31 | 139 | 4309 |
| V17B | | | | | | |
| | 50A | 1 | 10 | 3 | 1115 | 3345 |
| | 50A | 2 | 10 | 3 | 898 | 2694 |
| | 60B | 3 | 5 | 2 | 230 | 460 |
| | 50A | 4 | 10 | 2 | 155 | 310 |
| | 60B | 5 | 5 | 2 | 183 | 366 |
| | 50A | 6 | 10 | 2 | 1080 | 2160 |
| | 50A | 7 | 10 | 1 | 185 | 185 |
| | 50A | 8 | 10 | 2 | 330 | 660 |
| | 50A | 9 | 10 | 1 | 240 | 240 |
| | 50A | 10 | 10 | 2 | 1035 | 2070 |
| | 50A | 11 | 10 | 1 | 145 | 145 |
| | 50A | 12 | 10 | 1 | 170 | 170 |
| | 50A | 13 | 10 | 1 | 265 | 265 |
| | 60B | 14 | 5 | 142 | 119 | 16898 |
| V18A | | | | | | |
| | 50A | 1 | 10 | 1 | 150 | 150 |
| | 50A | 2 | 10 | 2 | 1133 | 2266 |
| | 50A | 3 | 10 | 4 | 175 | 700 |
| | 50A | 4 | 10 | 1 | 155 | 155 |
| | 50A | 5 | 10 | 2 | 1115 | 2230 |
| | 50A | 6 | 10 | 2 | 145 | 290 |
| | 50A | 7 | 10 | 2 | 210 | 420 |
| | 60B | 8 | 5 | 72 | 119 | 8568 |
| V18B | | | | | | |
| | 50A | 1 | 6.3 | 2 | 340 | 680 |
| | 50A | 2 | 10 | 2 | 185 | 370 |
| | 50A | 3 | 16 | 2 | 709 | 1418 |
| | 50A | 4 | 16 | 2 | 325 | 650 |
| | 50A | 5 | 16 | 2 | 215 | 430 |
| | 60B | 6 | 5 | 2 | 205 | 410 |
| | 50A | 7 | 6.3 | 2 | 350 | 700 |
| | 50A | 8 | 16 | 2 | 405 | 810 |
| | 50A | 9 | 16 | 2 | 315 | 630 |
| | 50A | 10 | 16 | 2 | 235 | 470 |
| | 50A | 11 | 10 | 3 | 155 | 465 |
| | 50A | 12 | 20 | 2 | 645 | 1290 |
| | 50A | 13 | 20 | 1 | 355 | 355 |
| | 50A | 14 | 10 | 2 | 350 | 700 |
| | 50A | 15 | 10 | 1 | 145 | 145 |
| | 50A | 16 | 10 | 2 | 505 | 1010 |
| | 50A | 17 | 10 | 2 | 305 | 610 |
| | 50A | 18 | 16 | 2 | 645 | 1290 |
| | 50A | 19 | 16 | 2 | 485 | 970 |
| | 60B | 20 | 5 | 123 | 119 | 14637 |
| | 50A | 21 | 6.3 | 13 | 120 | 1560 |

RESUMO AÇO CA 50-60

| AÇO | BIT (mm) | COMPR (m) | PESO (kg) |
|---|---|---|---|
| 60B | 5 | 1368 | 211 |
| 50A | 6.3 | 93 | 23 |
| 50A | 8 | 26 | 10 |
| 50A | 10 | 504 | 311 |
| 50A | 12.5 | 252 | 243 |
| 50A | 16 | 166 | 263 |
| 50A | 20 | 61 | 151 |
| Peso Total | 60B = | | 211 kg |
| Peso Total | 50A = | | 1000 kg |

ÁREA DESTINADA A CARIMBOS E ASSINATURAS

| REV. | DATA | DESCRIÇÃO |
|---|---|---|
| 00 | 28/05/21 | EMISSÃO INICIAL |

SECRETARIA MUNICIPAL DE OBRAS
DEPARTAMENTO DE ENGENHARIA E ARQUITETURA

| | |
|---|---|
| SECRETÁRIO DE OBRAS | BRUNO MÁRCIO MOREIRA ALMEIDA |
| RESPONSÁVEL TÉCNICO | HUGO KENJI INATOMI — CREA/SP 5063373661 D |

PREFEITURA MUNICIPAL DE SANTA LUZIA
ADM. DELEGADO CHRISTIANO XAVIER

| NÚMERO | DISCIPLINA | ETAPA | DATA |
|---|---|---|---|
| 000 | ESTRUTURA | PROJETO EXECUTIVO | 28/05/2021 |

CONTEÚDO DA PRANCHA: UNIDADE BÁSICA DE SAÚDE - NOVO CENTRO
ARMAÇÃO - VIGAS TÉRREO

FOLHA 04/11
REVISÃO 00

DIREITOS RESERVADOS (LEI FEDERAL 9.610 DE 19/2/1998)
A REPRODUÇÃO OU EXECUÇÃO TOTAL OU PARCIAL DESTE PROJETO, SEM PRÉVIA AUTORIZAÇÃO, SUJEITA O RESPONSÁVEL ÀS MEDIDAS LEGAIS CABÍVEIS.