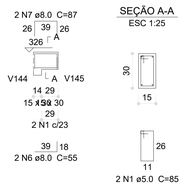
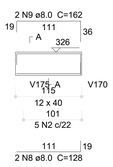
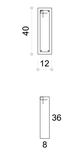
## V221 (15 x 30)
ESC 1:50



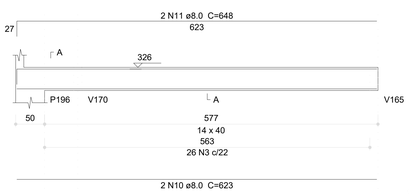

## V222 (12 x 40)
ESC 1:50



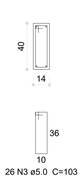

SEÇÃO A-A
ESC 1:25



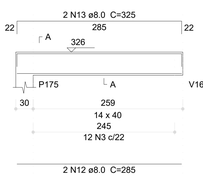

## V223 (14 x 40)
ESC 1:50



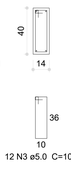

SEÇÃO A-A
ESC 1:25



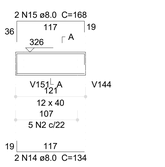

## V224 (14 x 40)
ESC 1:50




SEÇÃO A-A
ESC 1:25

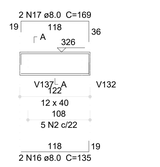



## V226 (12 x 40)
ESC 1:50

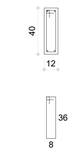



SEÇÃO A-A
ESC 1:25

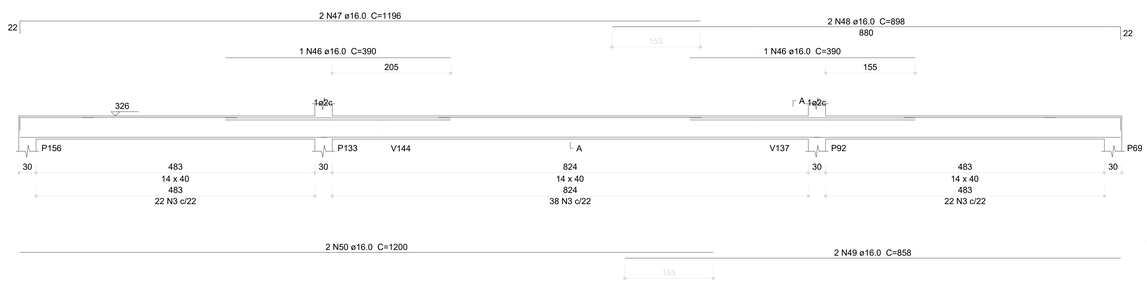
## V227 (12 x 40)
ESC 1:50



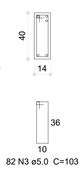

SEÇÃO A-A
ESC 1:25



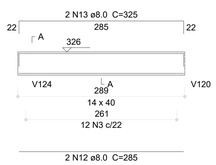

## V225 (14 x 40)
ESC 1:50



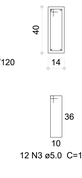

SEÇÃO A-A
ESC 1:25



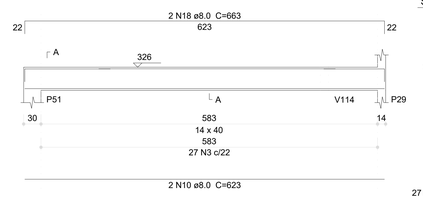

## V228 (14 x 40)
ESC 1:50



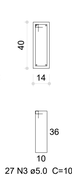

SEÇÃO A-A
ESC 1:25



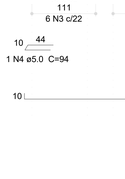

## V229 (14 x 40)
ESC 1:50




SEÇÃO A-A
ESC 1:25




## V230 (12 x 40)
ESC 1:50




SEÇÃO A-A
ESC 1:25

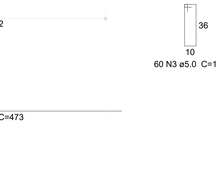



## V231 (14 x 40)
ESC 1:50

SEÇÃO A-A
ESC 1:25




## V232 (14 x 40)
ESC 1:50




SEÇÃO A-A
ESC 1:25



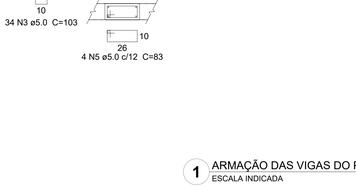

## V233 (14 x 40)
ESC 1:50




SEÇÃO A-A
ESC 1:25

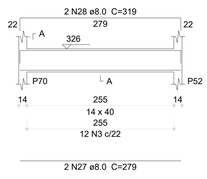



## V234 (14 x 40)
ESC 1:50

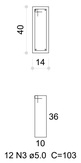



SEÇÃO A-A
ESC 1:25

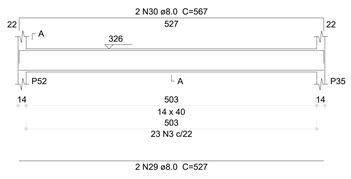
## V235 (14 x 40)
ESC 1:50



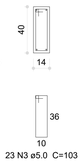

SEÇÃO A-A
ESC 1:25



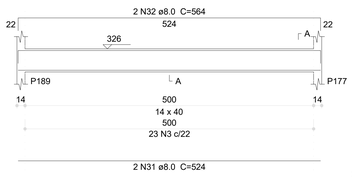

## V236 (14 x 40)
ESC 1:50



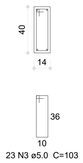

SEÇÃO A-A
ESC 1:25



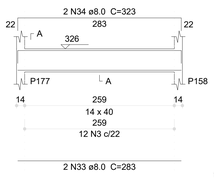

## V237 (14 x 40)
ESC 1:50



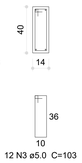

SEÇÃO A-A
ESC 1:25



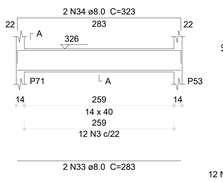

## V238 (14 x 40)
ESC 1:50



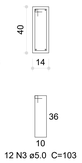

SEÇÃO A-A
ESC 1:25



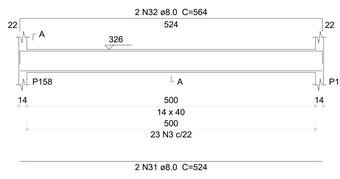

## V241 (14 x 40)
ESC 1:50




SEÇÃO A-A
ESC 1:25

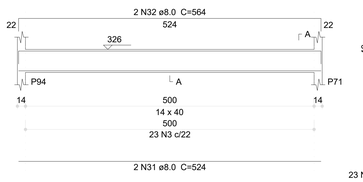



## V239 (14 x 40)
ESC 1:50

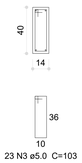



SEÇÃO A-A
ESC 1:25

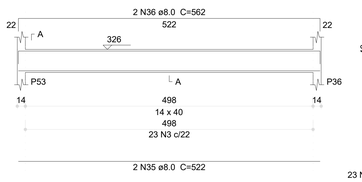
## V240 (14 x 40)
ESC 1:50



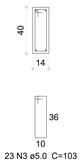

SEÇÃO A-A
ESC 1:25



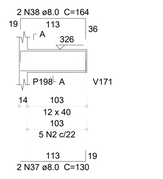

## V242 (14 x 40)
ESC 1:50



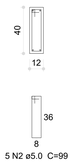

SEÇÃO A-A
ESC 1:25



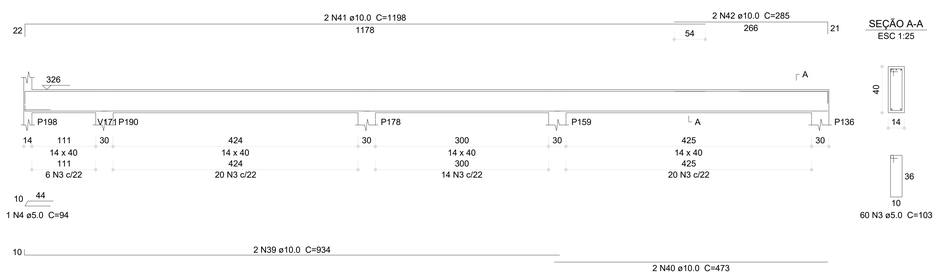

## V244 (12 x 40)
ESC 1:50




SEÇÃO A-A
ESC 1:25



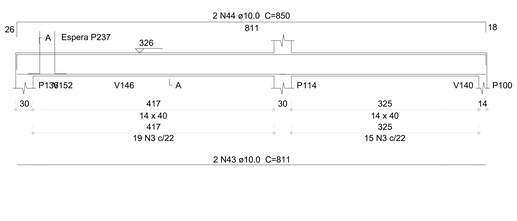

## V243 (14 x 40)
ESC 1:50



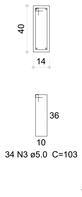

SEÇÃO A-A
ESC 1:25



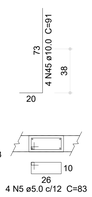

## V245 (14 x 40)
ESC 1:50




SEÇÃO A-A
ESC 1:25




ESPERA P237
ESC 1:25




1 ARMAÇÃO DAS VIGAS DO PAVIMENTO TÉRREO - PARTE 06
ESCALA INDICADA

### Relação do aço

| | | |
|---|---|---|
| V221 | V222 | V223 |
| V224 | V225 | V226 |
| V227 | V228 | V229 |
| V230 | V231 | V232 |
| V233 | V234 | V235 |
| V236 | V237 | V238 |
| V239 | V240 | V241 |
| V242 | V243 | V244 |
| V245 | | |

| AÇO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 2 | 85 | 170 |
| | 2 | 5.0 | 25 | 99 | 2475 |
| | 3 | 5.0 | 485 | 103 | 49955 |
| | 4 | 5.0 | 1 | 94 | 94 |
| | 5 | 5.0 | 4 | 83 | 332 |
| CA50 | 6 | 8.0 | 2 | 55 | 110 |
| | 7 | 8.0 | 2 | 87 | 174 |
| | 8 | 8.0 | 2 | 128 | 256 |
| | 9 | 8.0 | 2 | 162 | 324 |
| | 10 | 8.0 | 4 | 623 | 2492 |
| | 11 | 8.0 | 2 | 648 | 1296 |
| | 12 | 8.0 | 4 | 285 | 1140 |
| | 13 | 8.0 | 4 | 325 | 1300 |
| | 14 | 8.0 | 2 | 134 | 268 |
| | 15 | 8.0 | 2 | 168 | 336 |
| | 16 | 8.0 | 2 | 135 | 270 |
| | 17 | 8.0 | 2 | 169 | 338 |
| | 18 | 8.0 | 2 | 663 | 1326 |
| | 19 | 8.0 | 2 | 126 | 252 |
| | 20 | 8.0 | 2 | 160 | 320 |
| | 21 | 8.0 | 4 | 525 | 2100 |
| | 22 | 8.0 | 4 | 565 | 2260 |
| | 23 | 8.0 | 2 | 280 | 560 |
| | 24 | 8.0 | 2 | 320 | 640 |
| | 25 | 8.0 | 2 | 526 | 1052 |
| | 26 | 8.0 | 2 | 566 | 1132 |
| | 27 | 8.0 | 2 | 279 | 558 |
| | 28 | 8.0 | 2 | 319 | 638 |
| | 29 | 8.0 | 2 | 527 | 1054 |
| | 30 | 8.0 | 2 | 567 | 1134 |
| | 31 | 8.0 | 6 | 524 | 3144 |
| | 32 | 8.0 | 6 | 564 | 3384 |
| | 33 | 8.0 | 4 | 283 | 1132 |
| | 34 | 8.0 | 4 | 323 | 1292 |
| | 35 | 8.0 | 2 | 522 | 1044 |
| | 36 | 8.0 | 2 | 562 | 1124 |
| | 37 | 8.0 | 2 | 130 | 260 |
| | 38 | 8.0 | 2 | 164 | 328 |
| | 39 | 10.0 | 2 | 934 | 1868 |
| | 40 | 10.0 | 2 | 473 | 946 |
| | 41 | 10.0 | 2 | 1198 | 2396 |
| | 42 | 10.0 | 2 | 285 | 570 |
| | 43 | 10.0 | 2 | 811 | 1622 |
| | 44 | 10.0 | 2 | 850 | 1700 |
| | 45 | 10.0 | 4 | 91 | 364 |
| | 46 | 16.0 | 2 | 390 | 780 |
| | 47 | 16.0 | 2 | 1196 | 2392 |
| | 48 | 16.0 | 2 | 898 | 1796 |
| | 49 | 16.0 | 2 | 858 | 1716 |
| | 50 | 16.0 | 2 | 1200 | 2400 |

### Resumo do aço

| AÇO | DIAM (mm) | C.TOTAL (m) | PESO (kg) |
|---|---|---|---|
| CA50 | 8.0 | 330.4 | 130.4 |
| | 10.0 | 94.7 | 58.4 |
| | 16.0 | 90.9 | 143.4 |
| CA60 | 5.0 | 530.3 | 81.7 |
| PESO TOTAL (kg) | | | |
| CA50 | 332.1 | | |
| CA60 | 81.7 | | |

Volume de concreto (C-30) = 6.12 m³
Área de forma = 84.59 m²

CONTROLE DE REVISÕES

| Nº | DATA | DESCRIÇÃO |
|---|---|---|
| 03 | JANEIRO/ 2023 | Revisão geral da disciplina conforme a atualização da arquitetura. Redimensionamento dos elementos estruturais e acréscimo de elementos para adequação da arquitetura. Atendimento a NBR 6118/2014 e NBR 6122/2019. |
| 02 | JANEIRO/ 2017 | Atendimento à NBR 9050/2015; Alteração: quadro de áreas, fechamento frontal, sanitários 1 e 2, altura da platibanda, mobiliário e equipamento, altura da ceramica nos sanitários, cor dos portões dos solarios e altura da porta PA4; Acrescimo: gradil e quadro de cargas no castelo d'agua, de duchas higienicas e escaninhos pré-escola. |
| 01 | JULHO/ 2016 | Alteração paredes - shaft para tubulação hidráulica e detalhamento; alteração da altura da platibanda. |

MINISTÉRIO DA EDUCAÇÃO

PROJETO PADRÃO - FNDE

PROPRIETÁRIO:

ENDEREÇO:

MUNICÍPIO - UF:

PROPRIETÁRIO:

RESP. TÉCNICO: CAU / CREA

AUTOR DO PROJETO: CAU / CREA

APROVAÇÕES

CAU / CREA

PREFEITURA / RA

OBSERVAÇÕES:

CRECHE PRÉ-ESCOLA TIPO 1

PROJETO DE ESTRUTURA DE CONCRETO

COORDENAÇÃO: CGEST - Coordenação Geral de Infraestrutura Educacional

DETALHAMENTO ARMAÇÃO DAS VIGAS
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