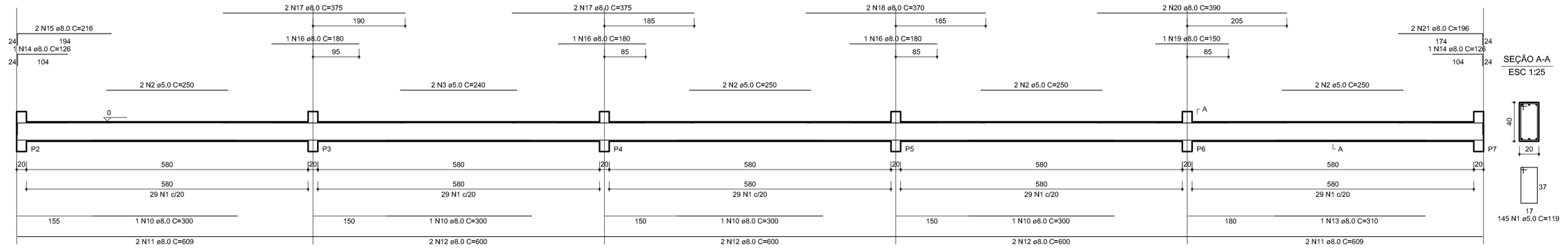
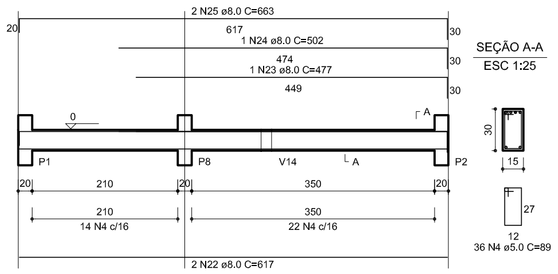
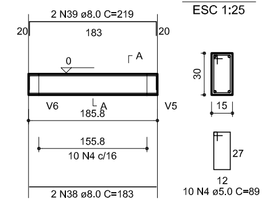
## V1
1:50




## V2
1:50




## V12
1:50




RELAÇÃO DO AÇO

V1 V2 V3
V4 V5 V6
V7 V8 V9
V10 V11 V12
V13 V14 V15

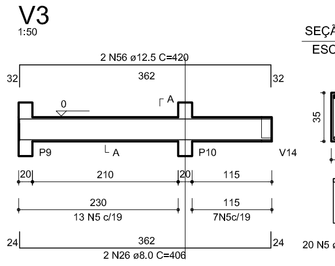
| AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| 60 | 1 | 5.0 | 389 | 119 | 46291 |
| | 2 | 5.0 | 100 | 250 | 4000 |
| | 3 | 5.0 | 4 | 240 | 960 |
| | 4 | 5.0 | 280 | 89 | 24920 |
| | 5 | 5.0 | 39 | 99 | 3861 |
| | 6 | 5.0 | 124 | 99 | 12276 |
| | 7 | 5.0 | 4 | 265 | 1060 |
| | 8 | 5.0 | 4 | 227 | 908 |
| | 9 | 5.0 | 2 | 297 | 594 |
| 50 | 10 | 8.0 | 8 | 300 | 2400 |
| | 11 | 8.0 | 8 | 609 | 4872 |
| | 12 | 8.0 | 12 | 600 | 7200 |
| | 13 | 8.0 | 2 | 310 | 620 |
| | 14 | 8.0 | 4 | 126 | 504 |
| | 15 | 8.0 | 4 | 216 | 864 |
| | 16 | 8.0 | 4 | 180 | 720 |
| | 17 | 8.0 | 8 | 375 | 3000 |
| | 18 | 8.0 | 4 | 370 | 1480 |
| | 19 | 8.0 | 3 | 150 | 450 |
| | 20 | 8.0 | 4 | 390 | 1560 |
| | 21 | 8.0 | 4 | 196 | 784 |
| | 22 | 8.0 | 4 | 617 | 2468 |
| | 23 | 8.0 | 1 | 477 | 477 |
| | 24 | 8.0 | 1 | 502 | 502 |
| | 25 | 8.0 | 2 | 663 | 1326 |
| | 26 | 8.0 | 4 | 406 | 1624 |
| | 27 | 8.0 | 8 | 362 | 2896 |
| | 28 | 8.0 | 2 | 406 | 812 |
| | 29 | 8.0 | 1 | 120 | 120 |
| | 30 | 8.0 | 2 | 407 | 814 |
| | 31 | 8.0 | 1 | 120 | 120 |
| | 32 | 8.0 | 2 | 407 | 814 |
| | 33 | 8.0 | 2 | 407 | 814 |
| | 34 | 8.0 | 1 | 155 | 155 |
| | 35 | 8.0 | 1 | 190 | 190 |
| | 36 | 8.0 | 2 | 1139 | 2278 |
| | 37 | 8.0 | 2 | 969 | 1938 |
| | 38 | 8.0 | 2 | 183 | 366 |
| | 39 | 8.0 | 2 | 219 | 438 |
| | 40 | 8.0 | 2 | 255 | 510 |
| | 41 | 8.0 | 4 | 937 | 3748 |
| | 42 | 8.0 | 4 | 89 | 356 |
| | 43 | 8.0 | 4 | 639 | 2556 |
| | 44 | 8.0 | 1 | 160 | 160 |
| | 45 | 8.0 | 1 | 297 | 297 |
| | 46 | 8.0 | 2 | 667 | 1334 |
| | 47 | 10.0 | 2 | 661 | 1322 |
| | 48 | 10.0 | 2 | 1198 | 2396 |
| | 49 | 10.0 | 2 | 1052 | 2104 |
| | 50 | 10.0 | 4 | 715 | 2860 |
| | 51 | 10.0 | 2 | 188 | 376 |
| | 52 | 10.0 | 2 | 228 | 456 |
| | 53 | 10.0 | 4 | 308 | 1232 |
| | 54 | 10.0 | 4 | 290 | 1160 |
| | 55 | 10.0 | 4 | 450 | 1800 |
| | 56 | 12.5 | 4 | 420 | 1680 |

RESUMO DO AÇO

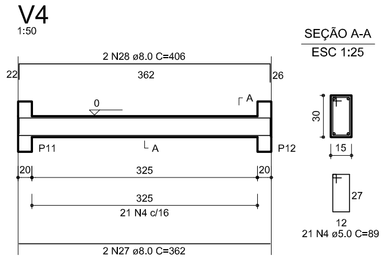
| AÇO | DIAM | C.TOTAL (m) | PESO+10% (kg) |
|---|---|---|---|
| CA50 | 8.0 | 515.8 | 224.2 |
| | 10.0 | 137.0 | 93.0 |
| | 12.5 | 16.8 | 17.8 |
| CA60 | 5.0 | 952.8 | 161.4 |
| PESO TOTAL | | | |
| CA50 | 335.0 | | |
| CA60 | 161.4 | | |

Vol. de concreto total =10.33 m³
Área de forma total = 140.59 m²

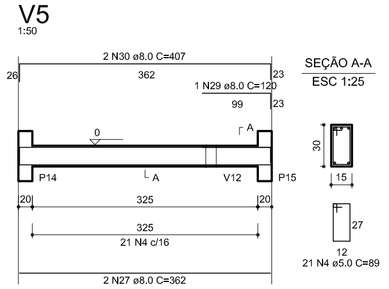
## V3
1:50



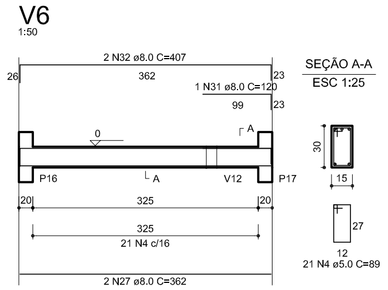

## V4
1:50



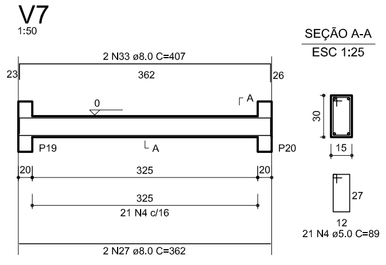

## V5
1:50



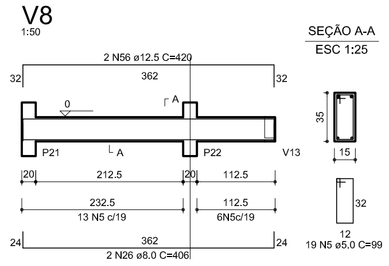

## V6
1:50



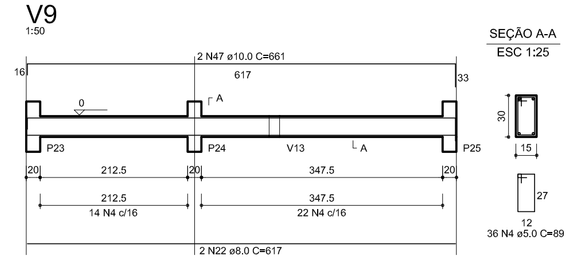

## V7
1:50



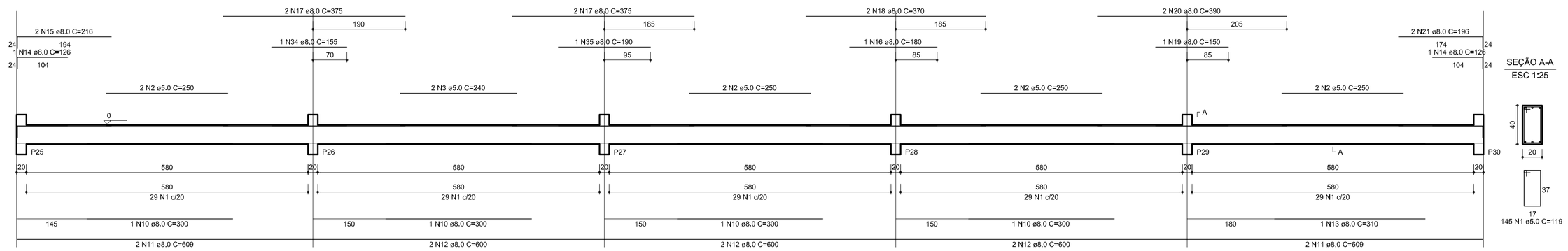

## V8
1:50



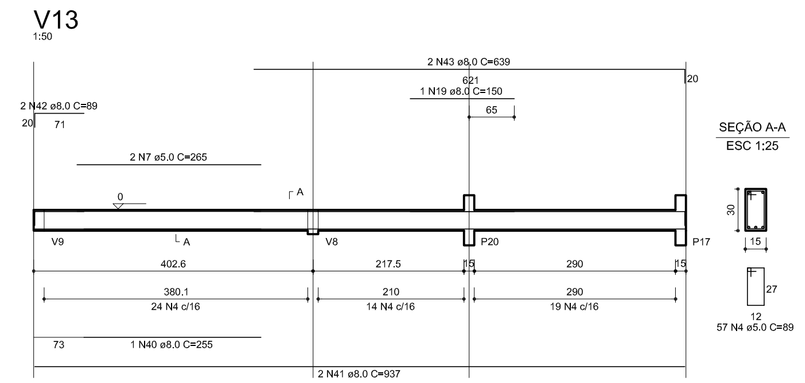

## V9
1:50



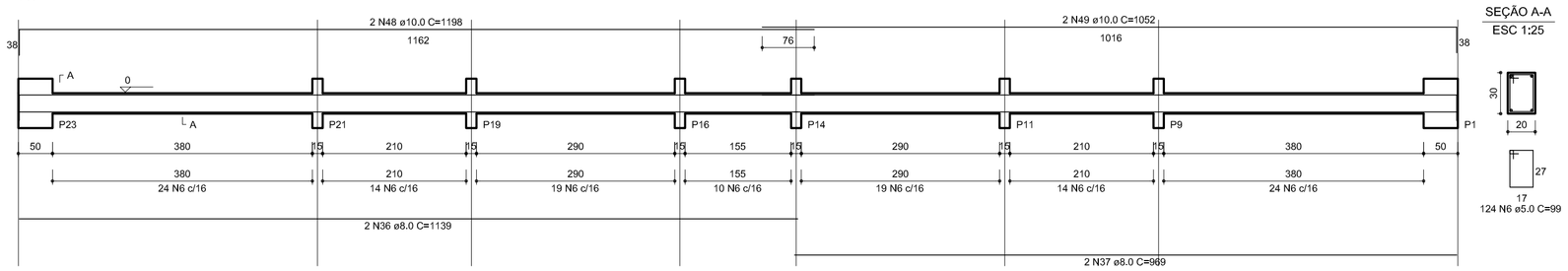

## V10
1:50



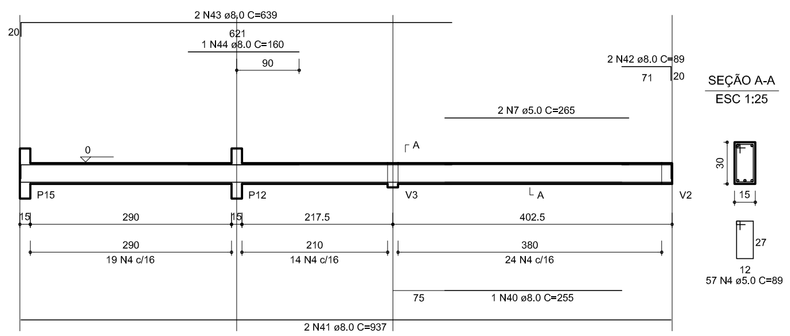

## V13
1:50



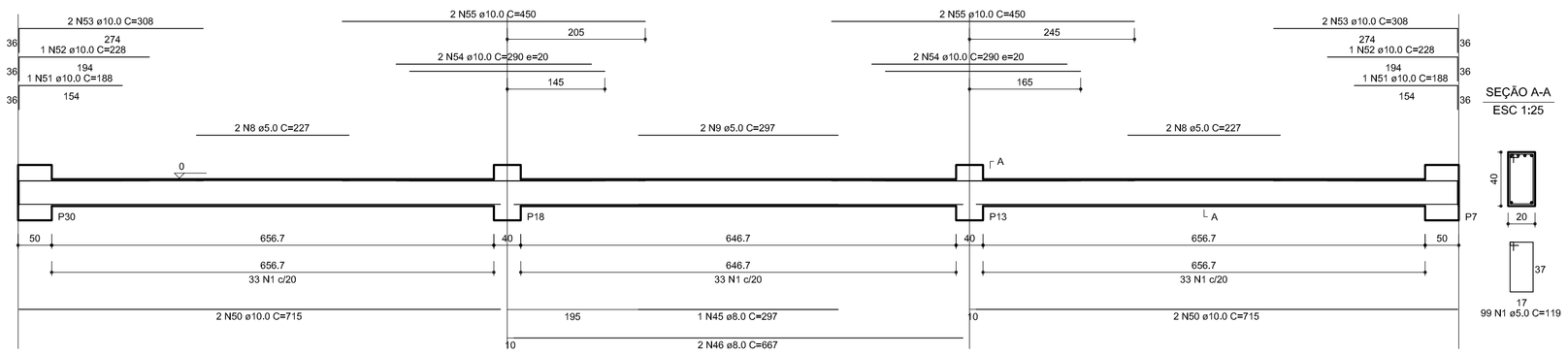

## V11
1:50




## V14
1:50




## V15
1:50




GOVERNO FEDERAL
BRASIL
PAÍS RICO É PAÍS SEM POBREZA
Ministério da Educação
FNDE Fundo Nacional de Desenvolvimento da Educação

# PROJETO PADRÃO - FNDE

MUNICÍPIO – UF:

PROPRIETÁRIO:

ENDEREÇO:

PROPRIETÁRIO

RESP. TÉCNICO CREA

| DLFO | CREA |
|---|---|
| | RA |

OBSERVAÇÕES:

## QUADRA COBERTA

PROJETO ESTRUTURAL

| COORDENAÇÃO | | | |
|---|---|---|---|
| CGEST - Coordenação Geral de Infraestrutura Educacional | ESTRUTURA DE CONCRETO<br>VIGAS - NÍVEL 000 | | EST |
| FORMATO<br>A1 (841 X 594) | REVISÃO<br>R.00<br>R.00<br>R.00 | ESCALA<br>1/125<br>DATA EMISSÃO<br>JULHO/2011 | PRANCHA<br>10/11 |