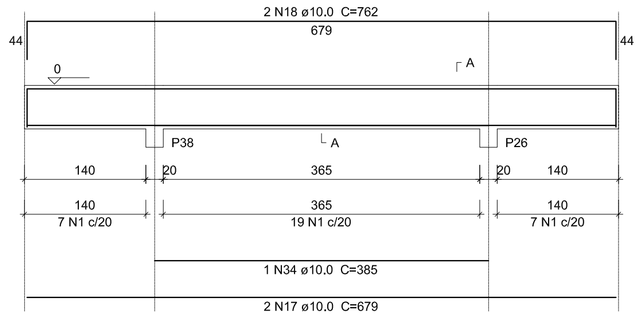
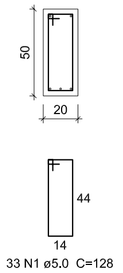
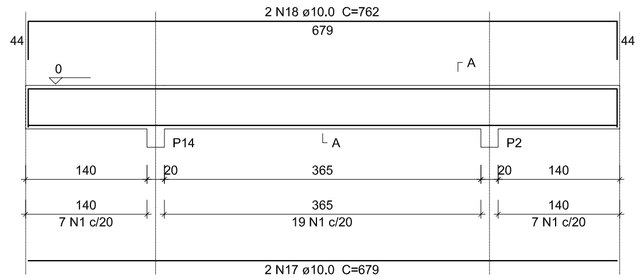
## V27
ESC 1:50



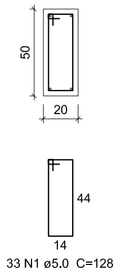

SEÇÃO A-A
ESC 1:25



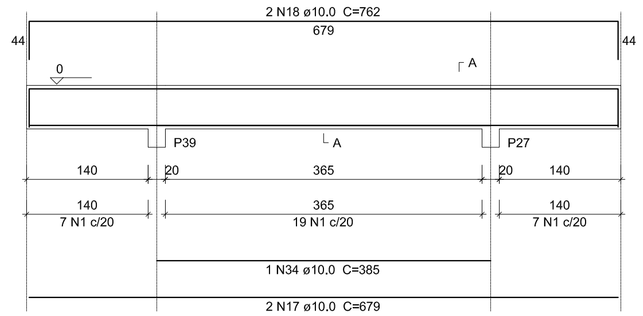

## V28
ESC 1:50



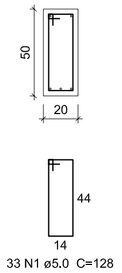

SEÇÃO A-A
ESC 1:25



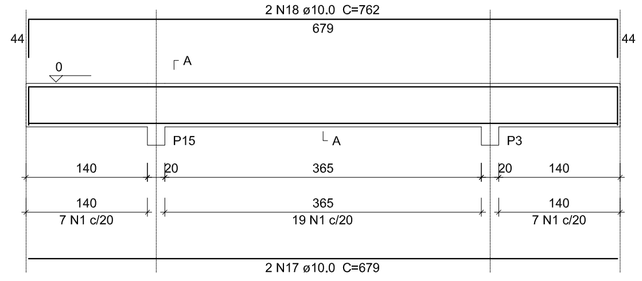

## V29
ESC 1:50



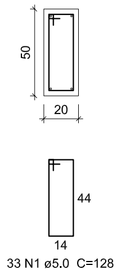

SEÇÃO A-A
ESC 1:25



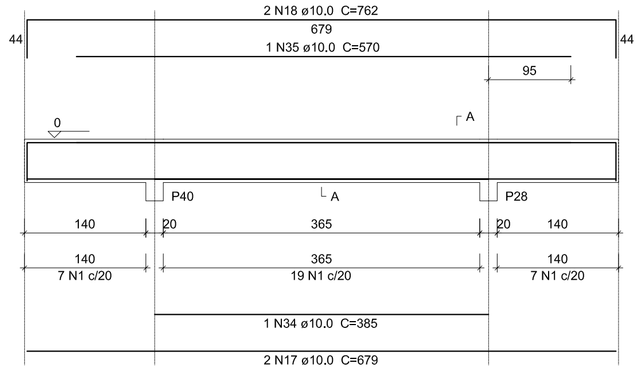

## V30
ESC 1:50



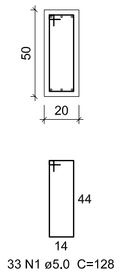

SEÇÃO A-A
ESC 1:25



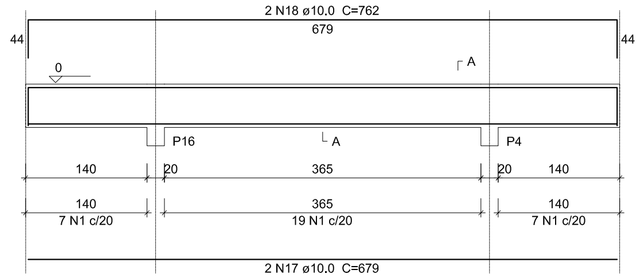

## V31
ESC 1:50



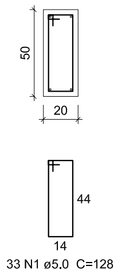

SEÇÃO A-A
ESC 1:25



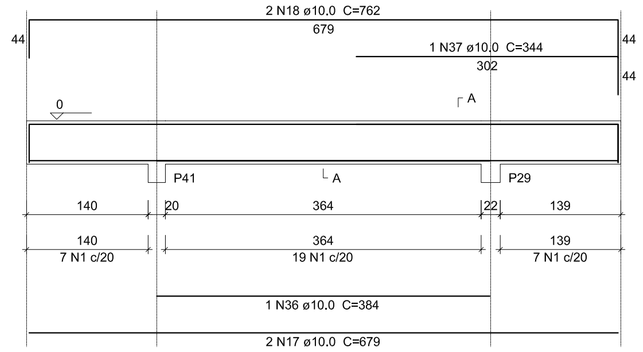

## V32
ESC 1:50



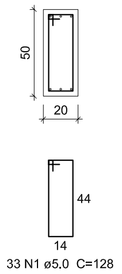

SEÇÃO A-A
ESC 1:25



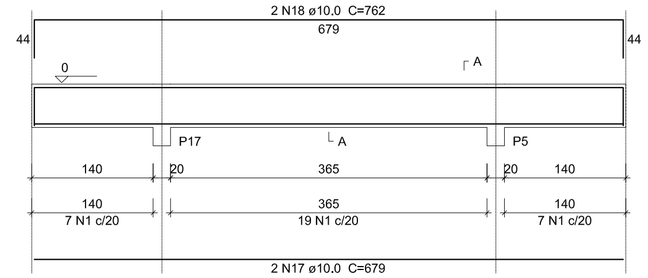

## V33
ESC 1:50



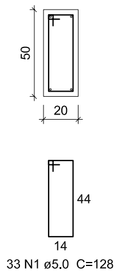

SEÇÃO A-A
ESC 1:25



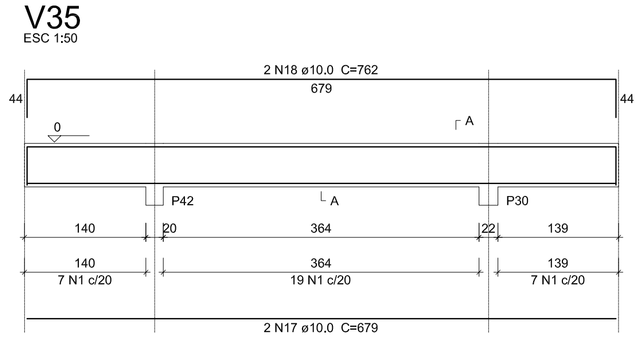

## V34
ESC 1:50



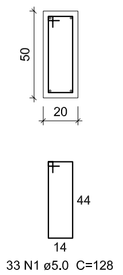

SEÇÃO A-A
ESC 1:25



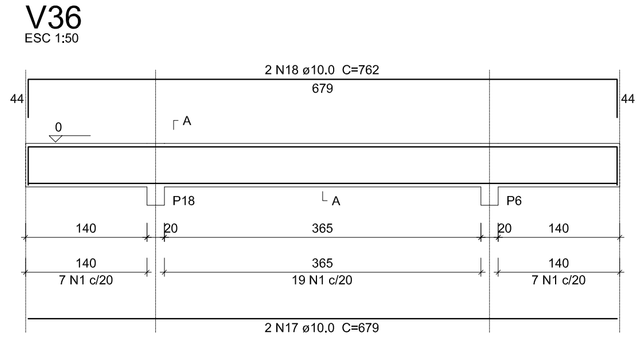

## V35
ESC 1:50



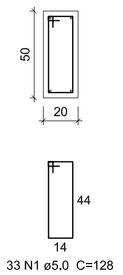

SEÇÃO A-A
ESC 1:25



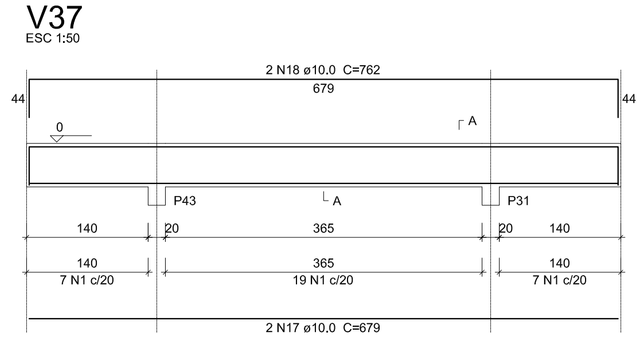

## V36
ESC 1:50



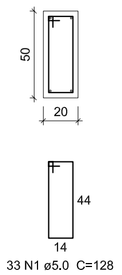

SEÇÃO A-A
ESC 1:25



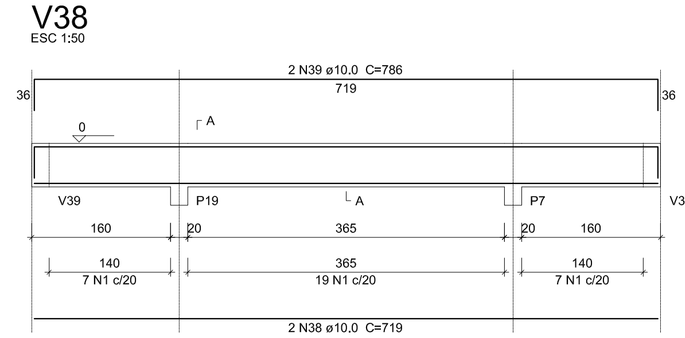

## V37
ESC 1:50



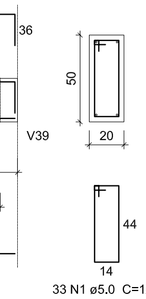

SEÇÃO A-A
ESC 1:25



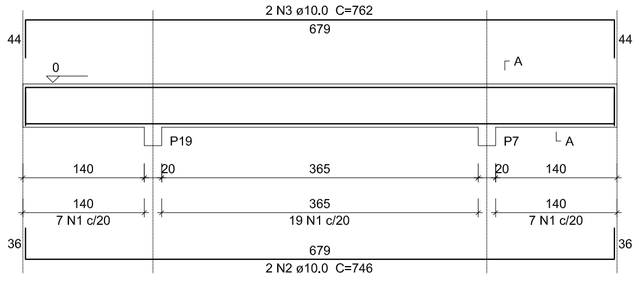

## V38
ESC 1:50



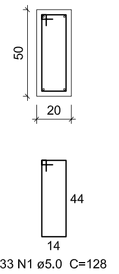

SEÇÃO A-A
ESC 1:25



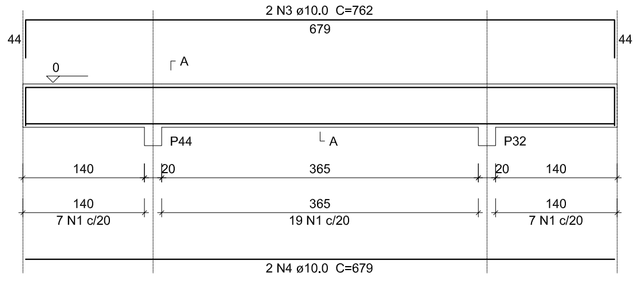

## V39
ESC 1:50



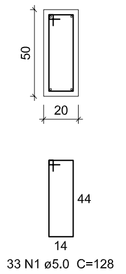

SEÇÃO A-A
ESC 1:25



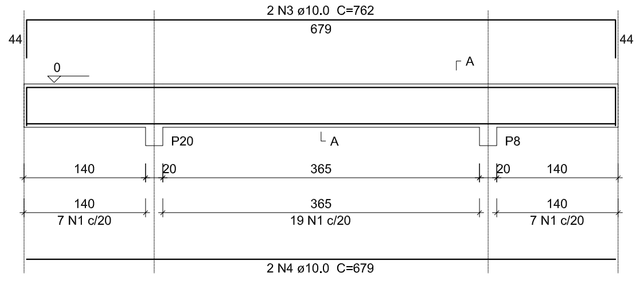

## V40
ESC 1:50



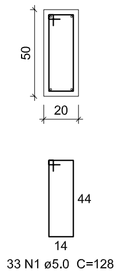

SEÇÃO A-A
ESC 1:25



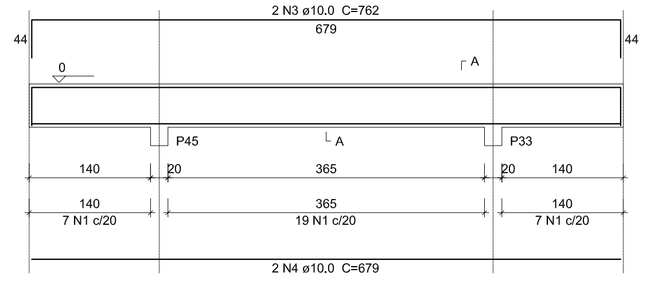

## V41
ESC 1:50



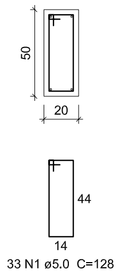

SEÇÃO A-A
ESC 1:25




## V42
ESC 1:50




SEÇÃO A-A
ESC 1:25




### Relação do aço (V1 a V38)

| | | |
|---|---|---|
| V1 | V2 | V3 |
| V4 | V5 | V6 |
| V7 | V8 | V9 |
| V10 | V11 | V12 |
| V13 | V14 | V15 |
| V16 | V17 | V18 |
| V19 | V20 | V21 |
| V22 | V23 | V24 |
| V25 | V26 | V27 |
| V28 | V29 | V30 |
| V31 | V32 | V33 |
| V34 | V35 | V36 |
| V37 | V38 | |

### Resumo do aço

| AÇO | DIAM (mm) | C.TOTAL (m) | PESO + 10 % (kg) |
|---|---|---|---|
| CA50 | 10.0 | 1868.1 | 1266.9 |
| CA60 | 5.0 | 1866.3 | 316.4 |
| PESO TOTAL (kg) | | | |
| CA50 | 1266.9 | | |
| CA60 | 316.4 | | |

Volume de concreto (C-25) = 30,02 m³
Área de forma = 360,28 m²

| AÇO | N | DIAM (mm) | QUANT (Barras) | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 1458 | 128 | 186624 |
| CA50 | 2 | 10.0 | 8 | 360 | 2880 |
| | 3 | 10.0 | 16 | 879 | 14064 |
| | 4 | 10.0 | 20 | 962 | 19240 |
| | 5 | 10.0 | 6 | 348 | 2088 |
| | 6 | 10.0 | 5 | 583 | 2915 |
| | 7 | 10.0 | 6 | 877 | 5262 |
| | 8 | 10.0 | 4 | 723 | 2892 |
| | 9 | 10.0 | 9 | 960 | 8640 |
| | 10 | 10.0 | 13 | 355 | 4615 |
| | 11 | 10.0 | 12 | 580 | 6960 |
| | 12 | 10.0 | 14 | 874 | 12236 |
| | 13 | 10.0 | 10 | 720 | 7200 |
| | 14 | 10.0 | 17 | 957 | 16269 |
| | 15 | 10.0 | 6 | 345 | 2070 |
| | 16 | 10.0 | 4 | 715 | 2860 |
| | 17 | 10.0 | 34 | 679 | 23086 |
| | 18 | 10.0 | 34 | 762 | 25908 |
| | 19 | 10.0 | 4 | 585 | 2340 |
| | 20 | 10.0 | 3 | 368 | 1104 |
| | 21 | 10.0 | 2 | 911 | 1822 |
| | 22 | 10.0 | 1 | 215 | 215 |
| | 23 | 10.0 | 2 | 728 | 1456 |
| | 24 | 10.0 | 4 | 330 | 1320 |
| | 25 | 10.0 | 2 | 908 | 1816 |
| | 26 | 10.0 | 1 | 205 | 205 |
| | 27 | 10.0 | 1 | 844 | 844 |
| | 28 | 10.0 | 6 | 350 | 2100 |
| | 29 | 10.0 | 6 | 725 | 4350 |
| | 30 | 10.0 | 3 | 353 | 1059 |
| | 31 | 10.0 | 1 | 842 | 842 |
| | 32 | 10.0 | 2 | 839 | 1678 |
| | 33 | 10.0 | 3 | 335 | 1005 |
| | 34 | 10.0 | 3 | 385 | 1155 |
| | 35 | 10.0 | 1 | 570 | 570 |
| | 36 | 10.0 | 1 | 384 | 384 |
| | 37 | 10.0 | 1 | 344 | 344 |
| | 38 | 10.0 | 2 | 719 | 1438 |
| | 39 | 10.0 | 2 | 786 | 1572 |

### Relação do aço (V39 a V49)

| | | |
|---|---|---|
| V39 | V40 | V41 |
| V42 | V43 | V44 |
| V45 | V46 | V47 |
| V48 | V49 | |

| AÇO | N | DIAM (mm) | QUANT (Barras) | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 363 | 128 | 46464 |
| CA50 | 2 | 10.0 | 2 | 746 | 1492 |
| | 3 | 10.0 | 22 | 762 | 16764 |
| | 4 | 10.0 | 20 | 679 | 13580 |

### Resumo do aço

| AÇO | DIAM (mm) | C.TOTAL (m) | PESO + 10 % (kg) |
|---|---|---|---|
| CA50 | 10.0 | 318.4 | 215.9 |
| CA60 | 5.0 | 464.7 | 78.8 |
| PESO TOTAL (kg) | | | |
| CA50 | 215.9 | | |
| CA60 | 78.8 | | |

Volume de concreto (C-25) = 7.53 m³
Área de forma = 90,42 m²

CONTRATADA:
INSTITUTO FEDERAL DE EDUCAÇÃO CIÊNCIA E TECNOLOGIA CATARINENSE - REITORIA
TELEFONE:
(47) 3331 7800
ENDEREÇO:
RUA DAS MISSÕES, 100
BLUMENAU - SC

CONTRATANTE:
INSTITUTO FEDERAL DE EDUCAÇÃO CIÊNCIA E TECNOLOGIA CATARINENSE
UNIDADE:
CAMPUS BRUSQUE
ENDEREÇO:
AV HUGO SCHLOSSER
BRUSQUE - SC

AUTORIA DO PROJETO:
ENG. MARIO C. ALEXANDRE JUNIOR
CREA-SC: 119087-1

CONTRATANTE:

NOME DO PROJETO:
FUNDAÇÕES E PISO - BLOCO PEDAGÓGICO

CONTEÚDO: DETALHAMENTO VIGAS;

| | | |
|---|---|---|
| OBJETIVO DO PROJETO: CONSTRUÇÃO | TIPO DE PROJETO: ESTRUTURAL | FOLHA: 05 |
| AUTORIA DO DESENHO: ENG. MARIO C. ALEXANDRE JR | | |
| CIDADE - UF: BLUMENAU - SC | REVISÃO Nº: 01 | |
| DATA: 04/2014 | ESCALA: INDICADA | REFERÊNCIA: EST. 05/10 |