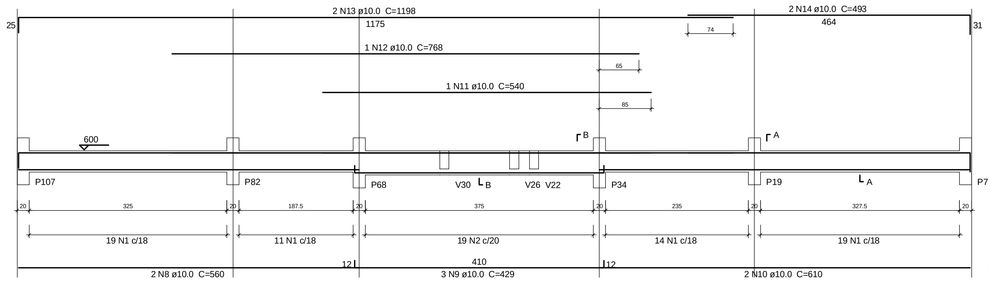
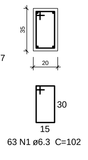
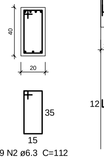
## V145
1:50



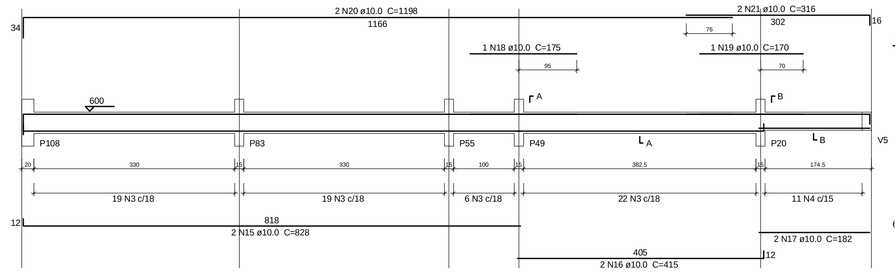

SEÇÃO A-A
ESC 1:25



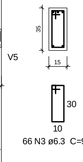

SEÇÃO B-B
ESC 1:25



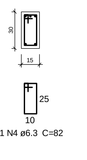

## V147
1:50



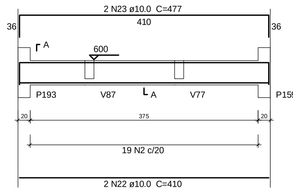

SEÇÃO A-A
ESC 1:25



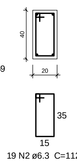

SEÇÃO B-B
ESC 1:25



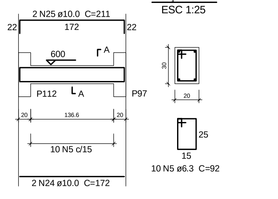

## V154
1:50




SEÇÃO A-A
ESC 1:25




## V156
1:50




SEÇÃO A-A
ESC 1:25




## Relação do aço

| | | |
|---|---|---|
| V145 | V147 | V150 |
| V151 | V152 | V153 |
| V154 | V155 | V156 |
| V157 | V158 | V159 |
| V160 | V161 | V162 |
| V163 | V164 | V165 |
| V166 | V167 | V168 |
| V169 | V171 | V179 |
| V189 | | |

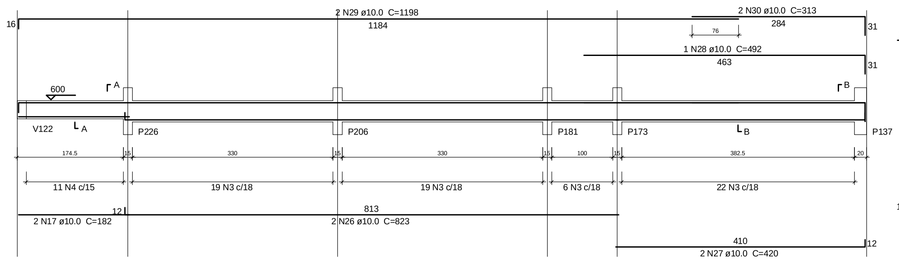
| AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA50 | 1 | 6.3 | 370 | 102 | 37740 |
| | 2 | 6.3 | 247 | 112 | 27664 |
| | 3 | 6.3 | 462 | 92 | 42504 |
| | 4 | 6.3 | 115 | 82 | 9430 |
| | 5 | 6.3 | 97 | 92 | 8924 |
| | 6 | 6.3 | 1 | 87 | 87 |
| | 7 | 6.3 | 11 | 72 | 792 |
| | 8 | 10.0 | 6 | 560 | 3360 |
| | 9 | 10.0 | 21 | 429 | 9009 |
| | 10 | 10.0 | 6 | 610 | 3660 |
| | 11 | 10.0 | 2 | 540 | 1080 |
| | 12 | 10.0 | 2 | 768 | 1536 |
| | 13 | 10.0 | 4 | 1198 | 4792 |
| | 14 | 10.0 | 2 | 493 | 986 |
| | 15 | 10.0 | 4 | 828 | 3312 |
| | 16 | 10.0 | 4 | 415 | 1660 |
| | 17 | 10.0 | 14 | 182 | 2548 |
| | 18 | 10.0 | 1 | 175 | 175 |
| | 19 | 10.0 | 1 | 170 | 170 |
| | 20 | 10.0 | 4 | 1198 | 4792 |
| | 21 | 10.0 | 4 | 316 | 1264 |
| | 22 | 10.0 | 12 | 410 | 4920 |
| | 23 | 10.0 | 8 | 477 | 3816 |
| | 24 | 10.0 | 4 | 172 | 688 |
| | 25 | 10.0 | 4 | 211 | 844 |
| | 26 | 10.0 | 4 | 823 | 3292 |
| | 27 | 10.0 | 4 | 420 | 1680 |
| | 28 | 10.0 | 4 | 492 | 1968 |
| | 29 | 10.0 | 6 | 1198 | 7188 |
| | 30 | 10.0 | 4 | 313 | 1252 |
| | 31 | 10.0 | 4 | 880 | 3520 |
| | 32 | 10.0 | 4 | 363 | 1452 |
| | 33 | 10.0 | 4 | 1198 | 4792 |
| | 34 | 10.0 | 4 | 313 | 1252 |
| | 35 | 10.0 | 6 | 903 | 5418 |
| | 36 | 10.0 | 8 | 268 | 2144 |
| | 37 | 10.0 | 2 | 180 | 360 |
| | 38 | 10.0 | 4 | 555 | 2220 |
| | 39 | 10.0 | 6 | 1198 | 7188 |
| | 40 | 10.0 | 4 | 493 | 1972 |
| | 41 | 10.0 | 2 | 205 | 410 |
| | 42 | 10.0 | 2 | 715 | 1430 |
| | 43 | 10.0 | 4 | 479 | 1916 |
| | 44 | 10.0 | 4 | 213 | 852 |
| | 45 | 10.0 | 1 | 169 | 169 |
| | 46 | 10.0 | 4 | 257 | 1028 |
| | 47 | 10.0 | 1 | 174 | 174 |
| | 48 | 10.0 | 2 | 189 | 378 |
| | 49 | 10.0 | 2 | 212 | 424 |
| | 50 | 10.0 | 2 | 875 | 1750 |
| | 51 | 10.0 | 2 | 368 | 736 |
| | 52 | 10.0 | 2 | 568 | 1136 |
| | 53 | 10.0 | 2 | 316 | 632 |
| | 54 | 10.0 | 1 | 788 | 788 |
| | 55 | 10.0 | 2 | 496 | 992 |
| | 56 | 10.0 | 1 | 545 | 545 |
| | 57 | 10.0 | 2 | 496 | 992 |
| | 58 | 10.0 | 2 | 275 | 550 |
| | 59 | 10.0 | 2 | 311 | 622 |
| | 60 | 12.5 | 1 | 550 | 550 |
| | 61 | 12.5 | 4 | 1197 | 4788 |
| | 62 | 12.5 | 2 | 492 | 984 |
| | 63 | 12.5 | 1 | 540 | 540 |
| | 64 | 12.5 | 2 | 491 | 982 |

## Resumo do aço

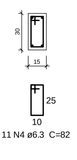
| AÇO | DIAM | C.TOTAL (m) | PESO + 10 % (kg) |
|---|---|---|---|
| CA50 | 6.3 | 1271.5 | 342.2 |
| | 10.0 | 1098.4 | 744.9 |
| | 12.5 | 78.5 | 83.1 |
| PESO TOTAL | | | |
| CA50 | 1170.2 | | |

Vol. de concreto total (C-25) = 15.48 $m^3$
Área de forma total = 216.5 $m^2$

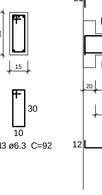
## V150
1:50



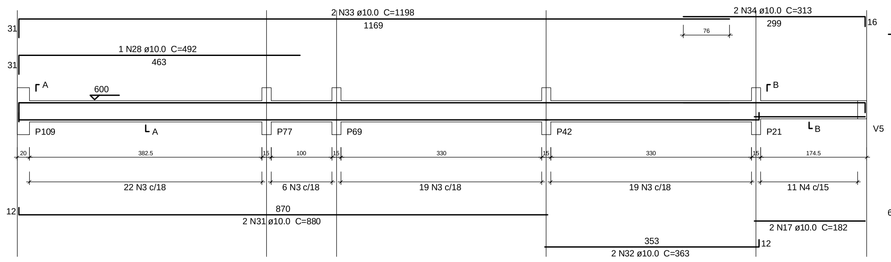

SEÇÃO A-A
ESC 1:25



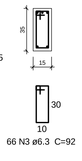

SEÇÃO B-B
ESC 1:25



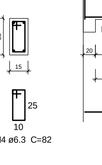

## V151
1:50



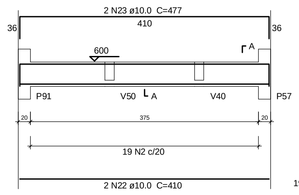

SEÇÃO A-A
ESC 1:25



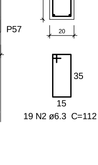

SEÇÃO B-B
ESC 1:25



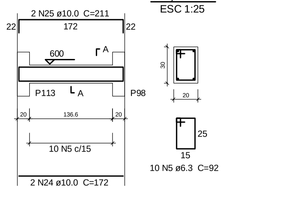

## V155
1:50



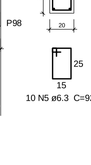

SEÇÃO A-A
ESC 1:25



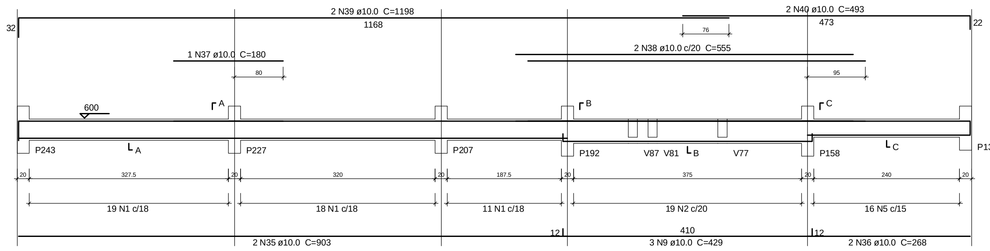

## V157
1:50



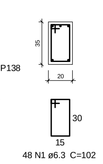

SEÇÃO A-A
ESC 1:25



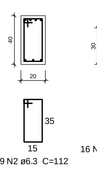

## V152
1:50




SEÇÃO A-A
ESC 1:25



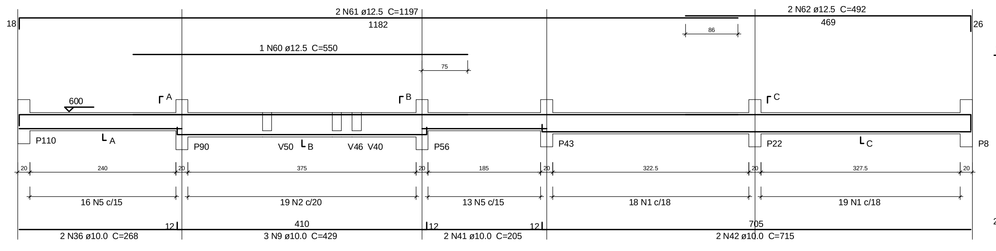

SEÇÃO B-B
ESC 1:25



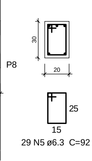

SEÇÃO C-C
ESC 1:25




## V153
1:50

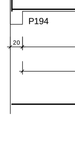



SEÇÃO A-A
ESC 1:25

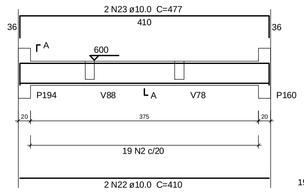



SEÇÃO B-B
ESC 1:25

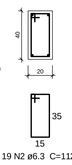
SEÇÃO C-C
ESC 1:25



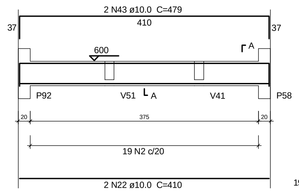

## V158
1:50



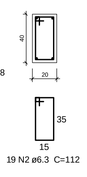

SEÇÃO A-A
ESC 1:25



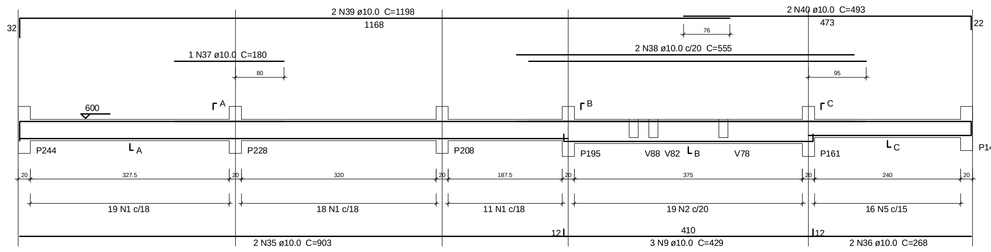

## V159
1:50




SEÇÃO A-A
ESC 1:25




## V160
1:50

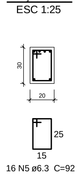



SEÇÃO A-A
ESC 1:25

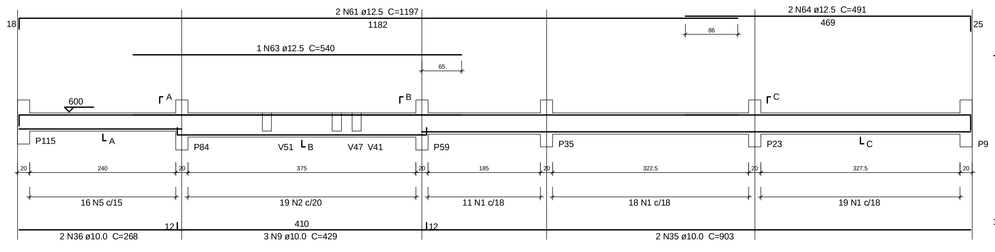
SEÇÃO B-B
ESC 1:25



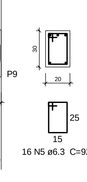

SEÇÃO C-C
ESC 1:25




## V161
1:50




SEÇÃO A-A
ESC 1:25



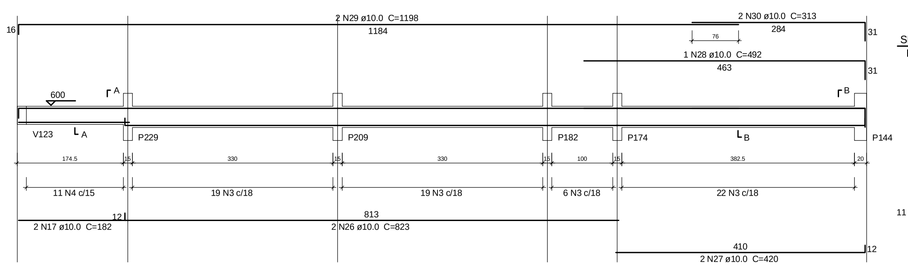

SEÇÃO B-B
ESC 1:25



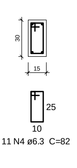

SEÇÃO C-C
ESC 1:25




## V162
1:50

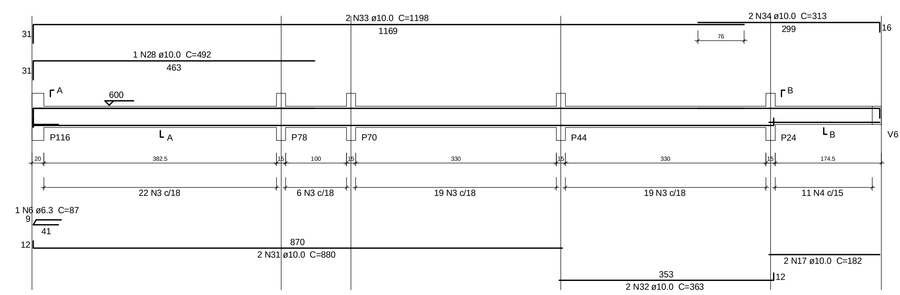



SEÇÃO A-A
ESC 1:25

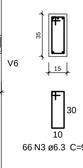



SEÇÃO B-B
ESC 1:25

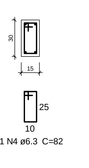
## V163
1:50



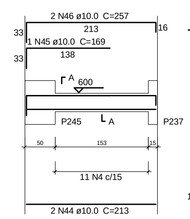

SEÇÃO A-A
ESC 1:25




SEÇÃO B-B
ESC 1:25



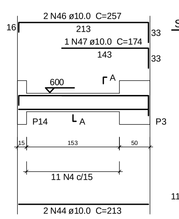

## V164
1:50




SEÇÃO A-A
ESC 1:25



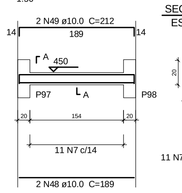

## V165
1:50




SEÇÃO A-A
ESC 1:25

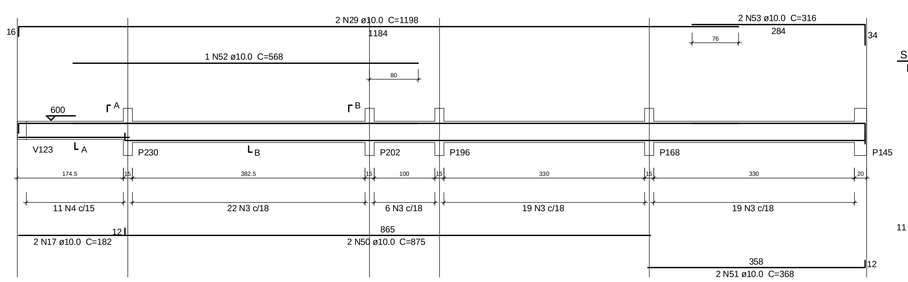



## V189
1:50

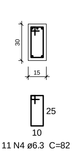



SEÇÃO A-A
ESC 1:25

## V166
1:50

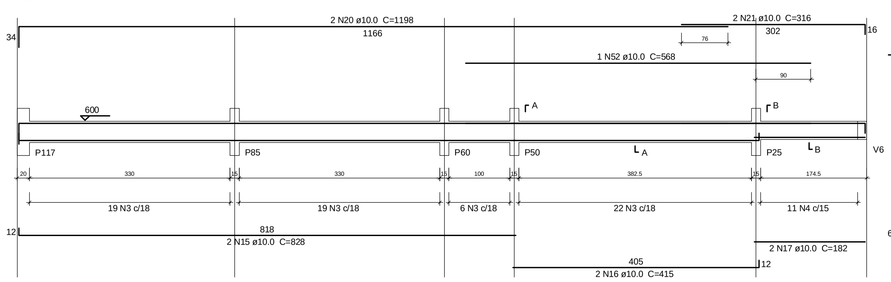



SEÇÃO A-A
ESC 1:25

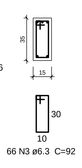



SEÇÃO B-B
ESC 1:25

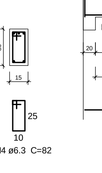
## V167
1:50



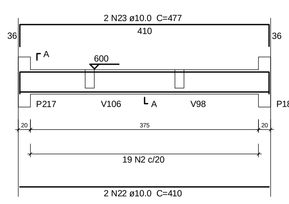

SEÇÃO A-A
ESC 1:25



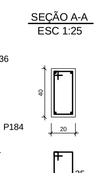

SEÇÃO B-B
ESC 1:25



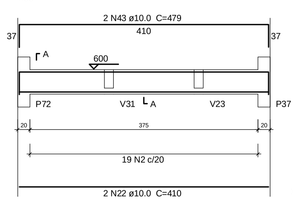

## V170
1:50



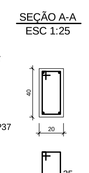

SEÇÃO A-A
ESC 1:25



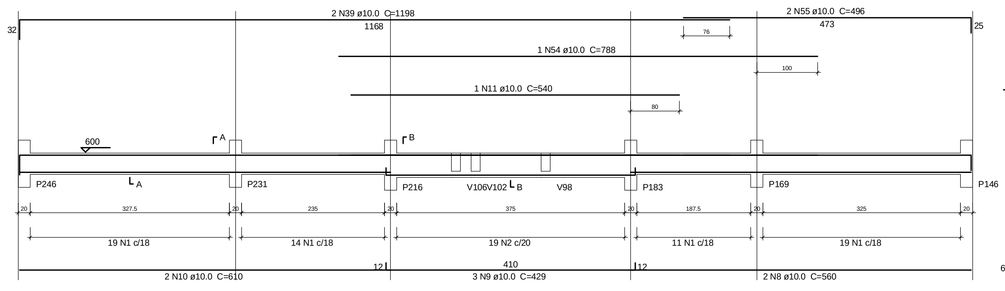

## V171
1:50



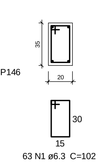

SEÇÃO A-A
ESC 1:25



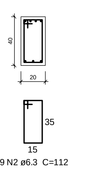

## V168
1:50



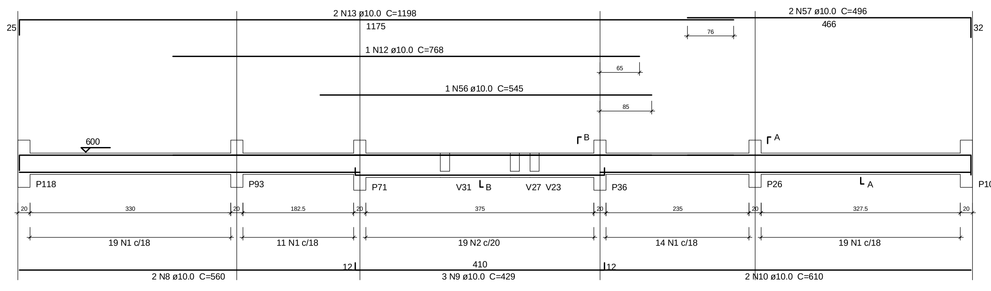

SEÇÃO A-A
ESC 1:25




SEÇÃO B-B
ESC 1:25

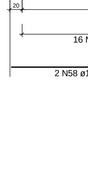



## V169
1:50

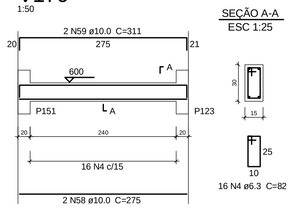



SEÇÃO A-A
ESC 1:25

SEÇÃO B-B
ESC 1:25




## V179
1:50




SEÇÃO A-A
ESC 1:25




# DETALHAMENTO DAS VIGAS DO 3º PAVIMENTO / PISO 3

ESCALA 1:50

| | |
|---|---|
| PROJETO ESTRUTURAL | |
| MORADIA ESTUDANTIL-BLOCO 1-UFVJM- DIAMANTINA -MG | |
| DETALHAMENTOS | |
| 3º PAVIMENTO / PISO 3 | |
| DETALHAMENTO DAS VIGAS | |
| Escala: 1/50 | DESENHO 01 |
| Desenho: | Revisão: 0 |
| Data: 14/01/2010 | Unidade: cm |
| | FOLHA 21/39 |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Rodovia MG 367, km 583 - nº 6000
Campus JK - Campus Universitário
alessandro.alves@ufvjm.edu.br



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FORMATO A0 - INTERNO: 1049 x 821 mm.
EXTERNO: 1189 x 841 mm.