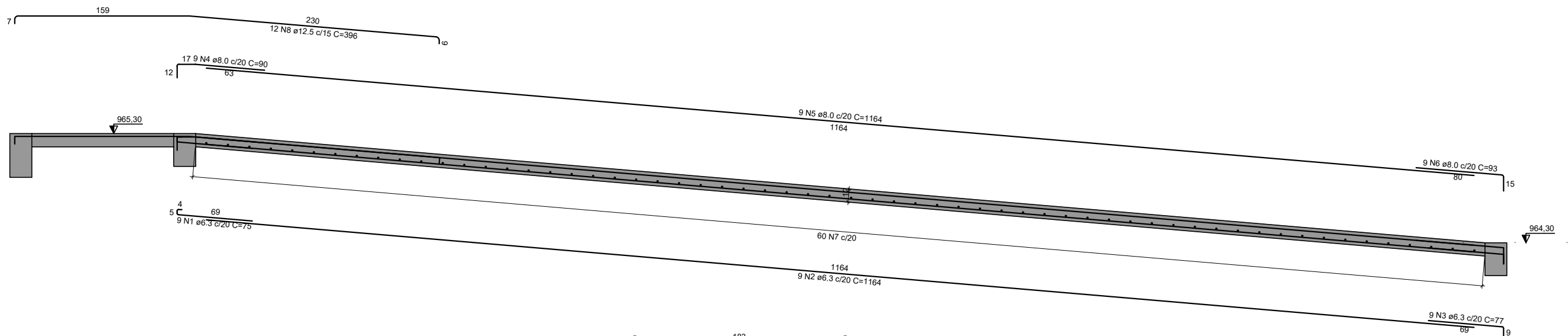
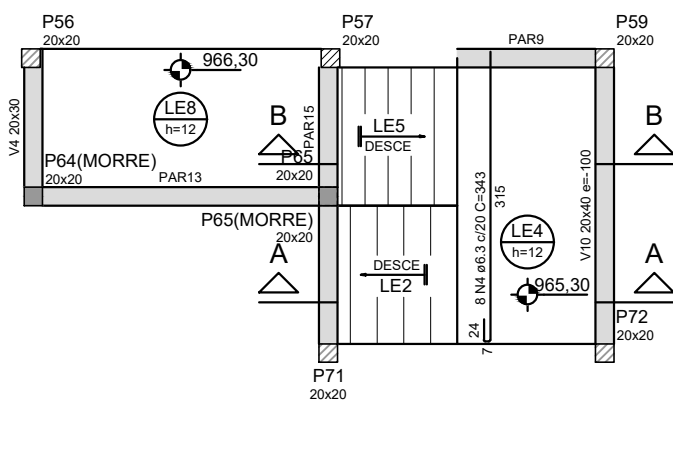


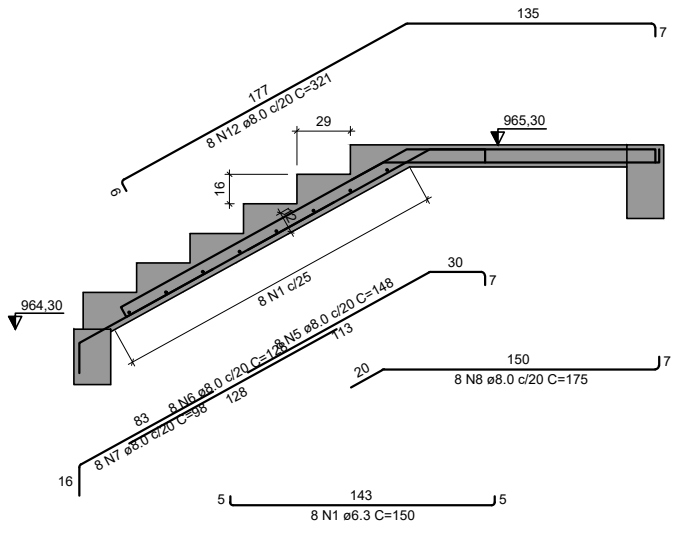
Armação positiva da escada E1



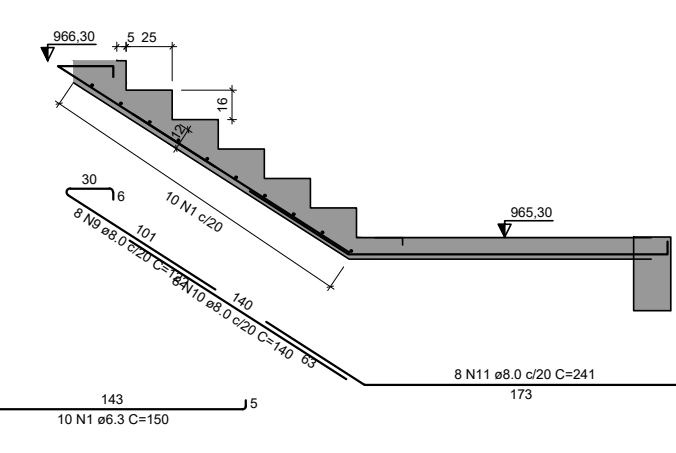
Corte A-A (LE1)



Armação positiva da escada E2



Corte A-A (LE2)



Corte B-B (LE5)

| RELAÇÃO DO AÇO | | | | | | |
|----------------|-----|-----------|------------|-------------|--------------|--------------|
| LE3 | LE3 | | | LE4 | | |
| LE3 | N | DIAM (mm) | QUANT (cm) | C UNIT (cm) | C TOTAL (cm) | C TOTAL (cm) |
| CASO | 1 | 6,3 | 18 | 150 | 2700 | 2700 |
| | 2 | 6,3 | 15 | 150 | 2250 | 2250 |
| | 3 | 6,3 | 15 | 150 | 2250 | 2250 |
| | 4 | 6,3 | 8 | 343 | 2744 | 2744 |
| | 5 | 8,0 | 8 | 148 | 1184 | 1184 |
| | 6 | 8,0 | 8 | 128 | 1024 | 1024 |
| | 7 | 8,0 | 8 | 128 | 1024 | 1024 |
| | 8 | 8,0 | 8 | 140 | 1120 | 1120 |
| | 9 | 8,0 | 8 | 122 | 976 | 976 |
| | 10 | 8,0 | 8 | 140 | 1120 | 1120 |
| | 11 | 8,0 | 8 | 241 | 1928 | 1928 |
| | 12 | 8,0 | 8 | 321 | 2568 | 2568 |

| RESUMO DO AÇO | | | |
|-----------------|-----------|-------------|-----------------|
| ACQ | DIAM (mm) | C TOTAL (m) | PESO + 10% (kg) |
| CASO | 6,3 | 182,4 | 31,9 |
| CASO | 8,0 | 199,8 | 47,7 |
| PESO TOTAL (kg) | | | |
| CASO | 79,6 | | |

Volume de concreto fixa 3,0N/m³ (C-30) = 1,92 m³
Área de forma = 18,36 m²

| RELAÇÃO DO AÇO | | | | | | |
|----------------|-----------|-----------|------------|-------------|--------------|--------------|
| LE1 | Negativos | | | | | |
| LE1 | N | DIAM (mm) | QUANT (cm) | C UNIT (cm) | C TOTAL (cm) | C TOTAL (cm) |
| CASO | 1 | 6,3 | 9 | 75 | 675 | 675 |
| | 2 | 6,3 | 9 | 1164 | 10176 | 10176 |
| | 3 | 6,3 | 9 | 77 | 683 | 683 |
| | 4 | 8,0 | 16 | 232 | 3712 | 3712 |
| | 5 | 8,0 | 9 | 1164 | 10176 | 10176 |
| | 6 | 8,0 | 9 | 93 | 837 | 837 |
| | 7 | 8,0 | 60 | 189 | 11340 | 11340 |
| | 8 | 12,5 | 12 | 396 | 4752 | 4752 |
| | 9 | 12,5 | 17 | 113 | 1921 | 1921 |
| | 10 | 12,5 | 8 | 160 | 1485 | 1485 |
| | 11 | 12,5 | 20 | 1164 | 23280 | 23280 |
| | 12 | 12,5 | 20 | 137 | 2290 | 2290 |

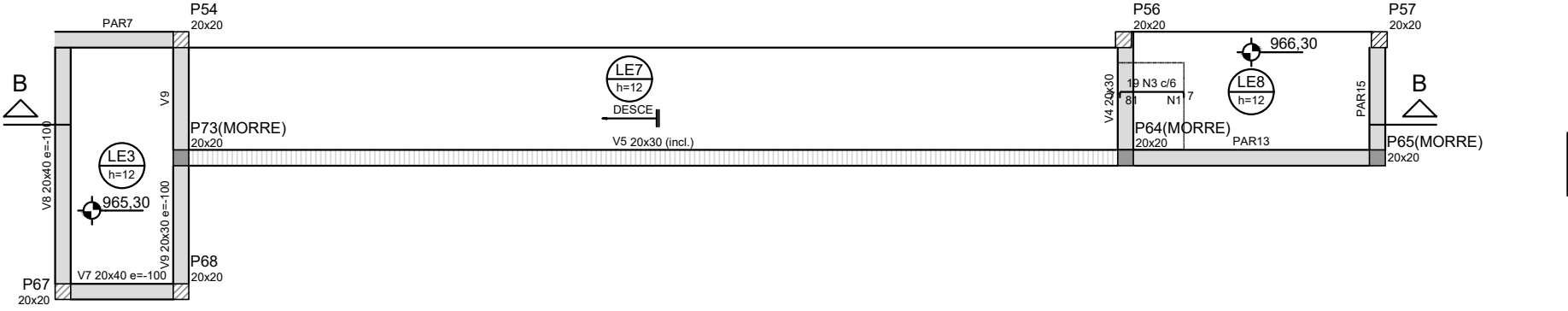
| RESUMO DO AÇO | | | |
|-----------------|-----------|-------------|-----------------|
| ACQ | DIAM (mm) | C TOTAL (m) | PESO + 10% (kg) |
| CASO | 6,3 | 118,4 | 31,9 |
| CASO | 8,0 | 234,8 | 101,8 |
| CASO | 12,5 | 47,5 | 90,4 |
| PESO TOTAL (kg) | | | |
| CASO | 194,1 | | |

Volume de concreto fixa 3,0N/m³ (C-30) = 2,13 m³
Área de forma = 17,76 m²

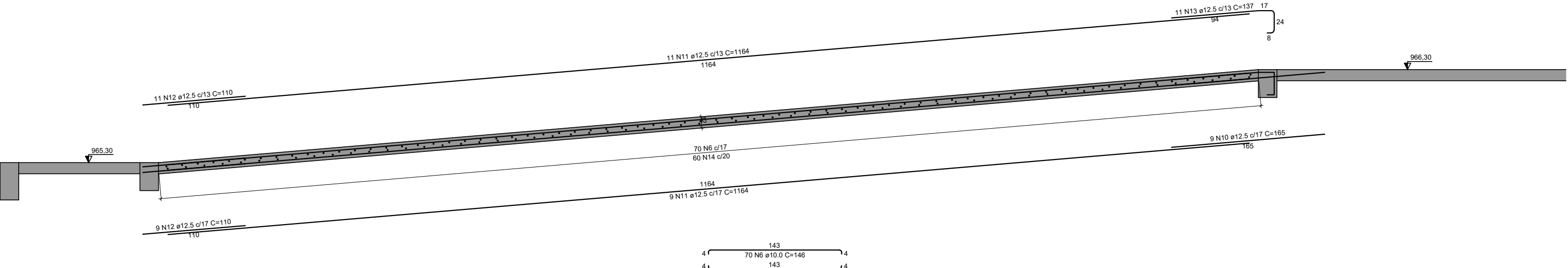
| RELAÇÃO DO AÇO | | | | | | |
|----------------|-----|-----------|------------|-------------|--------------|--------------|
| LE8 | LE7 | | | LE8 | | |
| LE8 | N | DIAM (mm) | QUANT (cm) | C UNIT (cm) | C TOTAL (cm) | C TOTAL (cm) |
| CASO | 1 | 5,0 | 5 | 110 | 550 | 550 |
| | 2 | 5,0 | 15 | 183 | 2995 | 2995 |
| | 3 | 6,3 | 19 | 92 | 1768 | 1768 |
| | 4 | 8,0 | 16 | 232 | 3712 | 3712 |
| | 5 | 8,0 | 8 | 340 | 2720 | 2720 |
| | 6 | 10,0 | 70 | 146 | 10220 | 10220 |
| | 7 | 12,5 | 17 | 138 | 2346 | 2346 |
| | 8 | 12,5 | 17 | 113 | 1921 | 1921 |
| | 9 | 12,5 | 17 | 113 | 1921 | 1921 |
| | 10 | 12,5 | 8 | 160 | 1485 | 1485 |
| | 11 | 12,5 | 20 | 1164 | 23280 | 23280 |
| | 12 | 12,5 | 20 | 137 | 2290 | 2290 |

| RESUMO DO AÇO | | | |
|-----------------|-----------|-------------|-----------------|
| ACQ | DIAM (mm) | C TOTAL (m) | PESO + 10% (kg) |
| CASO | 6,3 | 46,4 | 2,5 |
| CASO | 8,0 | 60,5 | 26,3 |
| CASO | 10,0 | 102,2 | 49,9 |
| CASO | 12,5 | 47,5 | 90,4 |
| CASO | 5,0 | 5,5 | 0,9 |
| PESO TOTAL (kg) | | | |
| CASO | 607 | | |

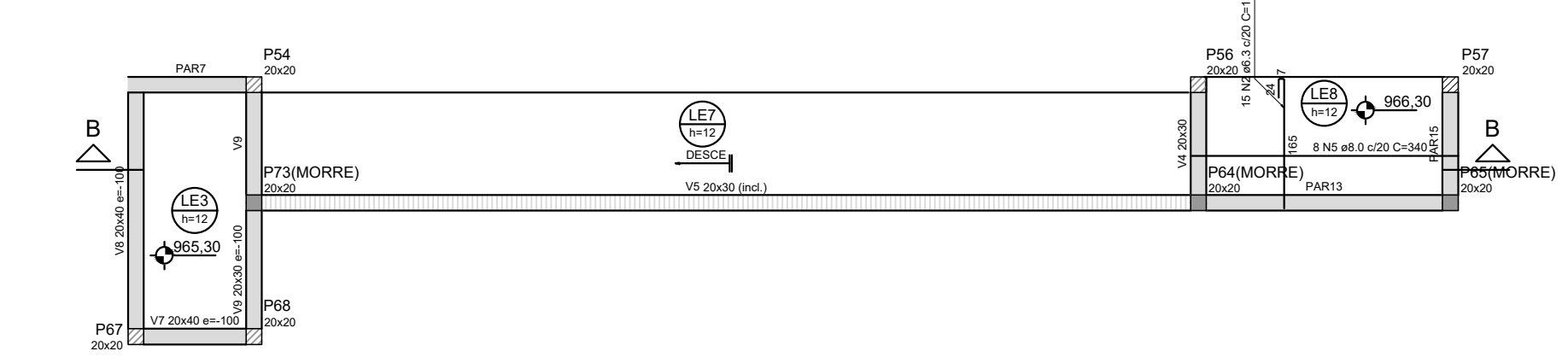
Volume de concreto fixa 3,0N/m³ (C-30) = 3,53 m³
Área de forma = 35,99 m²



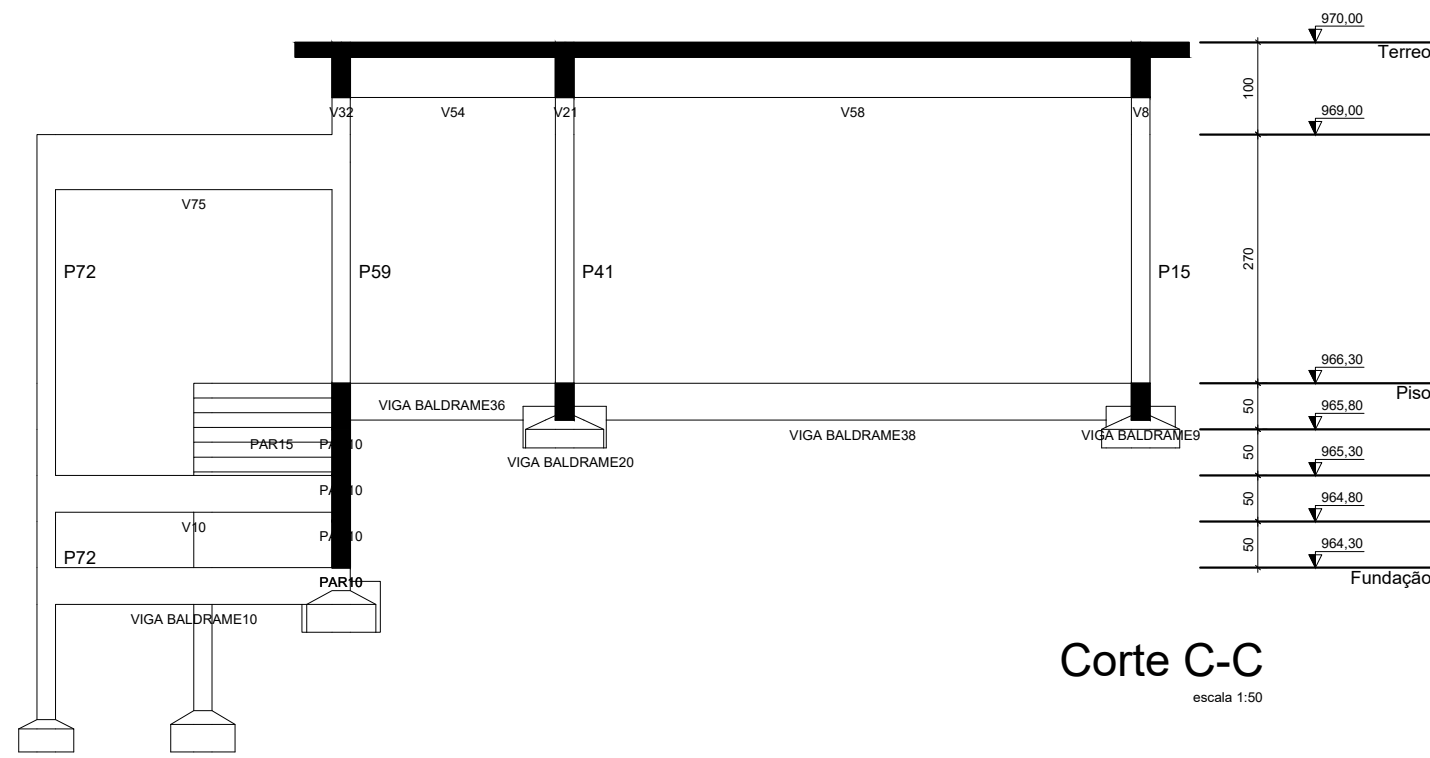
Armação negativa da escada E3



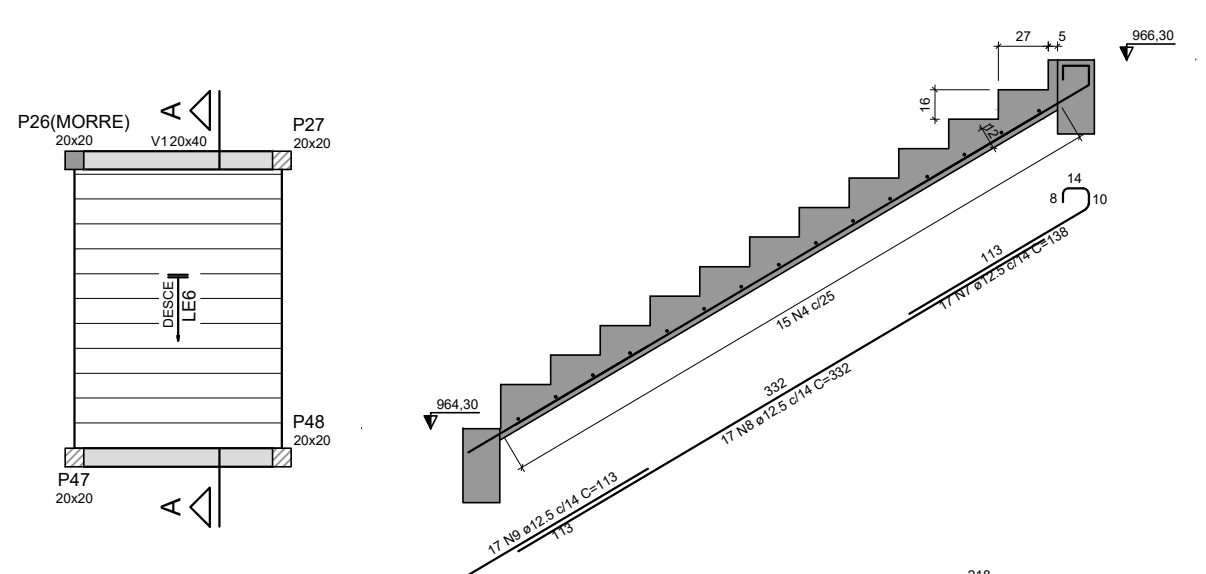
Corte B-B (LE7)



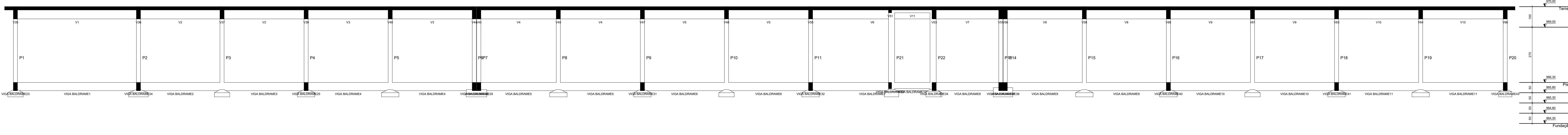
Armação positiva da escada E3



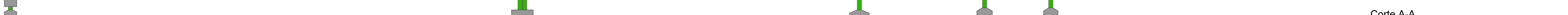
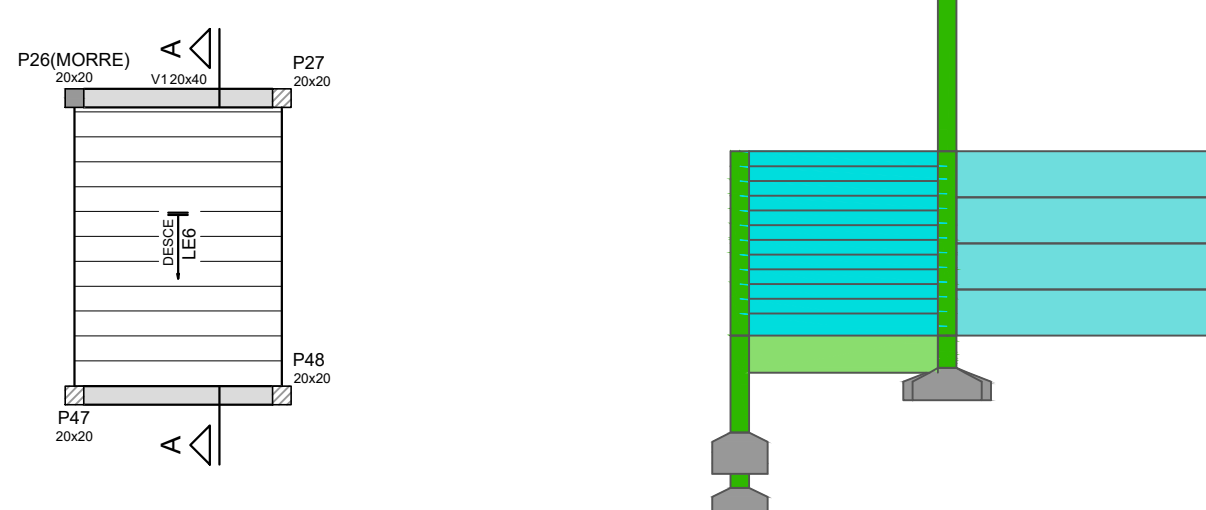
Corte C-C



Corte A-A (LE6)



Corte B-B



Corte A-A

| | | | |
|-------------------------------------|----------|-------------------------------|----------|
| 05 | 21/11/22 | REVISÃO CONFORME NOTA TÉCNICA | ATACIZIO |
| REVISÃO | DATA | DESCRIÇÃO | RESP. |
| EMPRESA | | | |
| MARKA ARQUITETURA E ENGENHARIA LTDA | | | |
| RUA PROFESSOR ABEYLARD, 279, SALA 9 | | | |
| CENTRO, SETE LAGOS/MG | | | |
| (31) 3177-4235 | | | |
| www.markaprgjetos.com.br | | | |
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| EXECUTIVO | | | |
| RESPONSÁVEL PROJETO | | | |
| JOSE ATACIZIO DA RE | | | |
| COORDENADOR PROJETO | | | |
| MARINE MARY | | | |
| PROJETISTA | | | |
| JOSE ATACIZIO DA RE | | | |
| ESCALA | | | |
| INDICADA | | | |
| DATA | | | |
| 21/11/22 | | | |
| PROJETO DE ESTRUTURAS DE CONCRETO | | | |
| ESCADA E CORTES - BLOCO 02 | | | |
| ARQUIVO | | | |
| 04-EST-BLOCO 02-BELVEDERE-808 | | | |

| |
|---------------|
| PENAS |
| RED. LIG. |
| YELLOW. LIG. |
| GREEN. LIG. |
| CYAN. LIG. |
| BLUE. LIG. |
| MAGENTA. LIG. |
| WHITE. LIG. |
| OUTROS. LIG. |