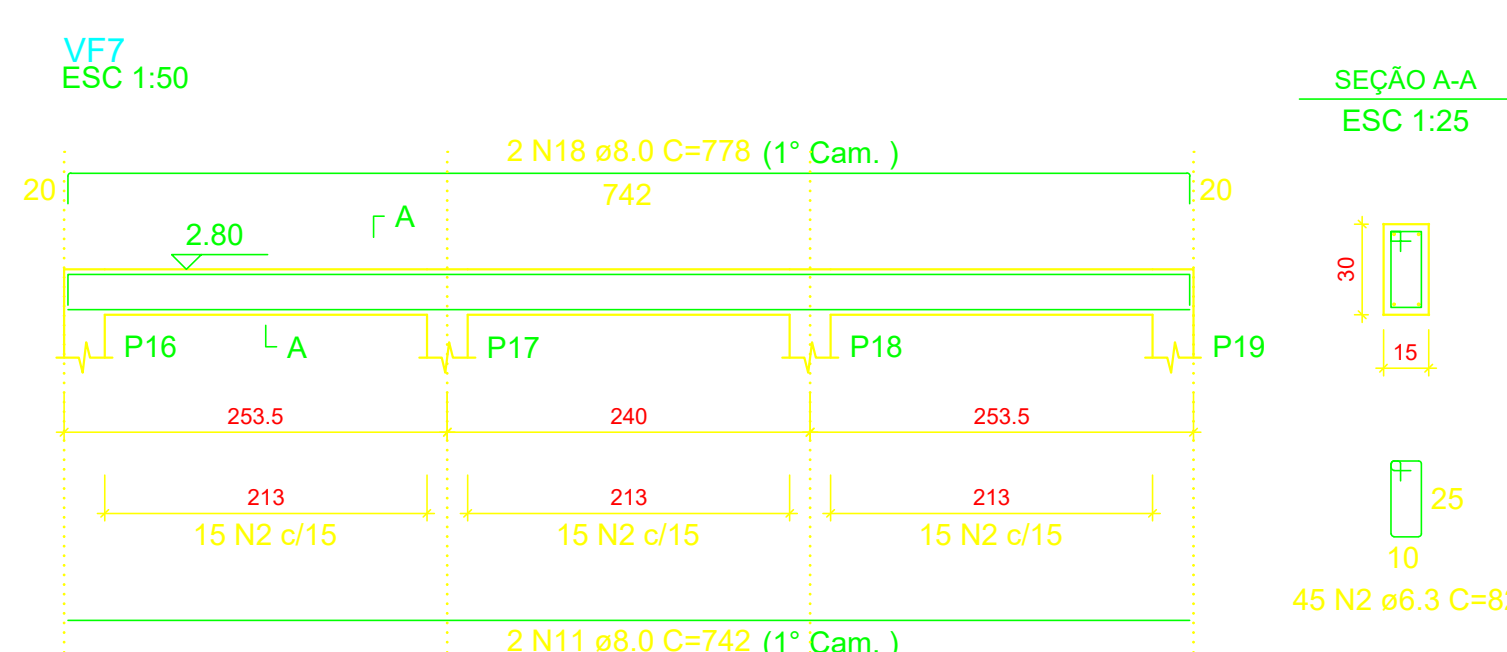
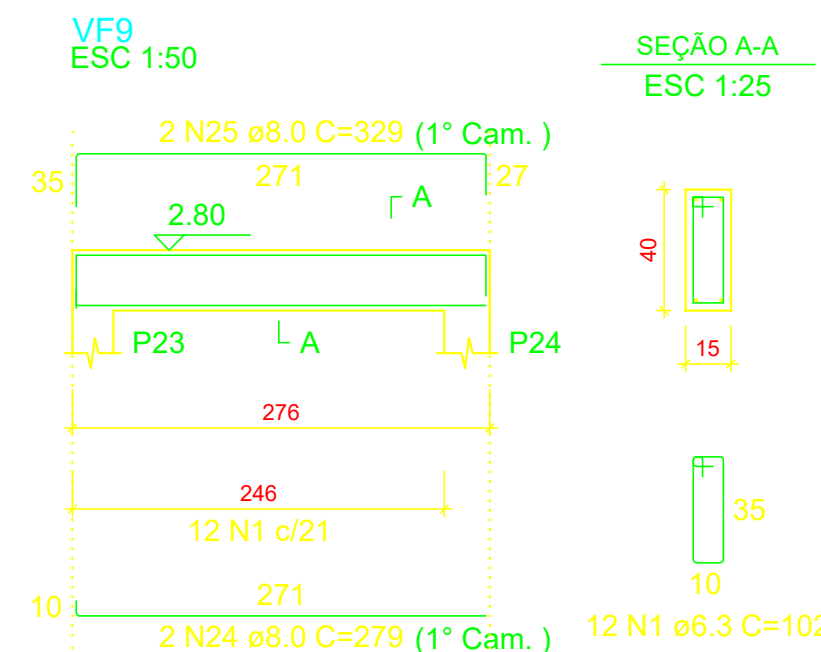
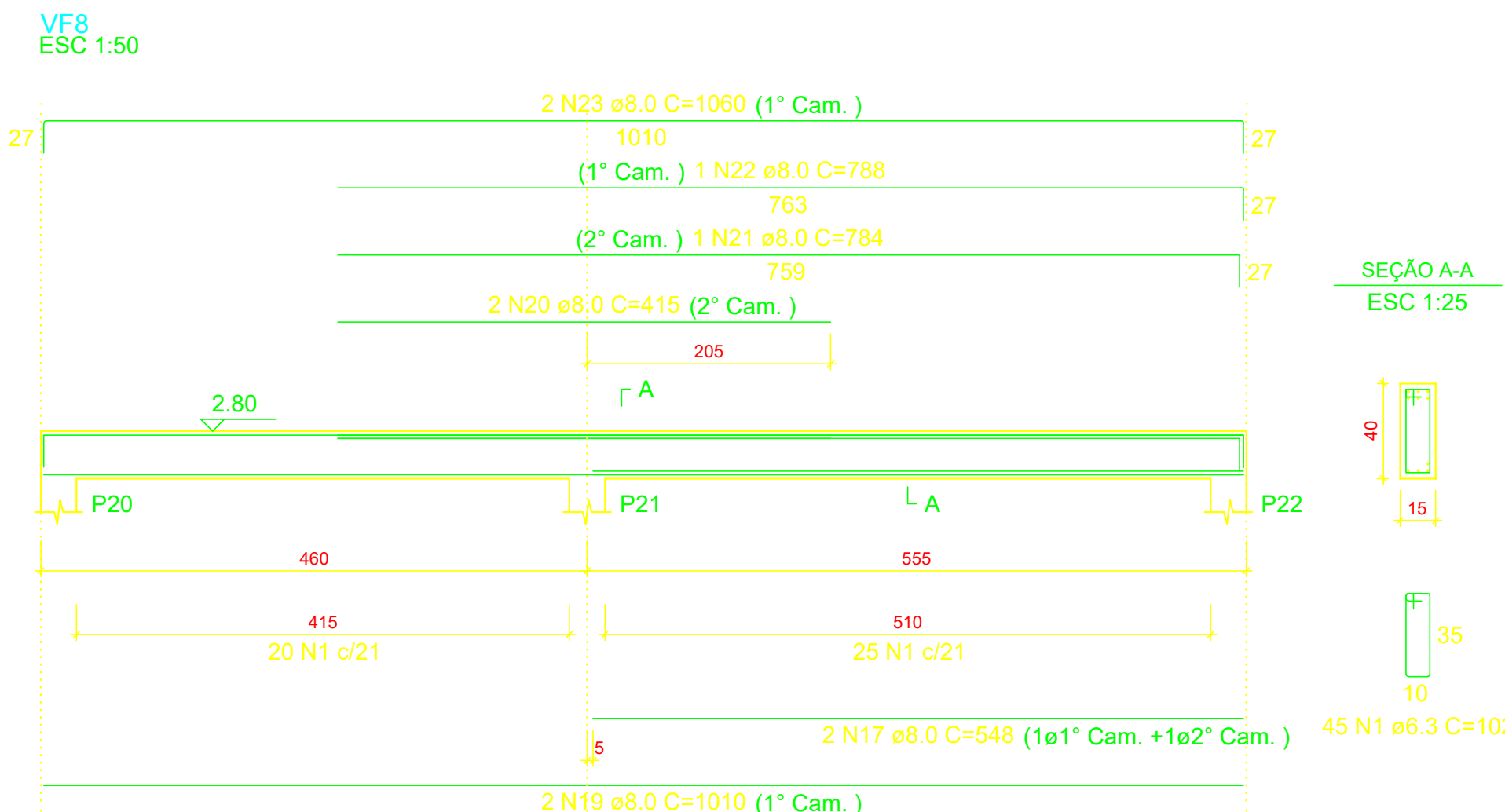
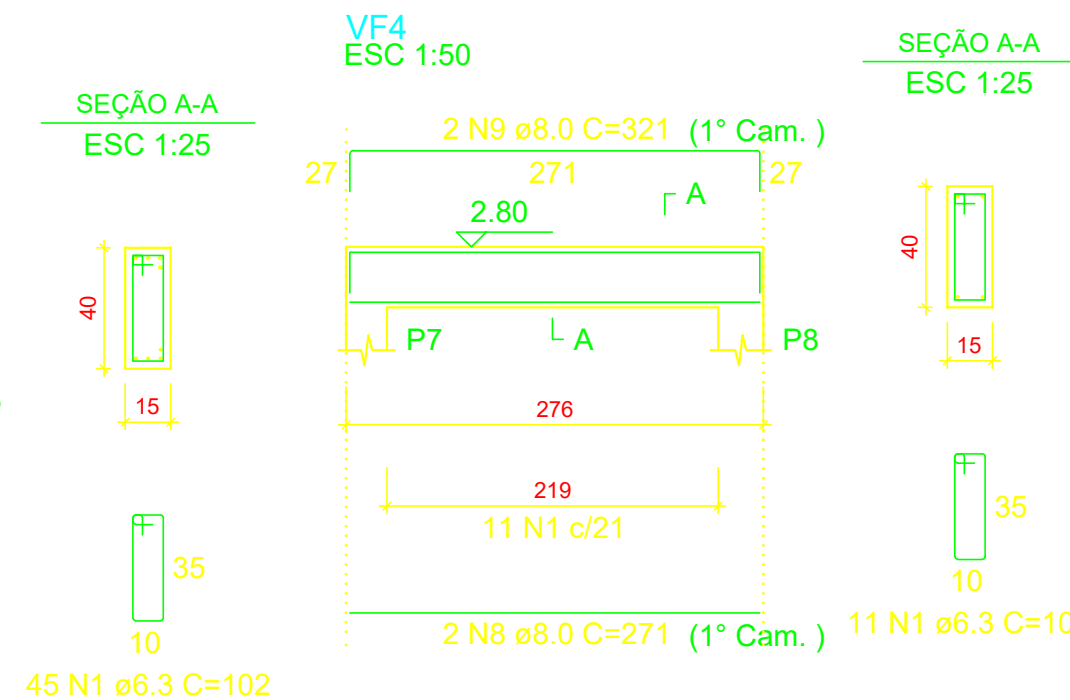
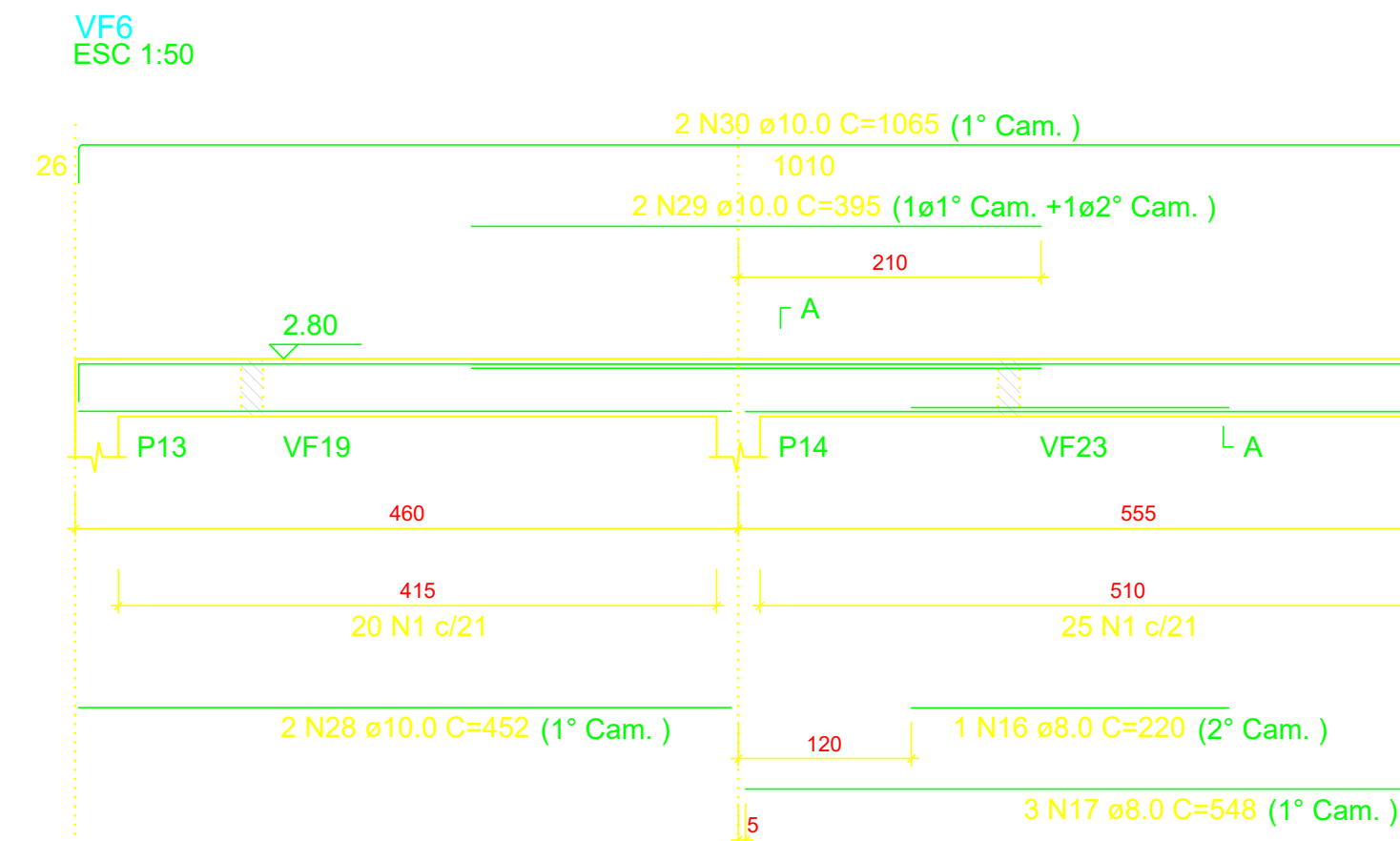
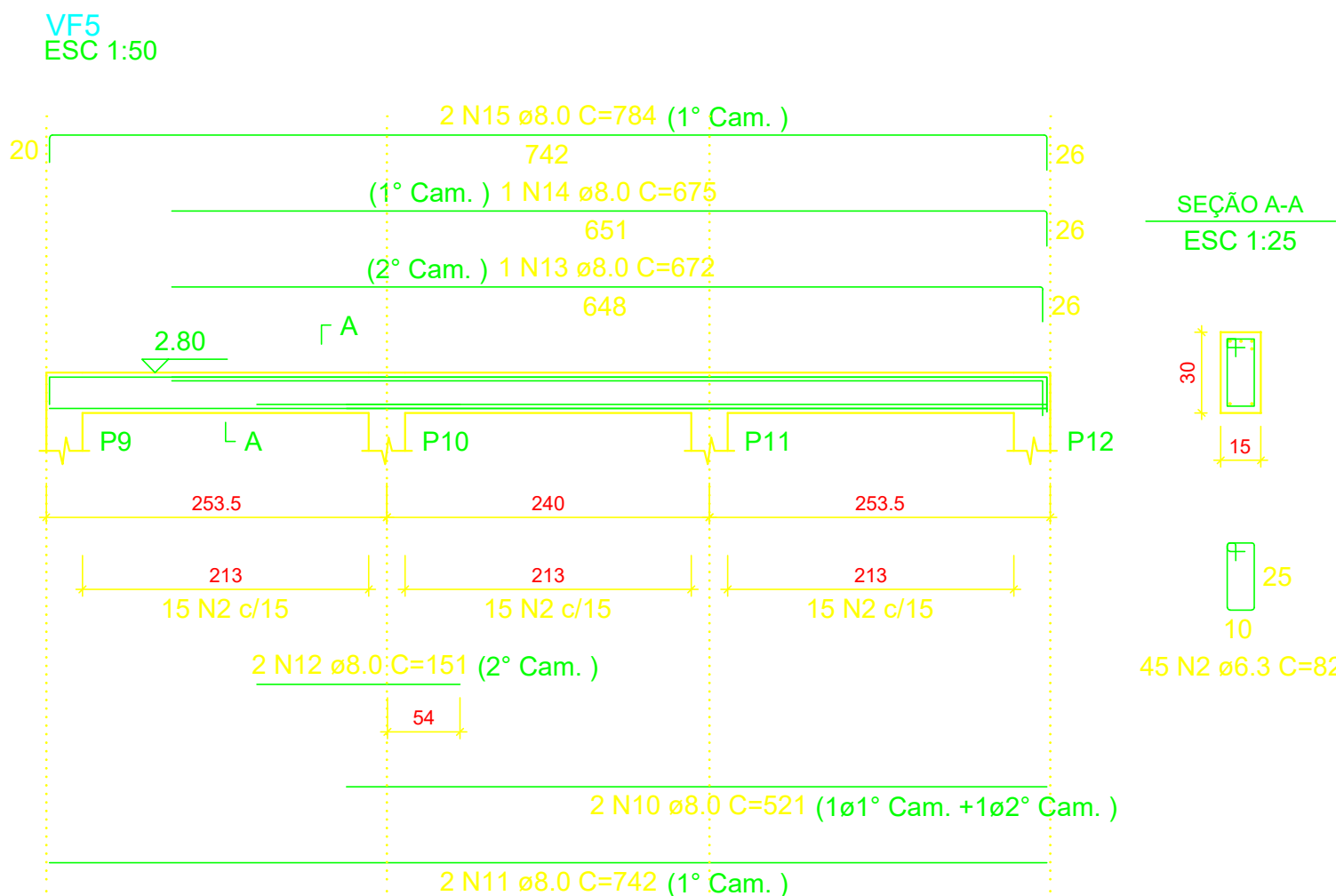
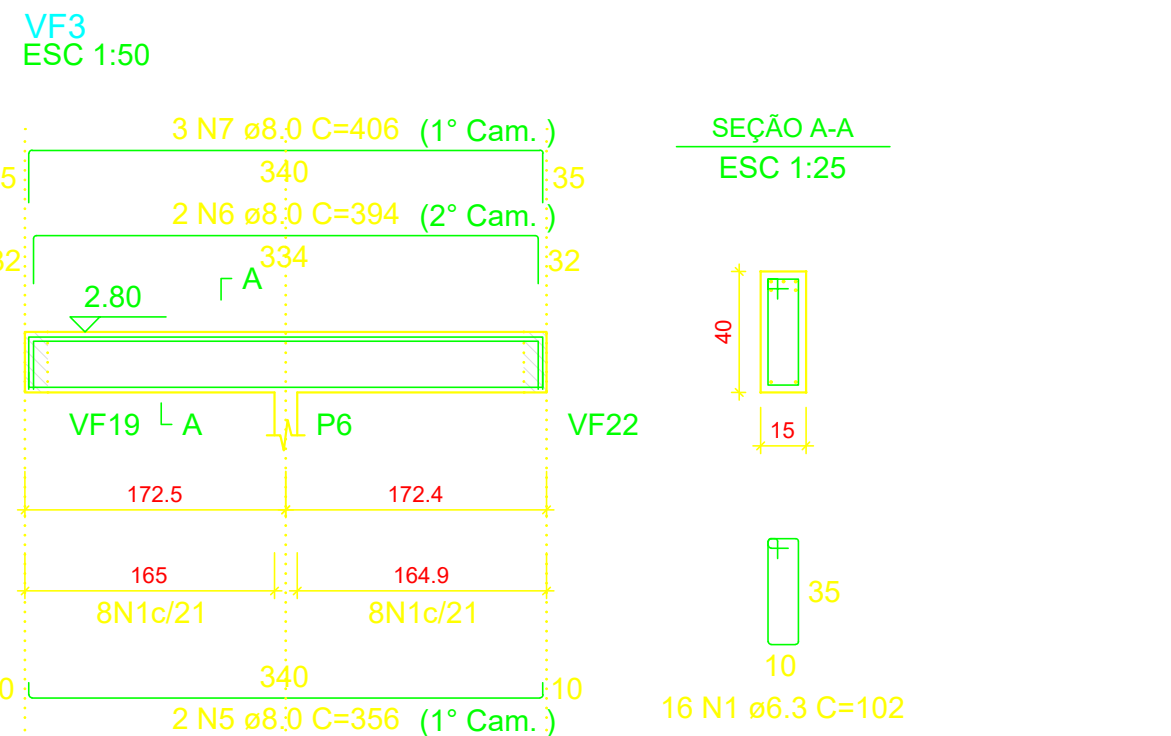
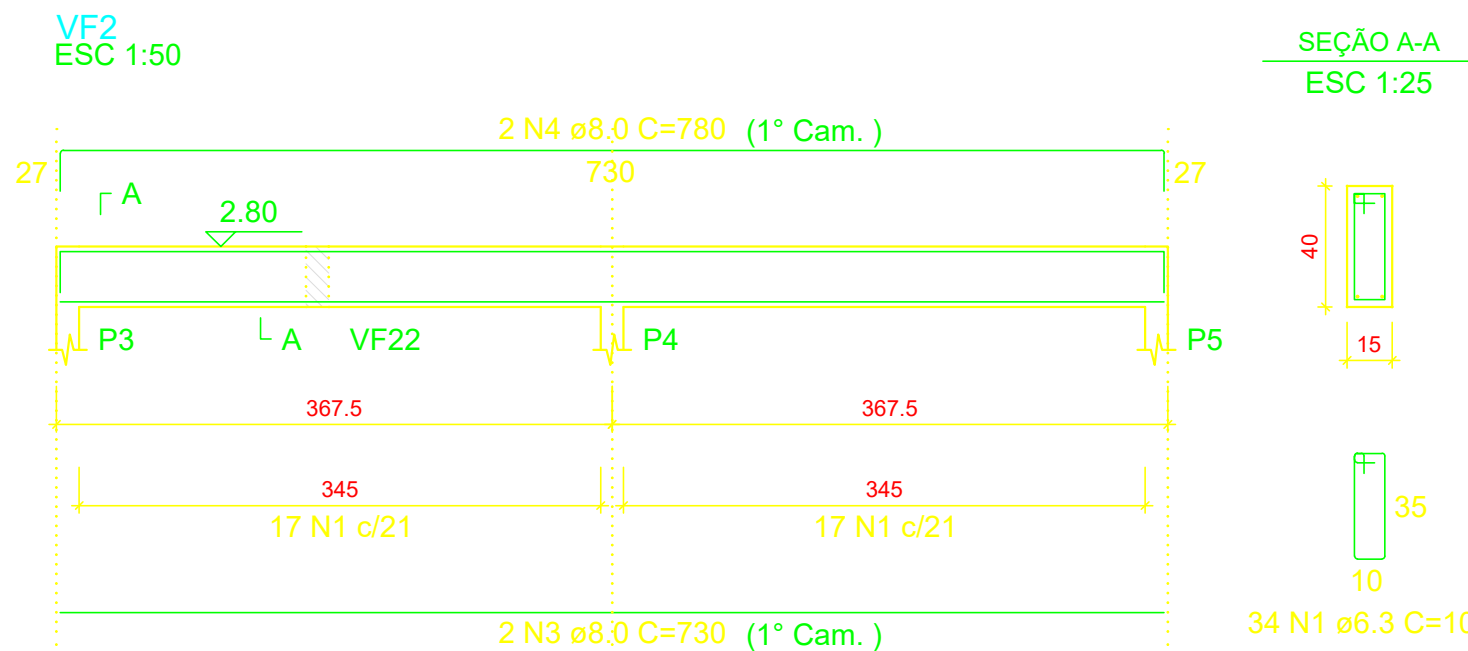
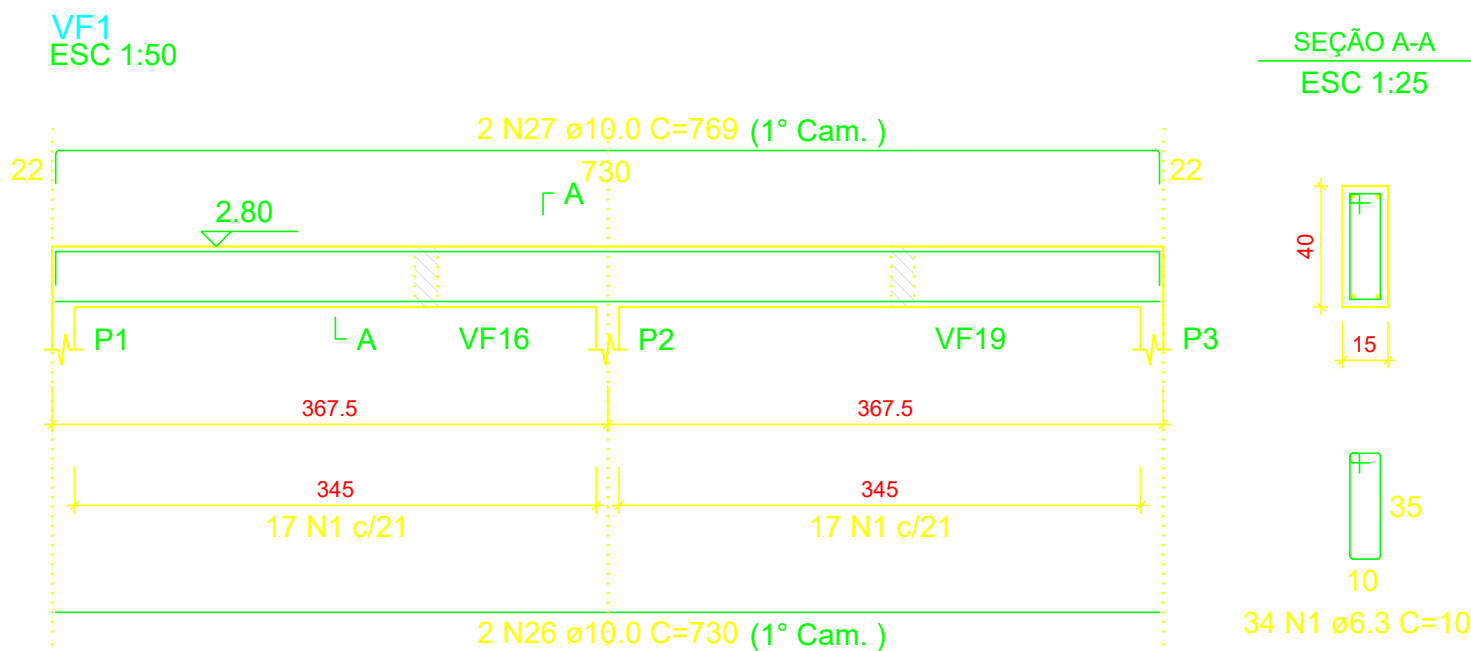




RELAÇÃO DO AÇO

| AÇO  | N  | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|------|----|-----------|-------|-------------|--------------|
| CA50 | 1  | 6.3       | 197   | 102         | 20094        |
|      | 2  | 6.3       | 90    | 82          | 7380         |
|      | 3  | 8.0       | 2     | 730         | 1460         |
|      | 4  | 8.0       | 2     | 780         | 1560         |
|      | 5  | 8.0       | 2     | 356         | 712          |
|      | 6  | 8.0       | 2     | 394         | 788          |
|      | 7  | 8.0       | 3     | 406         | 1218         |
|      | 8  | 8.0       | 2     | 271         | 542          |
|      | 9  | 8.0       | 2     | 321         | 642          |
|      | 10 | 8.0       | 2     | 521         | 1042         |
|      | 11 | 8.0       | 4     | 742         | 2968         |
|      | 12 | 8.0       | 2     | 151         | 302          |
|      | 13 | 8.0       | 1     | 672         | 672          |
|      | 14 | 8.0       | 1     | 675         | 675          |
|      | 15 | 8.0       | 2     | 784         | 1568         |
|      | 16 | 8.0       | 1     | 220         | 220          |
|      | 17 | 8.0       | 5     | 548         | 2740         |
|      | 18 | 8.0       | 2     | 778         | 1556         |
|      | 19 | 8.0       | 2     | 1010        | 2020         |
|      | 20 | 8.0       | 2     | 415         | 830          |
|      | 21 | 8.0       | 1     | 784         | 784          |
|      | 22 | 8.0       | 1     | 788         | 788          |
|      | 23 | 8.0       | 2     | 1060        | 2120         |
|      | 24 | 8.0       | 2     | 279         | 558          |
|      | 25 | 8.0       | 2     | 329         | 658          |
|      | 26 | 10.0      | 2     | 730         | 1460         |
|      | 27 | 10.0      | 2     | 789         | 1538         |
|      | 28 | 10.0      | 2     | 452         | 904          |
|      | 29 | 10.0      | 2     | 385         | 770          |
|      | 30 | 10.0      | 2     | 1065        | 2130         |

RESUMO DO AÇO

| AÇO             | DIAM (mm) | C. TOTAL (m) | QUANT + 10% (Barras) | PESO + 10% (kg) |
|-----------------|-----------|--------------|----------------------|-----------------|
| CA50            | 6.3       | 274.7        | 26                   | 74              |
|                 | 8.0       | 264.2        | 25                   | 114.7           |
|                 | 10.0      | 68.2         | 7                    | 46.3            |
| PESO TOTAL (kg) |           |              |                      |                 |
| CA50            |           | 234.9        |                      |                 |

Volume de concreto (C-25) = 3,31 m³  
Área de forma = 52.98 m²

|                                                                                                     |         |                                            |  |
|-----------------------------------------------------------------------------------------------------|---------|--------------------------------------------|--|
| PROJETO                                                                                             |         | RESPONSÁVEL TÉCNICO                        |  |
|                                                                                                     |         | Eng. Mano Marques Ribeiro CREA: MG 48900/D |  |
| CLIENTE                                                                                             |         |                                            |  |
|                |         |                                            |  |
| EMPREENDIMENTO                                                                                      |         |                                            |  |
| IMPLANTAÇÃO DA ESCOLA NOVA                                                                          |         |                                            |  |
| ENDEREÇO                                                                                            |         | DISCIPLINA                                 |  |
| RUA 06, S/N - B. Luiz Rennó Mendes.<br>SANTA RITA DO SAPUCAÍ - MINAS GERAIS                         |         | ESTRUTURAL                                 |  |
| ASSUNTO                                                                                             |         | FASE DO PROJETO                            |  |
| ED. ADMINISTRATIVO<br>DETALHAMENTO DA ARMAÇÃO DAS VIGAS RESPALDO<br>PLANTA BAIXA, CORTES E DETALHES |         | EXECUTIVO                                  |  |
| DATA INICIAL                                                                                        |         | FOLHA Nº                                   |  |
| 17/10/2019                                                                                          |         | 23                                         |  |
| ESCALA                                                                                              | REVISÃO | ARQUIVO                                    |  |
| INDICADA                                                                                            | R00     | FAPEPE-FMSRS-ESC-PE-EST-R00 - NVV.DWG      |  |