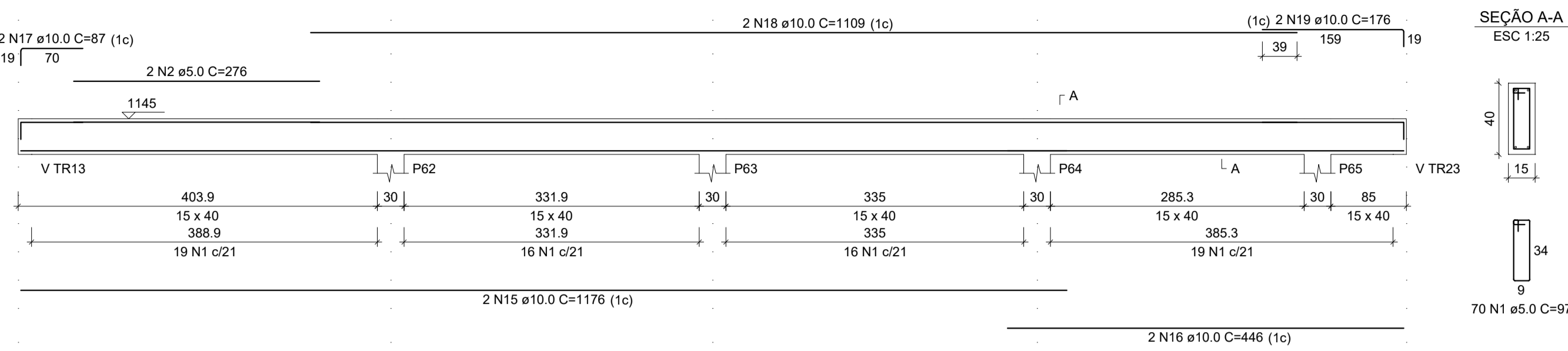
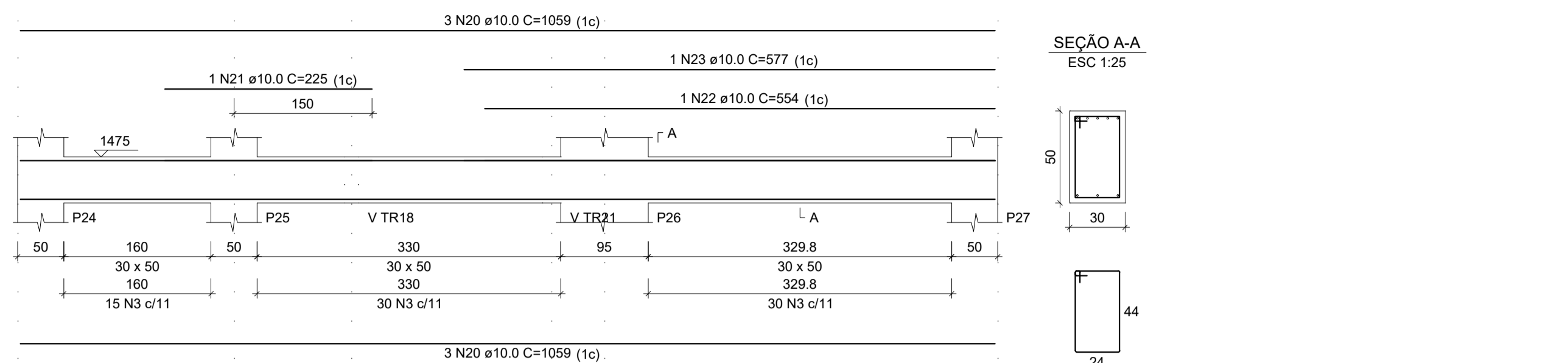


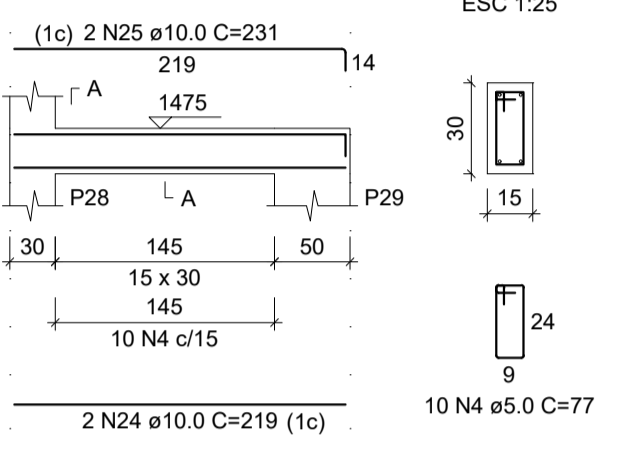
### V TR1



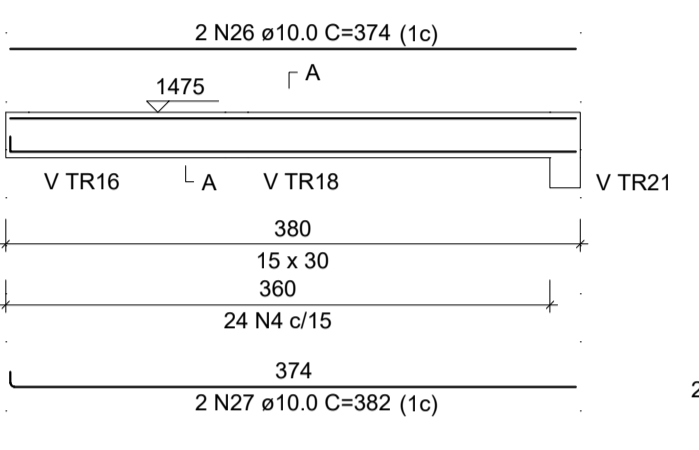
### V TR2



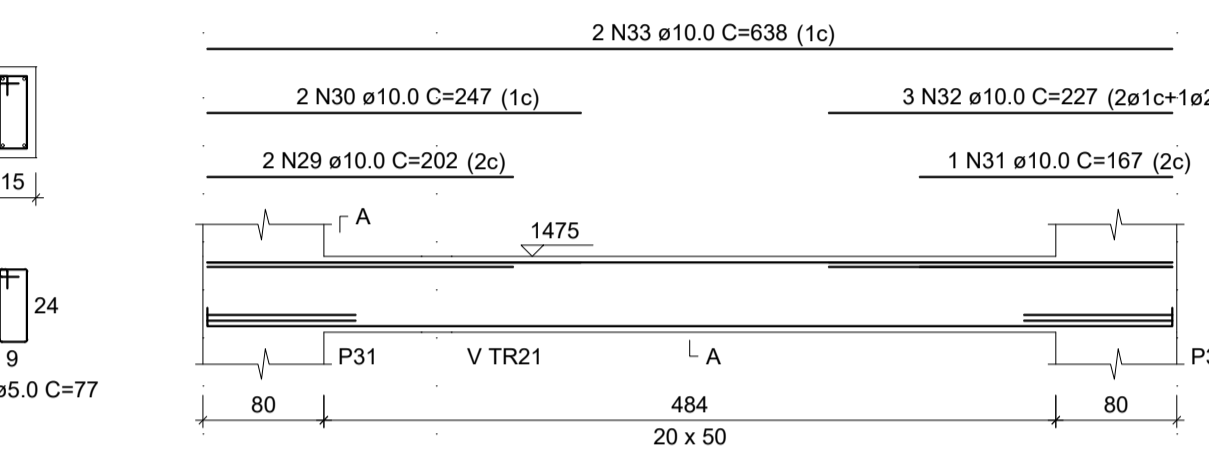
### V TR3



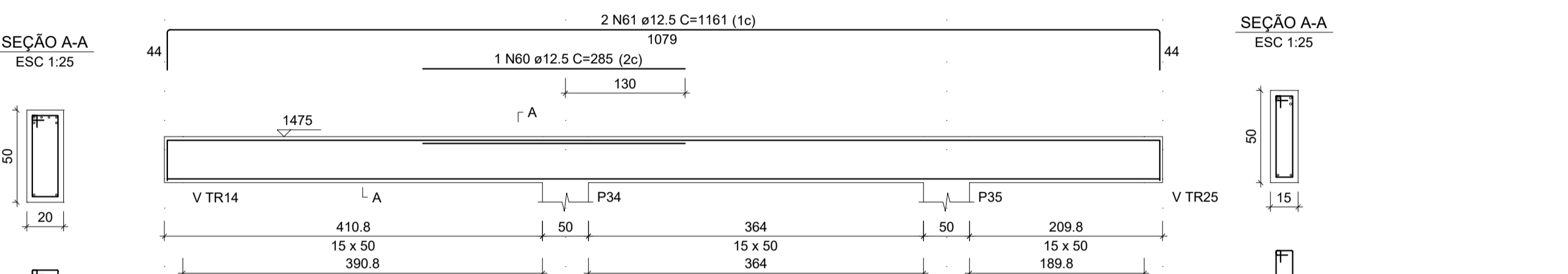
### V TR4



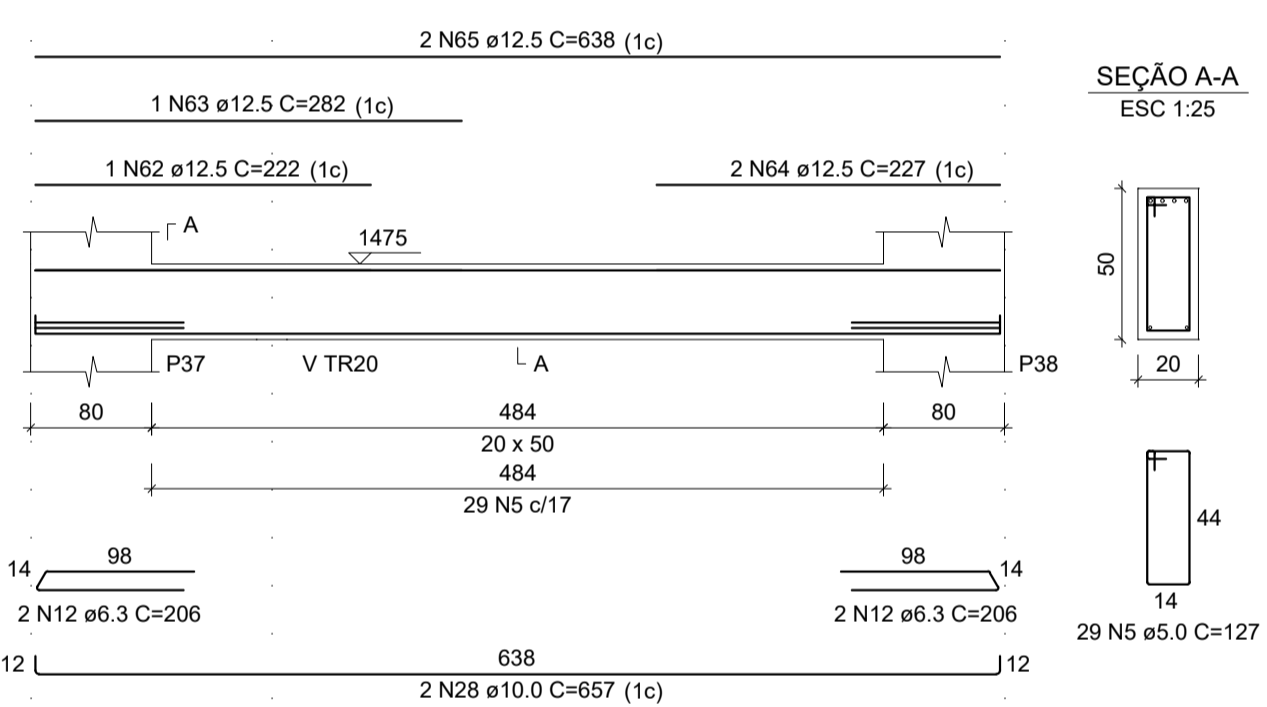
### V TR5



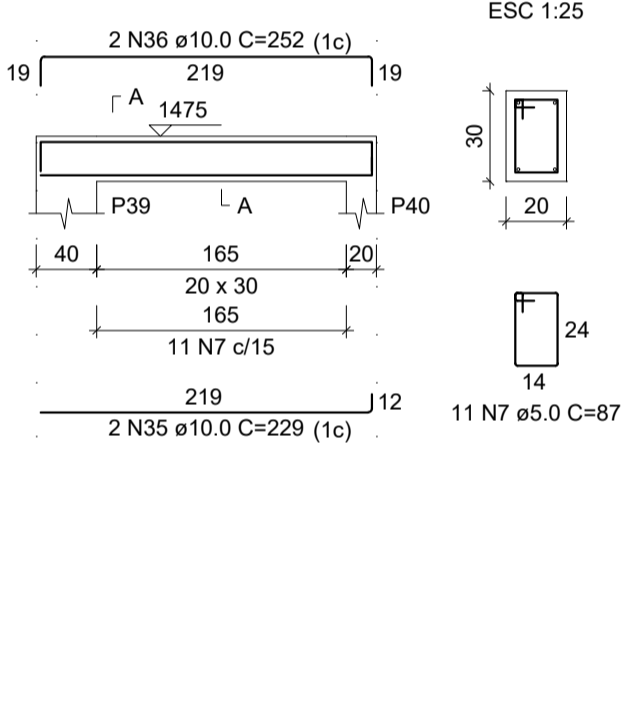
### V TR6



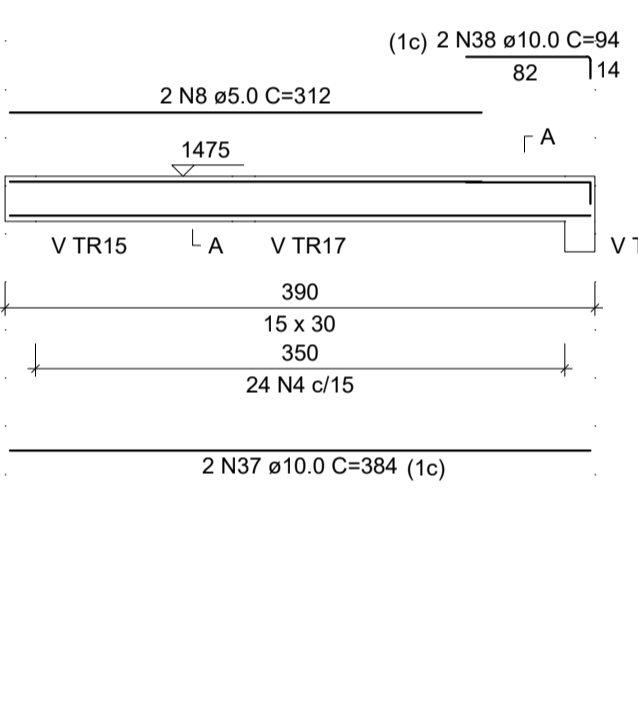
### V TR7



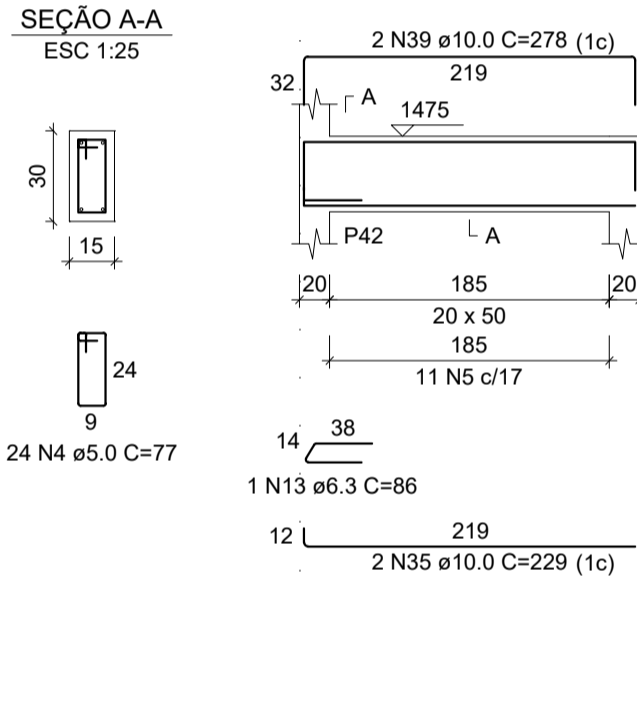
### V TR8



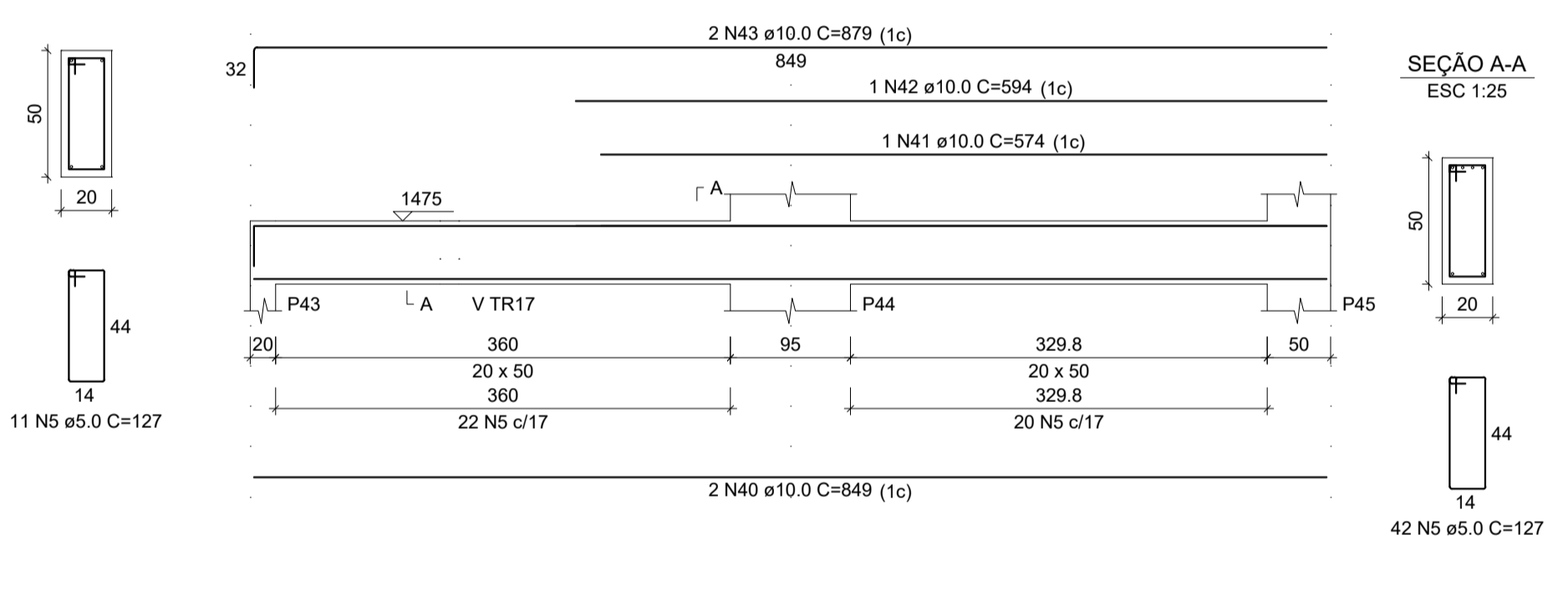
### V TR9



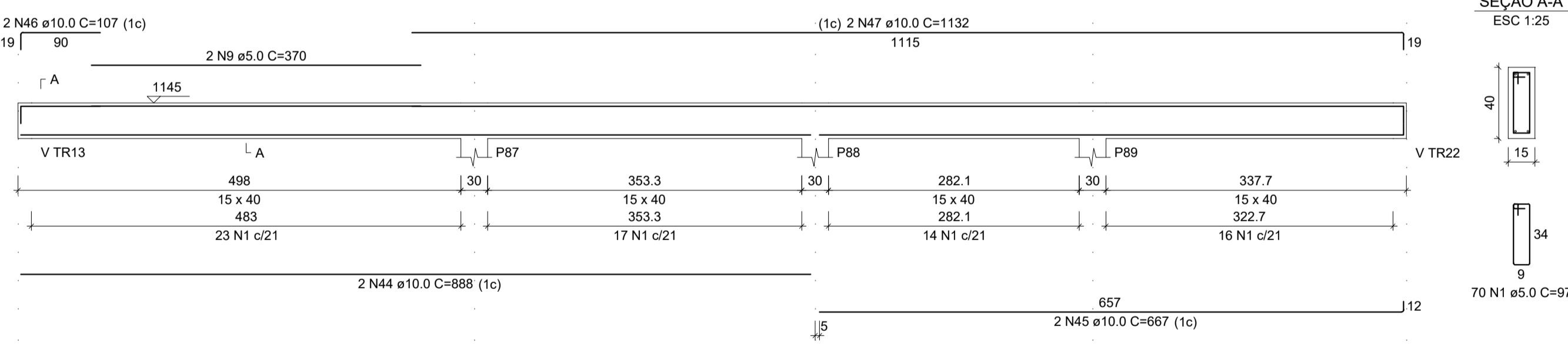
### V TR10



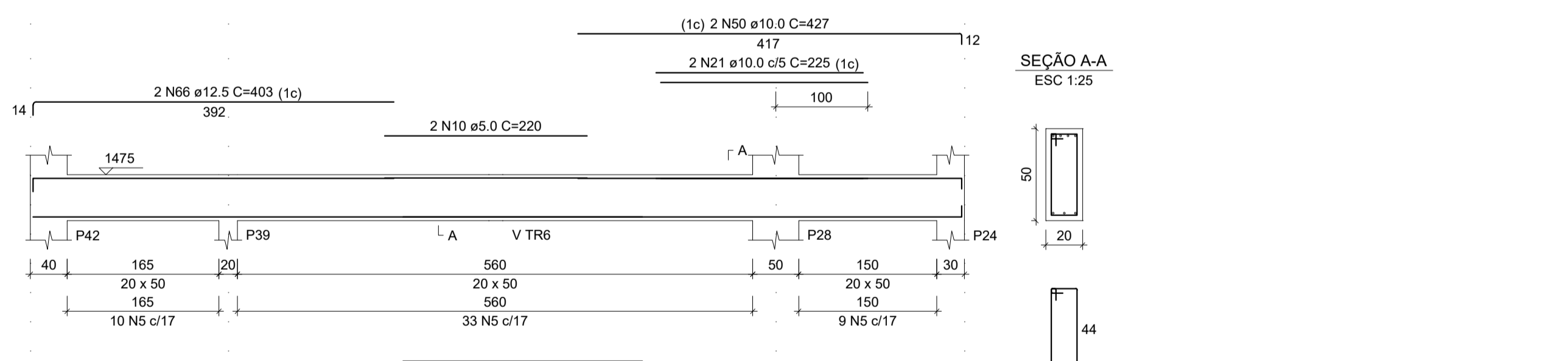
### V TR11



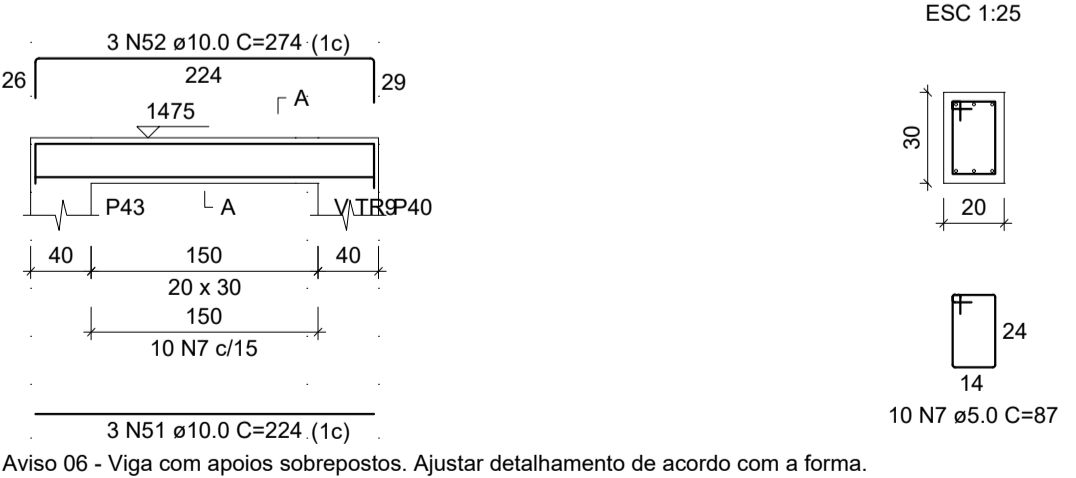
### V TR12



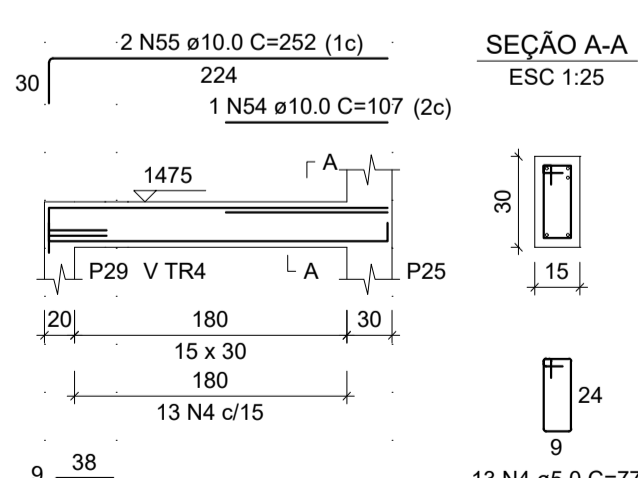
### V TR14



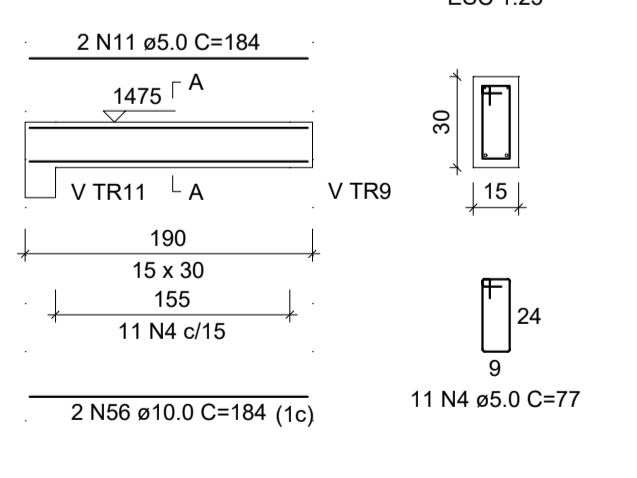
### V TR15



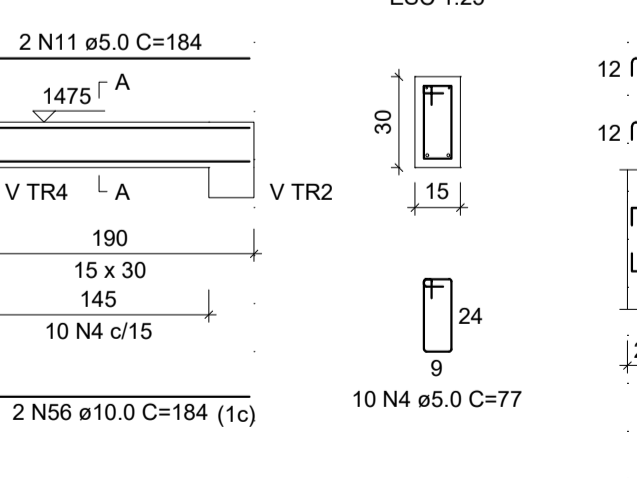
### V TR16



### V TR17



### V TR18



### V TR19



RELAÇÃO DO AÇO

| AÇO  | N  | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|------|----|-----------|-------|-------------|--------------|
| CA60 | 1  | 5.0       | 140   | 97          | 13580        |
|      | 2  | 5.0       | 2     | 276         | 552          |
|      | 3  | 5.0       | 75    | 147         | 11025        |
|      | 4  | 5.0       | 92    | 77          | 7084         |
|      | 5  | 5.0       | 183   | 127         | 23241        |
|      | 6  | 5.0       | 42    | 117         | 4914         |
|      | 7  | 5.0       | 21    | 87          | 1827         |
|      | 8  | 5.0       | 2     | 312         | 624          |
|      | 9  | 5.0       | 2     | 370         | 740          |
|      | 10 | 5.0       | 2     | 220         | 440          |
|      | 11 | 5.0       | 4     | 184         | 736          |
|      | 12 | 6.3       | 8     | 206         | 1648         |
|      | 13 | 6.3       | 1     | 86          | 86           |
|      | 14 | 6.3       | 1     | 81          | 81           |
|      | 15 | 10.0      | 2     | 1176        | 2352         |
|      | 16 | 10.0      | 2     | 446         | 892          |
|      | 17 | 10.0      | 2     | 87          | 174          |
|      | 18 | 10.0      | 2     | 1109        | 2218         |
|      | 19 | 10.0      | 2     | 176         | 352          |
|      | 20 | 10.0      | 6     | 1059        | 6354         |
|      | 21 | 10.0      | 3     | 225         | 675          |
|      | 22 | 10.0      | 1     | 554         | 554          |
|      | 23 | 10.0      | 1     | 577         | 577          |
|      | 24 | 10.0      | 2     | 219         | 438          |
|      | 25 | 10.0      | 2     | 231         | 462          |
|      | 26 | 10.0      | 2     | 374         | 748          |
|      | 27 | 10.0      | 2     | 382         | 764          |
|      | 28 | 10.0      | 2     | 657         | 2628         |
|      | 29 | 10.0      | 2     | 202         | 404          |
|      | 30 | 10.0      | 2     | 247         | 494          |
|      | 31 | 10.0      | 2     | 167         | 334          |
|      | 32 | 10.0      | 3     | 227         | 681          |
|      | 33 | 10.0      | 2     | 638         | 1276         |
|      | 34 | 10.0      | 2     | 1079        | 2158         |
|      | 35 | 10.0      | 3     | 229         | 687          |
|      | 36 | 10.0      | 2     | 252         | 504          |
|      | 37 | 10.0      | 2     | 384         | 768          |
|      | 38 | 10.0      | 2     | 94          | 188          |
|      | 39 | 10.0      | 2     | 278         | 556          |
|      | 40 | 10.0      | 2     | 849         | 1698         |
|      | 41 | 10.0      | 1     | 574         | 574          |
|      | 42 | 10.0      | 1     | 594         | 594          |
|      | 43 | 10.0      | 2     | 879         | 1758         |
|      | 44 | 10.0      | 2     | 888         | 1776         |
|      | 45 | 10.0      | 2     | 667         | 1334         |
|      | 46 | 10.0      | 2     | 107         | 214          |
|      | 47 | 10.0      | 2     | 1132        | 2264         |
|      | 48 | 10.0      | 1     | 260         | 260          |
|      | 49 | 10.0      | 2     | 1019        | 2038         |
|      | 50 | 10.0      | 2     | 427         | 854          |
|      | 51 | 10.0      | 3     | 224         | 672          |
|      | 52 | 10.0      | 3     | 274         | 822          |
|      | 53 | 10.0      | 2     | 243         | 486          |
|      | 54 | 10.0      | 1     | 107         | 107          |
|      | 55 | 10.0      | 2     | 252         | 504          |
|      | 56 | 10.0      | 4     | 184         | 736          |
|      | 57 | 10.0      | 3     | 389         | 1167         |
|      | 58 | 10.0      | 2     | 155         | 310          |
|      | 59 | 10.0      | 2     | 418         | 836          |
|      | 60 | 12.5      | 1     | 285         | 285          |
|      | 61 | 12.5      | 2     | 1161        | 2322         |
|      | 62 | 12.5      | 1     | 222         | 222          |
|      | 63 | 12.5      | 1     | 282         | 282          |
|      | 64 | 12.5      | 2     | 227         | 454          |
|      | 65 | 12.5      | 2     | 638         | 1276         |
|      | 66 | 12.5      | 2     | 403         | 806          |

RESUMO DO AÇO

| AÇO                    | DIAM (mm) | C.TOTAL (m) | PESO + 10% (kg) |
|------------------------|-----------|-------------|-----------------|
| CA50                   | 6.3       | 19          | 5.1             |
|                        | 10.0      | 463         | 314             |
|                        | 12.5      | 56.5        | 59.8            |
|                        | 5.0       | 647.6       | 109.8           |
| <b>PESO TOTAL (kg)</b> |           |             |                 |
| CA50                   |           |             | 379             |
| CA60                   |           |             | 109.8           |

Volume de concreto (C-30) = 7.50 m³  
Área de forma = 87.26 m²

**CONSTRUTORA STONE** CONSTRUTORA STONE Tudo pelo gol do cliente!

OPERAÇÃO: 05/04/06/30001-11

|               |  |                                   |   |                   |             |
|---------------|--|-----------------------------------|---|-------------------|-------------|
| OBRA:         | NÚCLEO INFANTIL CANTINHO DO CÉU  | ÁREA EXISTENTE:                   | 0,00 m²   | ÁREA A CONSTRUIR: | 1.199,17 m² |
| LOCAL:        | BOM JESUS DO AMPARO - MG   | EQUIPE TÉCNICA:                   | CLAUDIONOR RODRIGUES<br>CREA-MG 347/119         |                   |             |
| PROPRIETÁRIO: | PREFEITURA MUNICIPAL DE BOM JESUS DO AMPARO-MG<br>CNPJ: 18.317.693/0001-06 | RESP. TÉCNICO - ENGENHEIRO CIVIL: | CLAUDIONOR RODRIGUES<br>(STONE) CREA-MG 347/119 |                   |             |
| CONTEÚDO:     | VIGAS TERRAÇO  | PROJETO:                          | PROJETO ESTRUTURAL                              |                   |             |
| ESCALA:       | INDICADA   | DESENHISTA:                       | STONE   | DATA:             | FEV/2023    |
|               |  | FOLHA:                            | 59/ 66  |                   |             |

DIREITOS AUTORAIS RESERVADOS. PROIBIDA A REPRODUÇÃO TOTAL OU PARCIAL.