

Relação do aço

V26 V28 V29  
 V30 V31 V32  
 V33 V34 V35  
 V36 V37

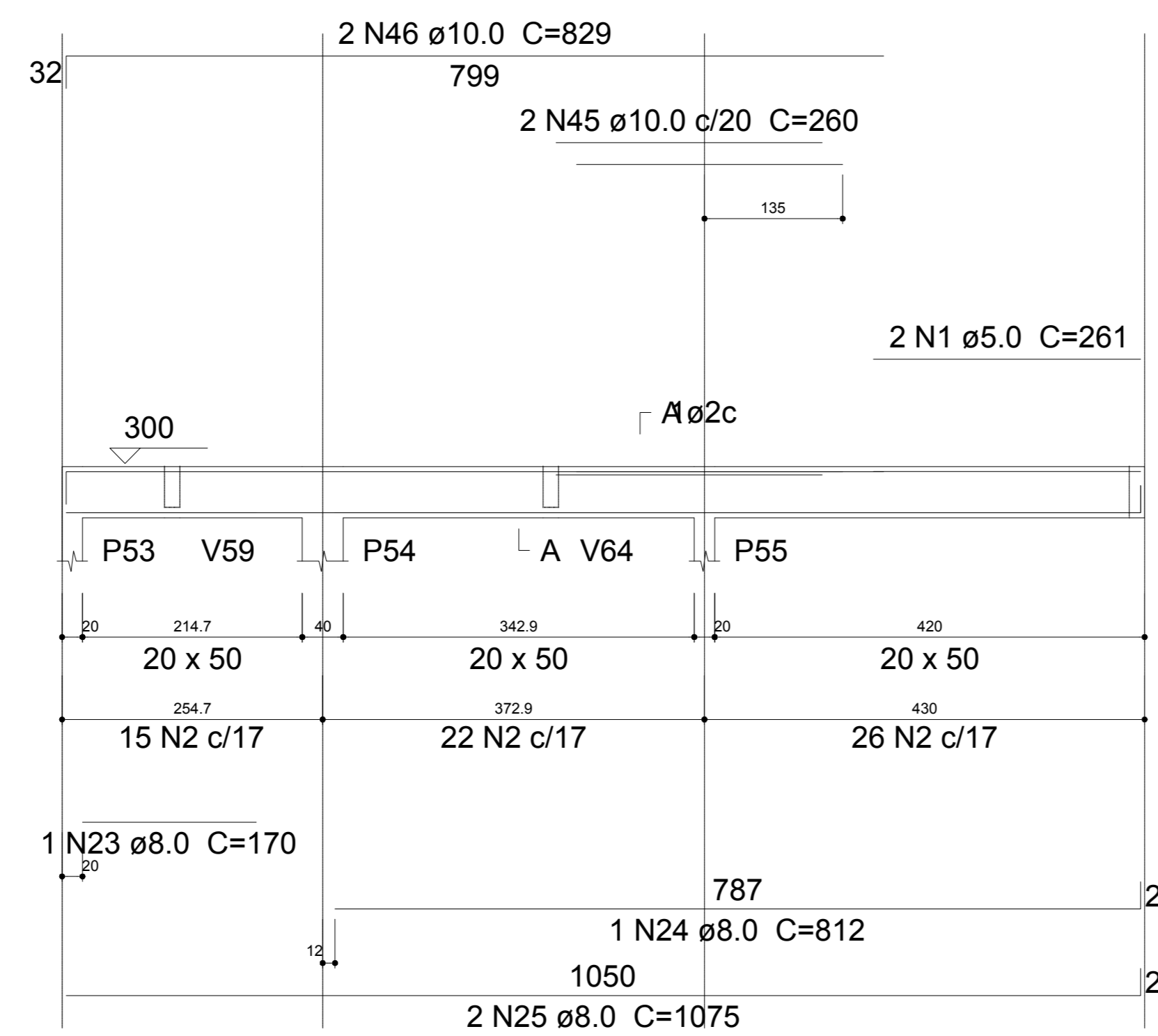
| AÇO  | N  | DIAM (mm) | QUANT (Barras) | UNIT (cm) | C.TOTAL (cm) |
|------|----|-----------|----------------|-----------|--------------|
| CA60 | 1  | 5.0       | 2              | 261       | 522          |
|      | 2  | 5.0       | 151            | 120       | 18120        |
|      | 3  | 5.0       | 2              | 376       | 752          |
|      | 4  | 5.0       | 55             | 110       | 6050         |
|      | 5  | 5.0       | 2              | 395       | 790          |
|      | 6  | 5.0       | 43             | 90        | 3870         |
|      | 7  | 5.0       | 2              | 293       | 586          |
|      | 8  | 5.0       | 2              | 256       | 512          |
|      | 9  | 5.0       | 58             | 100       | 5800         |
|      | 10 | 5.0       | 2              | 530       | 1060         |
|      | 11 | 5.0       | 2              | 237       | 474          |
|      | 12 | 5.0       | 26             | 160       | 4160         |
|      | 13 | 5.0       | 2              | 281       | 562          |
|      | 14 | 5.0       | 2              | 288       | 576          |
|      | 15 | 5.0       | 2              | 307       | 614          |
| CA50 | 16 | 6.3       | 10             | 68        | 680          |
|      | 17 | 6.3       | 2              | 66        | 132          |
|      | 18 | 6.3       | 3              | 76        | 228          |
|      | 19 | 6.3       | 12             | CORR      | 6360         |
|      | 20 | 6.3       | 12             | CORR      | 6684         |
|      | 21 | 6.3       | 12             | CORR      | 3288         |
|      | 22 | 6.3       | 175            | 160       | 28000        |
|      | 23 | 8.0       | 1              | 170       | 170          |
|      | 24 | 8.0       | 1              | 812       | 812          |
|      | 25 | 8.0       | 2              | 1075      | 2150         |
|      | 26 | 8.0       | 1              | 386       | 386          |
|      | 27 | 8.0       | 2              | 487       | 974          |
|      | 28 | 8.0       | 3              | 139       | 417          |
|      | 29 | 8.0       | 3              | 411       | 1233         |
|      | 30 | 8.0       | 6              | 72        | 432          |
|      | 31 | 8.0       | 1              | 124       | 124          |
|      | 32 | 8.0       | 1              | 148       | 148          |
|      | 33 | 8.0       | 2              | 458       | 916          |
|      | 34 | 8.0       | 3              | 508       | 1524         |
|      | 35 | 8.0       | 3              | 1050      | 3150         |
|      | 36 | 8.0       | 2              | 200       | 400          |
|      | 37 | 8.0       | 3              | 265       | 795          |
|      | 38 | 8.0       | 1              | 803       | 803          |
|      | 39 | 8.0       | 2              | 823       | 1646         |
|      | 40 | 8.0       | 3              | 340       | 1020         |
|      | 41 | 8.0       | 18             | 79        | 1422         |
|      | 42 | 8.0       | 3              | 753       | 2259         |
|      | 43 | 8.0       | 3              | 100       | 300          |
|      | 44 | 8.0       | 3              | 410       | 1230         |
|      | 45 | 10.0      | 2              | 260       | 520          |
|      | 46 | 10.0      | 2              | 829       | 1658         |
|      | 47 | 10.0      | 2              | 400       | 800          |
|      | 48 | 10.0      | 2              | 549       | 1098         |
|      | 49 | 10.0      | 3              | 283       | 849          |
|      | 50 | 10.0      | 3              | 505       | 1515         |
|      | 51 | 10.0      | 2              | 1029      | 2058         |
|      | 52 | 10.0      | 2              | 139       | 278          |
|      | 53 | 10.0      | 2              | 248       | 496          |
|      | 54 | 10.0      | 1              | 101       | 101          |
|      | 55 | 10.0      | 1              | 206       | 206          |
|      | 56 | 10.0      | 1              | 132       | 132          |
|      | 57 | 10.0      | 1              | 172       | 172          |
|      | 58 | 10.0      | 2              | 235       | 470          |
|      | 59 | 10.0      | 1              | 290       | 290          |
|      | 60 | 10.0      | 2              | 250       | 500          |
|      | 61 | 10.0      | 1              | 455       | 455          |
|      | 62 | 10.0      | 3              | 1198      | 3594         |
|      | 63 | 10.0      | 3              | 224       | 672          |

Resumo do aço

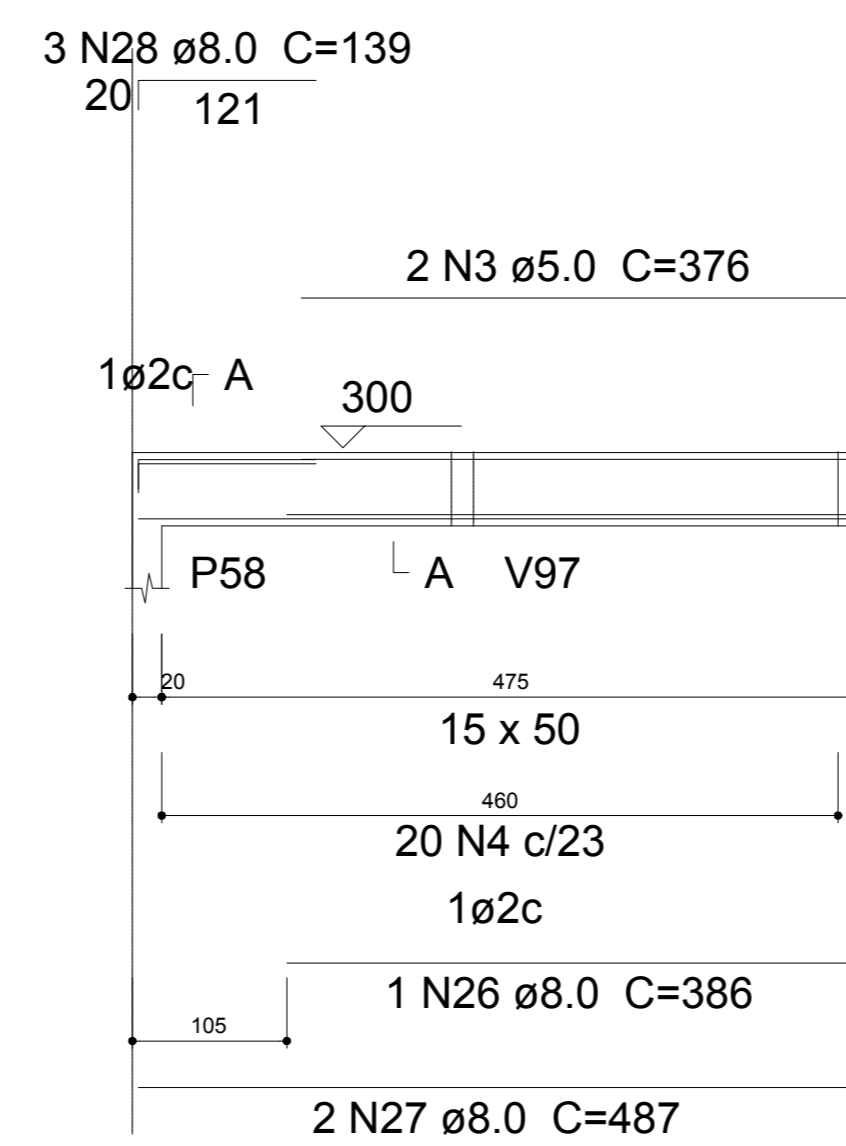
| AÇO                    | DIAM (mm) | C.TOTAL (m) | PESO + 10 % (kg) |
|------------------------|-----------|-------------|------------------|
| CA50                   | 6.3       | 453.8       | 122.1            |
|                        | 8.0       | 223.2       | 96.8             |
|                        | 10.0      | 158.7       | 107.6            |
| CA60                   | 5.0       | 444.5       | 75.4             |
| <b>PESO TOTAL (kg)</b> |           |             |                  |
| CA50                   |           | 326.6       |                  |
| CA60                   |           | 75.4        |                  |

Volume de concreto (C-35) = 7.3 m³  
 Área de forma = 84.95 m²

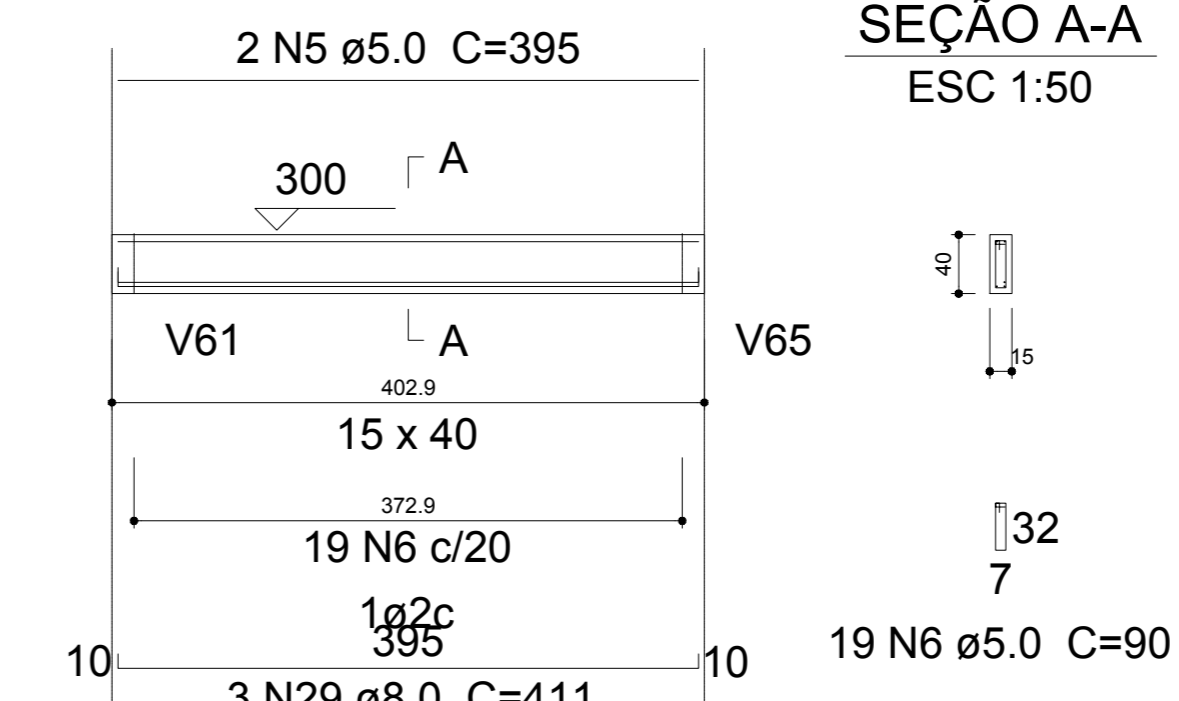
V26  
ESC 1:50



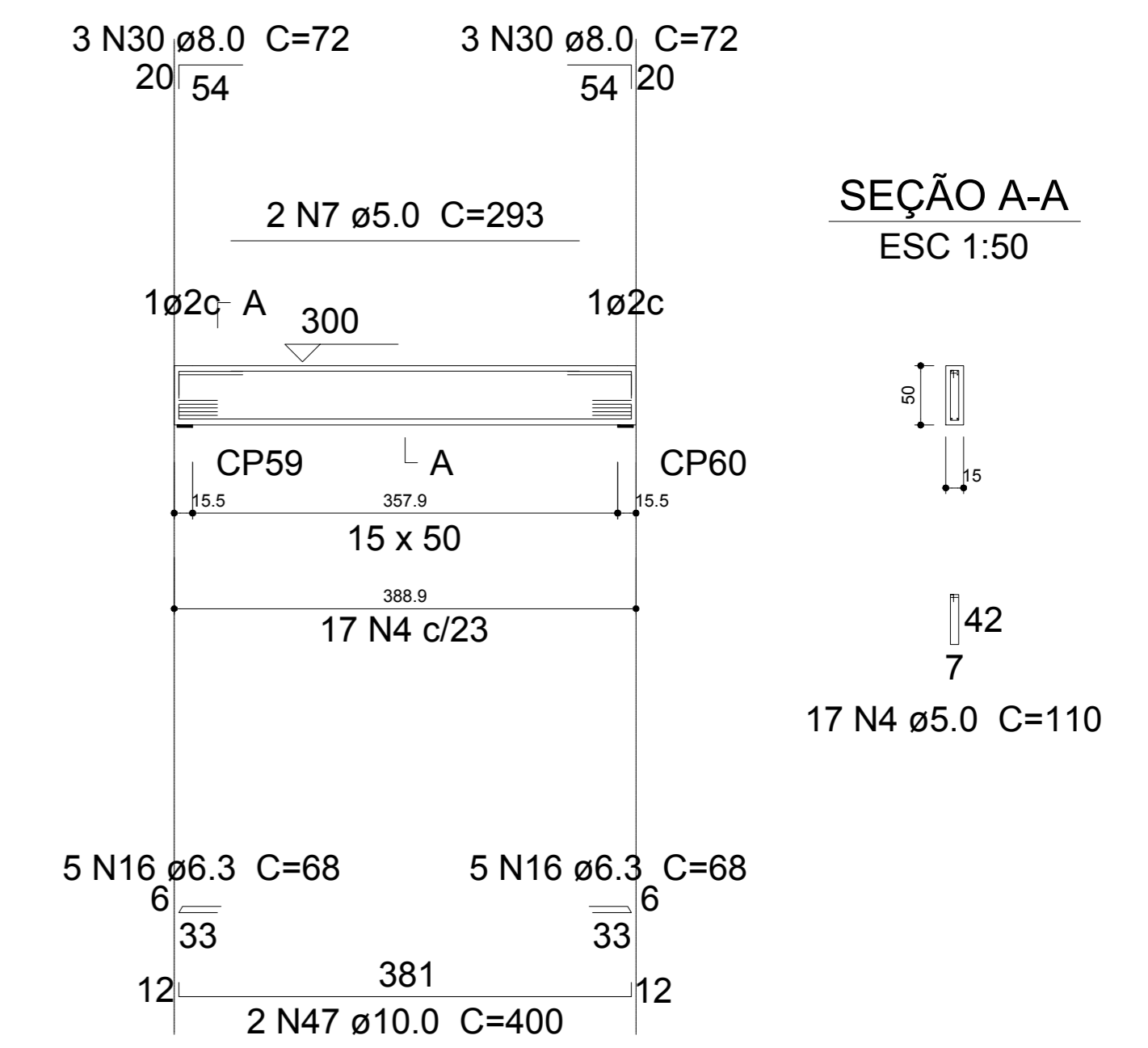
V28  
ESC 1:50



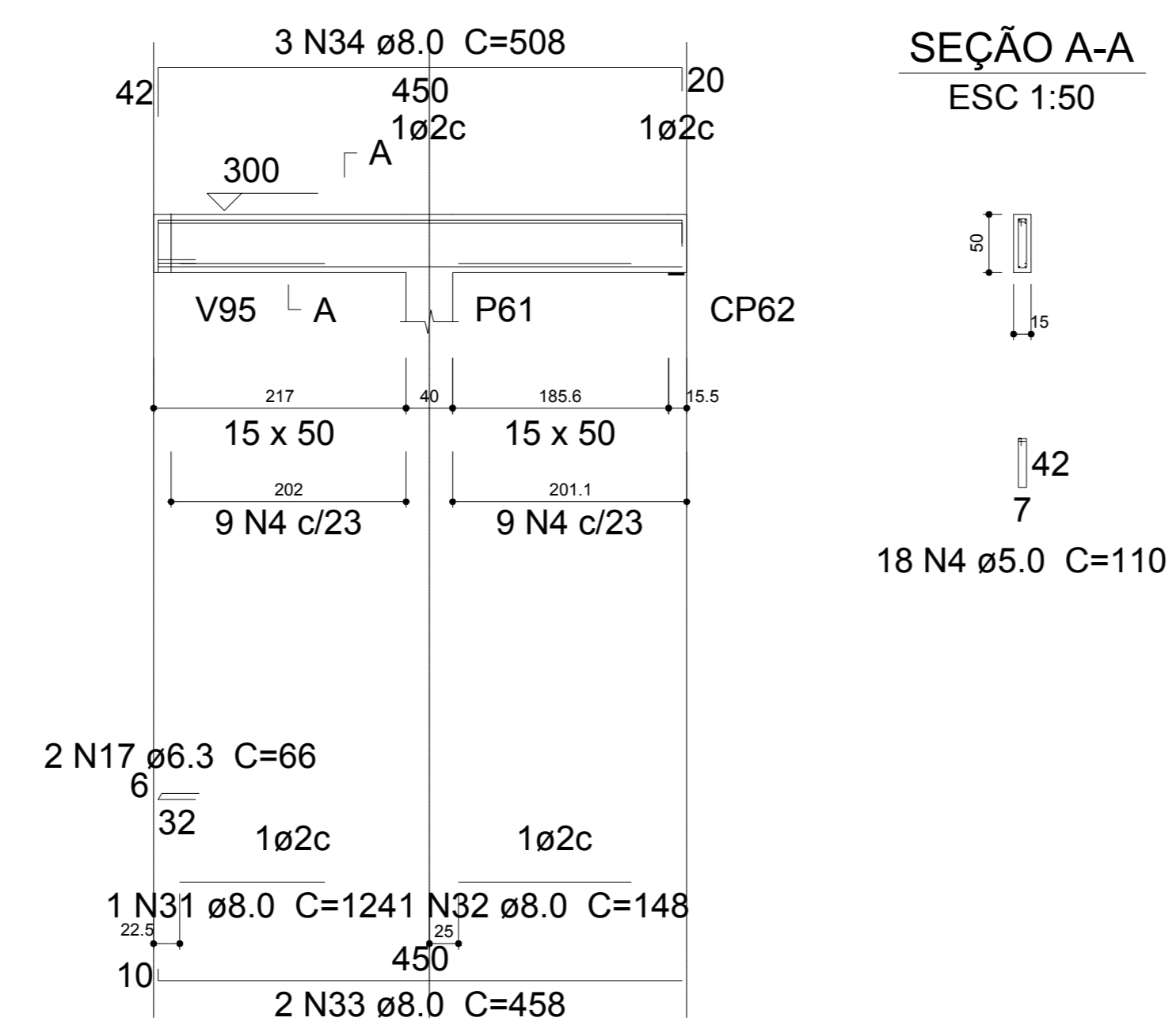
V29  
ESC 1:50



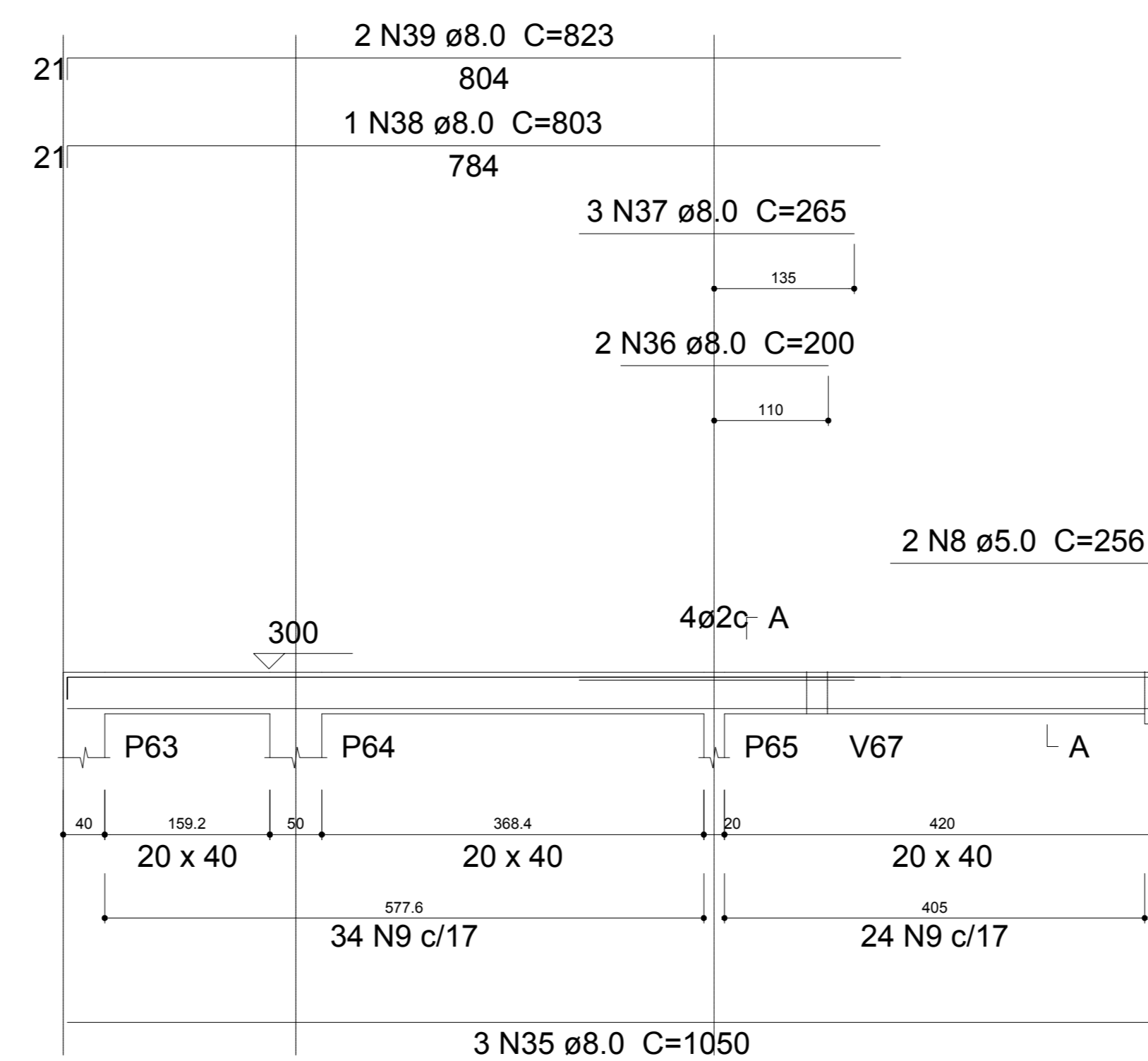
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ESC 1:50



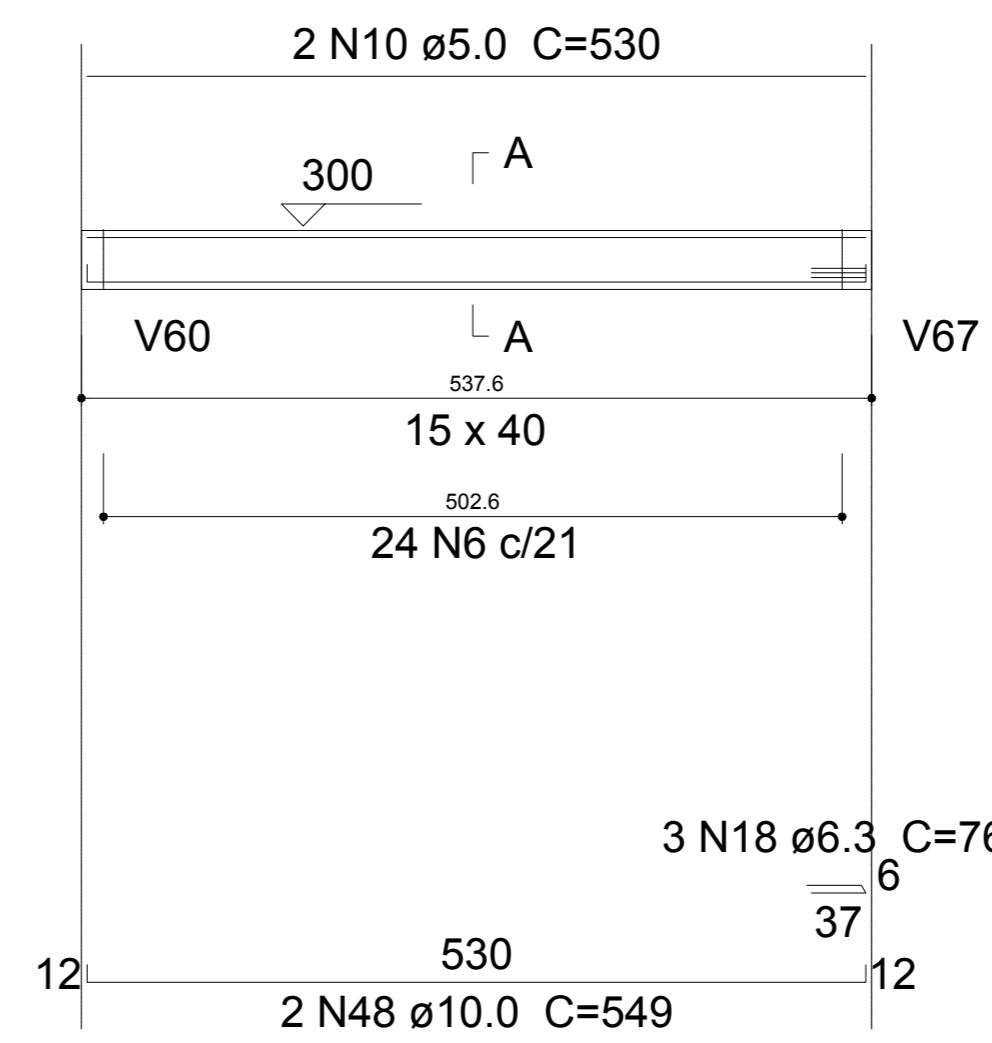
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ESC 1:50



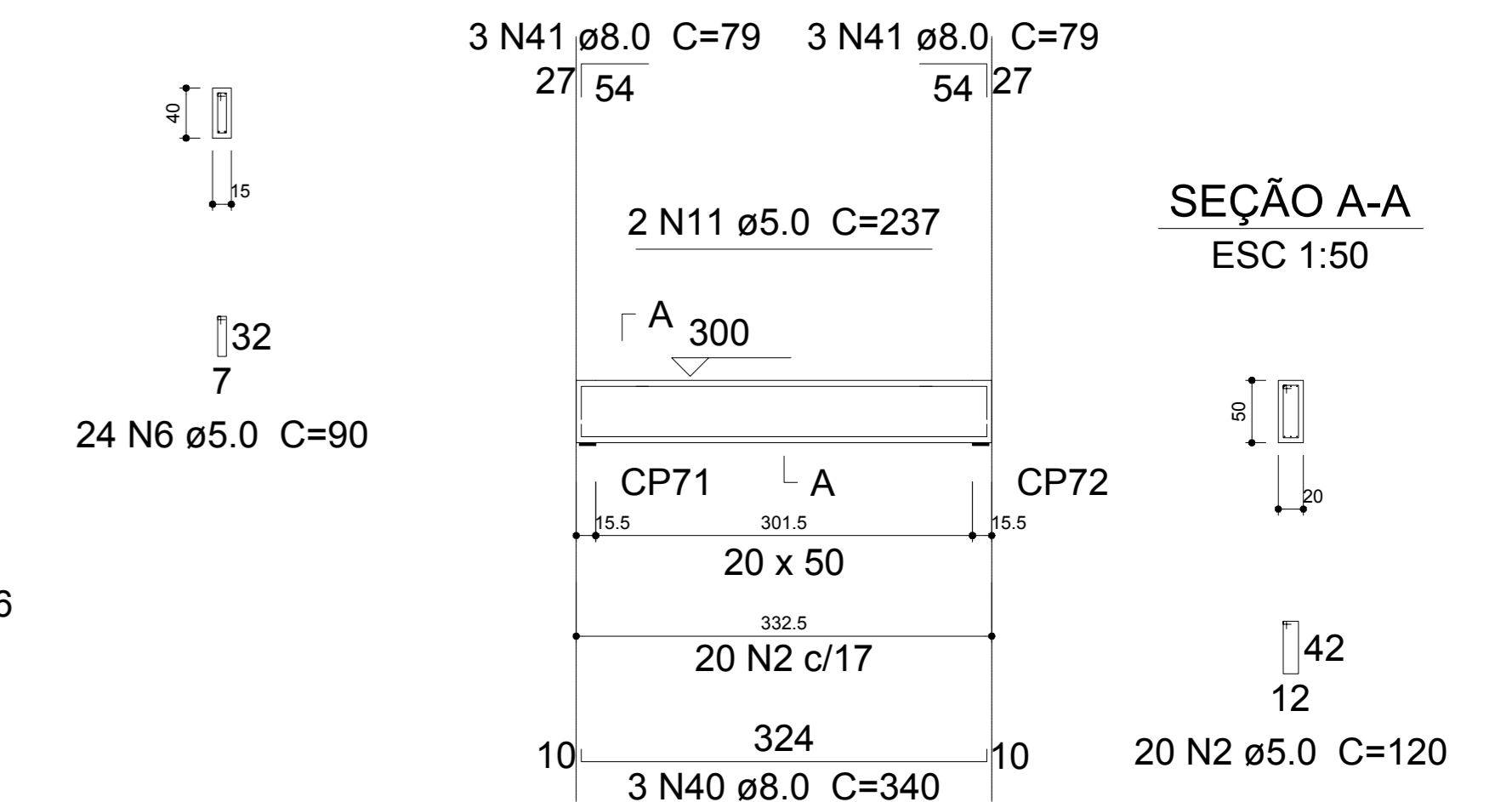
V32  
ESC 1:50



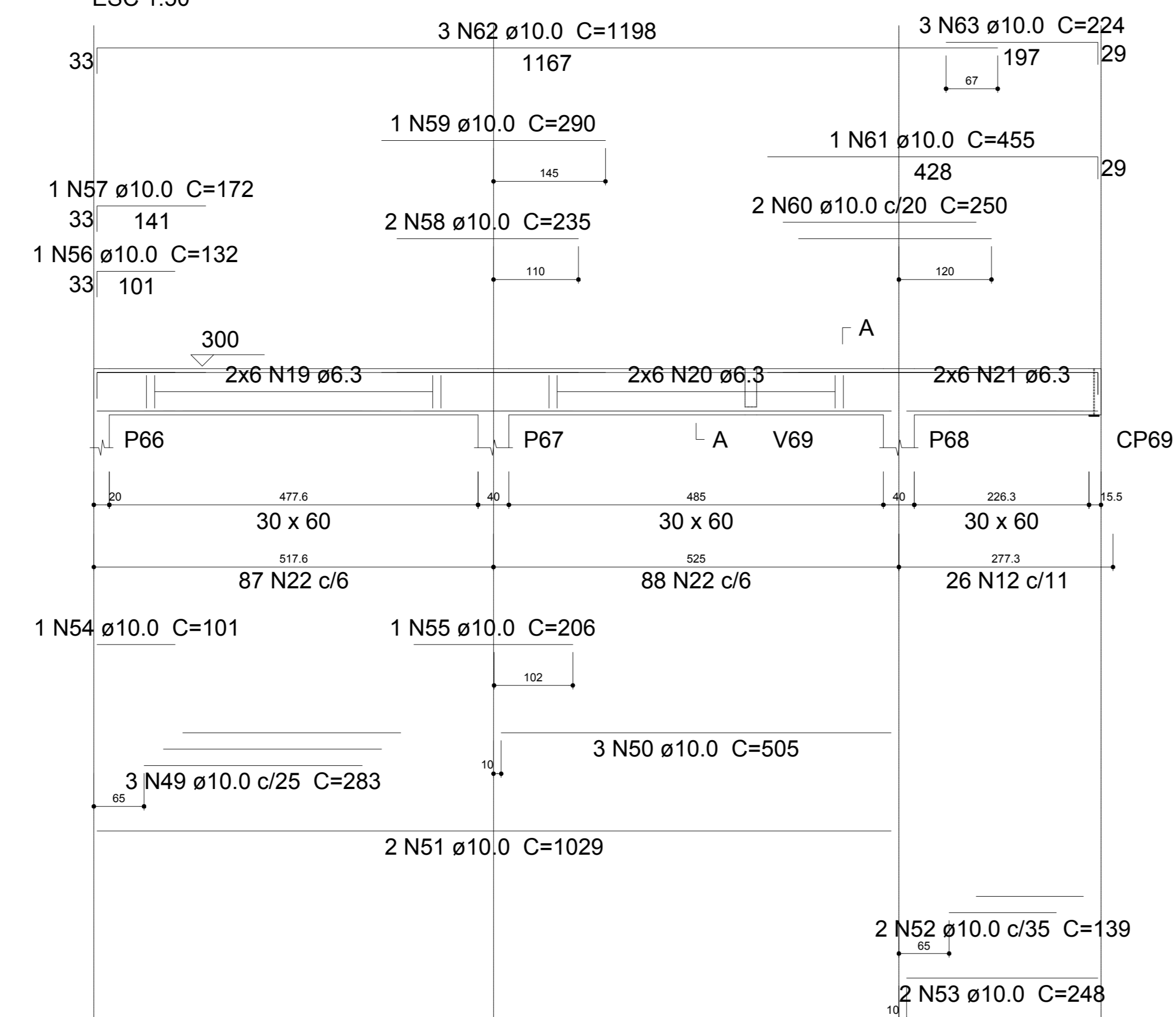
V33  
ESC 1:50



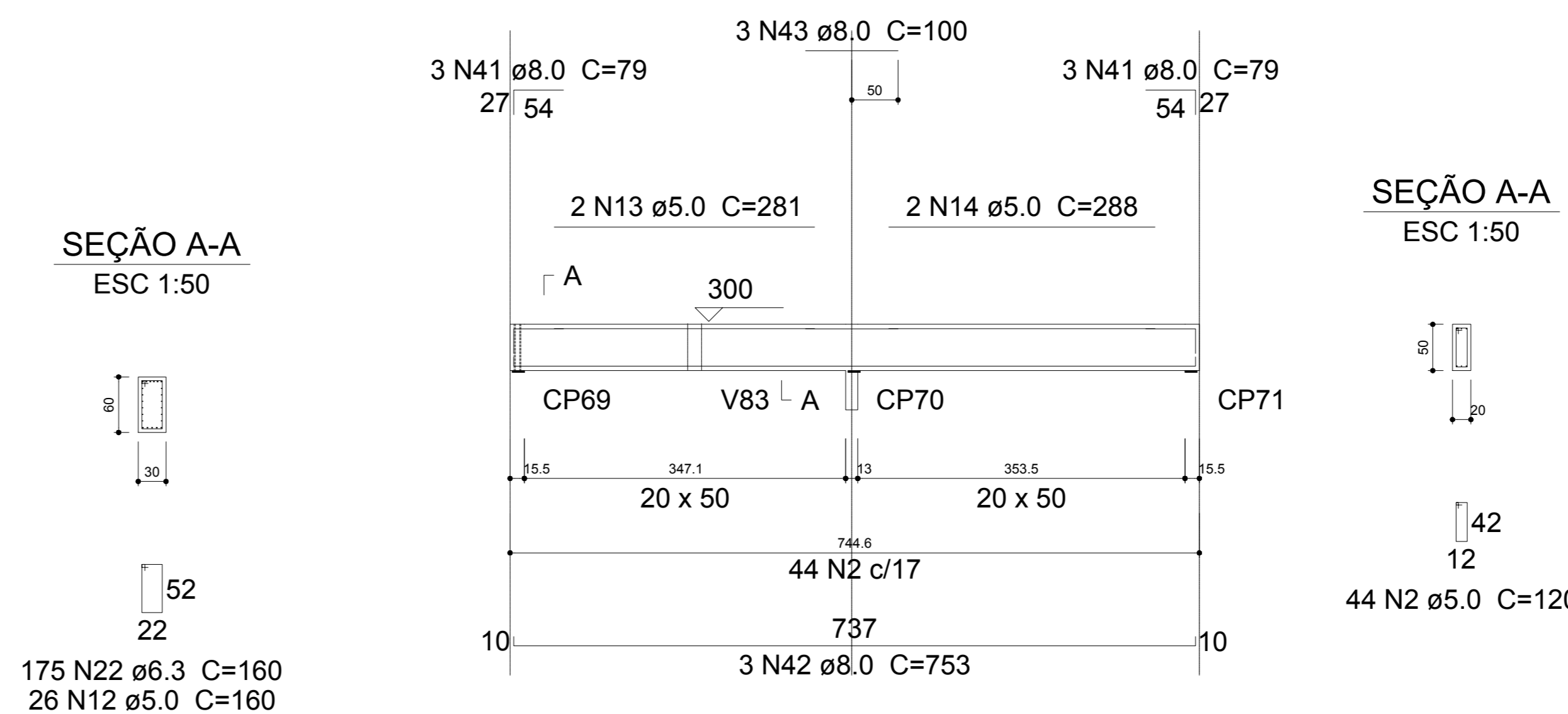
V36  
ESC 1:50



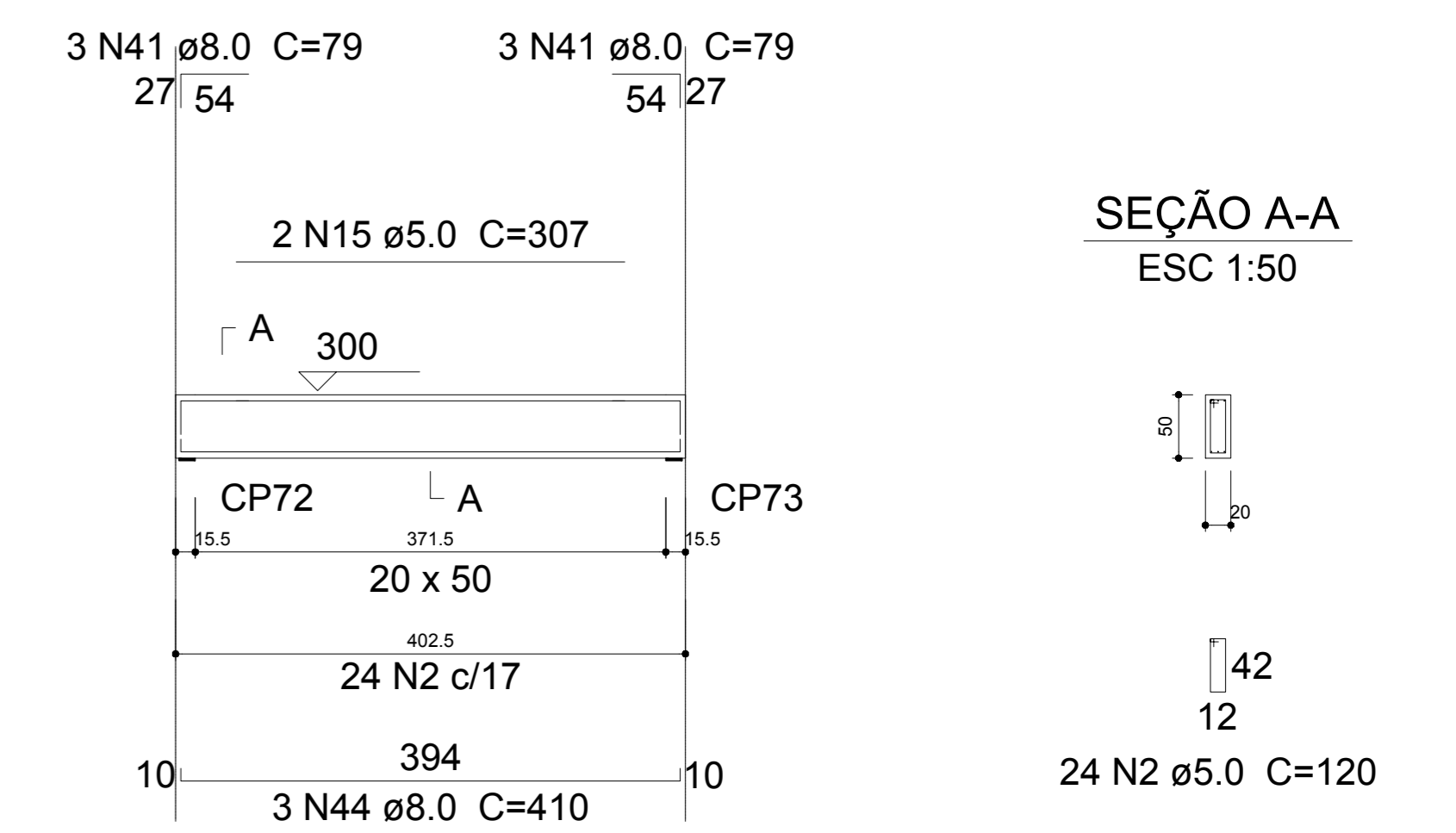
V34  
ESC 1:50



V35  
ESC 1:50



V37  
ESC 1:50



21 VIGAS COBERTURA (Estrutura h=3,00m)  
ESCALA: 1/50

**Engeobra**  
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OBRA: GINÁSIO SANTA TEREZINHA  
 LOCAL: Rua Achilles Biassotto, s/n, Bairro Guarany - Xaxim - SC  
 PROJETO: PROJETO ESTRUTURAL

ESPECIFICAÇÕES: Vigas cobertura  
 DATA: 07/2021  
 DESENHO: T.L.  
 PRANCHA: 16 /27  
 ESCALA: Indicada

Projeto: SAMUEL SPSSATTO OUTEIRO Engº Civil - CREA SC 133319-7  
 Proprietário: PREFEITURA MUNICIPAL DE XAXIM CNPJ: 82.854.670/0001-30