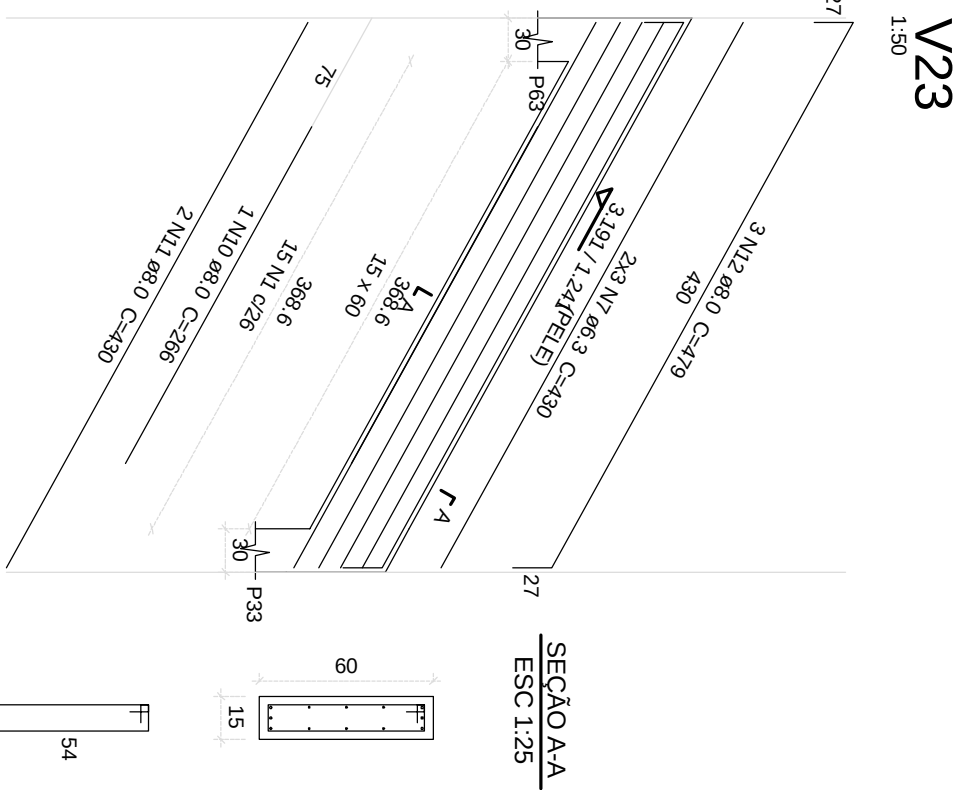
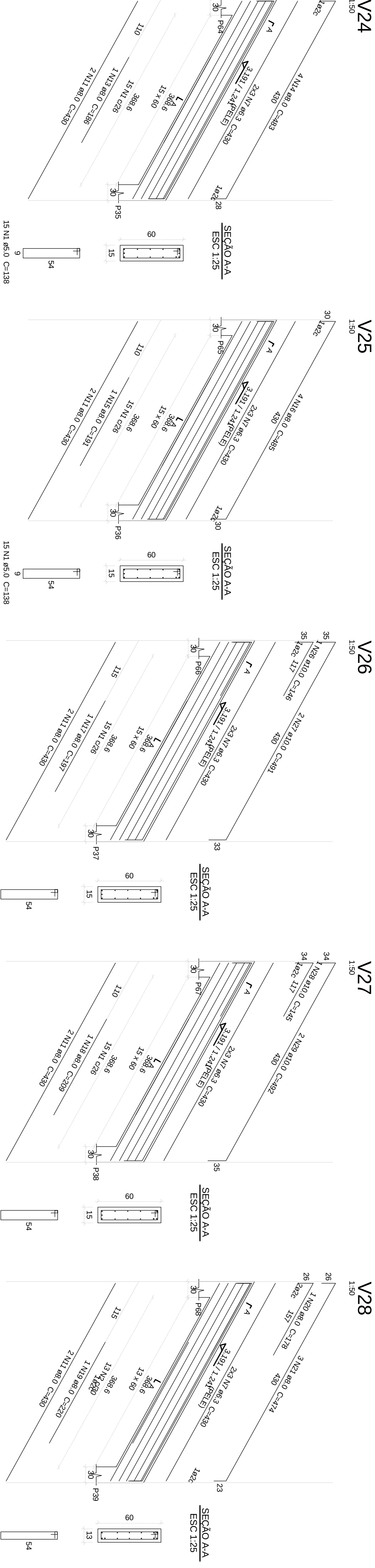


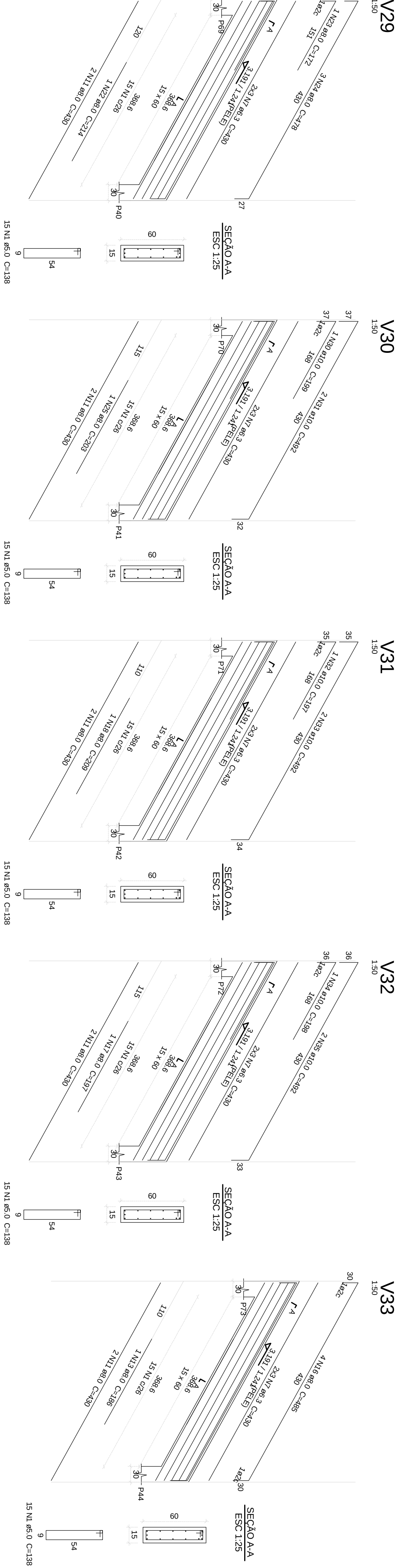


| Relação do aço |    |      |     |      |         |     |     |     |  |
|----------------|----|------|-----|------|---------|-----|-----|-----|--|
| AÇO            | N  | DIAM | Q   | UNIT | C.TOTAL | V20 | V21 | V22 |  |
|                |    |      |     |      | (cm)    | V23 | V24 | V25 |  |
|                |    |      |     |      |         | V26 | V27 | V28 |  |
|                |    |      |     |      |         | V29 | V30 | V31 |  |
|                |    |      |     |      |         | V32 | V33 |     |  |
| C60            | 2  | 5,0  | 229 | 134  | 17402   |     |     |     |  |
|                | 1  | 5,0  | 13  | 134  | 1142    |     |     |     |  |
| C50            | 3  | 6,3  | 6   | 106  | 3654    |     |     |     |  |
|                | 4  | 6,3  | 10  | 106  | 10650   |     |     |     |  |
|                | 5  | 6,3  | 6   | 607  | 3642    |     |     |     |  |
|                | 6  | 6,3  | 6   | 607  | 3642    |     |     |     |  |
|                | 8  | 8,0  | 6   | 624  | 3914    |     |     |     |  |
|                | 8  | 8,0  | 4   | 625  | 2500    |     |     |     |  |
|                | 9  | 8,0  | 4   | 625  | 2492    |     |     |     |  |
|                | 10 | 8,0  | 4   | 266  | 266     |     |     |     |  |
|                | 11 | 8,0  | 22  | 430  | 9460    |     |     |     |  |
|                | 12 | 8,0  | 3   | 419  | 1437    |     |     |     |  |
|                | 12 | 8,0  | 3   | 419  | 1437    |     |     |     |  |
|                | 14 | 8,0  | 4   | 485  | 1532    |     |     |     |  |
|                | 14 | 8,0  | 4   | 485  | 1532    |     |     |     |  |
|                | 15 | 8,0  | 1   | 191  | 191     |     |     |     |  |
|                | 16 | 8,0  | 8   | 485  | 3880    |     |     |     |  |
|                | 17 | 8,0  | 2   | 197  | 334     |     |     |     |  |
|                | 18 | 8,0  | 2   | 209  | 348     |     |     |     |  |
|                | 20 | 8,0  | 1   | 178  | 178     |     |     |     |  |
|                | 20 | 8,0  | 1   | 178  | 178     |     |     |     |  |
|                | 21 | 8,0  | 3   | 474  | 1422    |     |     |     |  |
|                | 21 | 8,0  | 3   | 474  | 1422    |     |     |     |  |
|                | 22 | 8,0  | 1   | 172  | 172     |     |     |     |  |
|                | 23 | 8,0  | 1   | 214  | 214     |     |     |     |  |
|                | 24 | 8,0  | 3   | 268  | 268     |     |     |     |  |
|                | 24 | 8,0  | 3   | 268  | 268     |     |     |     |  |
|                | 25 | 8,0  | 1   | 146  | 146     |     |     |     |  |
|                | 26 | 10,0 | 1   | 146  | 146     |     |     |     |  |
|                | 27 | 10,0 | 2   | 491  | 982     |     |     |     |  |
|                | 27 | 10,0 | 2   | 491  | 982     |     |     |     |  |
|                | 28 | 10,0 | 1   | 146  | 146     |     |     |     |  |
|                | 29 | 10,0 | 2   | 482  | 964     |     |     |     |  |
|                | 29 | 10,0 | 2   | 482  | 964     |     |     |     |  |
|                | 30 | 10,0 | 1   | 482  | 964     |     |     |     |  |
|                | 31 | 10,0 | 2   | 482  | 964     |     |     |     |  |
|                | 32 | 10,0 | 1   | 197  | 197     |     |     |     |  |
|                | 32 | 10,0 | 2   | 492  | 984     |     |     |     |  |
|                | 33 | 10,0 | 2   | 492  | 984     |     |     |     |  |
|                | 34 | 10,0 | 1   | 198  | 198     |     |     |     |  |
|                | 35 | 10,0 | 2   | 482  | 964     |     |     |     |  |
|                | 35 | 10,0 | 2   | 482  | 964     |     |     |     |  |
|                | 36 | 12,5 | 2   | 692  | 1384    |     |     |     |  |
|                | 37 | 12,5 | 2   | 692  | 1384    |     |     |     |  |
|                | 38 | 12,5 | 2   | 692  | 1384    |     |     |     |  |
|                | 39 | 12,5 | 1   | 227  | 227     |     |     |     |  |
|                | 40 | 12,5 | 2   | 242  | 484     |     |     |     |  |
|                | 41 | 12,5 | 2   | 242  | 484     |     |     |     |  |
|                | 42 | 12,5 | 2   | 690  | 1380    |     |     |     |  |
|                | 42 | 12,5 | 2   | 690  | 1380    |     |     |     |  |
|                | 43 | 16,0 | 2   | 258  | 516     |     |     |     |  |
|                | 44 | 16,0 | 1   | 262  | 262     |     |     |     |  |
|                | 45 | 16,0 | 2   | 731  | 1462    |     |     |     |  |



| Resumo do aço |                          |
|---------------|--------------------------|
| ACO           | DIAM C.TOTAL PESO + 10 % |
|               | (mm) (kgf)               |
| C850          | 6,3 204,6 109            |
| C800          | 8,0 254,0 132            |
| C750          | 10,0 315,0 158           |
| C700          | 12,5 381,0 190           |
| C650          | 15,0 477,5 243           |
| C600          | 16,0 508,0 265           |
| C550          | 5,0 333,5 56,5           |
| C500          | 38,5 125,3               |
| C450          | 56,5                     |

Vol. de concreto total (C-25) = 6,55 m³  
 Área de forma total = 89,91 m²

[illegible]