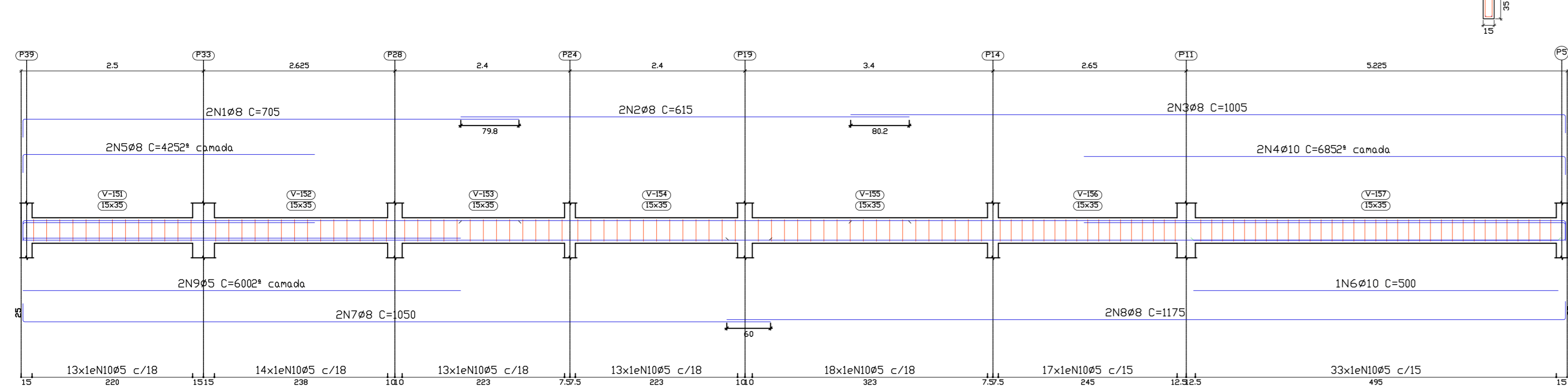
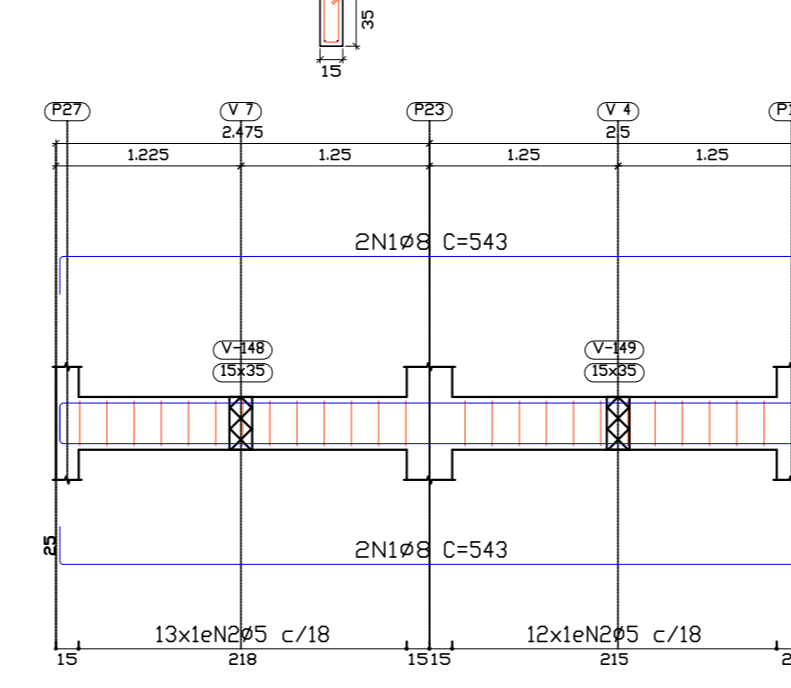


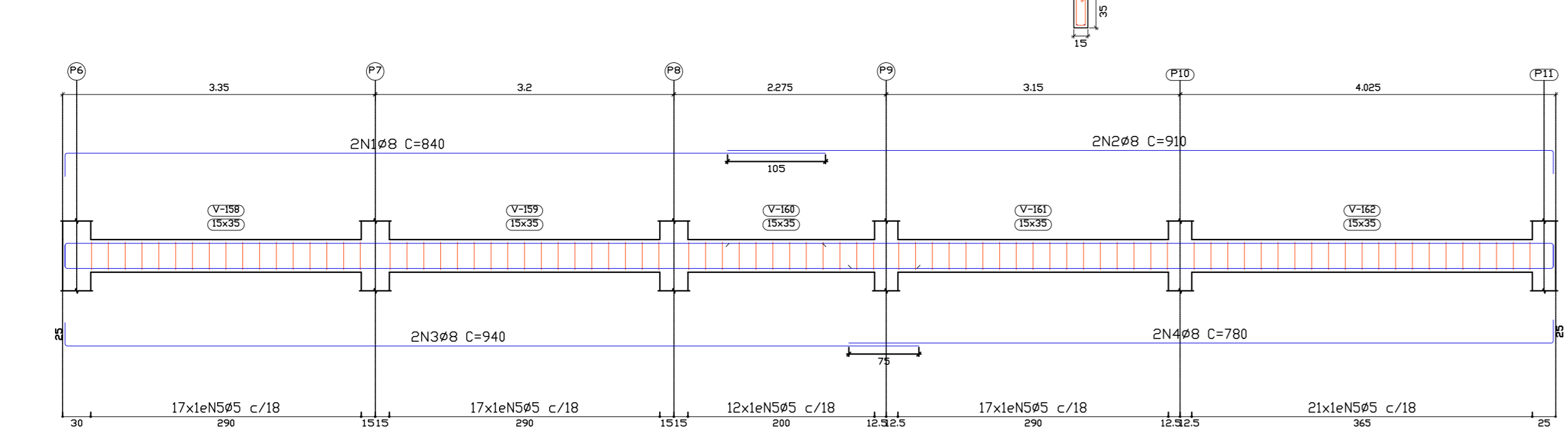
V2



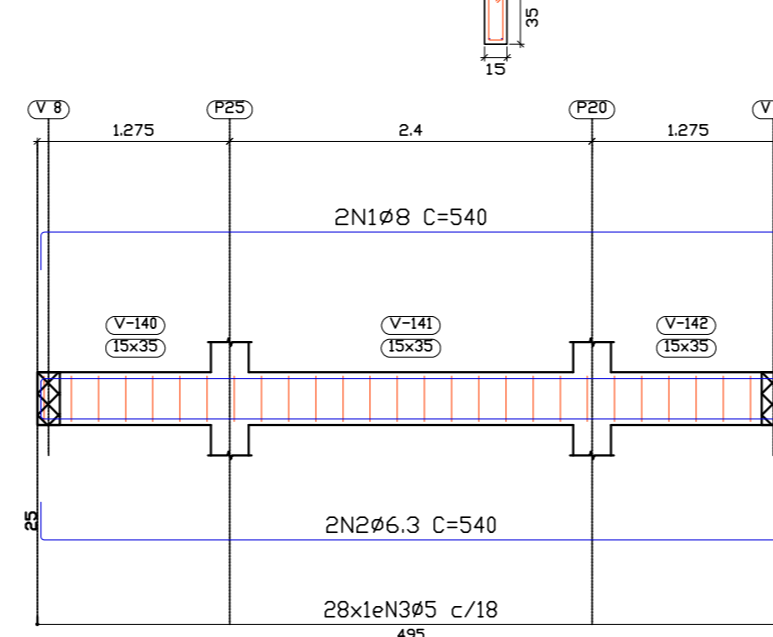
V3



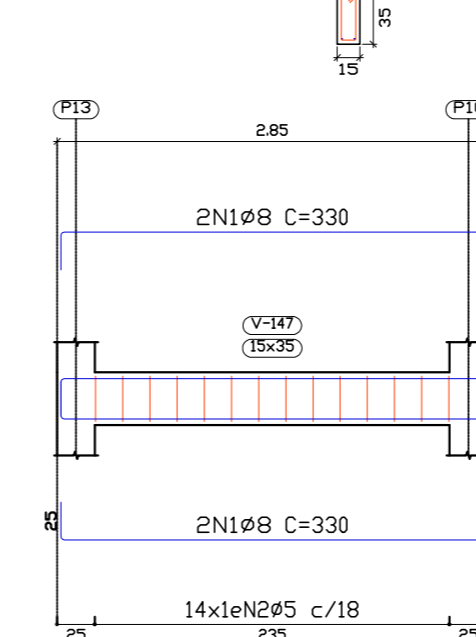
V4



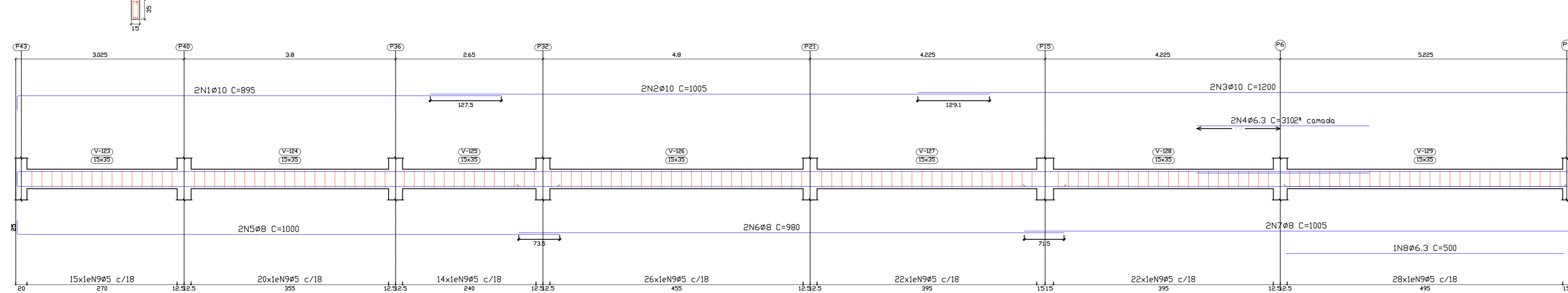
V5



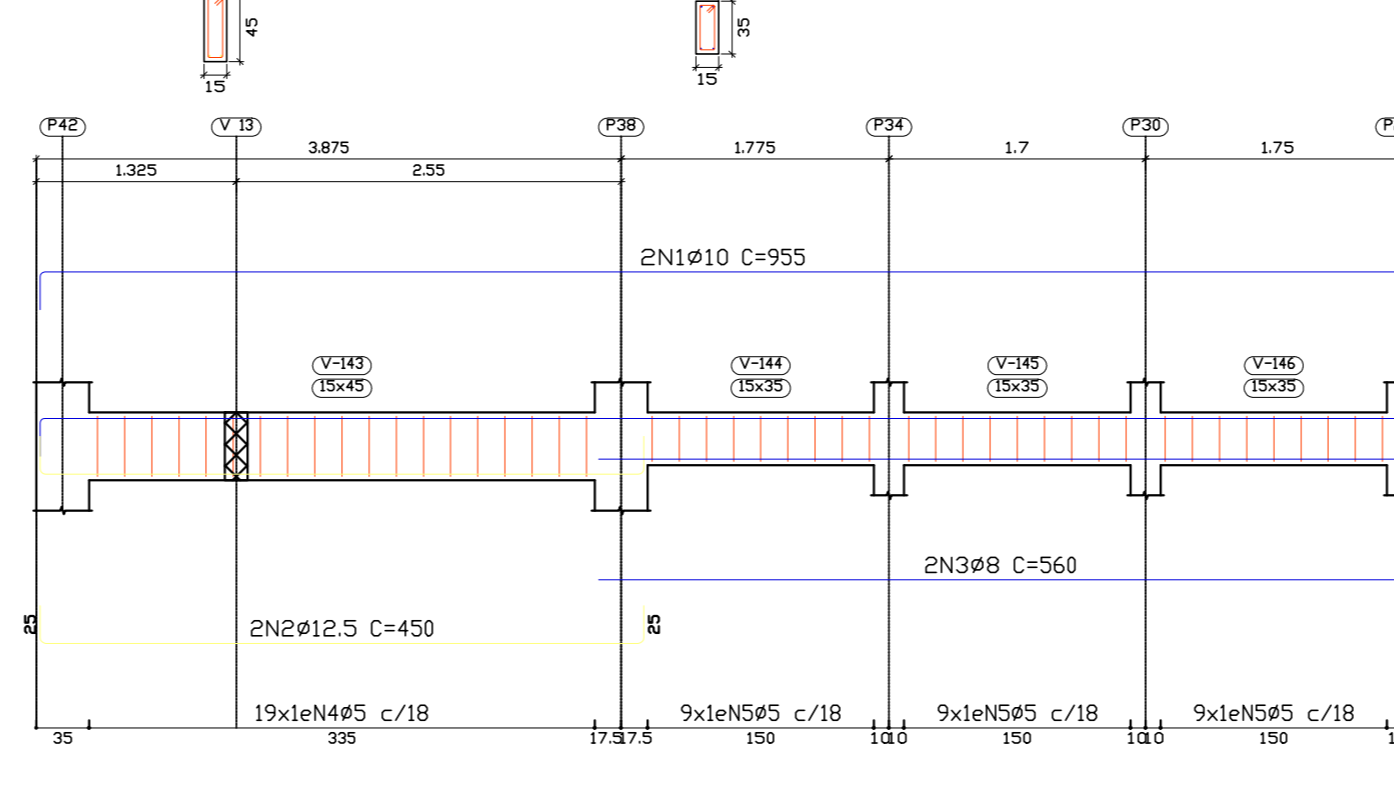
V6



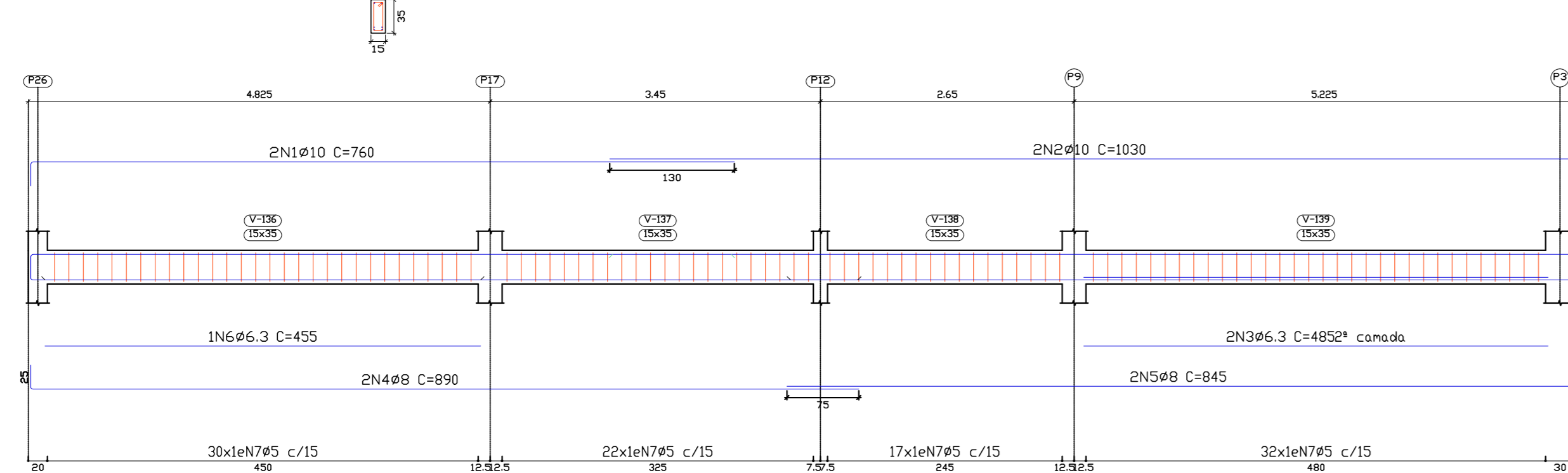
V7



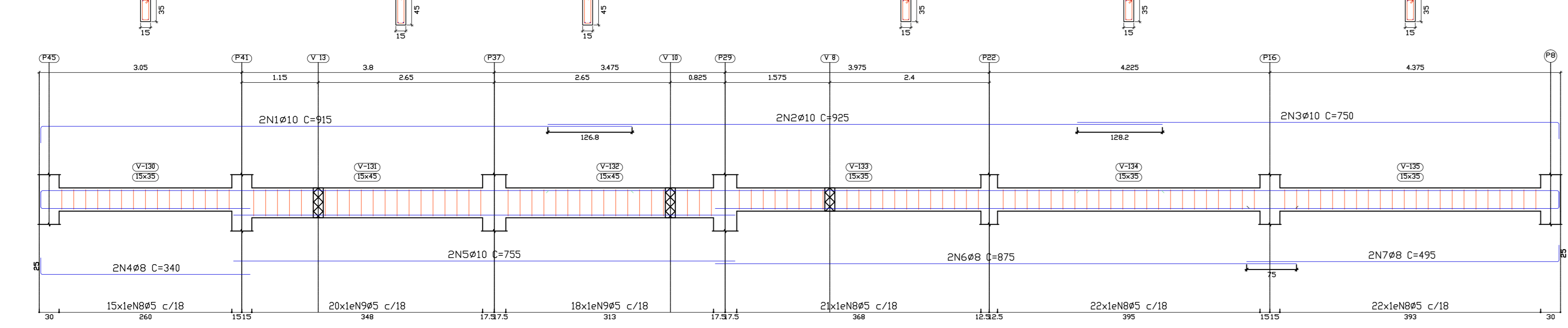
V8



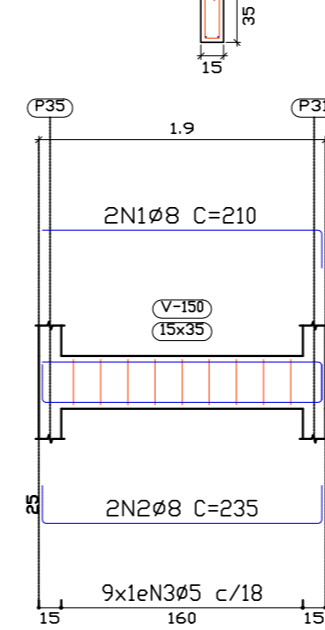
V9



V10



V11



| Elemento  | Pos | Diam  | Q   | Esquema (cm) | Comp (cm) | Total (cm) | CA-50 (kg) | CA-60 (kg) |       |
|-----------|-----|-------|-----|--------------|-----------|------------|------------|------------|-------|
| V22       | 1   | Ø8    | 2   | 185          | 210       | 420        | 1.7        |            |       |
|           | 2   | Ø8    | 2   | 185          | 235       | 470        | 1.9        |            |       |
|           | 3   | Ø5    | 9   | 88           | 792       | 880        |            | 1.2        |       |
| Total+10% |     |       |     |              |           |            | 4.0        | 1.3        |       |
| V23       | 1   | Ø8    | 2   | 185          | 795       | 1410       | 5.6        |            |       |
|           | 2   | Ø8    | 2   | 185          | 615       | 1230       | 4.9        |            |       |
|           | 3   | Ø8    | 2   | 185          | 1005      | 2010       | 7.9        |            |       |
|           | 4   | Ø10   | 2   | 185          | 685       | 1370       | 8.4        |            |       |
|           | 5   | Ø8    | 2   | 185          | 425       | 850        | 3.4        |            |       |
|           | 6   | Ø10   | 1   | 300          | 500       | 800        | 3.1        |            |       |
|           | 7   | Ø8    | 2   | 185          | 1050      | 2100       | 8.3        |            |       |
|           | 8   | Ø8    | 2   | 1100         | 1175      | 2250       | 9.3        |            |       |
|           | 9   | Ø5    | 2   | 600          | 600       | 1200       | 1.9        |            |       |
|           | 10  | Ø5    | 121 | 88           | 10648     | 10736      | 16.7       |            |       |
| Total+10% |     |       |     |              |           |            | 56.0       | 20.5       |       |
| V24       | 1   | Ø8    | 2   | 83           | 840       | 1680       | 6.6        |            |       |
|           | 2   | Ø8    | 2   | 83           | 910       | 1820       | 7.2        |            |       |
|           | 3   | Ø8    | 2   | 83           | 940       | 1880       | 7.4        |            |       |
|           | 4   | Ø8    | 2   | 79           | 780       | 1560       | 6.2        |            |       |
|           | 5   | Ø5    | 84  | 88           | 7392      | 7480       | 11.6       |            |       |
| Total+10% |     |       |     |              |           |            | 30.1       | 12.8       |       |
| V19       | 1   | Ø10   | 2   | 96           | 955       | 1910       | 11.8       |            |       |
|           | 2   | Ø12.5 | 2   | 450          | 900       | 1350       | 6.7        |            |       |
|           | 3   | Ø8    | 2   | 560          | 1120      | 1120       | 4.4        |            |       |
|           | 4   | Ø5    | 19  | 100          | 2050      | 2150       | 3.2        |            |       |
|           | 5   | Ø5    | 27  | 88           | 2376      | 2464       | 3.7        |            |       |
| Total+10% |     |       |     |              |           |            | 27.4       | 7.6        |       |
| V17       | 1   | Ø10   | 2   | 78           | 760       | 1520       | 9.4        |            |       |
|           | 2   | Ø10   | 2   | 1030         | 2060      | 2060       | 12.7       |            |       |
|           | 3   | Ø6.3  | 2   | 485          | 970       | 970        | 2.4        |            |       |
|           | 4   | Ø8    | 2   | 890          | 1780      | 1780       | 7.0        |            |       |
|           | 5   | Ø8    | 2   | 845          | 1690      | 1690       | 6.7        |            |       |
|           | 6   | Ø6.3  | 1   | 435          | 435       | 435        | 1.1        |            |       |
|           | 7   | Ø5    | 101 | 88           | 8888      | 8976       | 14.0       |            |       |
| Total+10% |     |       |     |              |           |            | 43.2       | 15.4       |       |
| V18       | 1   | Ø8    | 2   | 49           | 540       | 1080       | 4.3        |            |       |
|           | 2   | Ø6.3  | 2   | 49           | 540       | 1080       | 2.6        |            |       |
|           | 3   | Ø5    | 28  | 88           | 2464      | 2552       | 3.9        |            |       |
| Total+10% |     |       |     |              |           |            | 7.6        | 4.3        |       |
| V20       | 1   | Ø8    | 4   | 330          | 1320      | 1320       | 5.2        |            |       |
|           | 2   | Ø5    | 14  | 88           | 1232      | 1320       | 1.9        |            |       |
| Total+10% |     |       |     |              |           |            | 5.7        | 2.1        |       |
| V21       | 1   | Ø8    | 4   | 543          | 2172      | 2172       | 8.6        |            |       |
|           | 2   | Ø5    | 25  | 88           | 2200      | 2288       | 3.5        |            |       |
| Total+10% |     |       |     |              |           |            | 9.5        | 3.9        |       |
| V16       | 1   | Ø10   | 2   | 89           | 915       | 1830       | 11.3       |            |       |
|           | 2   | Ø10   | 2   | 925          | 1850      | 1850       | 11.4       |            |       |
|           | 3   | Ø10   | 2   | 750          | 1500      | 1500       | 9.2        |            |       |
|           | 4   | Ø8    | 2   | 340          | 680       | 680        | 2.7        |            |       |
|           | 5   | Ø10   | 2   | 735          | 1470      | 1470       | 9.3        |            |       |
|           | 6   | Ø8    | 2   | 875          | 1750      | 1750       | 6.9        |            |       |
|           | 7   | Ø8    | 2   | 450          | 900       | 900        | 3.9        |            |       |
|           | 8   | Ø5    | 80  | 88           | 7040      | 7128       | 11.1       |            |       |
|           | 9   | Ø5    | 38  | 108          | 4104      | 4212       | 6.4        |            |       |
| Total+10% |     |       |     |              |           |            | 60.2       | 19.3       |       |
| V15       | 1   | Ø10   | 2   | 810          | 895       | 1790       | 11.0       |            |       |
|           | 2   | Ø10   | 2   | 1005         | 2010      | 2010       | 12.4       |            |       |
|           | 3   | Ø10   | 2   | 1172         | 2344      | 2344       | 14.8       |            |       |
|           | 4   | Ø6.3  | 2   | 310          | 620       | 620        | 1.5        |            |       |
|           | 5   | Ø8    | 2   | 1000         | 2000      | 2000       | 7.9        |            |       |
|           | 6   | Ø8    | 2   | 980          | 1960      | 1960       | 7.7        |            |       |
|           | 7   | Ø8    | 2   | 1005         | 2010      | 2010       | 7.9        |            |       |
|           | 8   | Ø6.3  | 1   | 500          | 500       | 500        | 1.2        |            |       |
|           | 9   | Ø5    | 147 | 88           | 12936     | 13083      | 20.3       |            |       |
| Total+10% |     |       |     |              |           |            | 70.8       | 22.3       |       |
|           |     |       |     |              |           |            | Ø5         | 0.0        | 109.5 |
|           |     |       |     |              |           |            | Ø6.3       | 9.8        | 0.0   |
|           |     |       |     |              |           |            | Ø8         | 157.8      | 0.0   |
|           |     |       |     |              |           |            | Ø10        | 377.3      | 0.0   |
|           |     |       |     |              |           |            | Ø12.5      | 9.6        | 0.0   |
|           |     |       |     |              |           |            | Total      | 314.5      | 109.5 |

Térreo  
 Desenho de vigas  
 Concreto C20, em geral  
 Aço das barras CA-50 e CA-60  
 Aço das estribos CA-50 e CA-60  
 Escala vigas 1/50  
 Escala seções 1/50  
 Escala aberturas 1/50

| Resumo Aço | Comp. total (m) | Peso+10% (kg) | Total |
|------------|-----------------|---------------|-------|
| CA-50      | 207.8           | 56            |       |
| Ø6.3       | 535.7           | 233           |       |
| Ø8         | 202.5           | 137           |       |
| Ø10        | 87.3            | 93            | 519   |
| Ø12.5      | 1039.4          | 180           | 180   |
| CA-60      |                 |               | 699   |

**ESTRUTURAL**  
 DETALHAMENTO DE VIGAS

DUM ENGENHARIA E ARQUITETURA  
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DATA: Outubro / 2023

DESENHO: LARISSA MEIRELES ARQUITETA E URBANISTA CAU: A203386-8

INSTITUTO DE PREVIDÊNCIA DE ITAJAI

02/12

ESCALA: INDICADA