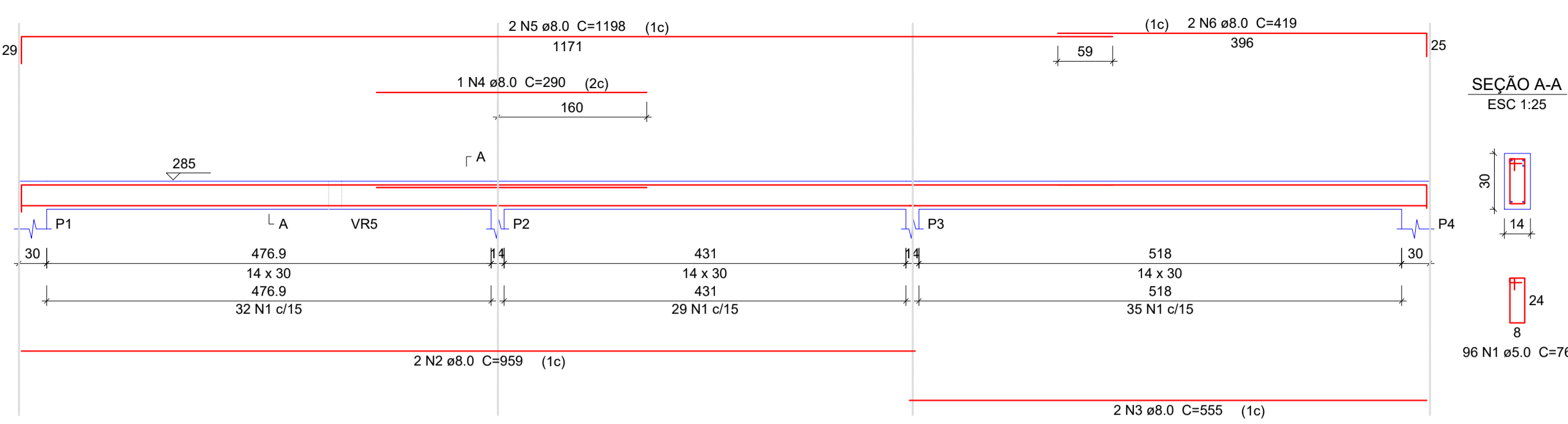


Vigas de Respaldo

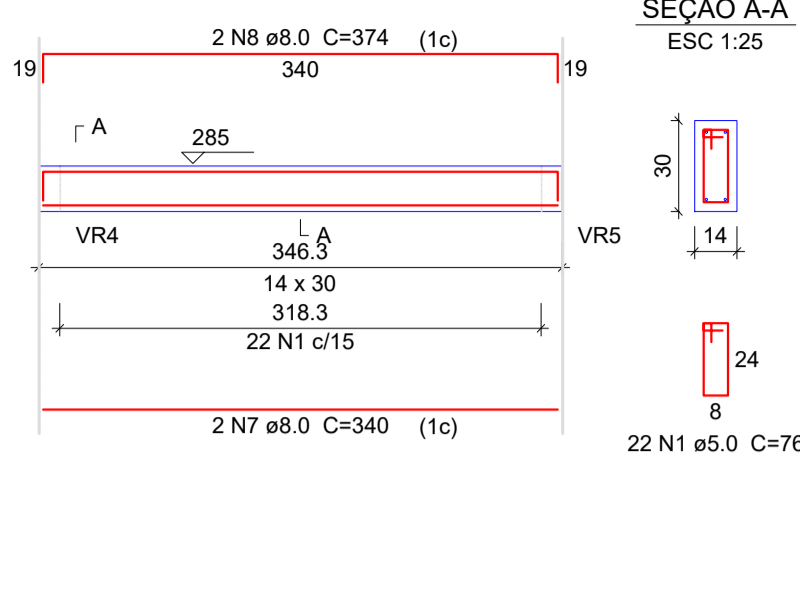
VR1

ESC 1:50



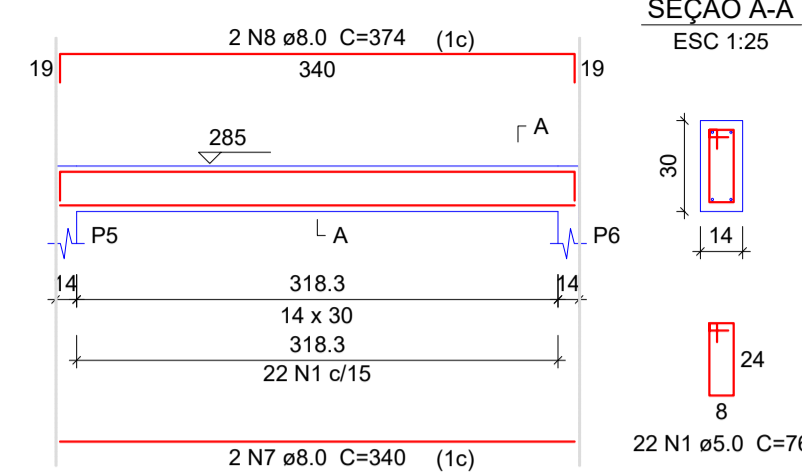
VR2

ESC 1:50



VR3

ESC 1:50



Relação do aço

| AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|------|----|------|-----|-----------|--------------|
| CA60 | 1 | 5.0 | 240 | 76 | 18240 |
| CA50 | 2 | 8.0 | 2 | 959 | 1918 |
| | 3 | 8.0 | 2 | 555 | 1110 |
| | 4 | 8.0 | 1 | 290 | 290 |
| | 5 | 8.0 | 2 | 1198 | 2396 |
| | 6 | 8.0 | 2 | 419 | 838 |
| | 7 | 8.0 | 4 | 340 | 1360 |
| | 8 | 8.0 | 4 | 374 | 1496 |
| | 9 | 8.0 | 6 | 520 | 3120 |
| | 10 | 8.0 | 6 | 551 | 3306 |
| | 11 | 8.0 | 1 | 305 | 305 |

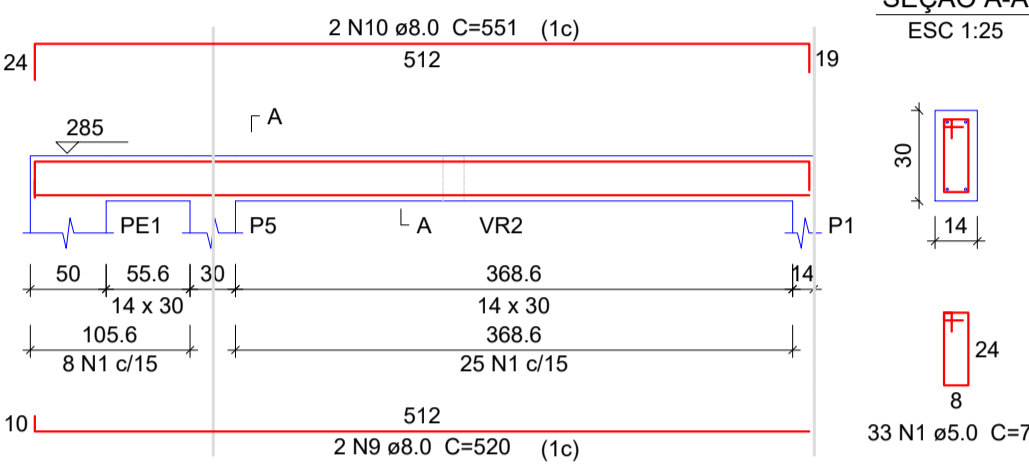
Resumo do aço

| AÇO | DIAM | C.TOTAL (m) | PESO + 10 % (kg) |
|------------|------|-------------|------------------|
| CA50 | 8.0 | 161.4 | 70.1 |
| CA60 | 5.0 | 182.4 | 30.9 |
| PESO TOTAL | | | |
| CA50 | | | 70.1 |
| CA60 | | | 30.9 |

Vol. de concreto total (C-25) = 1.58 m³
Área de forma total = 27.83 m²

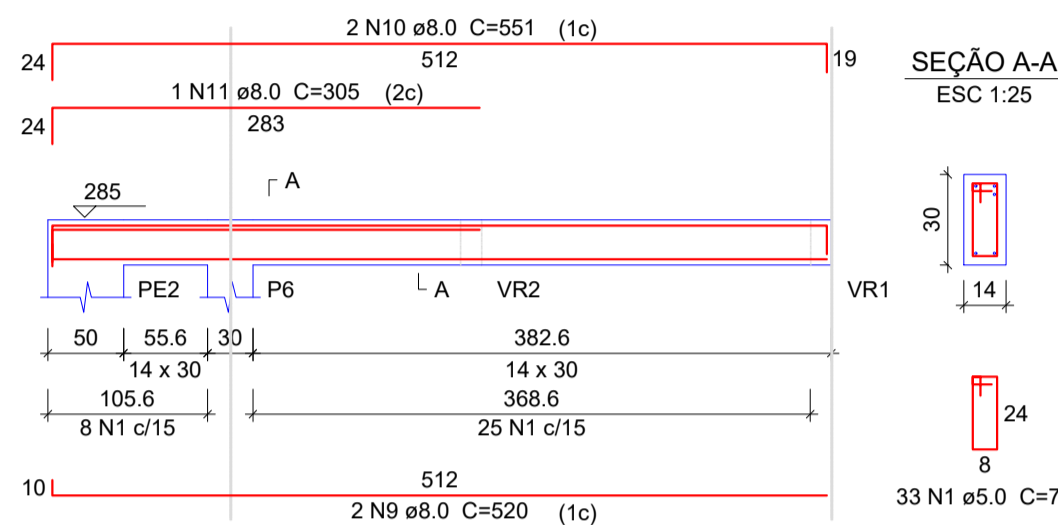
VR4

ESC 1:50



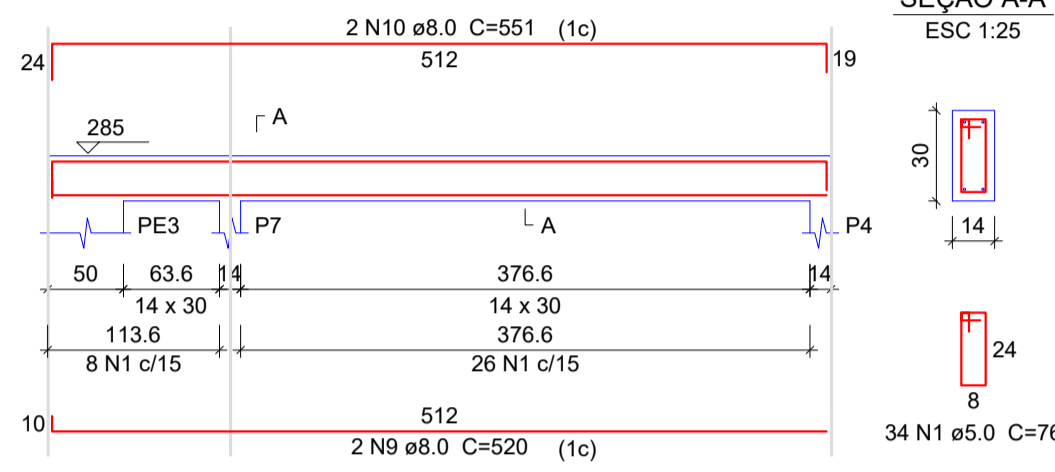
VR5

ESC 1:50



VR6

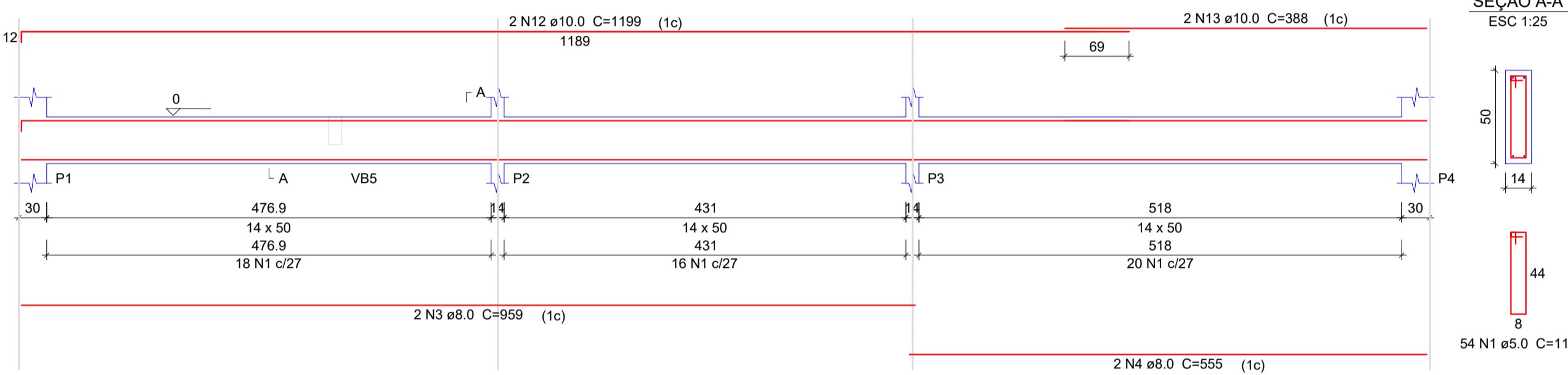
ESC 1:50



vigas baldrames

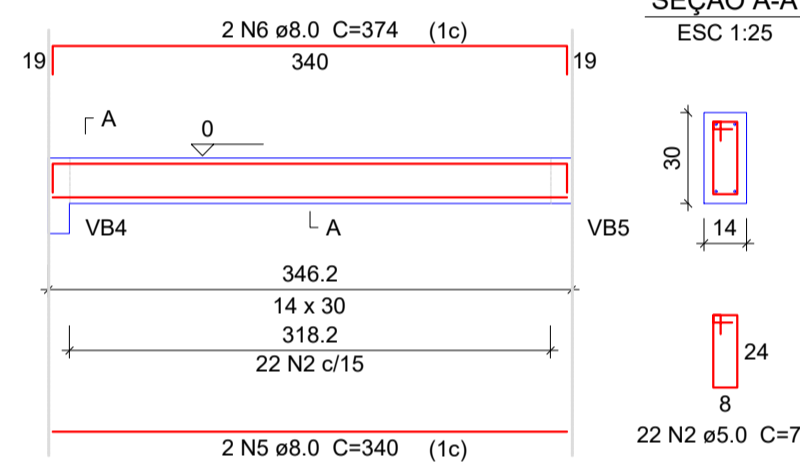
VB1

ESC 1:50



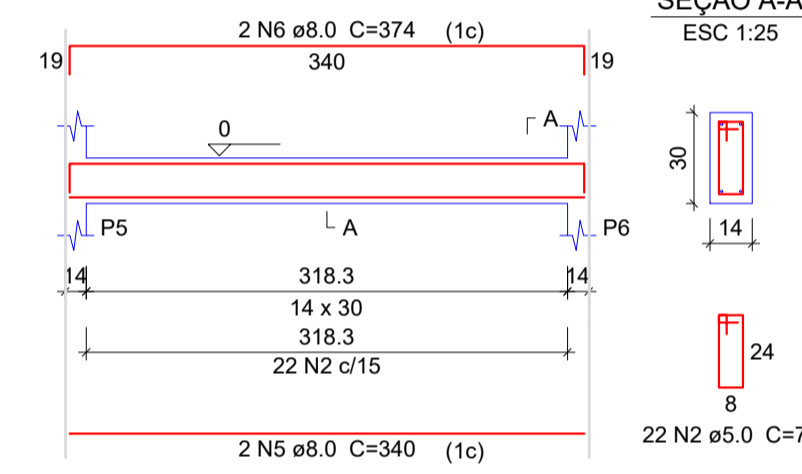
VB2

ESC 1:50



VB3

ESC 1:50



Relação do aço

| AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|------|----|------|-----|-----------|--------------|
| CA60 | 1 | 5.0 | 72 | 116 | 8352 |
| CA50 | 2 | 5.0 | 111 | 76 | 8436 |
| | 3 | 8.0 | 2 | 959 | 1918 |
| | 4 | 8.0 | 2 | 555 | 1110 |
| | 5 | 8.0 | 4 | 340 | 1360 |
| | 6 | 8.0 | 4 | 374 | 1496 |
| | 7 | 8.0 | 6 | 520 | 3120 |
| | 8 | 8.0 | 1 | 310 | 310 |
| | 9 | 8.0 | 2 | 582 | 1164 |
| | 10 | 8.0 | 1 | 390 | 390 |
| | 11 | 8.0 | 2 | 533 | 1066 |
| | 12 | 10.0 | 2 | 1199 | 2398 |
| | 13 | 10.0 | 2 | 388 | 776 |
| | 14 | 10.0 | 2 | 330 | 660 |
| | 15 | 10.0 | 2 | 546 | 1092 |

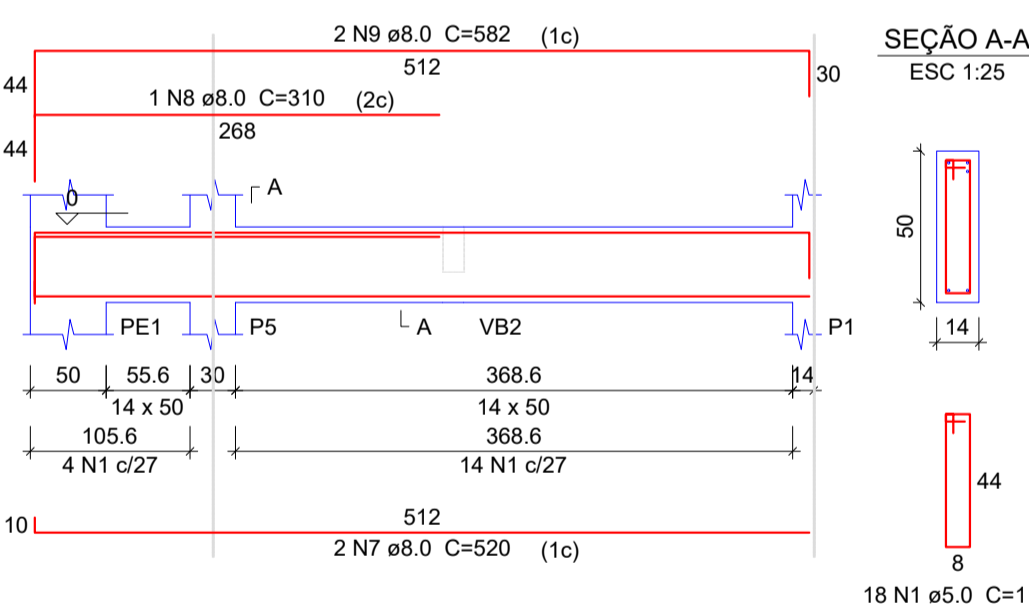
Resumo do aço

| AÇO | DIAM | C.TOTAL (m) | PESO + 10 % (kg) |
|------------|------|-------------|------------------|
| CA50 | 8.0 | 119.4 | 51.8 |
| | 10.0 | 49.3 | 33.4 |
| CA60 | 5.0 | 167.9 | 28.5 |
| PESO TOTAL | | | |
| CA50 | | | 85.2 |
| CA60 | | | 28.5 |

Vol. de concreto total (C-25) = 2.15 m³
Área de forma total = 35.96 m²

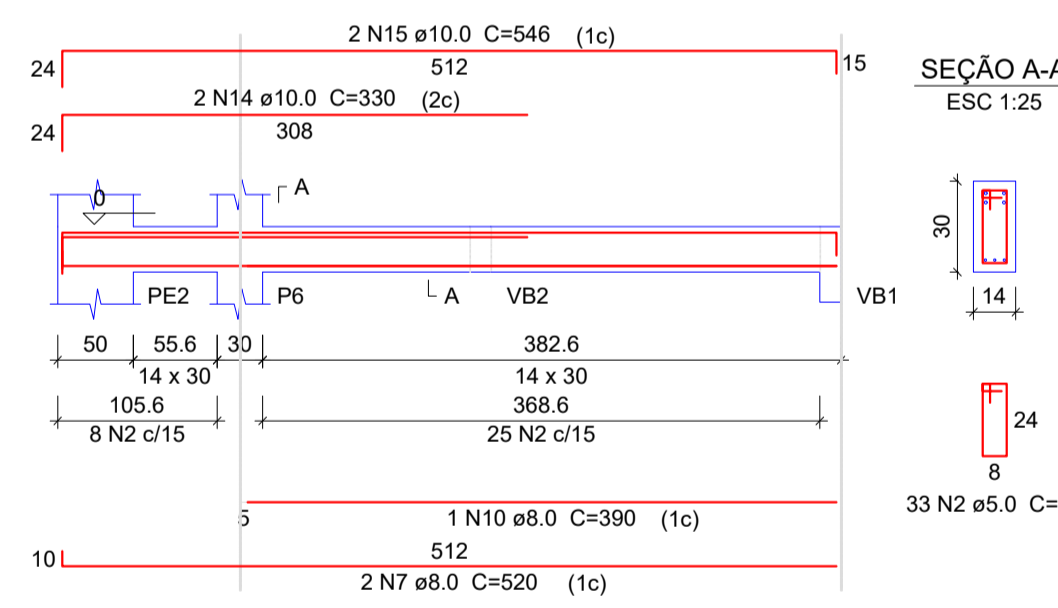
VB4

ESC 1:50



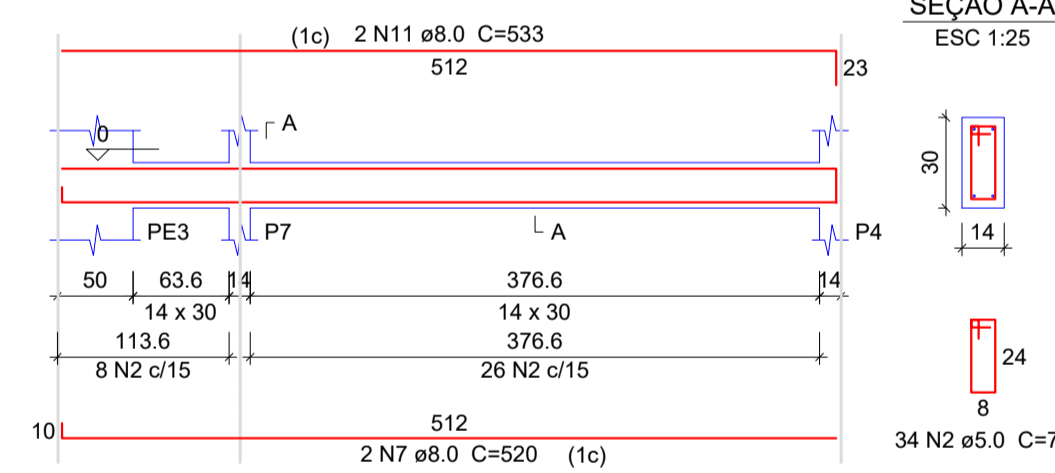
VB5

ESC 1:50



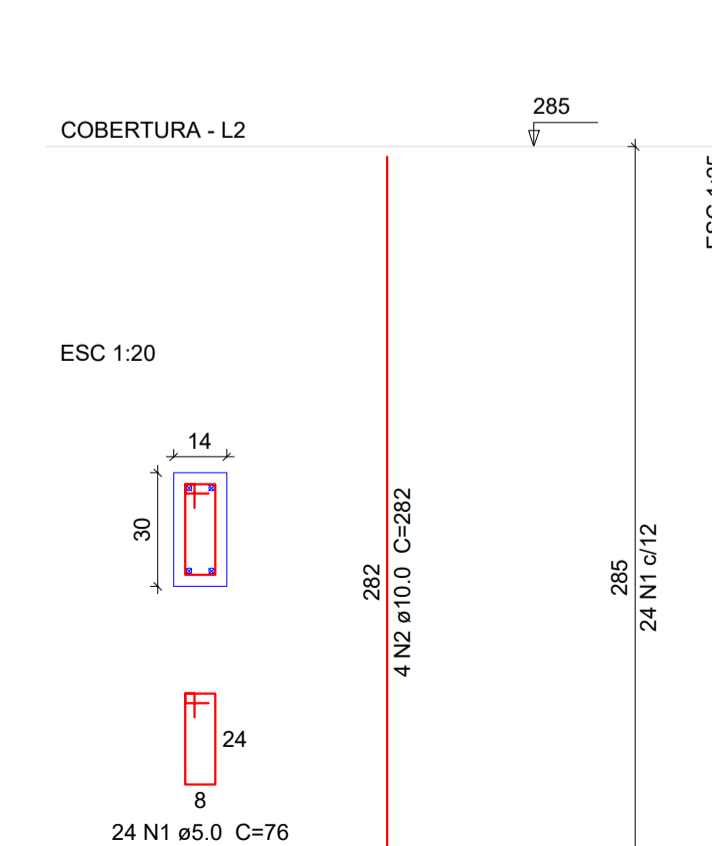
VB6

ESC 1:50



PILAR

P1=P2=P3=P4=P5=P6=P7



Relação do aço

| AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|------|---|------|-----|-----------|--------------|
| CA60 | 1 | 5.0 | 168 | 76 | 12768 |
| CA50 | 2 | 10.0 | 28 | 282 | 7896 |

Resumo do aço

| AÇO | DIAM | C.TOTAL (m) | PESO + 10 % (kg) |
|------------|------|-------------|------------------|
| CA50 | 10.0 | 79 | 53.5 |
| CA60 | 5.0 | 127.7 | 21.6 |
| PESO TOTAL | | | |
| CA50 | | | 53.5 |
| CA60 | | | 21.6 |

Vol. de concreto total (C-25) = 0.84 m³
Área de forma total = 17.56 m²

CONFERÊNCIA E APROVAÇÃO

Alvará nº 01-A/2021

Aprovação

Responsável técnico pela análise

Prefeito Municipal

Fabiano Maia Maciel
Engenheiro Civil
CREA SC: 171.501-6
Contrato: 050/2022

AMURES



ASSOCIAÇÃO DE MUNICÍPIOS DA REGIÃO SERRANA

PREFEITURA MUNICIPAL DE RIO RUFINO - SC

16/16

ASSESSORIA TÉCNICA

PROJETO:

Indiamara de Oliveira Ribeiro
Eng. Civil - CREA Nº 13.4548-3

PREFEITO:

Erlon Tancredo Costa

DESENHO:

Jeziel Santos Ribeiro

OBRA:

Projeto de Reforma e Ampliação do Centro de Convivência

Projeto Estrutural

Pilares
Vigas Baldrames "VB"
Vigas de Respaldo "VR"

Localização: Rua José Oselame

ESCALA:

Como Indicado

DATA:

FEV/2021