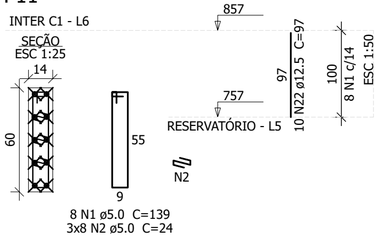
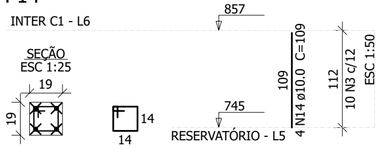
## P11

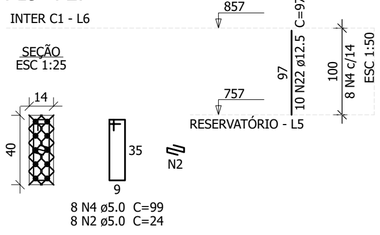



8 N1 ø5.0 C=139
3x8 N2 ø5.0 C=24

## P14

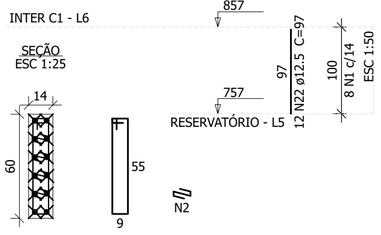



## P19=P27



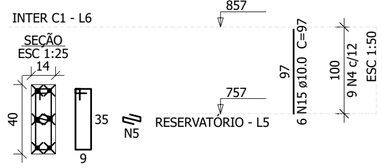

8 N4 ø5.0 C=99
8 N2 ø5.0 C=24

## P29



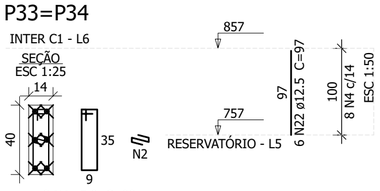

8 N1 ø5.0 C=139
4x8 N2 ø5.0 C=24

## P30=P31=P32



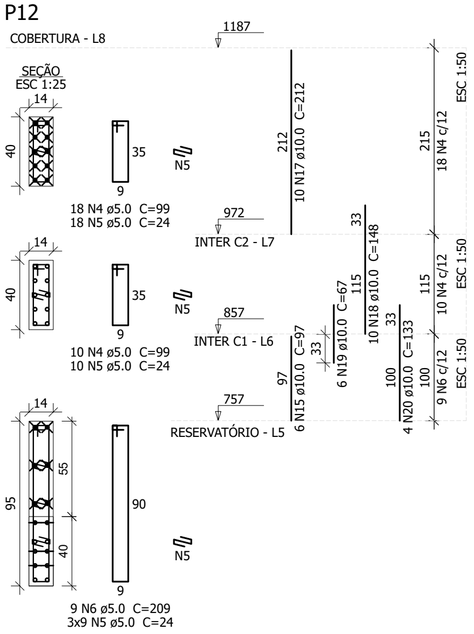

9 N4 ø5.0 C=99
9 N5 ø5.0 C=24

## P33=P34



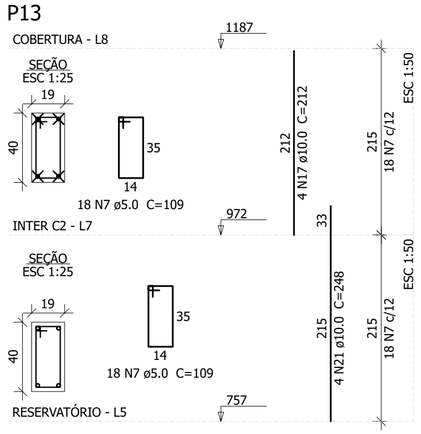

8 N4 ø5.0 C=99
8 N2 ø5.0 C=24

## P12

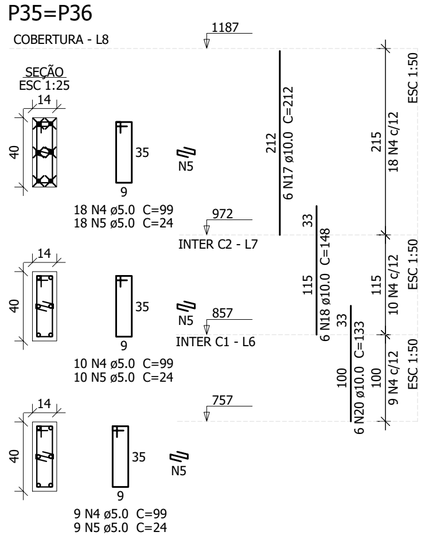



9 N6 ø5.0 C=209
3x9 N5 ø5.0 C=24

## P13




## P35=P36




9 N4 ø5.0 C=99
9 N5 ø5.0 C=24

## Relação do aço

COBERTURA: P12, 2xP35; P13

INTER C1: P11, 2xP19, 3xP30; P14, P29, 2xP33

| AÇO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 16 | 139 | 2224 |
| | 2 | 5.0 | 88 | 24 | 2112 |
| | 3 | 5.0 | 10 | 67 | 670 |
| | 4 | 5.0 | 161 | 99 | 15939 |
| | 5 | 5.0 | 156 | 24 | 3744 |
| | 6 | 5.0 | 9 | 209 | 1881 |
| | 7 | 5.0 | 36 | 109 | 3924 |
| CA50 | 14 | 10.0 | 4 | 109 | 436 |
| | 15 | 10.0 | 24 | 97 | 2328 |
| | 17 | 10.0 | 26 | 212 | 5512 |
| | 18 | 10.0 | 22 | 148 | 3256 |
| | 19 | 10.0 | 6 | 67 | 402 |
| | 20 | 10.0 | 16 | 133 | 2128 |
| | 21 | 10.0 | 4 | 248 | 992 |
| | 22 | 12.5 | 54 | 97 | 5238 |

## Resumo do aço

| AÇO | DIAM (mm) | C.TOTAL (m) | QUANT (Barras) | PESO (kg) |
|---|---|---|---|---|
| CA50 | 10.0 | 150.6 | 13 | 92.8 |
| | 12.5 | 52.4 | 5 | 50.5 |
| CA60 | 5.0 | 305 | - | 47 |

| PESO TOTAL (kg) | |
|---|---|
| CA50 | 143.3 |
| CA60 | 47 |

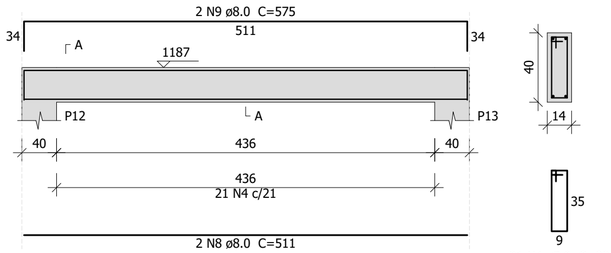
Volume de concreto (C-30) = 1.73 m³
Área de forma = 31.48 m²

| R00 | EMISSÃO INICIAL | 27/09/2024 |
|---|---|---|
| Nº | DESCRIÇÃO | DATA |

OBS.: TODAS AS MEDIDAS DEVEM SER CONFERIDAS EM OBRA. CASO SEJA NECESSÁRIO ALGUMA ALTERAÇÃO, ENTRAR EM CONTATO COM O PROJETISTA RESPONSÁVEL.

## VC-1 (14 x 40)

ESC 1:50



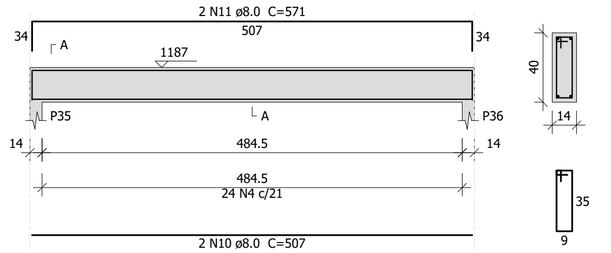

SEÇÃO A-A
ESC 1:25




21 N4 ø5.0 C=99

## VC-2 (14 x 40)

ESC 1:50



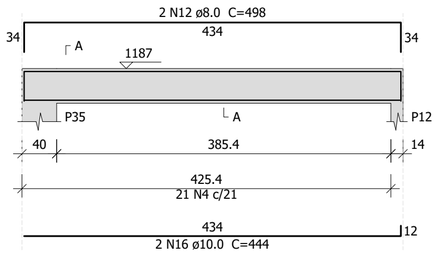

SEÇÃO A-A
ESC 1:25



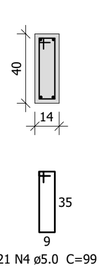

24 N4 ø5.0 C=99

## VC-3 (14 x 40)

ESC 1:50



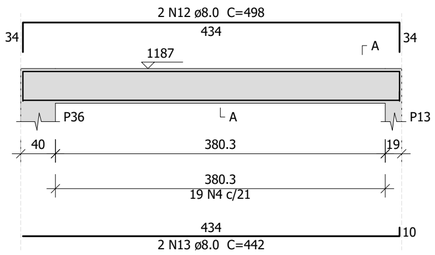

SEÇÃO A-A
ESC 1:25



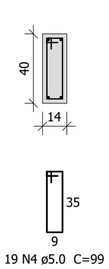

21 N4 ø5.0 C=99

## VC-4 (14 x 40)

ESC 1:50




SEÇÃO A-A
ESC 1:25




19 N4 ø5.0 C=99

## Relação do aço

VC-1 VC-2 VC-3 VC-4

| AÇO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 4 | 5.0 | 85 | 99 | 8415 |
| CA50 | 8 | 8.0 | 2 | 511 | 1022 |
| | 9 | 8.0 | 2 | 575 | 1150 |
| | 10 | 8.0 | 2 | 507 | 1014 |
| | 11 | 8.0 | 2 | 571 | 1142 |
| | 12 | 8.0 | 4 | 498 | 1992 |
| | 13 | 8.0 | 2 | 442 | 884 |
| | 16 | 10.0 | 2 | 444 | 888 |

## Resumo do aço

| AÇO | DIAM (mm) | C.TOTAL (m) | QUANT (Barras) | PESO (kg) |
|---|---|---|---|---|
| CA50 | 8.0 | 72.1 | 7 | 28.4 |
| | 10.0 | 8.9 | 1 | 5.5 |
| CA60 | 5.0 | 84.2 | - | 13 |

| PESO TOTAL (kg) | |
|---|---|
| CA50 | 33.9 |
| CA60 | 13 |

Volume de concreto (C-30) = 0.94 m³
Área de forma = 15.85 m²

ASSINATURAS

CLIENTE:

PREFEITURA MUNICIPAL DE GOVERNADOR CELSO RAMOS
CNPJ: 82.892.373/0001-89

RESPONSÁVEL TÉCNICO: GUILHERME SILVEIRA DE OLIVEIRA:00492851905
Assinado de forma digital por GUILHERME SILVEIRA DE OLIVEIRA:00492851905
Dados: 2024.10.04 16:25:39 -03'00'
GUILHERME SILVEIRA DE OLIVEIRA
CREA/SC: 126.956-9

# ESTRUTURAL


**ENGEPLANTI**
PROJETOS E SUPERVISÃO
**Engeplanti Consultoria LTDA./ CREA nº 163388-0 / CNPJ 23.002.667/0001-29**
Rua Cristóvão Nunes Pires, 110 - CEP 88010-120 - Florianópolis / Fone: (48) 3364-2209 / e-mail: projetos@engeplanti.com.br


OBRA: **POSTO DOS BOMBEIROS DE PALMAS**

INSCRIÇÃO IMOBILIÁRIA: -

ENDEREÇO: RUA ROSENDO JOAQUIM SAGAS, S/N, PALMAS, GOVERNADOR CELSO RAMOS/SC

CONTEÚDO: ARMAÇÃO PILARES E VIGAS DA COBERTURA

ESCALA: INDICADA

ETAPA: PROJETO EXECUTIVO

PRANCHA: EST 26/26

ARQUIVO: 029-23-25-BOMBEIROS-EST-PE-026-COBE-ARM-R00.dwg