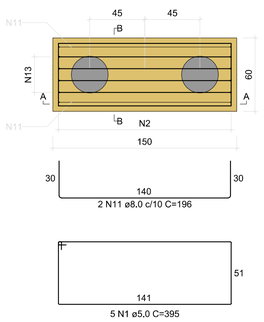
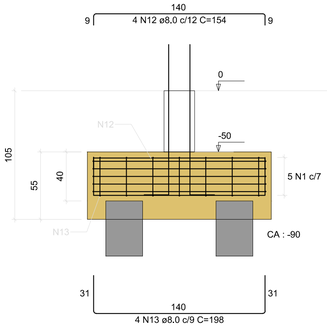
## B24=B26
2xC30

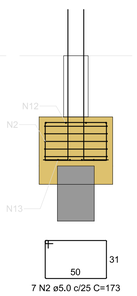
PLANTA
ESC 1:25



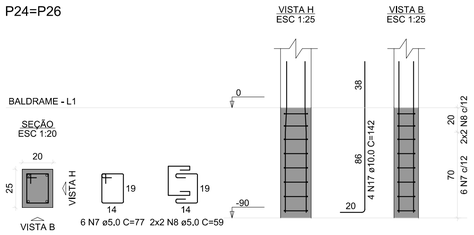

CORTE A-A
ESC 1:25




CORTE B-B
ESC 1:25

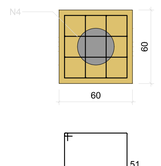



## P24=P26

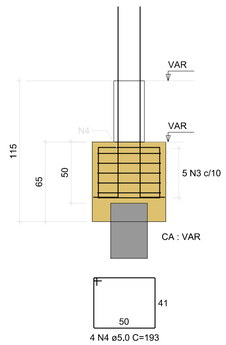



## B33=B37
1xC30

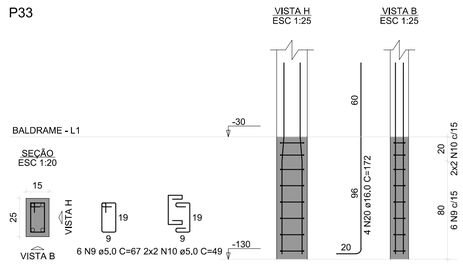
PLANTA
ESC 1:25



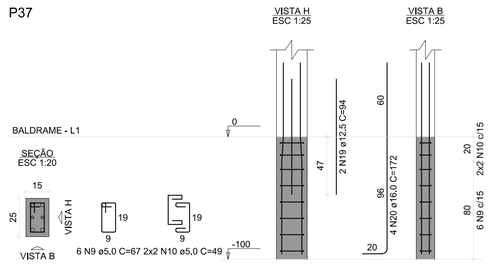

CORTE
ESC 1:25




## P33

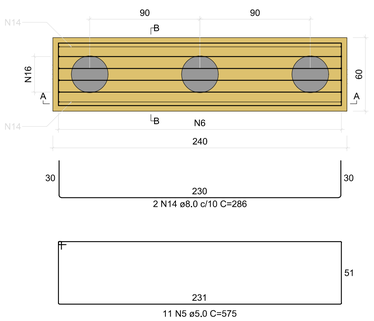



## P37

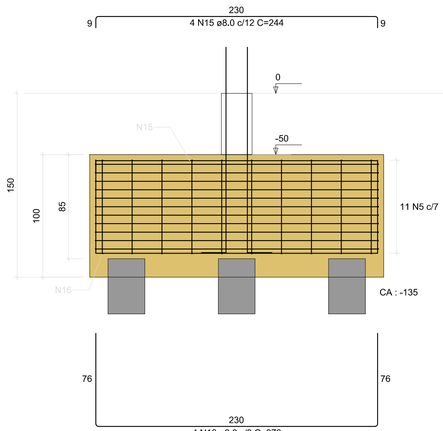



## B42
3xC30

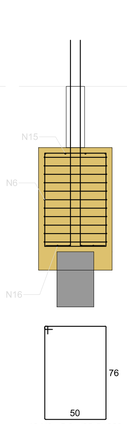
PLANTA
ESC 1:25



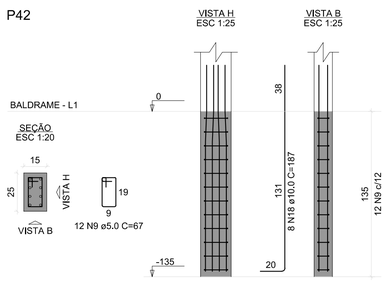

CORTE A-A
ESC 1:25




CORTE B-B
ESC 1:25




## P42




RELAÇÃO DO AÇO

2xB26 2xB37 B42
2xP24 P33 P37
P42

| AÇO | N | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 10 | 395 | 3950 |
| | 2 | 5.0 | 14 | 173 | 2422 |
| | 3 | 5.0 | 10 | 215 | 2150 |
| | 4 | 5.0 | 8 | 193 | 1544 |
| | 5 | 5.0 | 11 | 575 | 6325 |
| | 6 | 5.0 | 10 | 263 | 2630 |
| | 7 | 5.0 | 12 | 77 | 924 |
| | 8 | 5.0 | 8 | 59 | 472 |
| | 9 | 5.0 | 24 | 67 | 1608 |
| | 10 | 5.0 | 8 | 49 | 392 |
| CA50 | 11 | 8.0 | 4 | 196 | 784 |
| | 12 | 8.0 | 8 | 154 | 1232 |
| | 13 | 8.0 | 8 | 198 | 1584 |
| | 14 | 8.0 | 2 | 286 | 572 |
| | 15 | 8.0 | 4 | 244 | 976 |
| | 16 | 8.0 | 4 | 378 | 1512 |
| | 17 | 10.0 | 8 | 142 | 1136 |
| | 18 | 10.0 | 8 | 187 | 1496 |
| | 19 | 12.5 | 2 | 94 | 188 |
| | 20 | 16.0 | 8 | 172 | 1376 |

RESUMO DO AÇO

| AÇO | DIAM (mm) | C.TOTAL (m) | PESO + 10% (kg) |
|---|---|---|---|
| CA50 | 8.0 | 66.6 | 28.9 |
| | 10.0 | 26.3 | 17.8 |
| | 12.5 | 1.9 | 2 |
| | 16.0 | 13.8 | 23.9 |
| CA60 | 5.0 | 224.2 | 38 |

PESO TOTAL (kg)

| | |
|---|---|
| CA50 | 72.6 |
| CA60 | 38 |

Volume de concreto (C-25) = 2.91 m³
Área de forma = 15.84 m²

SAMIRNEDER
Engenheiro Civil
samirneder10@gmail.com

Proprietário: PREFEITURA MUNICIPAL DE SERRANIA

Projeto: ESTRUTURAL RAMPA ESCOLA MUN. PROF. ACEIR MIGUEL MOREIRA

Ref.: FUNDAÇÃO 01

Endereço: RUA DR, PLINIO COUTINHO, Nº 60 - CENTRO - SERRANIA - MG

Data: SET/2026

Autores: SAMIR ABDALA N. FERREIRA
Engenheiro Civil - CREA 240413/D - MG

Proprietário: PREF. MUN. DE SERRANIA
CNPJ:18.243.261/0001-06

Escala: 1/50

Folha: 04