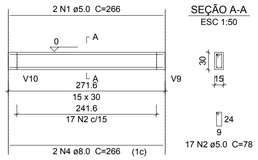
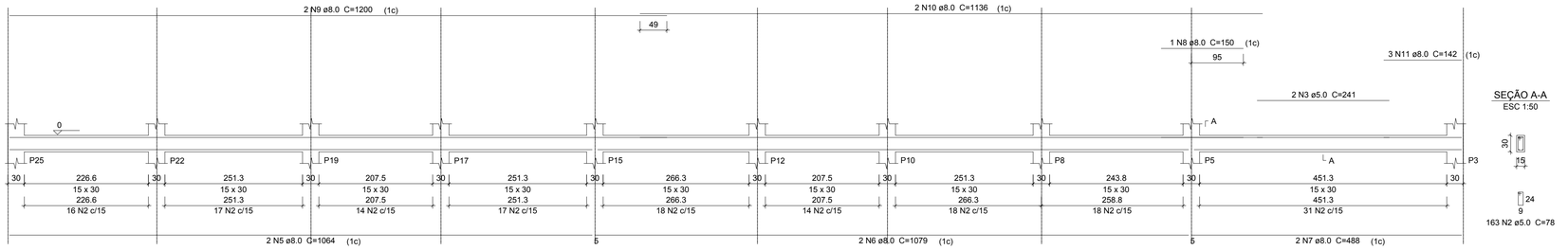
## V14
ESC 1:50




SEÇÃO A-A
ESC 1:50




## V15
ESC 1:50




SEÇÃO A-A
ESC 1:50




### Relação do aço
V14 V15

| AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 2 | 266 | 532 |
| | 2 | 5.0 | 180 | 78 | 14040 |
| | 3 | 5.0 | 2 | 241 | 482 |
| CA50 | 4 | 8.0 | 2 | 266 | 532 |
| | 5 | 8.0 | 2 | 1064 | 2128 |
| | 6 | 8.0 | 2 | 1079 | 2158 |
| | 7 | 8.0 | 2 | 488 | 976 |
| | 8 | 8.0 | 1 | 150 | 150 |
| | 9 | 8.0 | 2 | 1200 | 2400 |
| | 10 | 8.0 | 2 | 1136 | 2272 |
| | 11 | 8.0 | 3 | 142 | 426 |

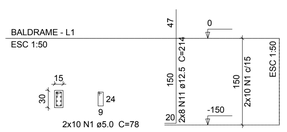
### Resumo do aço

| AÇO | DIAM | C.TOTAL (m) | PESO + 10 % (kg) |
|---|---|---|---|
| CA50 | 8.0 | 110.5 | 47.9 |
| CA60 | 5.0 | 150.6 | 25.5 |
| PESO TOTAL | | | |
| CA50 | 47.9 | | |
| CA60 | 25.5 | | |

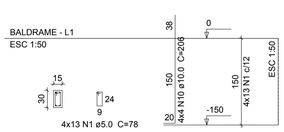
Vol. de concreto total (C-25) = 1.32 m³
Área de forma total = 21.96 m²

# 04 VIGAS BALDRAME
ESCALA: 1/50

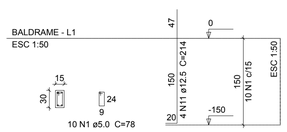
### P1=P3



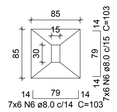

### P6=P8=P13=P15




### P22

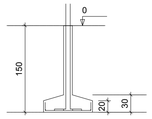



### S1=S3=S6=S8=S13=S15=S22
PLANTA
ESC 1:50




Solo com capacidade de suporte > 2.00 kgf/cm²

CORTE
ESC 1:50




### S2=S9=S10=S11=S12=S16=S17=S18=S19
PLANTA
ESC 1:50

CORTE
ESC 1:50

### Relação do aço
S10 S13 S14
S20

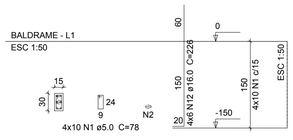
| AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 223 | 78 | 17394 |
| | 2 | 5.0 | 130 | 24 | 3120 |
| | 3 | 5.0 | 60 | 98 | 5880 |
| | 4 | 5.0 | 13 | 24 | 312 |
| | 5 | 5.0 | 10 | 24 | 240 |
| CA50 | 6 | 8.0 | 180 | 103 | 18540 |
| | 7 | 8.0 | 89 | 118 | 10502 |
| | 8 | 8.0 | 40 | 113 | 4520 |
| | 9 | 8.0 | 24 | 93 | 2232 |
| | 10 | 10.0 | 48 | 206 | 9888 |
| | 11 | 12.5 | 26 | 214 | 5564 |
| | 12 | 16.0 | 78 | 226 | 17628 |

### Resumo do aço

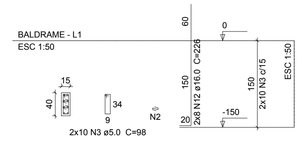
| AÇO | DIAM | C.TOTAL (m) | PESO + 10 % (kg) |
|---|---|---|---|
| CA50 | 8.0 | 358 | 155.4 |
| | 10.0 | 98.9 | 67.1 |
| | 12.5 | 55.7 | 59 |
| | 16.0 | 176.3 | 306.1 |
| CA60 | 5.0 | 269.5 | 45.7 |
| PESO TOTAL | | | |
| CA50 | 587.4 | | |
| CA60 | 45.7 | | |

Vol. de concreto total (C-25) = 6.69 m³
Área de forma total = 53.43 m²

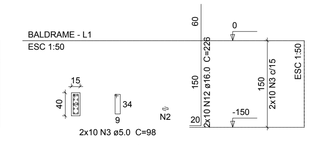
### P9=P10=P16=P17



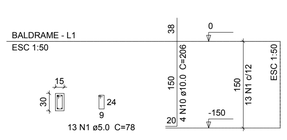

### P11=P12

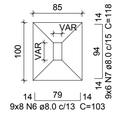



### P18=P19



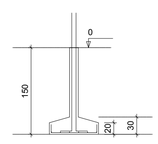

### P2



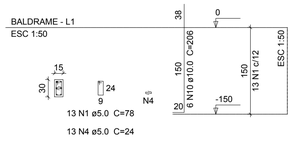




Solo com capacidade de suporte > 2.00 kgf/cm²

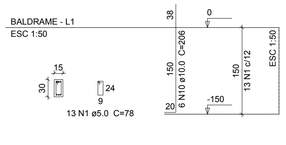
CORTE
ESC 1:50



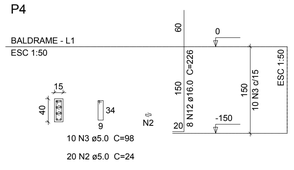

### P14



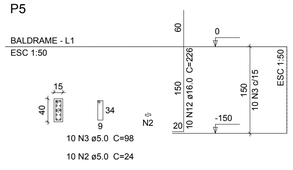

### P21



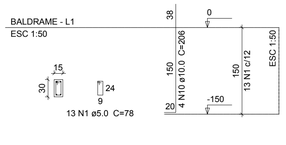

### P4



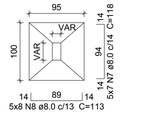

### P5




### P7

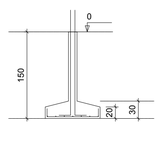



### S4=S5=S7=S14=S21
PLANTA
ESC 1:50

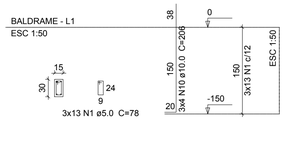



Solo com capacidade de suporte > 2.00 kgf/cm²

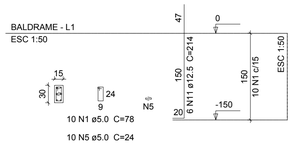
CORTE
ESC 1:50




### P20=P23=P24




### P25

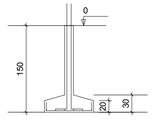



### S20=S23=S24=S25
PLANTA
ESC 1:50




Solo com capacidade de suporte > 2.00 kgf/cm²

CORTE
ESC 1:50




# 05 FUNDAÇÕES
ESCALA: 1/50

APROVAÇÃO:

Engeobra
CREA SC 158.454-0
ENGENHARIA E INFRAESTRUTURA


Rua Primo Tacca, 350, Bairro Tacca - Xanxerê- SC
E-mail:engenharia.engeobra@gmail.com Cel: (49) 9 9976-0226


OBRA:
AMPLIAÇÃO DE ESCOLA E CONSTRUÇÃO CEIM

LOCAL:
Rua Camargo - Distrito Diadema - Xanxerê/SC

PROJETO:
ESTRUTURAL

ESPECIFICAÇÕES:
- Vigas baldrame
- Fundações

AMPLIAÇÃO 01 - CEIM

DATA: 06/2021
DESENHO: T.L
ÁREA: 160,00 m²
ESCALA: Indicada
PRANCHA: 03 /07

Projeto:
Assinado de forma digital por ENGEOBRA ENGENHARIA E INFRAESTRUTURA EIRELI:26831579000128
Dados: 2021.06.17 16:14:16 -03'00'
SAMUEL SPESSATTO OUTEIRO
Engº Civil- CREA SC 133319-7

Proprietário:
PREFEITURA MUNICIPAL DE XAXIM
CNPJ:82.854.670/0001-30