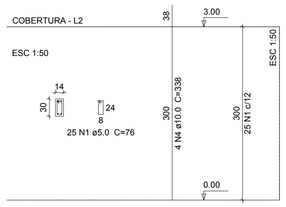
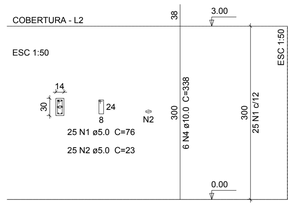
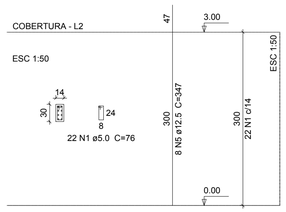
P1=P2=P3=P4=P5=P6=P7=P13=P14=P17=P20 =P21=P22=P24=P25=P26=P27=P28=P32=P34 =P35=P36=P37=P38=P39




P8=P9=P18=P23=P29=P30




P10=P33




Relação do aço

25xP1 6xP8 2xP10
3xP11 2xP12 P31

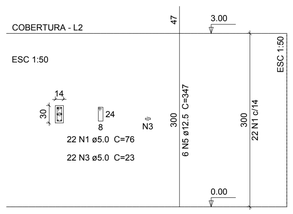
| AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 957 | 76 | 72732 |
| | 2 | 5.0 | 150 | 23 | 3450 |
| | 3 | 5.0 | 66 | 23 | 1518 |
| CA50 | 4 | 10.0 | 152 | 338 | 51376 |
| | 5 | 12.5 | 38 | 347 | 13186 |

Resumo do aço

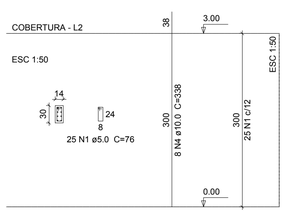
| AÇO | DIAM | C.TOTAL (m) | PESO + 10 % (kg) |
|---|---|---|---|
| CA50 | 10.0 | 513.8 | 348.4 |
| | 12.5 | 131.9 | 139.7 |
| CA60 | 5.0 | 777 | 131.7 |
| PESO TOTAL | | | |
| CA50 | 488.2 | | |
| CA60 | 131.7 | | |

Vol. de concreto total (C-25) = 4.91 m³
Área de forma total = 102.96 m²

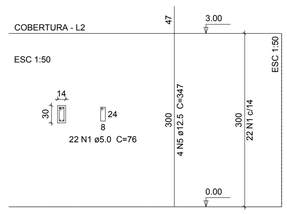
P11=P16=P19




P12=P15

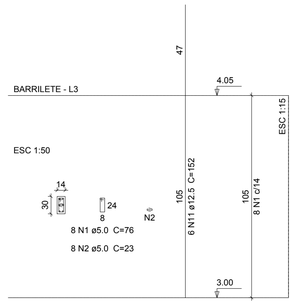



P31

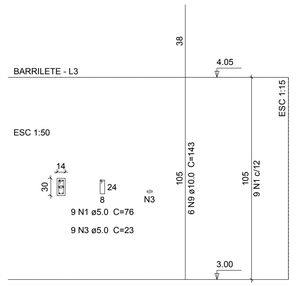



## 07 PILARES
ESCALA: 1/50

P16=P40=P41




P23




Relação do aço

Barrilete: 3xP16 P23
Reservatório: 3xP16 P23
V1 V2
V3 V4

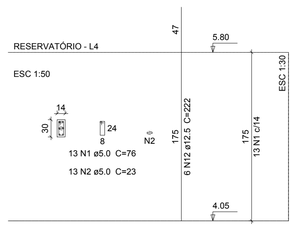
| AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 173 | 76 | 13148 |
| | 2 | 5.0 | 63 | 23 | 1449 |
| | 3 | 5.0 | 24 | 23 | 552 |
| CA50 | 4 | 8.0 | 4 | 336 | 1344 |
| | 5 | 8.0 | 4 | 354 | 1416 |
| | 6 | 8.0 | 4 | 386 | 1544 |
| | 7 | 8.0 | 2 | 429 | 858 |
| | 8 | 8.0 | 2 | 426 | 852 |
| | 9 | 10.0 | 6 | 143 | 858 |
| | 10 | 10.0 | 6 | 213 | 1278 |
| | 11 | 12.5 | 18 | 152 | 2736 |
| | 12 | 12.5 | 18 | 222 | 3996 |

Resumo do aço

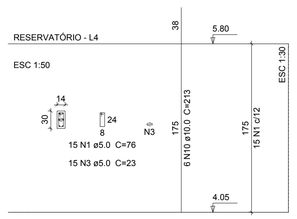
| AÇO | DIAM | C.TOTAL (m) | PESO + 10 % (kg) |
|---|---|---|---|
| CA50 | 8.0 | 60.2 | 26.1 |
| | 10.0 | 21.4 | 14.5 |
| | 12.5 | 67.4 | 71.3 |
| CA60 | 5.0 | 151.5 | 25.7 |
| PESO TOTAL | | | |
| CA50 | 111.9 | | |
| CA60 | 25.7 | | |

Vol. de concreto total (C-25) = 1.07 m³
Área de forma total = 20.47 m²

P16=P40=P41

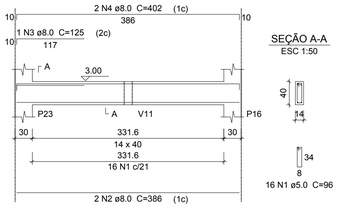



P23




## 08 PILARES RESERVATÓRIO
ESCALA: 1/50

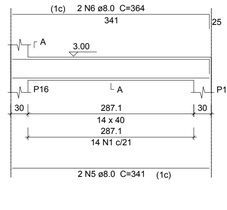
V48
ESC 1:50



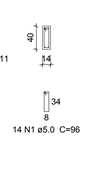

SEÇÃO A-A
ESC 1:50



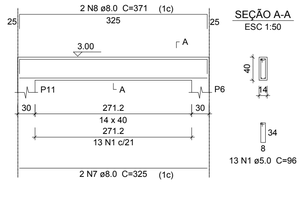

V49
ESC 1:50




SEÇÃO A-A
ESC 1:50




V50
ESC 1:50




SEÇÃO A-A
ESC 1:50




Relação do aço

V48 V49 V50

| AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 43 | 96 | 4128 |
| CA50 | 2 | 8.0 | 2 | 386 | 772 |
| | 3 | 8.0 | 1 | 125 | 125 |
| | 4 | 8.0 | 2 | 402 | 804 |
| | 5 | 8.0 | 2 | 341 | 682 |
| | 6 | 8.0 | 2 | 364 | 728 |
| | 7 | 8.0 | 2 | 325 | 650 |
| | 8 | 8.0 | 2 | 371 | 742 |

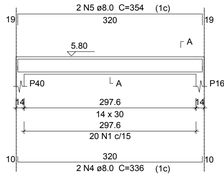
Resumo do aço

| AÇO | DIAM | C.TOTAL (m) | PESO + 10 % (kg) |
|---|---|---|---|
| CA50 | 8.0 | 45.1 | 19.5 |
| CA60 | 5.0 | 41.3 | 7 |
| PESO TOTAL | | | |
| CA50 | 19.5 | | |
| CA60 | 7 | | |

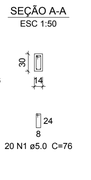
Vol. de concreto total (C-25) = 0.6 m³
Área de forma total = 10.06 m²

## 09 VIGAS COBERTURA
ESCALA: 1/50

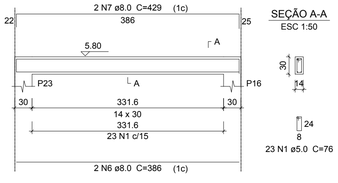
V1
ESC 1:50




SEÇÃO A-A
ESC 1:50



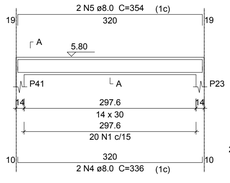

V2
ESC 1:50



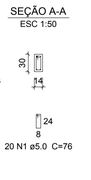

SEÇÃO A-A
ESC 1:50



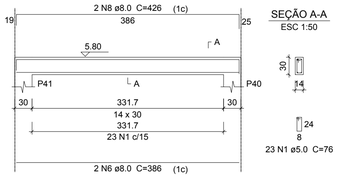

V3
ESC 1:50




SEÇÃO A-A
ESC 1:50



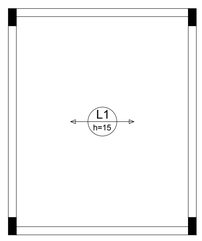

V4
ESC 1:50




SEÇÃO A-A
ESC 1:50




## 10 VIGAS DO RESERVATÓRIO
ESCALA: 1/50




Armação positiva das lajes do pavimento Reservatório (Eixo X)




Planta de vigotas pré-moldadas

## 11 LAJE RESERVATÓRIO
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:
CONSTRUÇÃO CEIM - AMPLIAÇÃO 01

LOCAL:
Vila Diadema

PROJETO:
ESTRUTURAL

ESPECIFICAÇÕES:
- Pilares
- Pilares Reservatório
- Vigas de cobertura
- Vigas Reservatório
- Laje Reservatório

DATA: 04/2021
DESENHO: T.L
ÁREA: 367,97 m²
ESCALA: Indicada
PRANCHA: 07 /10

Projeto:
Assinado de forma digital por ENGEOBRA ENGENHARIA E INFRAESTRUTURA EIRELI:26831579000128
Dados: 2021.06.17 16:18:25 -03'00'
SAMUEL SPESSATTO OUTEIRO
Engº Civil- CREA SC 133319-7

Proprietário:
PREFEITURA MUNICIPAL DE XAXIM