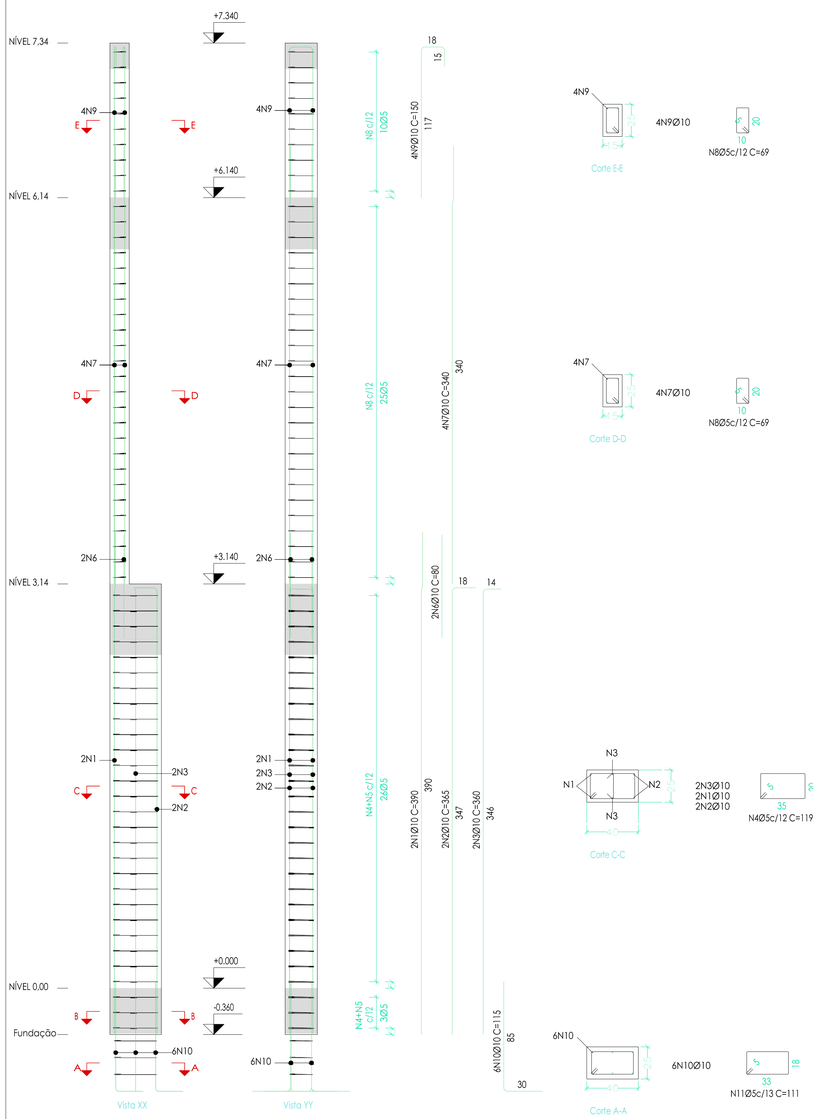
## P10=P13=P16

| Pos. | Diam. | Q. | Comp. (cm) | Total (cm) | x 3 (cm) |
|---|---|---|---|---|---|
| 1 | Ø10 | 2 | 390 | 780 | 2340 |
| 2 | Ø10 | 2 | 365 | 730 | 2190 |
| 3 | Ø10 | 2 | 360 | 720 | 2160 |
| 4 | Ø5 | 29 | 119 | 3451 | 10353 |
| 5 | Ø5 | 29 | 32 | 928 | 2784 |
| 6 | Ø10 | 2 | 80 | 160 | 480 |
| 7 | Ø10 | 4 | 340 | 1360 | 4080 |
| 8 | Ø5 | 35 | 69 | 2415 | 7245 |
| 9 | Ø10 | 4 | 150 | 600 | 1800 |
| 10 | Ø10 | 6 | 115 | 690 | 2070 |
| 11 | Ø5 | 3 | 111 | 333 | 999 |









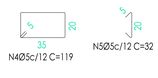








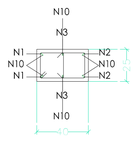


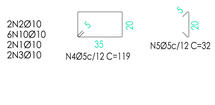








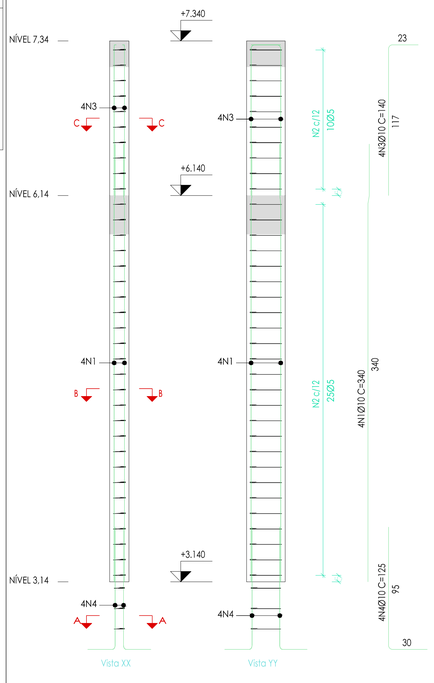



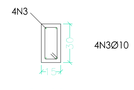

Escala 1:20

| Planta | Dimensão (cm) | Concreto Tipo: C25, em geral Cobrimento: 2,5 cm Volume (m3) | Concreto Fôrmas (m2) | Armaduras CA-50 e CA-60 Longitudinal (kg) | Armaduras CA-50 e CA-60 Estribos (kg) | Armaduras CA-50 e CA-60 Total +10 % (kg) | Taxa (kg/m3) |
|---|---|---|---|---|---|---|---|
| NÍVEL 7,34 | 15x25 | 0,05 | 0,96 | 3,7 | 1,1 | 5,3 | 106,67 |
| NÍVEL 6,14 | | 0,11 | 2,40 | 8,4 | 2,7 | 12,2 | 98,67 |
| NÍVEL 3,14 | 40x25 | 0,31 | 4,08 | 1,0 | 6,2 | 7,9 | 22,93 |
| NÍVEL 0,00 | | 0,04 | 0,47 | 13,7 | 0,7 | 15,8 | 400,00 |
| Total (x3) | | 1,52 | 23,73 | 80,4 | 32,0 | 123,6 | 73,89 |

## P29=P34

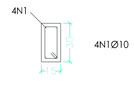
| Pos. | Diam. | Q. | Comp. (cm) | Total (cm) | x 2 (cm) |
|---|---|---|---|---|---|
| 1 | Ø10 | 4 | 340 | 1360 | 2720 |
| 2 | Ø5 | 35 | 79 | 2765 | 5530 |
| 3 | Ø10 | 4 | 140 | 560 | 1120 |
| 4 | Ø10 | 4 | 125 | 500 | 1000 |
| 5 | Ø5 | 3 | 73 | 219 | 438 |



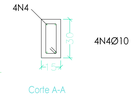


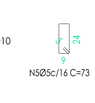











Escala 1:20

| Planta | Dimensão (cm) | Concreto Tipo: C25, em geral Cobrimento: 2,5 cm Volume (m3) | Concreto Fôrmas (m2) | Armaduras CA-50 e CA-60 Longitudinal (kg) | Armaduras CA-50 e CA-60 Estribos (kg) | Armaduras CA-50 e CA-60 Total +10 % (kg) | Taxa (kg/m3) |
|---|---|---|---|---|---|---|---|
| NÍVEL 7,34 | 15x30 | 0,05 | 1,08 | 3,5 | 1,2 | 5,2 | 87,04 |
| NÍVEL 6,14 | | 0,14 | 2,70 | 8,4 | 3,1 | 12,7 | 85,19 |
| Total (x2) | | 0,38 | 7,56 | 23,7 | 8,7 | 35,8 | 85,71 |

| Elemento | Pos. | Diam. | Q. | Dob. (cm) | Reta (cm) | Dob. (cm) | Comp. (cm) | Total (cm) | CA-50 (kg) | CA-60 (kg) |
|---|---|---|---|---|---|---|---|---|---|---|
| P10=P13=P16 | 1 | Ø10 | 2 | | | | 390 | 780 | 4.8 | |
| | 2 | Ø10 | 2 | | | | 365 | 730 | 4.5 | |
| | 3 | Ø10 | 2 | | | | 360 | 720 | 4.4 | |
| | 4 | Ø5 | 29 | | | | 119 | 3451 | | 5.4 |
| | 5 | Ø5 | 29 | | | | 32 | 928 | | 1.5 |
| | 6 | Ø10 | 2 | | | | 80 | 160 | 1.0 | |
| | 7 | Ø10 | 4 | | | | 340 | 1360 | 8.4 | |
| | 8 | Ø5 | 35 | | | | 69 | 2415 | | 3.8 |
| | 9 | Ø10 | 4 | | | | 150 | 600 | 3.7 | |
| | 10 | Ø10 | 6 | | | | 115 | 690 | 4.3 | |
| | 11 | Ø5 | 3 | | | | 111 | 333 | | 0.5 |
| | | | | | | | | Total+10%: | 34.2 | 12.3 |
| | | | | | | | | (x3): | 102.6 | 36.9 |
| P29=P34 | 1 | Ø10 | 4 | | | | 340 | 1360 | 8.4 | |
| | 2 | Ø5 | 35 | | | | 79 | 2765 | | 4.3 |
| | 3 | Ø10 | 4 | | | | 140 | 560 | 3.5 | |
| | 4 | Ø10 | 4 | | | | 125 | 500 | 3.1 | |
| | 5 | Ø5 | 3 | | | | 73 | 219 | | 0.3 |
| | | | | | | | | Total+10%: | 16.5 | 5.1 |
| | | | | | | | | (x2): | 33.0 | 10.2 |
| | | | | | | | | Ø5: | 0.0 | 47.1 |
| | | | | | | | | Ø10: | 135.6 | 0.0 |
| | | | | | | | | Total: | 135.6 | 47.1 |

CSPB - BARBAGALLO

GIULIANO BARBAGALLO
ENGENHEIRO CIVIL CREA 5069067476
ROD. TANCREDO NEVES, 1940 CAPIM AZEDO-IBIUNA/SP FONE: 15 - 99793-0613

GIULIANO BARBAGALLO :30197886841

Assinado de forma digital por GIULIANO BARBAGALLO:30197886841
Dados: 2026.03.31 10:14:03 -03'00'

| | | | |
|---|---|---|---|
| ASSUNTO | PILARES | | ART: 2620260778629 |
| PROPRIETÁRIO | CAMARA MUNICIPAL DA ESTANCIA TURISTICA DE IBIUNA | | |
| ESCALA | INDICADAS | DATA 02/2026 | DES. GIULIANO / FL. 07/19 |