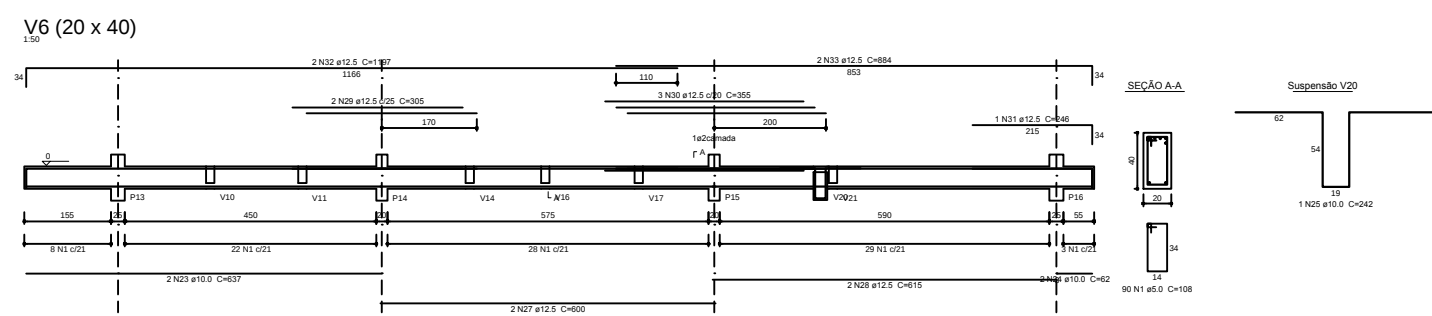
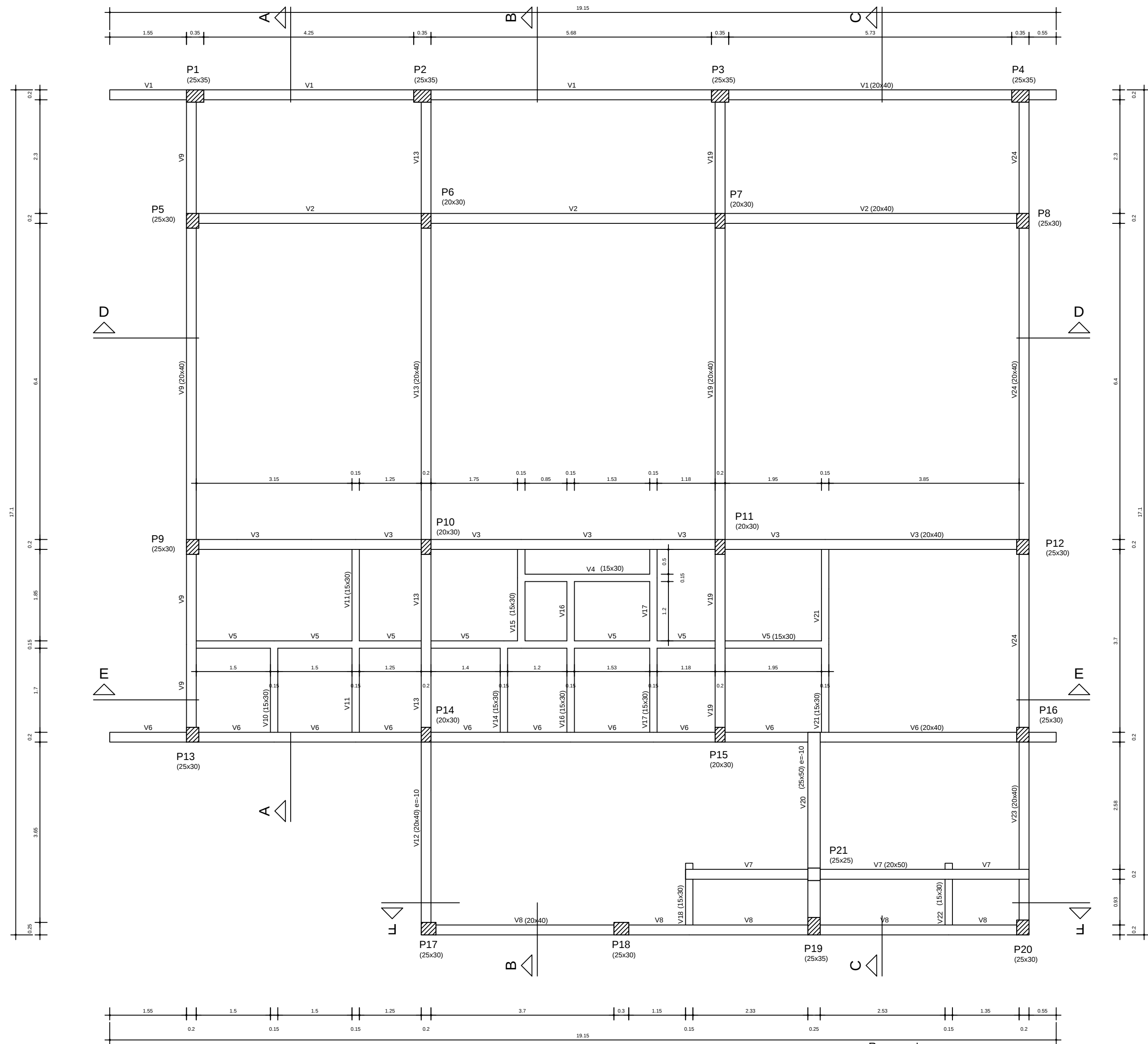


| Relação do aço |    |      |     |      |         |  |  |  |  |
|----------------|----|------|-----|------|---------|--|--|--|--|
| ACO            | N  | DIAM | Q   | UNIT | C.TOTAL |  |  |  |  |
| CA50           | 1  | 5,0  | 336 | 350  | 30000   |  |  |  |  |
| CA50           | 2  | 5,0  | 336 | 350  | 30000   |  |  |  |  |
| CA50           | 3  | 5,0  | 336 | 350  | 30000   |  |  |  |  |
| CA50           | 4  | 5,0  | 336 | 350  | 30000   |  |  |  |  |
| CA50           | 5  | 10,0 | 7   | 622  | 4354    |  |  |  |  |
| CA50           | 6  | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 7  | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 8  | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 9  | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 10 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 11 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 12 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 13 | 10,0 | 4   | 1077 | 4308    |  |  |  |  |
| CA50           | 14 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 15 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 16 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 17 | 10,0 | 3   | 1000 | 3000    |  |  |  |  |
| CA50           | 18 | 10,0 | 1   | 180  | 600     |  |  |  |  |
| CA50           | 19 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 20 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 21 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 22 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 23 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 24 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 25 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 26 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50           | 27 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50           | 28 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50           | 29 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50           | 30 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50           | 31 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50           | 32 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50           | 33 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50           | 34 | 16,0 | 2   | 1007 | 2112    |  |  |  |  |

| Resumo do aço |    |      |     |      |         |  |  |  |  |
|---------------|----|------|-----|------|---------|--|--|--|--|
| ACO           | N  | DIAM | Q   | UNIT | C.TOTAL |  |  |  |  |
| CA50          | 1  | 5,0  | 336 | 350  | 30000   |  |  |  |  |
| CA50          | 2  | 5,0  | 336 | 350  | 30000   |  |  |  |  |
| CA50          | 3  | 5,0  | 336 | 350  | 30000   |  |  |  |  |
| CA50          | 4  | 5,0  | 336 | 350  | 30000   |  |  |  |  |
| CA50          | 5  | 10,0 | 7   | 622  | 4354    |  |  |  |  |
| CA50          | 6  | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 7  | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 8  | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 9  | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 10 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 11 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 12 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 13 | 10,0 | 4   | 1077 | 4308    |  |  |  |  |
| CA50          | 14 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 15 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 16 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 17 | 10,0 | 3   | 1000 | 3000    |  |  |  |  |
| CA50          | 18 | 10,0 | 1   | 180  | 600     |  |  |  |  |
| CA50          | 19 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 20 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 21 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 22 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 23 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 24 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 25 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50          | 26 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50          | 27 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50          | 28 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50          | 29 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50          | 30 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50          | 31 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50          | 32 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50          | 33 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50          | 34 | 16,0 | 2   | 1007 | 2112    |  |  |  |  |

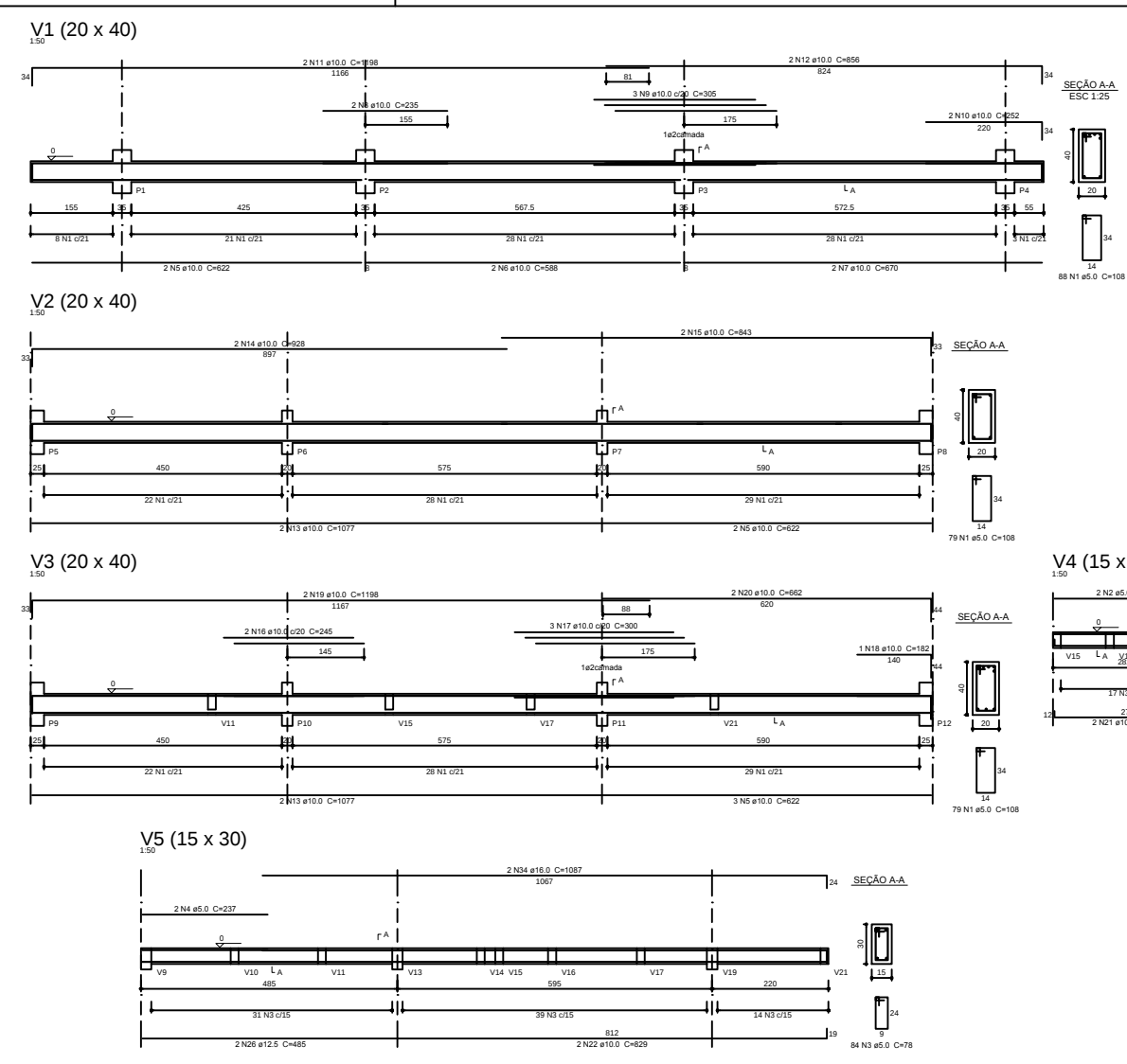


Forma do pavimento FUNDACAO escala 1:50

| Legenda dos Pilares |                            |  |  |
|---------------------|----------------------------|--|--|
| ■                   | Pilar que morre            |  |  |
| ▨                   | Pilar que passa            |  |  |
| ▩                   | Pilar que nasce            |  |  |
| ▧                   | Pilar com mudança de seção |  |  |

| Características dos Materiais |               |               |  |
|-------------------------------|---------------|---------------|--|
|                               | Fck (kgf/cm²) | Ecs (kgf/cm²) |  |
| CA50                          | 50,0          | 21207,4       |  |

| Resumo do aço                          |      |             |                 |
|----------------------------------------|------|-------------|-----------------|
| ACO                                    | DIAM | C.TOTAL (m) | PESO + 10% (kg) |
| CA50                                   | 10,0 | 299         | 202,8           |
| CA50                                   | 12,5 | 94,9        | 100,5           |
| CA50                                   | 16,0 | 21,8        | 37,7            |
| CA50                                   | 5,0  | 452         | 76,6            |
| PESO TOTAL                             |      |             |                 |
| CA50                                   | 341  |             |                 |
| CA60                                   | 78,6 |             |                 |
| Vol. de concreto total (C-20) = 6,5 m³ |      |             |                 |
| Área de forma total = 94,27 m²         |      |             |                 |



| Relação do aço |    |      |     |      |         |  |  |  |  |
|----------------|----|------|-----|------|---------|--|--|--|--|
| ACO            | N  | DIAM | Q   | UNIT | C.TOTAL |  |  |  |  |
| CA50           | 1  | 5,0  | 336 | 350  | 30000   |  |  |  |  |
| CA50           | 2  | 5,0  | 336 | 350  | 30000   |  |  |  |  |
| CA50           | 3  | 5,0  | 336 | 350  | 30000   |  |  |  |  |
| CA50           | 4  | 5,0  | 336 | 350  | 30000   |  |  |  |  |
| CA50           | 5  | 10,0 | 7   | 622  | 4354    |  |  |  |  |
| CA50           | 6  | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 7  | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 8  | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 9  | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 10 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 11 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 12 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 13 | 10,0 | 4   | 1077 | 4308    |  |  |  |  |
| CA50           | 14 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 15 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 16 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 17 | 10,0 | 3   | 1000 | 3000    |  |  |  |  |
| CA50           | 18 | 10,0 | 1   | 180  | 600     |  |  |  |  |
| CA50           | 19 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 20 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 21 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 22 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 23 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 24 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 25 | 10,0 | 2   | 670  | 1340    |  |  |  |  |
| CA50           | 26 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50           | 27 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50           | 28 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50           | 29 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50           | 30 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50           | 31 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50           | 32 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50           | 33 | 12,5 | 2   | 485  | 970     |  |  |  |  |
| CA50           | 34 | 16,0 | 2   | 1007 | 2112    |  |  |  |  |

| Relação do aço |    |      |     |
|----------------|----|------|-----|
| ACO            | N  | DIAM | Q   |
| CA50           | 1  | 5,0  | 336 |
| CA50           | 2  | 5,0  | 336 |
| CA50           | 3  | 5,0  | 336 |
| CA50           | 4  | 5,0  | 336 |
| CA50           | 5  | 10,0 | 7   |
| CA50           | 6  | 10,0 | 2   |
| CA50           | 7  | 10,0 | 2   |
| CA50           | 8  | 10,0 | 2   |
| CA50           | 9  | 10,0 | 2   |
| CA50           | 10 | 10,0 | 2   |
| CA50           | 11 | 10,0 | 2   |
| CA50           | 12 | 10,0 | 2   |
| CA50           | 13 | 10,0 | 4   |
| CA50           | 14 | 10,0 | 2   |
| CA50           | 15 | 10,0 | 2   |
| CA50           | 16 | 10,0 | 2   |
| CA50           | 17 | 10,0 | 3   |
| CA50           | 18 | 10,0 | 1   |
| CA50           | 19 | 10,0 | 2   |
| CA50           | 20 | 10,0 | 2   |
| CA50           | 21 | 10,0 | 2   |
| CA50           | 22 | 10,0 | 2   |
| CA50           | 23 | 10,0 | 2   |
| CA50           | 24 | 10,0 | 2   |
| CA50           | 25 | 10,0 | 2   |
| CA50           | 26 | 12,5 | 2   |
| CA50           | 27 | 12,5 | 2   |
| CA50           | 28 | 12,5 | 2   |
| CA50           | 29 | 12,5 | 2   |
| CA50           | 30 | 12,5 | 2   |
| CA50           | 31 | 12,5 | 2   |
| CA50           | 32 | 12,5 | 2   |
| CA50           | 33 | 12,5 | 2   |
| CA50           | 34 | 16,0 | 2   |

IFF – UEP URUGUAIANA / LANCHERIA

PROJETO ESTRUTURAL

Pl. Formas e Detalham. Baldrame

Proprietário: IFF-UEP Uruguaiana</