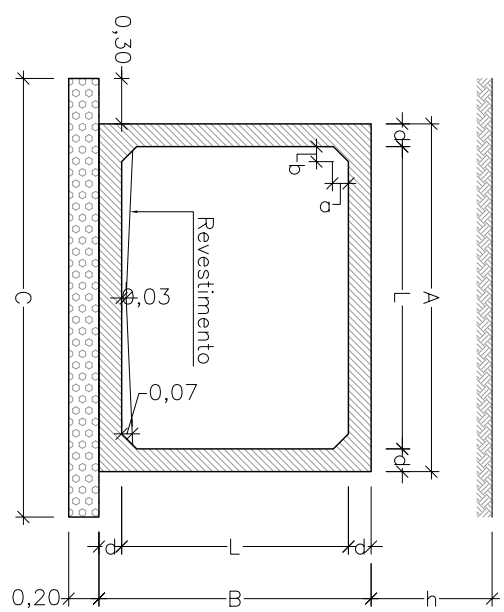
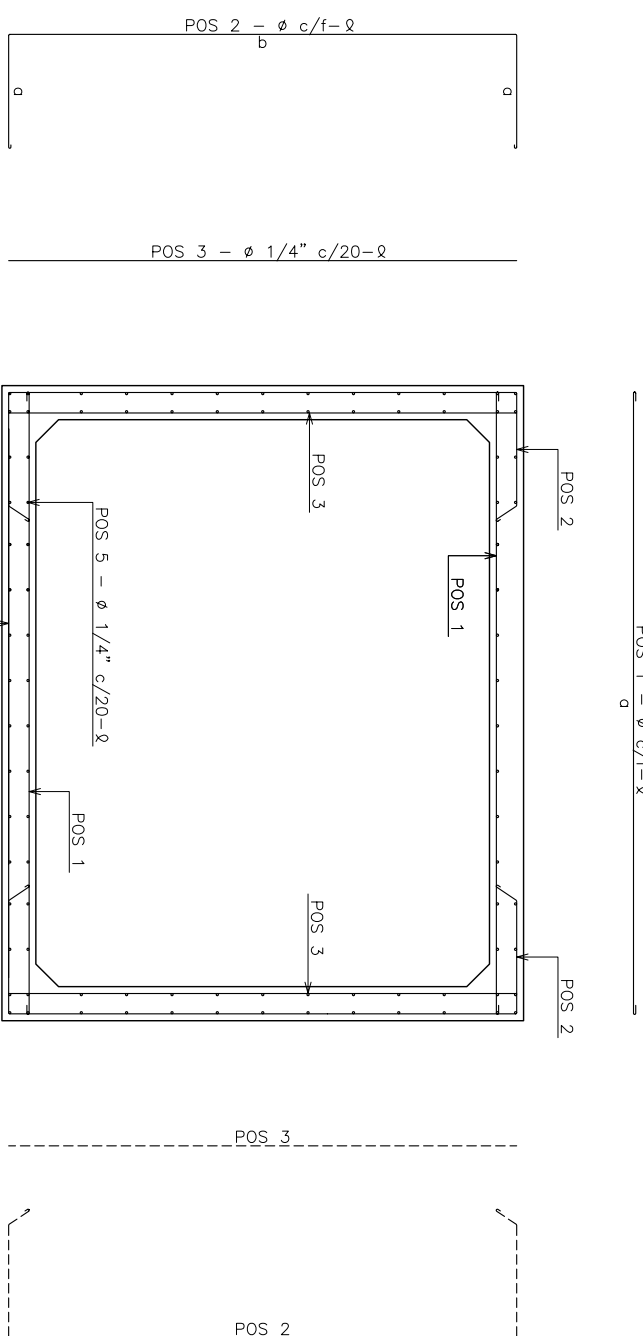
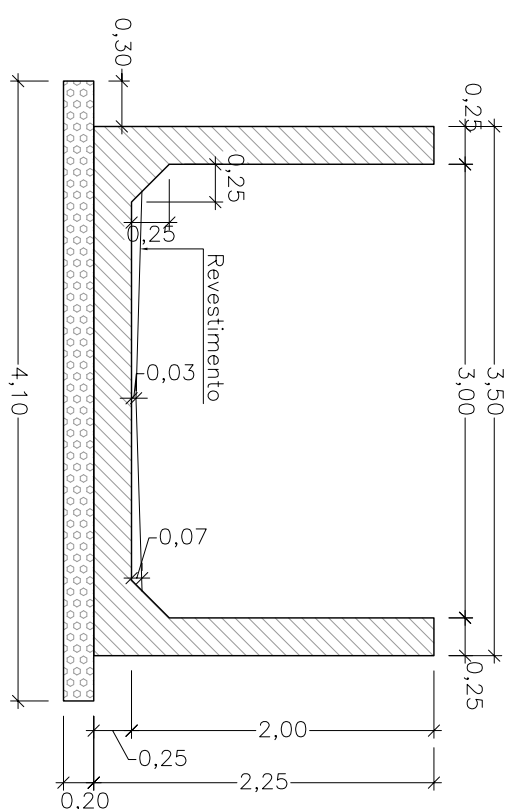
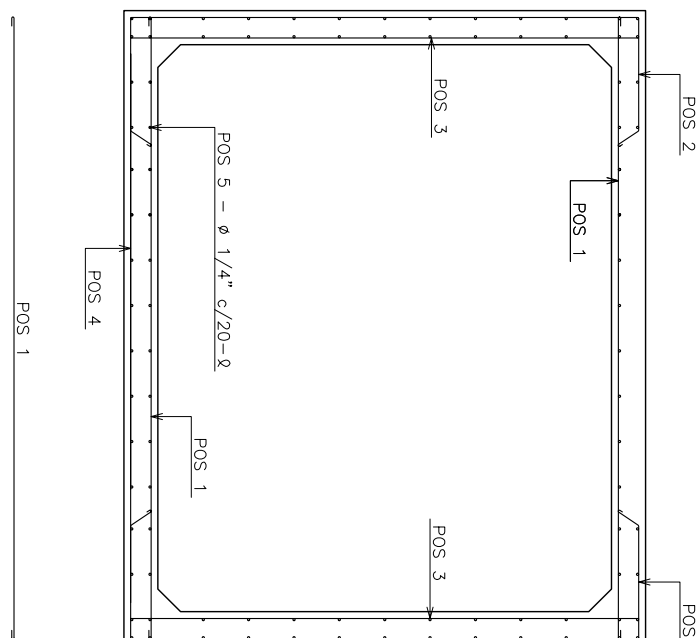


PLANTA DE FORMA DO CORPO
BUEIROS RETANGULAR SIMPLES
Esc. 1/50

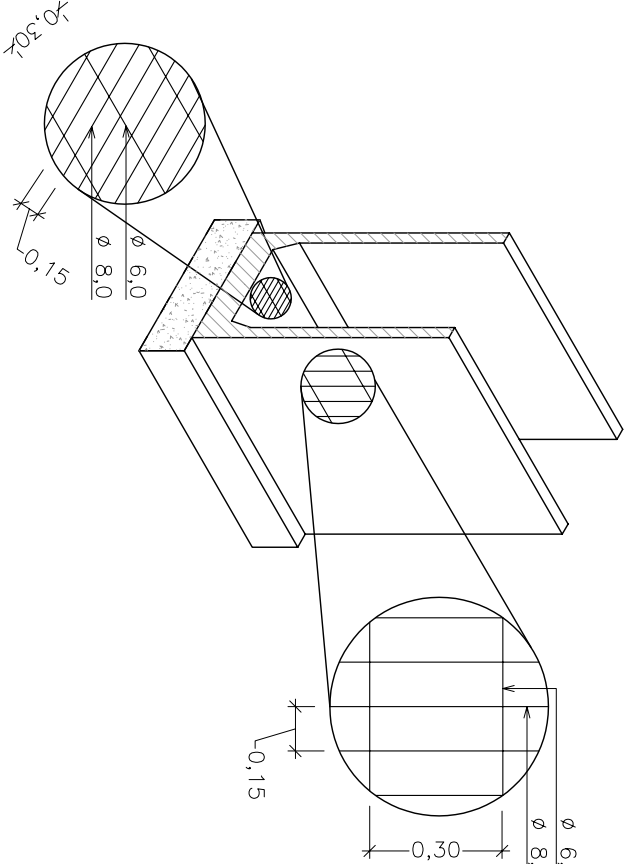
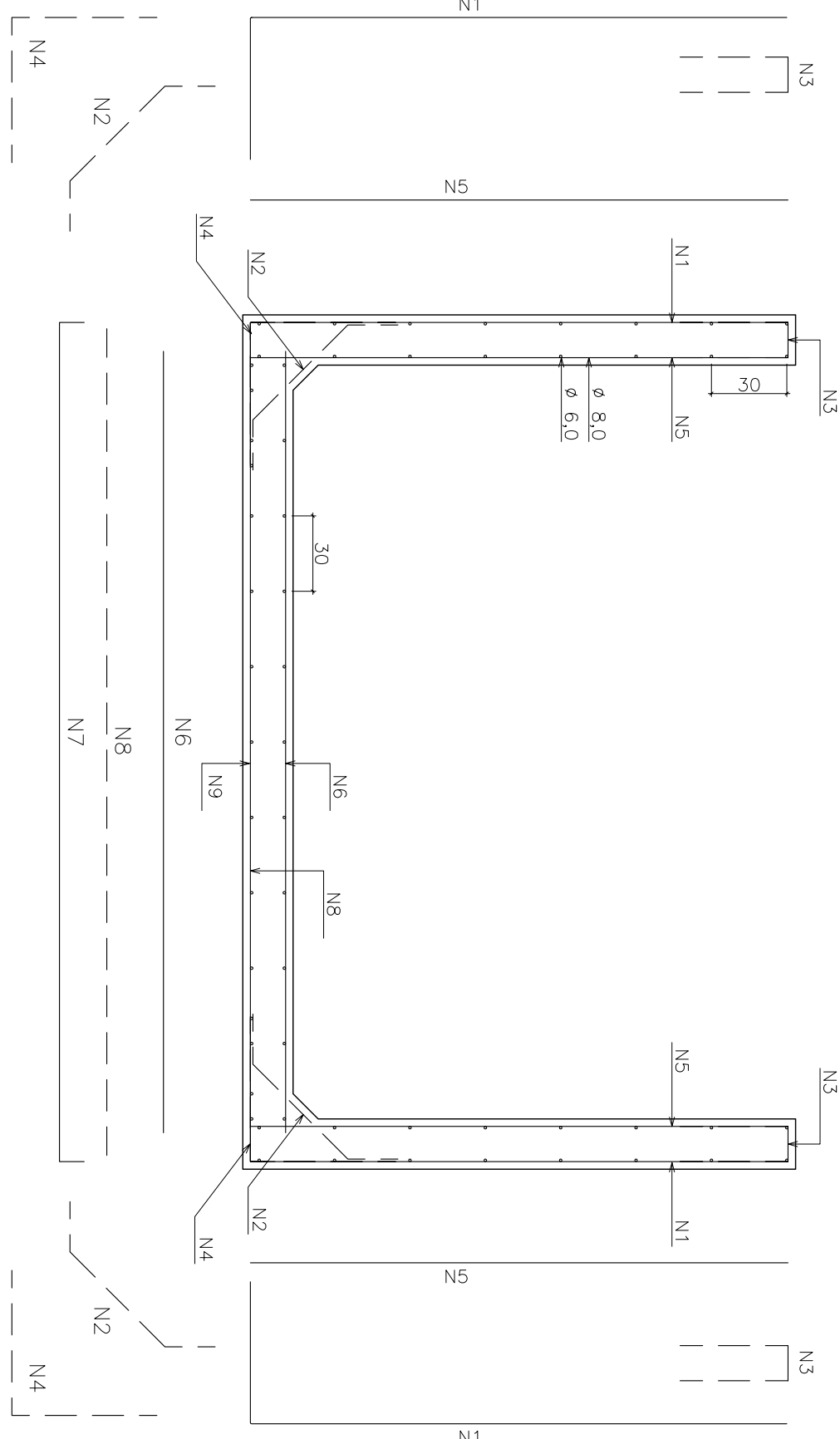
[illegible]

| ANÁLISE DO CORPO DE BUEIRO: CELULAS SIMPLES – BSCC – MÓDULO POR METRO LINEAR | | | | | | | |
|--|----|------------------------|------|--------|--------|-------------------------|-----|
| ALURA DO TERRENO 0,80m ≤ HA ≤ 2,50m | MA | TABELA DE COMPLEMENTOS | | | | MÓDULO POR METRO LINEAR | |
| | | PROFUND. | a | t (cm) | b (cm) | g (m) | h |
| | | | 1/2" | 11,50 | 3,34 | 3,57 | 0 |
| | | 1 | 1/2" | 15,00 | 0,08 | 2,34 | 14 |
| | | 2 | 1/2" | 15,00 | 0,08 | 4,29 | 14 |
| | | 3 | 1/2" | 20,00 | – | 2,34 | 10 |
| | | 4 | 1/2" | 20,00 | – | 2,34 | 10 |
| | | 5 | 1/4" | 20,00 | – | 2,34 | 10 |
| | | 6 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 7 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 8 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 9 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 10 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 11 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 12 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 13 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 14 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 15 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 16 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 17 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 18 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 19 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 20 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 21 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 22 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 23 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 24 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 25 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 26 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 27 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 28 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 29 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 30 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 31 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 32 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 33 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 34 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 35 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 36 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 37 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 38 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 39 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 40 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 41 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 42 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 43 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 44 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 45 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 46 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 47 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 48 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 49 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 50 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 51 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 52 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 53 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 54 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 55 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 56 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 57 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 58 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 59 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 60 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 61 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 62 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 63 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 64 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 65 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 66 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 67 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 68 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 69 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 70 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 71 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 72 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 73 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 74 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 75 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 76 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 77 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 78 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 79 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 80 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 81 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 82 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 83 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 84 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 85 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 86 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 87 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 88 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 89 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 90 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 91 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 92 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 93 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 94 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 95 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 96 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 97 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 98 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 99 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 100 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 101 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 102 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 103 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 104 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 105 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 106 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 107 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 108 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 109 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 110 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 111 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 112 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 113 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 114 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 115 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 116 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 117 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 118 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 119 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 120 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 121 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 122 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 123 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 124 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 125 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 126 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 127 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 128 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 129 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 130 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 131 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 132 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 133 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 134 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 135 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 136 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 137 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 138 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 139 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 140 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 141 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 142 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 143 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 144 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 145 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 146 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 147 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 148 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 149 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 150 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 151 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 152 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 153 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 154 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 155 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 156 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 157 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 158 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 159 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 160 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 161 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 162 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 163 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 164 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 165 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 166 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 167 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 168 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 169 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 170 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 171 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 172 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 173 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 174 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 175 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 176 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 177 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 178 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 179 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 180 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 181 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 182 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 183 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 184 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 185 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 186 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 187 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 188 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 189 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 190 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 191 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 192 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 193 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 194 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 195 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 196 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 197 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 198 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 199 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 200 | 1/4" | 20,00 | – | 1,00 | 100 |
| | | 201 | 1/4" | 20,00 | – | 1,00 | 100 |
| | </ | | | | | | |

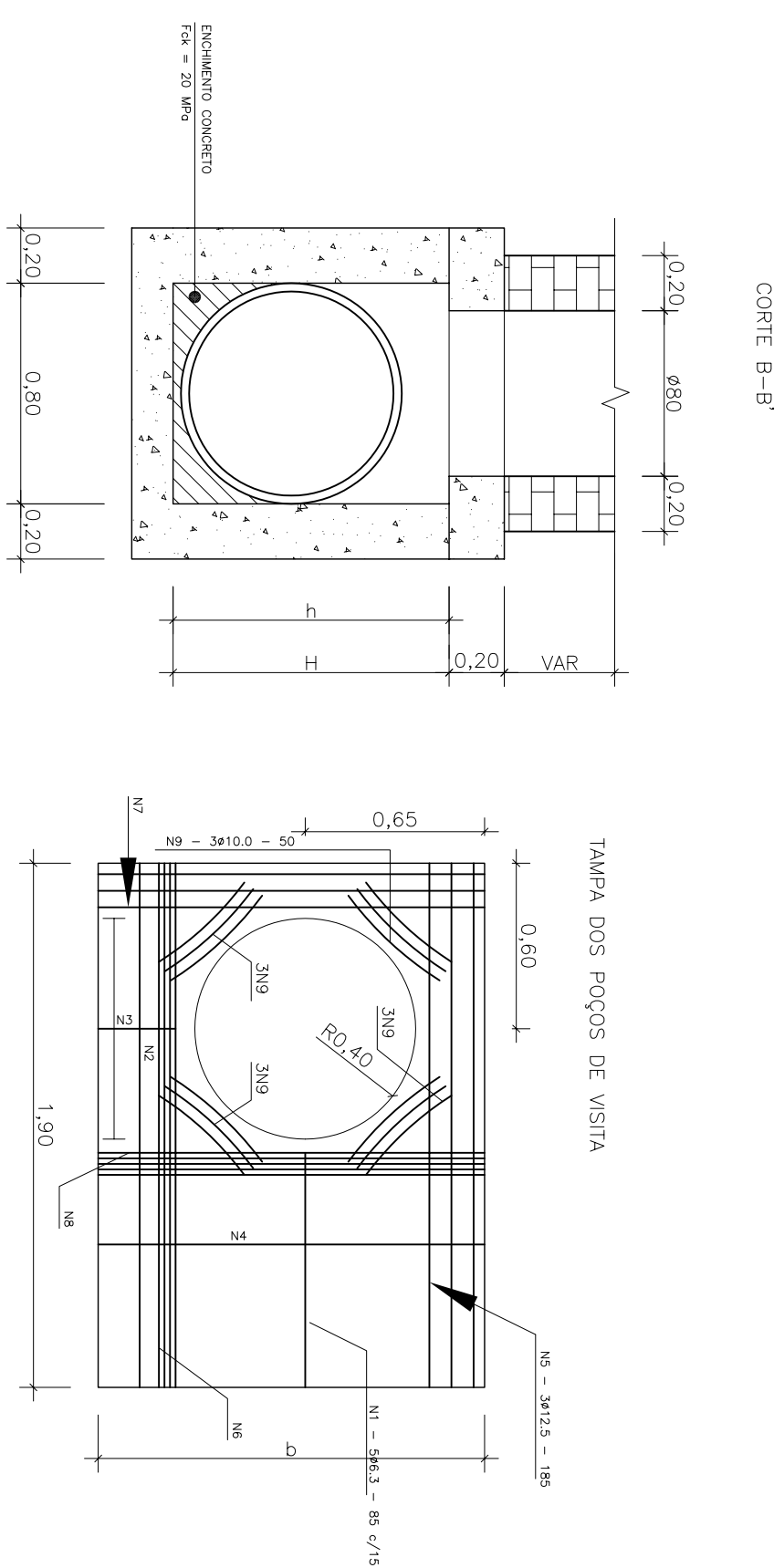
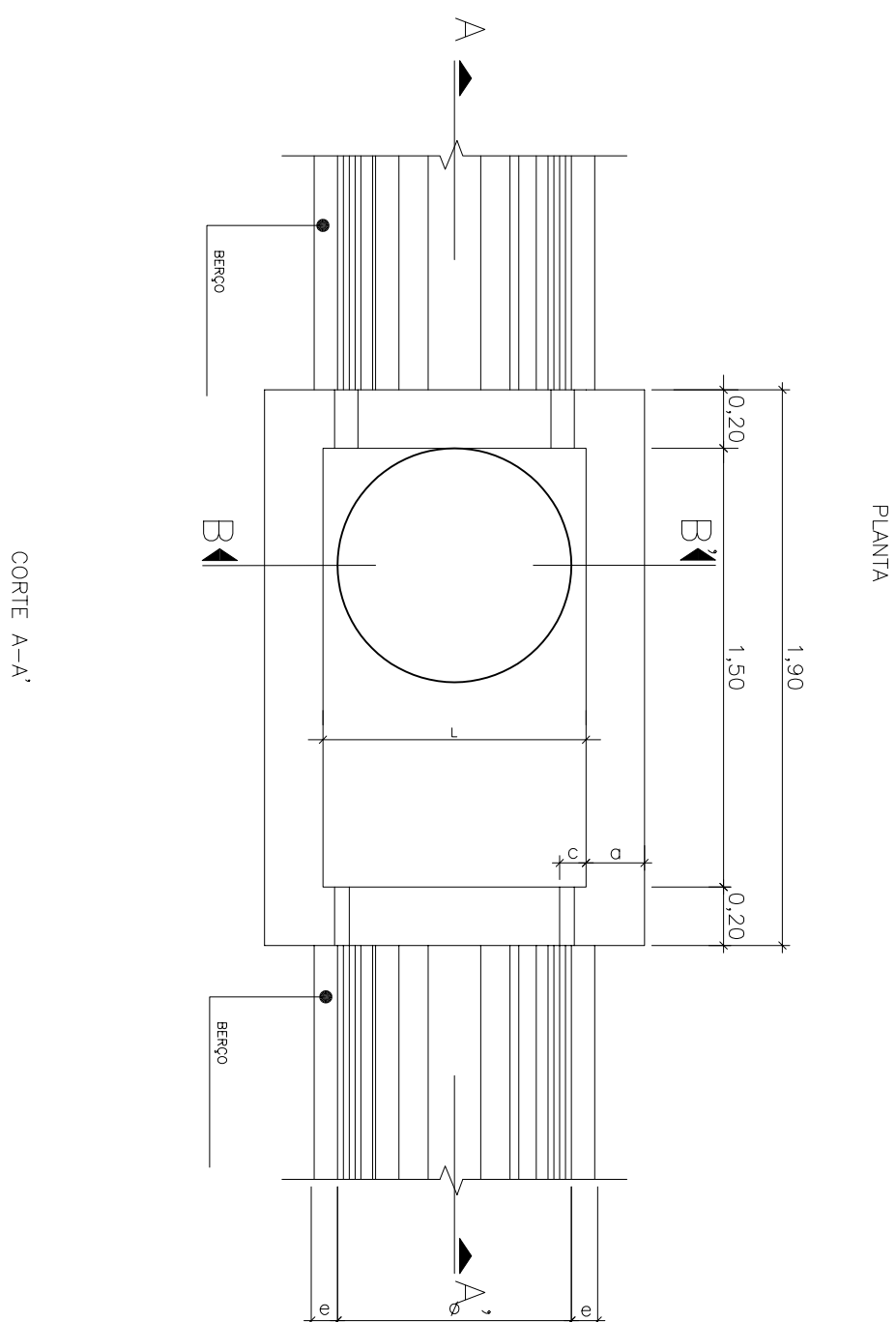


| MEDIÇÃO POR METRO LINEAR | | |
|--------------------------|----|------|
| LASTRO | m3 | 0,82 |
| FORMA | m2 | 8,50 |
| CONCRETO | m3 | 1,94 |
| REVESTIMENTO | m3 | 0,13 |

| ANÁLISIS DO CORPO DE BIEIRO DAS SIMILES 3.02x200 | | | | |
|--|-------|----|----------------------------|----------------|
| POSICIÓN | Ø | Q | MEMBRO (TALLADO) PESO (Nf) | PESO (TALLADO) |
| 1 | 8,0/0 | 2 | 3,04 g/m ² | 60,11 |
| 2 | 8,3 | 22 | 0,245 g/m ² | 22,51 |
| 3 | 6,3 | 6 | 0,245 g/m ² | 1,47 |
| 4 | 8,3 | 30 | 1,490 g/m ² | 10,94 |
| 5 | 8,0/0 | 2 | 3,45 g/m ² | 13,92 |
| 6 | 8,0/0 | 1 | 3,45 g/m ² | 10,92 |
| 7 | 8,0/0 | 1 | 4,88 g/m ² | 18,88 |
| 8 | 6,3 | 17 | 3,39 g/m ² | 14,12 |
| PESO TOTAL (BIEIRO) - 100g | | | | 104,33 |



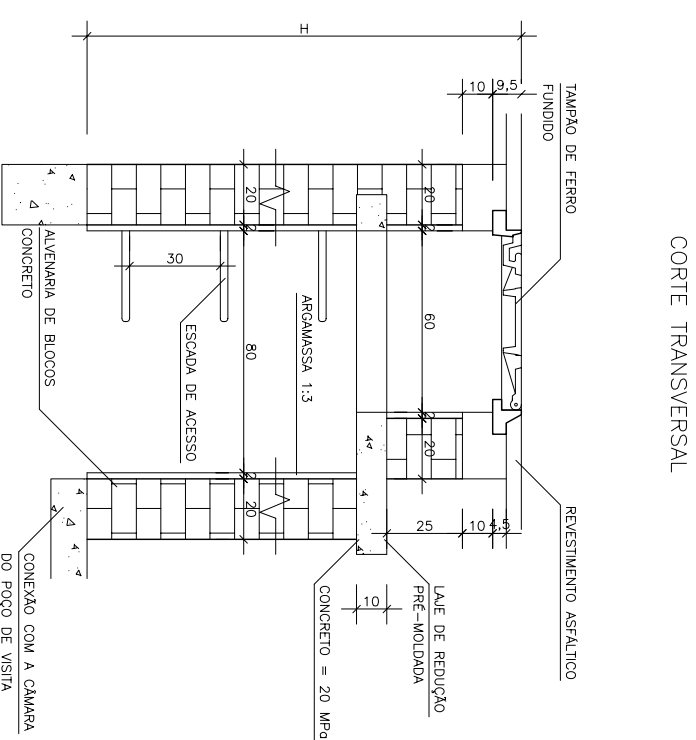
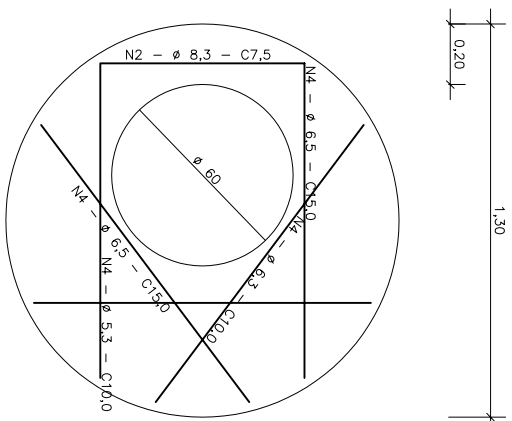
DETALHE CONSTRUTIVO – POÇO DE VISTA
Esc. 1/25



| D | FOSFATO | | | | | | | | |
|-----|---------|----------|--------|--------|--------|------|--------|--------|-------|
| | N1 | N2 | N3 | N4 | N5 | N6 | N7 | N8 | N9 |
| 40 | 6,3/15 | — | — | 6,3/15 | 3/12,5 | — | 3/12,5 | 6,3/12 | 10/10 |
| 60 | 6,3/15 | — | — | 6,3/15 | 3/12,5 | — | 3/12,5 | 6,3/12 | 10/10 |
| 80 | 6,3/15 | — | — | 6,3/15 | 3/12,5 | — | 3/12,5 | 6,3/12 | 10/10 |
| 100 | 6,3/15 | — | — | 6,3/15 | 3/12,5 | — | 3/12,5 | 6,3/12 | 10/10 |
| 120 | 6,3/15 | 4,0/12,5 | 6,3/20 | 6,3/15 | 3/12,5 | 5/10 | 3/12,5 | 6,3/12 | 10/10 |
| 140 | 6,3/15 | 6,3/15 | 6,3/15 | 4,0/15 | 3/12,5 | 5/10 | 3/12,5 | 6,3/12 | 10/10 |
| 160 | 6,3/15 | 6,3/15 | 6,3/15 | 4,0/15 | 3/12,5 | 5/10 | 3/12,5 | 6,3/12 | 10/10 |

| DIMENSÕES E QUANTIDADES APROXIMADAS PARA UMA UNIDADE | | | | | | | | | | |
|--|----------|----|-----|----|-----|-----|-----|-----------------------------|--------------------------------------|-------|
| CÓDIGO | DIMENSÃO | | | | | | | QUANTIDADES | | |
| | D | a | b | c | h | H | L | FORMAS (m ²) | ACO CONCRETO (m ³) | |
| POÇOS DE VISUA SEM DISPOSITIVO INTERNO DE ODEADA | | | | | | | | | | |
| P001 | 40 | 20 | 130 | 25 | 80 | 80 | 80 | 15,05 | 17,00 | 1,740 |
| P002 | 60 | 20 | 130 | 15 | 80 | 80 | 90 | 15,05 | 17,00 | 1,670 |
| P003 | 80 | 25 | 140 | 05 | 100 | 100 | 90 | 16,63 | 17,00 | 2,080 |
| P004 | 100 | 25 | 150 | - | 130 | 130 | 100 | 19,64 | 22,90 | 2,480 |
| P005 | 120 | 25 | 170 | - | 150 | 150 | 120 | 23,62 | 2,890 | 2,890 |
| P006 | 150 | 25 | 200 | - | 180 | 180 | 150 | 30,19 | 31,60 | 3,500 |

| QUANTIDADES APROXIMADAS PARA UMA CHAMINÉ E ACESSÓRIOS | | | | | | |
|---|-----|------------------------|-----------|--------------------------|--------------------------------|--|
| CÓDIGO | H | ALUMINIAVA DE CONCRETO | ARGAMASSA | FORMAS (m ³) | CONCRETO 100 (m ³) | TAMPO DE FERRÃO DE 100 (m ²) |
| CP-001 | 100 | 5,53 | 0,06 | 2,59 | 0,180 | 104 |
| CP-002 | 150 | 5,57 | 0,09 | 2,59 | 0,180 | 104 |
| CP-003 | 200 | 7,20 | 0,11 | 2,59 | 0,180 | 104 |
| CP-004 | 250 | 8,84 | 0,14 | 2,59 | 0,180 | 104 |
| CP-005 | 300 | 10,47 | 0,16 | 2,59 | 0,180 | 104 |
| CP-006 | 350 | 12,11 | 0,19 | 2,59 | 0,180 | 104 |
| CP-007 | 400 | 13,74 | 0,21 | 2,59 | 0,180 | 104 |



| N.º | Registo de Modificações | Visto | Data |
|-----|-------------------------|-------|------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |