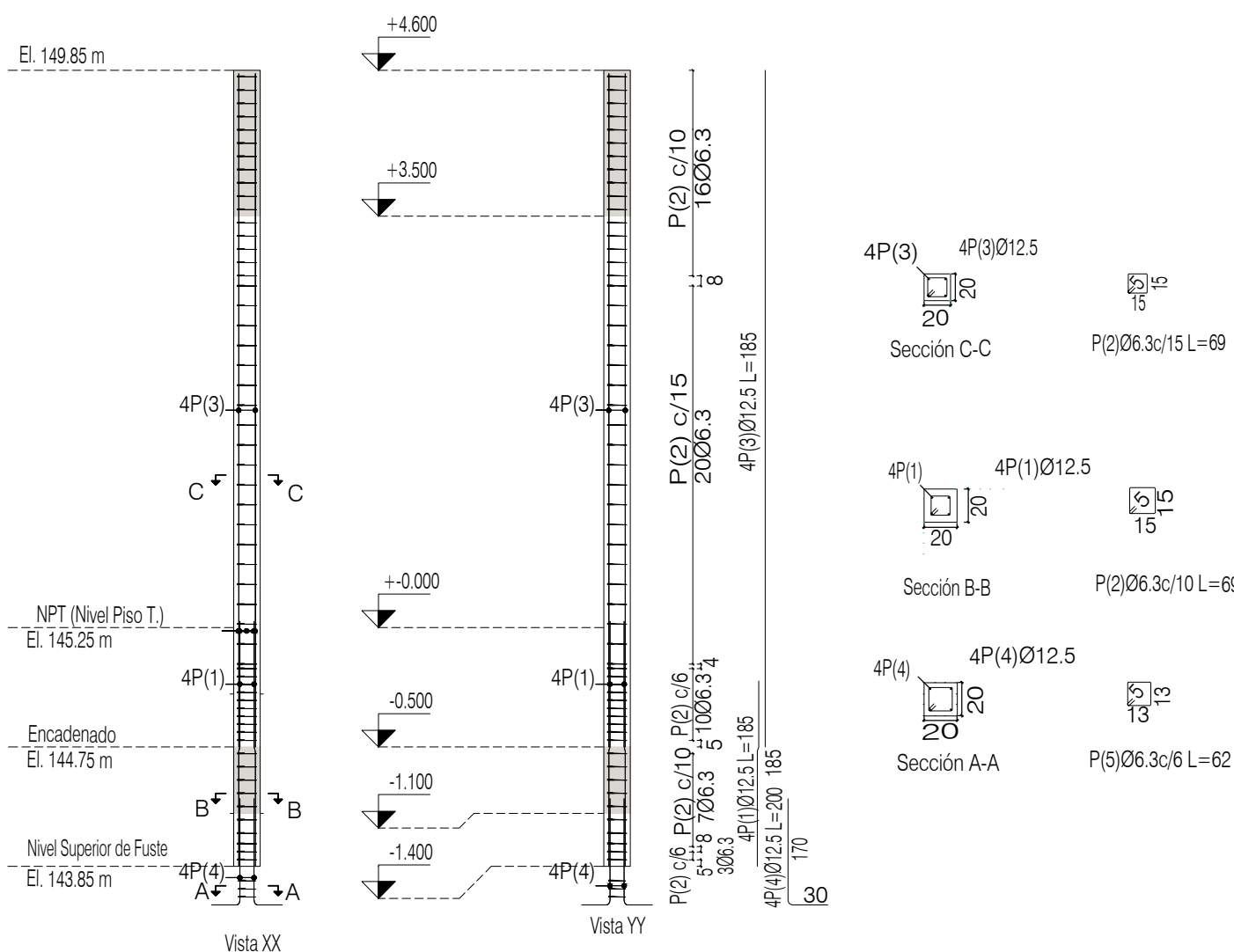


PILAR P38

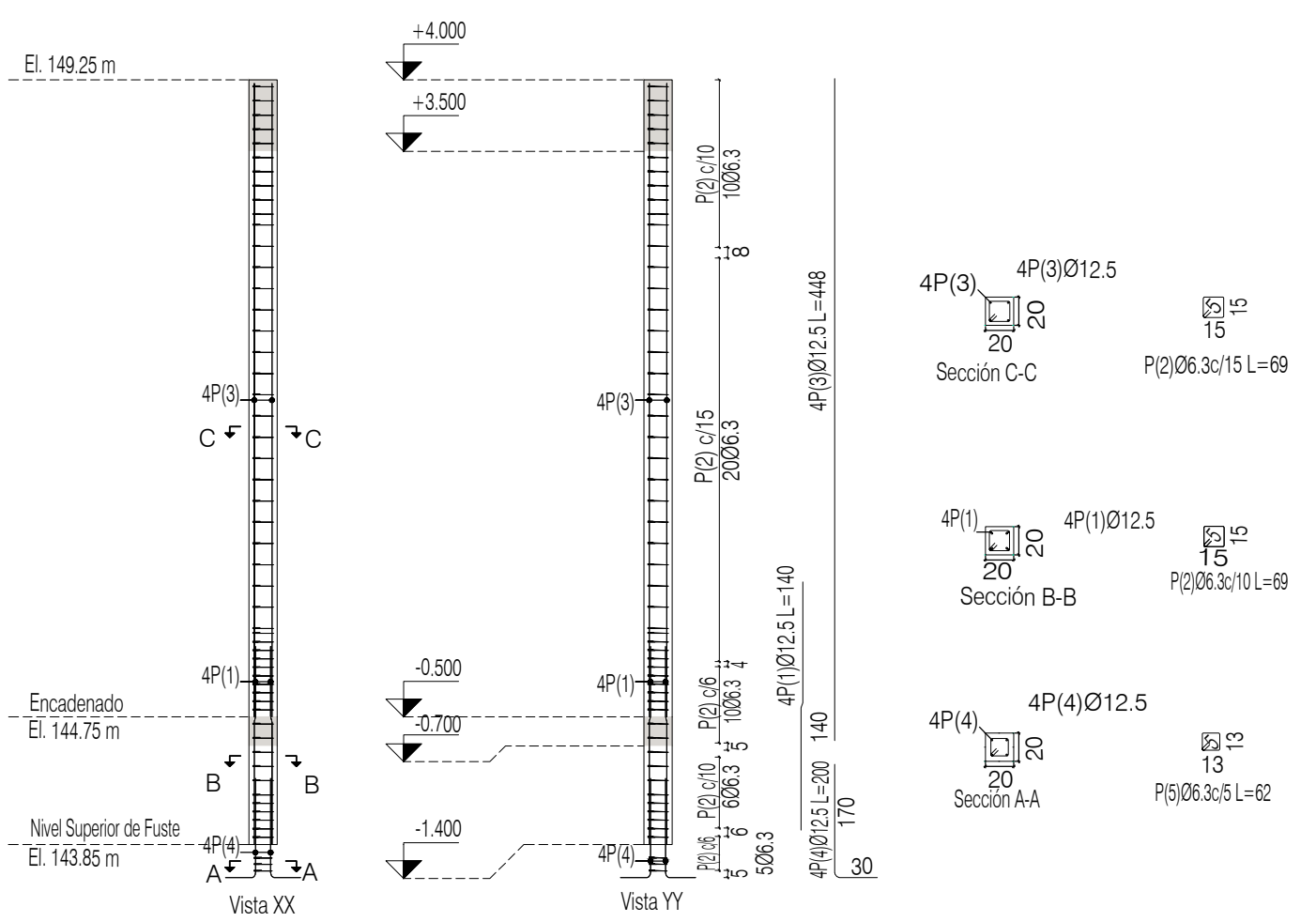
Encadenado: El.144.75 m y muere en El. 149.85 m



| Planta                   | Dimensión (cm) | Hormigón            |                       | Armaduras CA-50   |               |                  | Cuantía (kg/m3) |
|--------------------------|----------------|---------------------|-----------------------|-------------------|---------------|------------------|-----------------|
|                          |                | Tipo: C25, em geral | Recubrimiento: 2.5 cm | Longitudinal (kg) | Estribos (kg) | Total +10 % (kg) |                 |
|                          |                | Volumen (m3)        |                       |                   |               |                  |                 |
| Techo A.C.- El. 148.90 m | 20x20          | 0.20                | 4.08                  | 19.6              | 7.8           | 30.1             | 134.31          |
| Encadenado-El.144.75 m   |                | 0.04                | 0.72                  | 7.1               | 1.7           | 9.7              | 244.44          |
| Total                    |                | 0.24                | 4.80                  | 26.7              | 9.5           | 39.8             | 150.83          |

PILAR P55

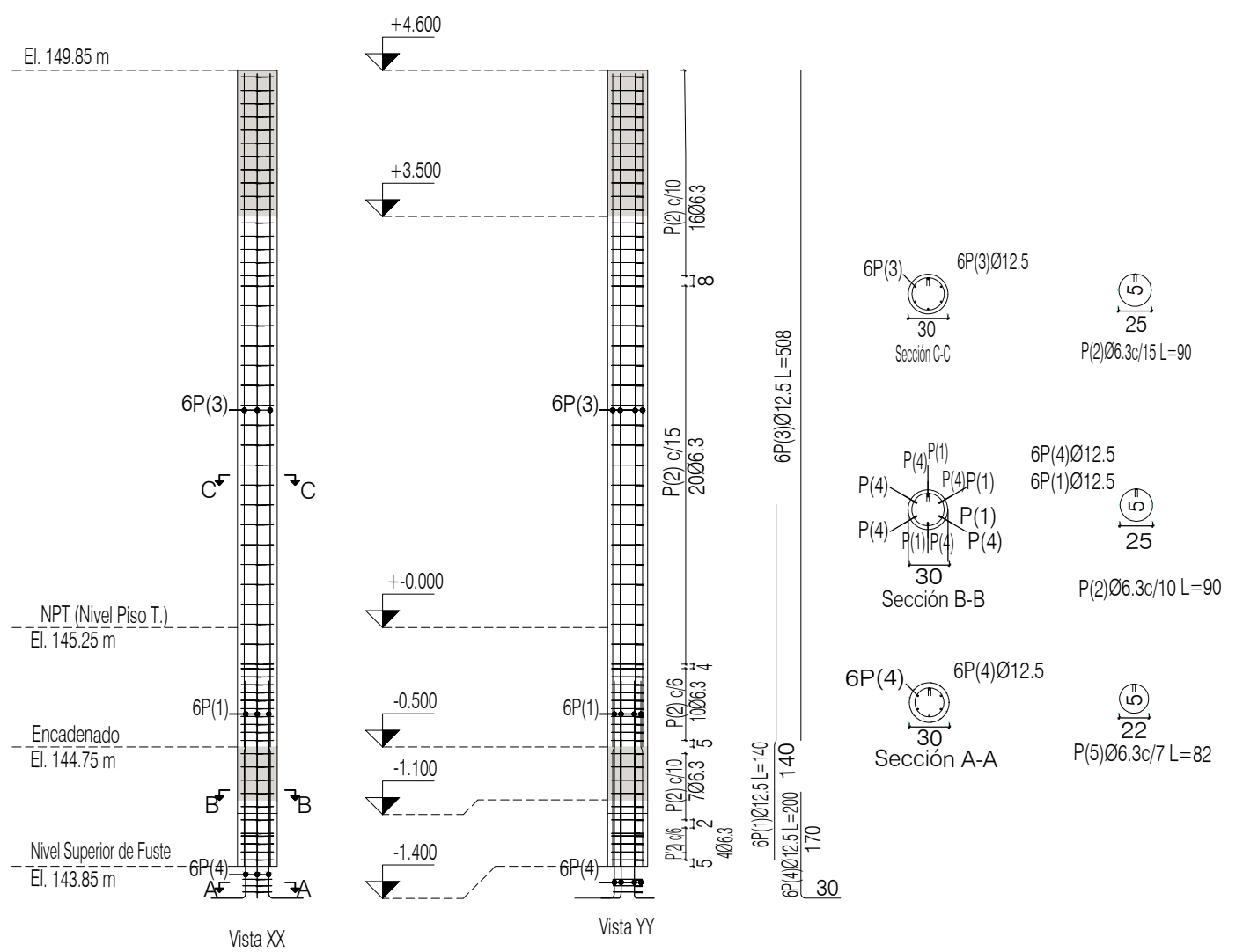
Encadenado: El.144.75 m y muere en El. 149.25 m



| Planta                   | Dimensión (cm) | Hormigón            |                       | Armaduras CA-50   |               |                  | Cuantía (kg/m3) |
|--------------------------|----------------|---------------------|-----------------------|-------------------|---------------|------------------|-----------------|
|                          |                | Tipo: C25, em geral | Recubrimiento: 2.5 cm | Longitudinal (kg) | Estribos (kg) | Total +10 % (kg) |                 |
|                          |                | Volumen (m3)        |                       |                   |               |                  |                 |
| Techo A.C.- El. 148.90 m | 20x20          | 0.18                | 3.60                  | 17.3              | 6.8           | 26.5             | 133.89          |
| Encadenado-El.144.75 m   |                | 0.04                | 0.72                  | 5.4               | 1.9           | 8.0              | 202.78          |
| Total                    |                | 0.22                | 4.32                  | 22.7              | 8.6           | 34.5             | 145.37          |

PILAR P39=P40=P41=P42=P46

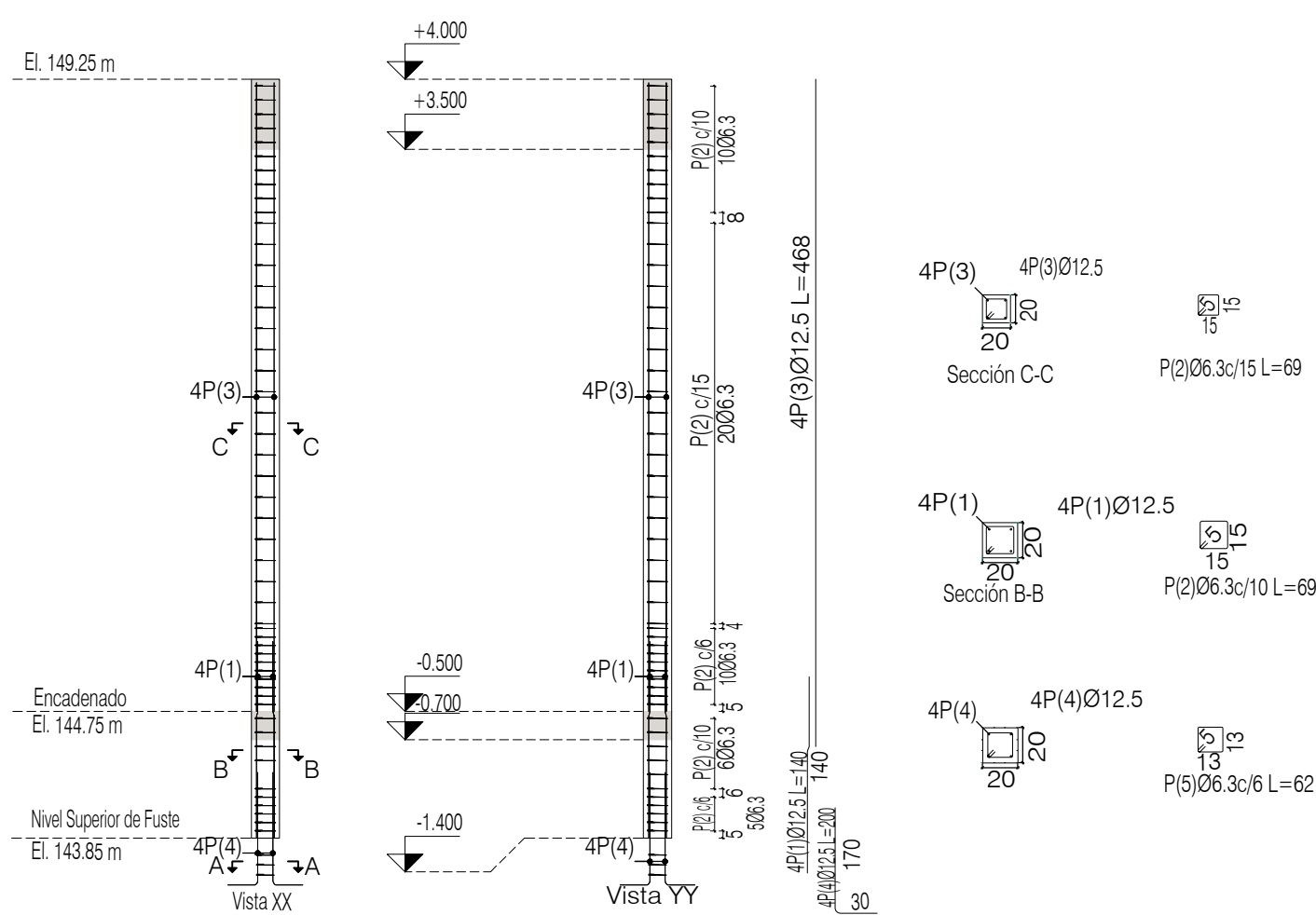
Encadenado: El.144.75 m y muere en El. 149.85 m



| Planta                   | Dimensión (cm) | Hormigón            |                       | Armaduras CA-50   |               |                  | Cuantía (kg/m3) |
|--------------------------|----------------|---------------------|-----------------------|-------------------|---------------|------------------|-----------------|
|                          |                | Tipo: C25, em geral | Recubrimiento: 2.5 cm | Longitudinal (kg) | Estribos (kg) | Total +10 % (kg) |                 |
|                          |                | Volumen (m3)        |                       |                   |               |                  |                 |
| Techo A.C.- El. 148.90 m | Diámetro 30    | 1.80                | 4.81                  | 29.4              | 10.1          | 43.5             | 21.91           |
| Encadenado-El.144.75 m   |                | 0.32                | 0.85                  | 8.1               | 2.4           | 11.6             | 33.01           |
| Total (x5)               |                | 10.60               | 28.27                 | 187.2             | 62.8          | 275.5            | 23.58           |

PILAR P56

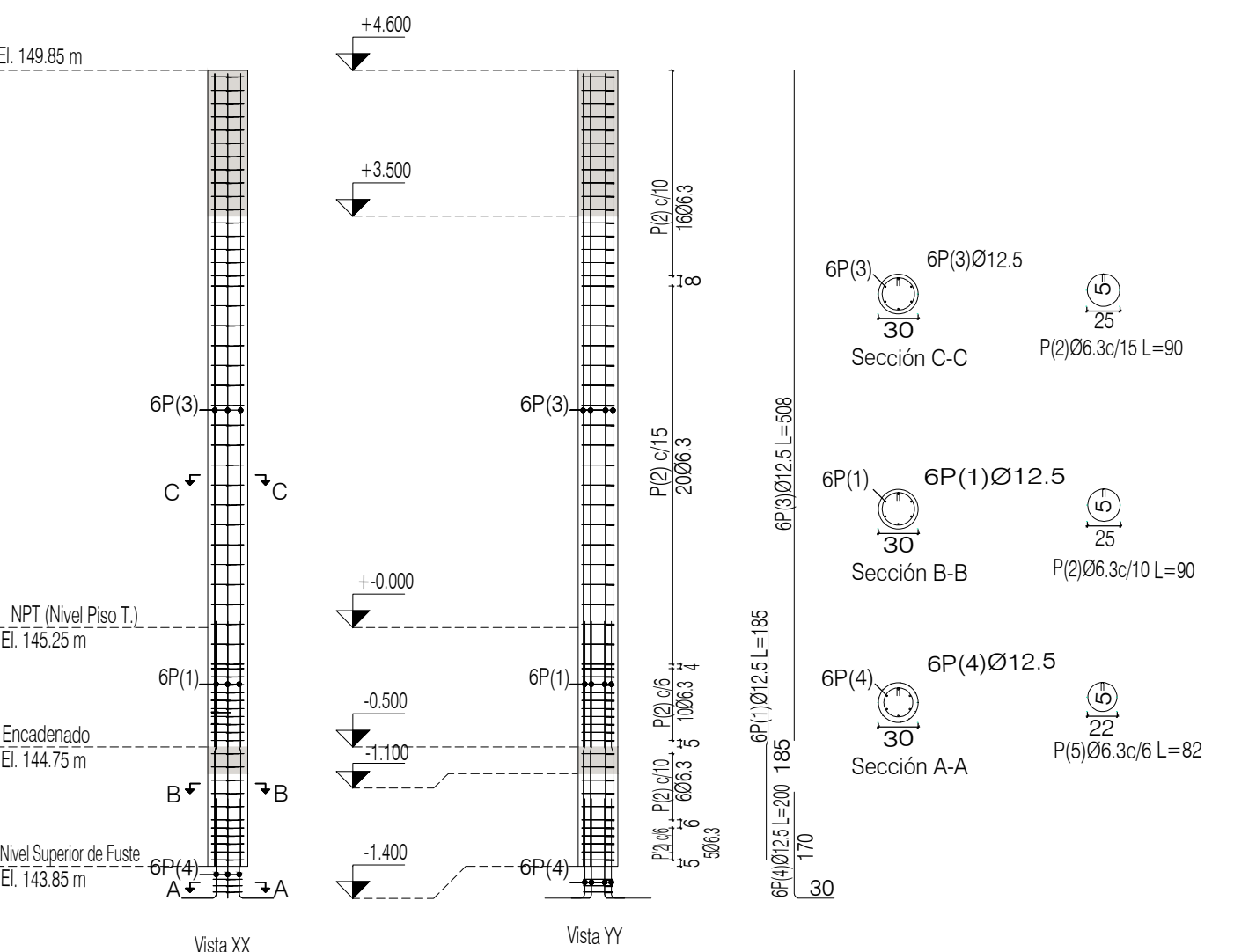
Encadenado: El.144.75 m y muere en El. 149.25 m



| Planta                   | Dimensión<br>(cm) | Hormigón            |                       | Armaduras<br>CA-50   |                  |                         | Cuantía<br>(kg/m3) |
|--------------------------|-------------------|---------------------|-----------------------|----------------------|------------------|-------------------------|--------------------|
|                          |                   | Tipo: C25, em geral | Recubrimiento: 2.5 cm | Longitudinal<br>(kg) | Estribos<br>(kg) | Total +<br>10 %<br>(kg) |                    |
|                          |                   | Volumen<br>(m3)     |                       |                      |                  |                         |                    |
| Techo A.C.- El. 148.90 m | 20x20             | 0.18                | 3.60                  | 17.3                 | 6.8              | 26.5                    | 133.89             |
| Encadenado-El.144.75 m   |                   | 0.04                | 0.72                  | 5.4                  | 1.9              | 8.0                     | 202.78             |
| Total                    |                   | 0.22                | 4.32                  | 22.7                 | 8.6              | 34.5                    | 145.37             |

PILAR P43=P44=P45=P47=P48=P49=P50=P51=P52=P53

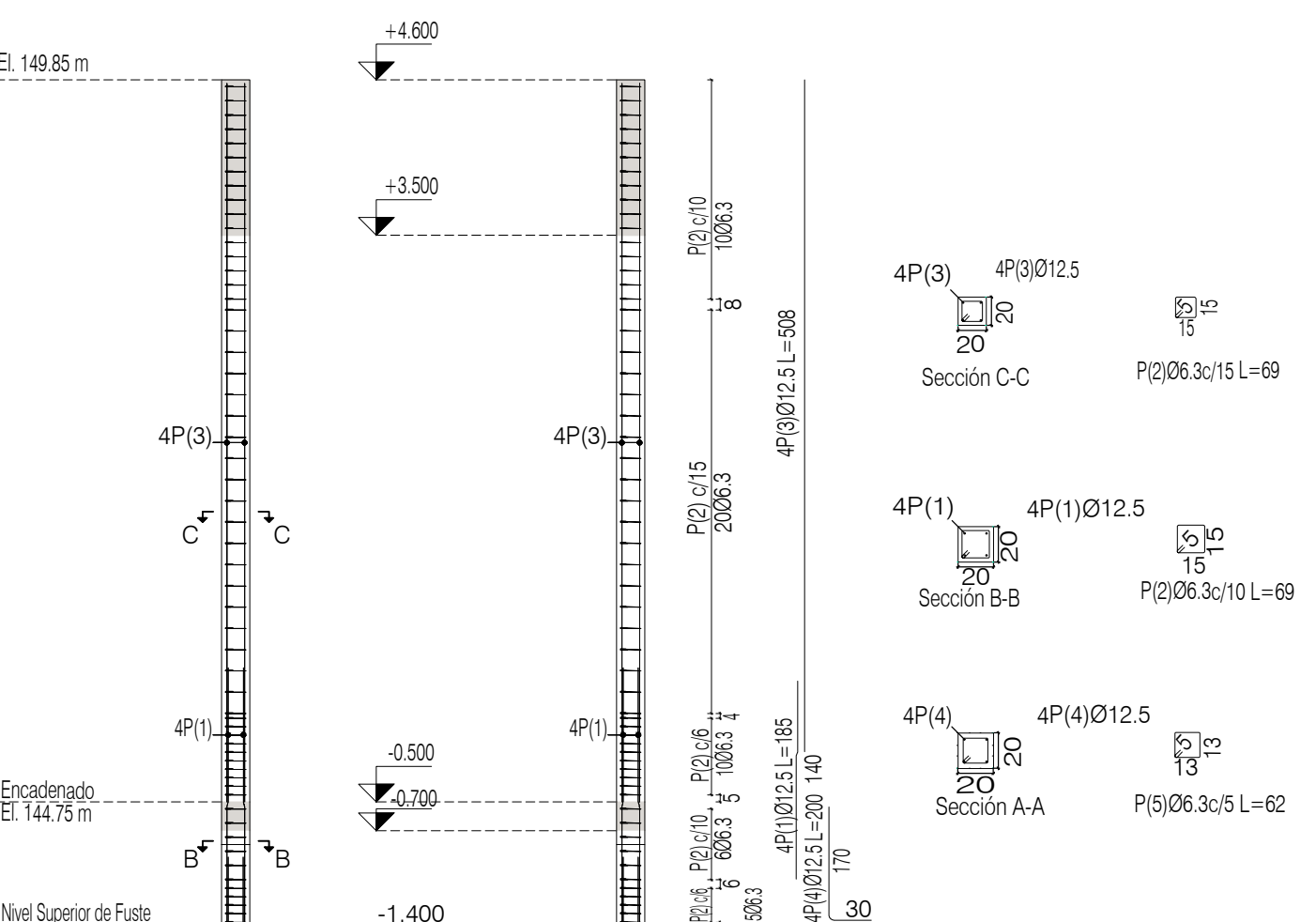
Encadenado: El.144.75 m y muere en El. 149.85 m



| Planta                   | Dimensión (cm) | Hormigón                                     |                 | Armaduras CA-50   |               |                  | Cuantía (kg/m3) |
|--------------------------|----------------|----------------------------------------------|-----------------|-------------------|---------------|------------------|-----------------|
|                          |                | Tipo: C25, em geral<br>Recubrimiento: 2.5 cm |                 | Longitudinal (kg) | Estribos (kg) | Total +10 % (kg) |                 |
|                          |                | Volumen (m3)                                 | Encorinado (m3) |                   |               |                  |                 |
| Techo A.C.- El. 148.90 m | Diámetro 30    | 3.60                                         | 4.81            | 29.4              | 10.1          | 43.5             | 10.96           |
| Encadenado-El.144.75 m   |                | 0.64                                         | 0.85            | 10.7              | 2.4           | 14.4             | 20.59           |
| Total (x10)              |                | 42.41                                        | 56.55           | 400.5             | 125.6         | 579.0            | 12.40           |

PILAR P57

Encadenado: El.144.75 m y muere en El. 149.85 m

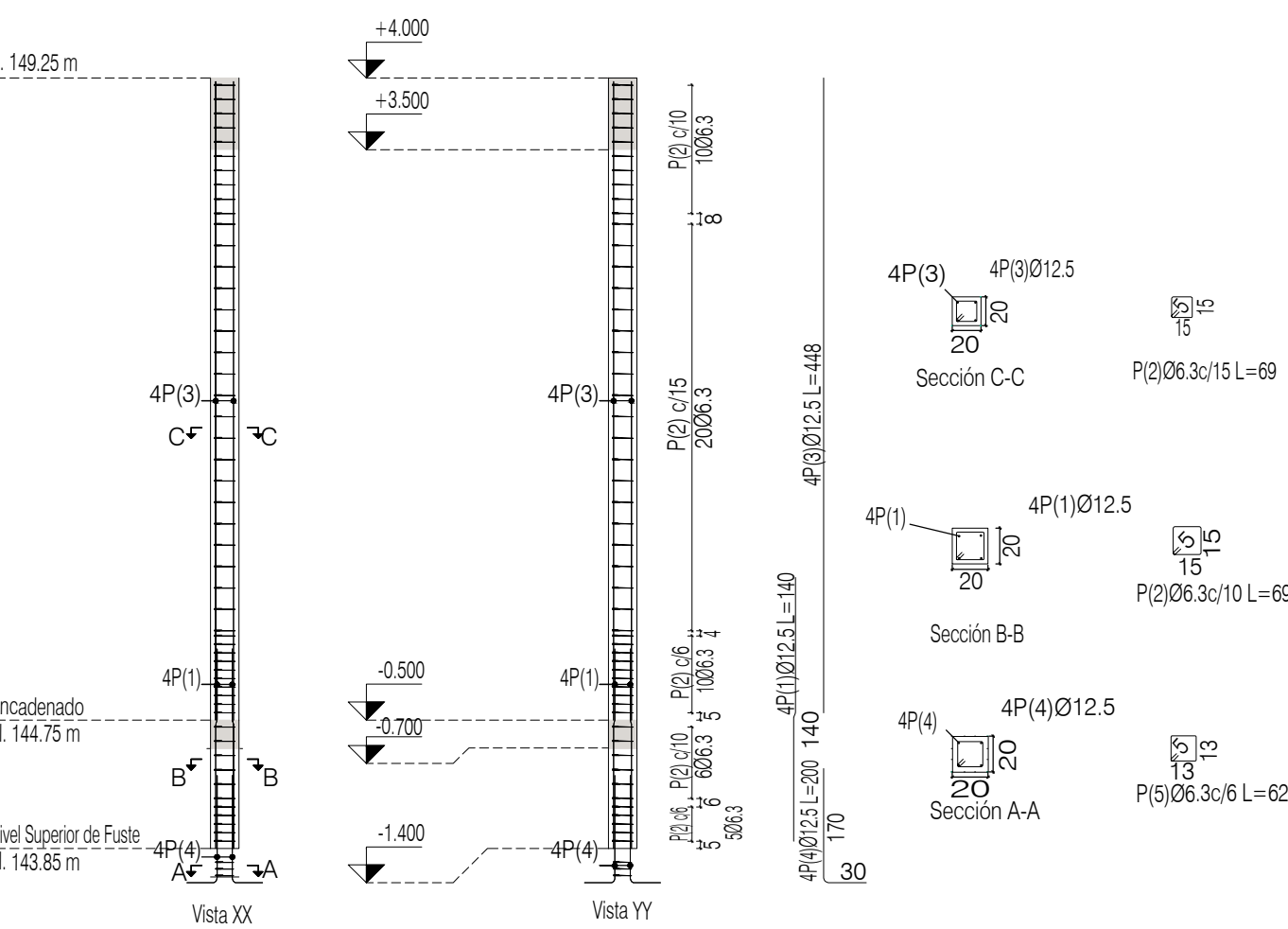


| Planta                   | Dimensión (cm) | Hormigón            |                       | Armaduras CA-50   |               |                  | Cuantía (kg/m3) |
|--------------------------|----------------|---------------------|-----------------------|-------------------|---------------|------------------|-----------------|
|                          |                | Tipo: C25, em geral | Recubrimiento: 2.5 cm | Longitudinal (kg) | Estribos (kg) | Total +10 % (kg) |                 |
|                          |                | Volumen (m3)        |                       |                   |               |                  |                 |
| Techo A.C.- El. 148.90 m | 20x20          | 0.20                | 4.08                  | 19.6              | 7.8           | 30.1             | 134.31          |
| Encadenado-El.144.75 m   |                | 0.04                | 0.72                  | 7.1               | 1.9           | 9.9              | 250.00          |
| Total                    |                | 0.24                | 4.80                  | 26.7              | 9.6           | 40.0             | 151.67          |

| P56<br>(VER NOTA 5) | Pos. | Diám. | No. | Long (cm) | Total (cm) |
|---------------------|------|-------|-----|-----------|------------|
|                     | 1    | Ø12.5 | 4   | 140       | 560        |
|                     | 2    | Ø6.3  | 51  | 69        | 3519       |
|                     | 3    | Ø12.5 | 4   | 448       | 1792       |
|                     | 4    | Ø12.5 | 4   | 200       | 800        |
|                     | 5    | Ø6.3  | 3   | 62        | 186        |
| P57<br>(VER NOTA 5) | Pos. | Diám. | No. | Long (cm) | Total (cm) |
|                     | 1    | Ø12.5 | 4   | 185       | 740        |
|                     | 2    | Ø6.3  | 57  | 69        | 3933       |
|                     | 3    | Ø12.5 | 4   | 508       | 2032       |
|                     | 4    | Ø12.5 | 4   | 200       | 800        |
|                     | 5    | Ø6.3  | 3   | 62        | 186        |

PILAR P54

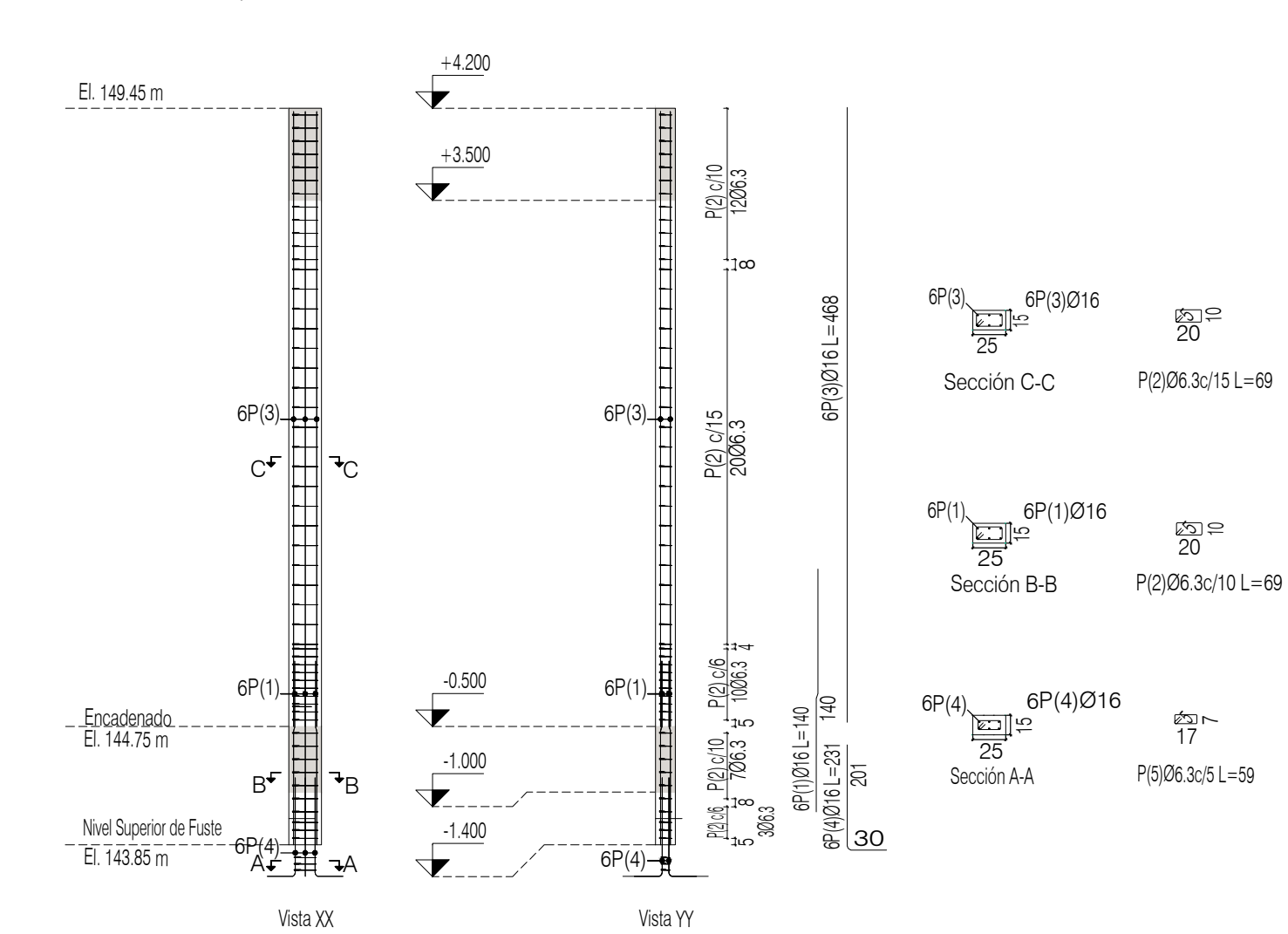
Encadenado: El.144.75 m y muere en El. 149.25 m



| Planta                    | Dimensión<br>(cm) | Hormigón                                     |                   | Armaduras<br>CA-50   |                  |                      | Cuantía<br>(kg/m3) |
|---------------------------|-------------------|----------------------------------------------|-------------------|----------------------|------------------|----------------------|--------------------|
|                           |                   | Tipo: C25, em geral<br>Recubrimiento: 2.5 cm |                   | Longitudinal<br>(kg) | Estribos<br>(kg) | Total + 10 %<br>(kg) |                    |
|                           |                   | Volumen<br>(m3)                              | Encofrado<br>(m3) |                      |                  |                      |                    |
| Techo A.C. - El. 148.90 m | 20x20             | 0.18                                         | 3.60              | 17.3                 | 6.8              | 26.5                 | 133.89             |
| Encadenado-El.144.75 m    |                   | 0.04                                         | 0.72              | 5.4                  | 1.9              | 8.0                  | 202.78             |
| Total                     |                   | 0.22                                         | 4.32              | 22.7                 | 8.6              | 34.5                 | 145.37             |

PILAR P59

Encadenado: El.144.75 m y muere en El. 149.45 m



| Planta                   | Dimensión (cm) | Hormigón                                     |                 | Armaduras CA-50   |               |                   | Cuanlia (kg/m3) |
|--------------------------|----------------|----------------------------------------------|-----------------|-------------------|---------------|-------------------|-----------------|
|                          |                | Tipo: C25, em geral<br>Recubrimiento: 2.5 cm |                 | Longitudinal (kg) | Estribos (kg) | Total + 10 % (kg) |                 |
|                          |                | Volumen (m3)                                 | Encostrado (m2) |                   |               |                   |                 |
| Techo A.C.- El. 148.90 m | 25x15          | 0.18                                         | 3.76            | 27.0              | 7.1           | 37.5              | 193.48          |
| Encadenado-El.144.75 m   |                | 0.03                                         | 0.72            | 8.1               | 1.7           | 10.8              | 290.37          |
| Total                    |                | 0.21                                         | 4.48            | 35.1              | 8.8           | 48.3              | 209.05          |

| Elemento            | Pos. | Diám. | No. | Esquema (cm) | Long. (cm) | Total (cm) | CA-50 (kg) |
|---------------------|------|-------|-----|--------------|------------|------------|------------|
| P29<br>(VER NOTA 5) | 1    | Ø12.5 | 3   | 90 50 90     | 185        | 555        | 5.3        |
|                     | 2    | Ø12.5 | 4   | 90 50 90     | 185        | 740        | 7.1        |
|                     | 3    | Ø12.5 | 1   | 185          | 185        | 185        | 1.8        |
|                     | 4    | Ø6.3  | 10  | 20           | 89         | 890        | 2.2        |
|                     | 5    | Ø6.3  | 10  | 20           | 32         | 320        | 0.8        |
|                     | 6    | Ø12.5 | 4   | 468          | 468        | 1872       | 18.0       |
|                     | 7    | Ø6.3  | 42  | 15           | 69         | 2898       | 7.1        |
|                     | 8    | Ø12.5 | 8   | 170          | 200        | 1600       | 15.4       |
|                     | 9    | Ø6.3  | 3   | 17           | 79         | 237        | 0.6        |
| Total +10%:         |      |       |     |              |            |            | 56.8       |

| Elemento            | Pos. | Diám. | No. | Esquema (cm) | Long. (cm) | Total (cm) | CA-50 (kg) |
|---------------------|------|-------|-----|--------------|------------|------------|------------|
| P30<br>(VER NOTA 5) | 1    | Ø16   | 4   | 86 120       | 210        | 840        | 13.3       |
|                     | 2    | Ø6.3  | 48  | 15           | 69         | 3312       | 8.1        |
|                     | 3    | Ø16   | 4   | 468          | 468        | 1872       | 29.6       |
|                     | 4    | Ø16   | 4   | 201          | 231        | 924        | 14.6       |
|                     | 5    | Ø6.3  | 3   | 13           | 60         | 180        | 0.4        |
| Total +10%:         |      |       |     |              |            |            | 65.2       |
| Ø6.3:               |      |       |     |              |            |            | 9.4        |
| Ø16:                |      |       |     |              |            |            | 55.8       |
| Total:              |      |       |     |              |            |            | 65.2       |

| Elemento                        | Pos. | Diám. | No. | Esquema (cm) | Long. (cm) | Total (cm) | CA-50 (kg) |
|---------------------------------|------|-------|-----|--------------|------------|------------|------------|
| P31=P58=P63=P86<br>(VER NOTA 5) | 1    | Ø12.5 | 4   | 87 96        | 185        | 740        | 7.1        |
|                                 | 2    | Ø6.3  | 53  | 15           | 69         | 3657       | 9.0        |
|                                 | 3    | Ø12.5 | 4   | 468          | 468        | 1872       | 18.0       |
|                                 | 4    | Ø12.5 | 4   | 170          | 200        | 800        | 7.7        |
|                                 | 5    | Ø6.3  | 3   | 13           | 62         | 186        | 0.5        |
| Total +10%:                     |      |       |     |              |            |            | 43.3       |
| (x4):                           |      |       |     |              |            |            | 86.6       |
| Ø6.3:                           |      |       |     |              |            |            | 42.0       |
| Ø12.5:                          |      |       |     |              |            |            | 44.6       |
| Total:                          |      |       |     |              |            |            | 86.6       |

| Elemento            | Pos. | Diám. | No. | Esquema (cm) | Long. (cm) | Total (cm) | CA-50 (kg) |
|---------------------|------|-------|-----|--------------|------------|------------|------------|
| P32<br>(VER NOTA 5) | 1    | Ø12.5 | 2   | 90 50 90     | 185        | 370        | 3.6        |
|                     | 2    | Ø12.5 | 2   | 90 50 90     | 185        | 370        | 3.6        |
|                     | 3    | Ø6.3  | 10  | 20           | 89         | 890        | 2.2        |
|                     | 4    | Ø12.5 | 4   | 468          | 468        | 1872       | 18.0       |
|                     | 5    | Ø6.3  | 42  | 15           | 69         | 2898       | 7.1        |
|                     | 6    | Ø12.5 | 4   | 170          | 200        | 800        | 7.7        |
|                     | 7    | Ø6.3  | 3   | 18           | 82         | 246        | 0.6        |
| Total +10%:         |      |       |     |              |            |            | 43.9       |
| Ø6.3:               |      |       |     |              |            |            | 10.9       |
| Ø12.5:              |      |       |     |              |            |            | 33.0       |
| Total:              |      |       |     |              |            |            | 43.9       |

| Elemento            | Pos. | Diám. | No. | Esquema (cm) | Long. (cm) | Total (cm) | CA-50 (kg) |
|---------------------|------|-------|-----|--------------|------------|------------|------------|
| P33<br>(VER NOTA 5) | 1    | Ø12.5 | 4   | 87 96        | 185        | 740        | 7.1        |
|                     | 2    | Ø6.3  | 57  | 15           | 69         | 3933       | 9.6        |
|                     | 3    | Ø12.5 | 4   | 508          | 508        | 2032       | 19.6       |
|                     | 4    | Ø12.5 | 4   | 170          | 200        | 800        | 7.7        |
|                     | 5    | Ø6.3  | 3   | 13           | 62         | 186        | 0.5        |
| Total +10%:         |      |       |     |              |            |            | 41.6       |

| Elemento                | Pos. | Diám. | No. | Esquema (cm) | Long. (cm) | Total (cm) | CA-50 (kg) |
|-------------------------|------|-------|-----|--------------|------------|------------|------------|
| P34=P35<br>(VER NOTA 5) | 1    | Ø12.5 | 4   | 87 90        | 140        | 560        | 5.4        |
|                         | 2    | Ø6.3  | 51  | 15           | 69         | 3519       | 8.6        |
|                         | 3    | Ø12.5 | 4   | 448          | 448        | 1792       | 17.3       |
|                         | 4    | Ø12.5 | 4   | 170          | 200        | 800        | 7.7        |
|                         | 5    | Ø6.3  | 3   | 13           | 62         | 186        | 0.5        |
| Total +10%:             |      |       |     |              |            |            | 40.3       |
| (x2):                   |      |       |     |              |            |            | 80.6       |

| P36<br>(VER NOTA 5)                     | Pos. | Diám. | No. | Long.<br>(cm) | Total<br>(cm) |              |
|-----------------------------------------|------|-------|-----|---------------|---------------|--------------|
|                                         | 1    | Ø12.5 | 4   | 140           | 560           |              |
|                                         | 2    | Ø6.3  | 51  | 69            | 3519          |              |
|                                         | 3    | Ø12.5 | 4   | 448           | 1792          |              |
|                                         | 4    | Ø12.5 | 4   | 200           | 800           |              |
|                                         | 5    | Ø6.3  | 3   | 62            | 186           |              |
| P37<br>(VER NOTA 5)                     | Pos. | Diám. | No. | Long.<br>(cm) | Total<br>(cm) |              |
|                                         | 1    | Ø12.5 | 4   | 140           | 560           |              |
|                                         | 2    | Ø6.3  | 50  | 69            | 3489          |              |
|                                         | 3    | Ø12.5 | 4   | 448           | 1792          |              |
|                                         | 4    | Ø12.5 | 4   | 200           | 800           |              |
|                                         | 5    | Ø6.3  | 3   | 62            | 186           |              |
| P38<br>(VER NOTA 5)                     | Pos. | Diám. | No. | Long.<br>(cm) | Total<br>(cm) |              |
|                                         | 1    | Ø12.5 | 4   | 185           | 740           |              |
|                                         | 2    | Ø6.3  | 56  | 69            | 3864          |              |
|                                         | 3    | Ø12.5 | 4   | 508           | 2032          |              |
|                                         | 4    | Ø12.5 | 4   | 200           | 800           |              |
|                                         | 5    | Ø6.3  | 3   | 62            | 186           |              |
| P39-R39-R39-R39<br>(VER NOTA 5)         | Pos. | Diám. | No. | Long.<br>(cm) | Total<br>(cm) | x 5<br>(cm)  |
|                                         | 1    | Ø12.5 | 6   | 140           | 840           | 4200         |
|                                         | 2    | Ø6.3  | 57  | 90            | 5130          | 25650        |
|                                         | 3    | Ø12.5 | 6   | 508           | 3048          | 15240        |
|                                         | 4    | Ø12.5 | 6   | 200           | 1200          | 6000         |
|                                         | 5    | Ø6.3  | 3   | 82            | 246           | 1230         |
| P40-R40-R40-R40-R40-R40<br>(VER NOTA 5) | Pos. | Diám. | No. | Long.<br>(cm) | Total<br>(cm) | x 10<br>(cm) |
|                                         | 1    | Ø12.5 | 6   | 185           | 1110          | 11100        |
|                                         | 2    | Ø6.3  | 57  | 90            | 5130          | 51300        |
|                                         | 3    | Ø12.5 | 6   | 508           | 3048          | 30480        |
|                                         | 4    | Ø12.5 | 6   | 200           | 1200          | 12000        |
|                                         | 5    | Ø6.3  | 3   | 82            | 246           | 2460         |
| P54<br>(VER NOTA 5)                     | Pos. | Diám. | No. | Long.<br>(cm) | Total<br>(cm) |              |
|                                         | 1    | Ø12.5 | 4   | 140           | 560           |              |
|                                         | 2    | Ø6.3  | 51  | 69            | 3519          |              |
|                                         | 3    | Ø12.5 | 4   | 448           | 1792          |              |
|                                         | 4    | Ø12.5 | 4   | 200           | 800           |              |
|                                         | 5    | Ø6.3  | 3   | 62            | 186           |              |
| P55<br>(VER NOTA 5)                     | Pos. | Diám. | No. | Long.<br>(cm) | Total<br>(cm) |              |
|                                         | 1    | Ø12.5 | 4   | 140           | 560           |              |
|                                         | 2    | Ø6.3  | 51  | 69            | 3519          |              |
|                                         | 3    | Ø12.5 | 4   | 448           | 1792          |              |
|                                         | 4    | Ø12.5 | 4   | 200           | 800           |              |
|                                         | 5    | Ø6.3  | 3   | 62            | 186           |              |