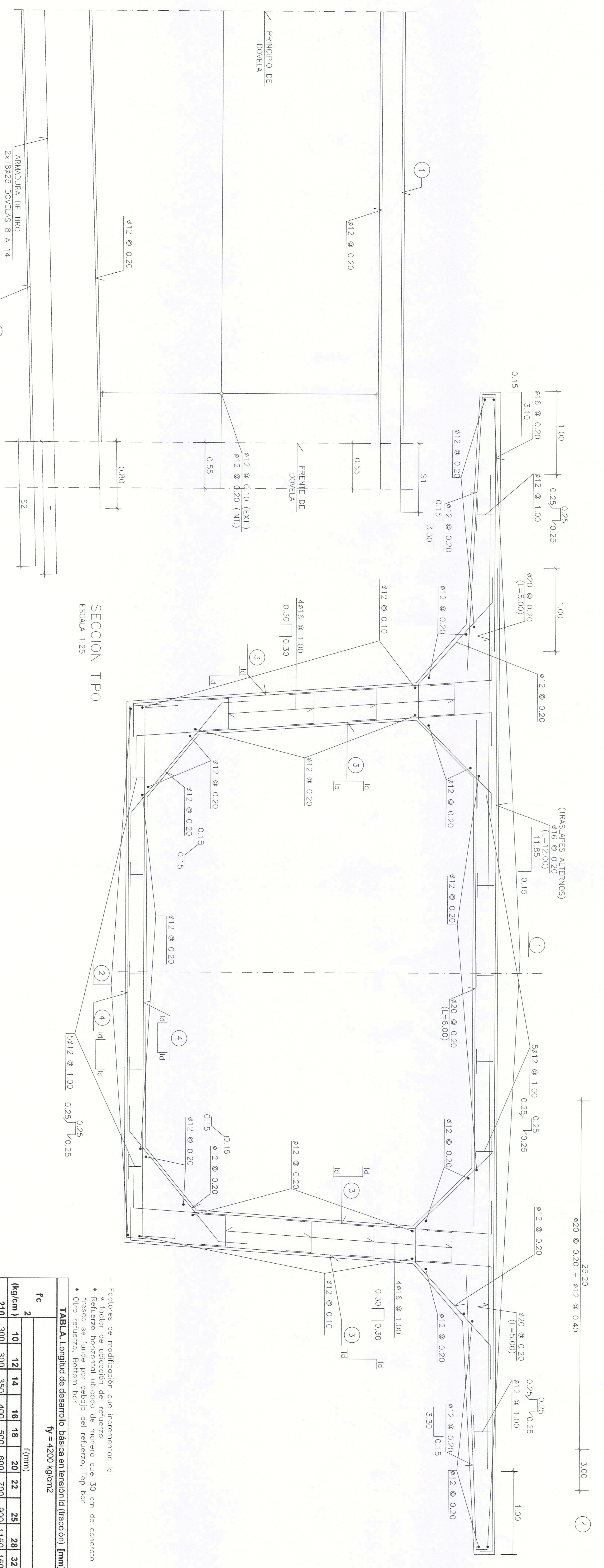


SECCION LONGITUDINAL VANO 4
ESCALA 1:150



ESQUEMA DE ARMADURA LONGITUDINAL
ESCALA 1:25

CUADRO DE ARMADURAS

| ARMADURA | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|----------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 1 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 |
| 2 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 | #16 @ 0.20 |
| 3 | #20 @ 0.10+ #16 @ 0.20 | #20 @ 0.10+ #16 @ 0.20 | #20 @ 0.10+ #16 @ 0.20 | #20 @ 0.10+ #16 @ 0.20 | #20 @ 0.10+ #16 @ 0.20 | #20 @ 0.10+ #16 @ 0.20 | #20 @ 0.10+ #16 @ 0.20 | #20 @ 0.10+ #16 @ 0.20 | #20 @ 0.10+ #16 @ 0.20 | #20 @ 0.10+ #16 @ 0.20 | #20 @ 0.10+ #16 @ 0.20 | #20 @ 0.10+ #16 @ 0.20 | #20 @ 0.10+ #16 @ 0.20 | #20 @ 0.10+ #16 @ 0.20 | #20 @ 0.10+ #16 @ 0.20 | #20 @ 0.10+ #16 @ 0.20 |
| 4 | #25 @ 0.20 | #25 @ 0.20 | #25 @ 0.20 | #25 @ 0.20 | #25 @ 0.20 | #25 @ 0.20 | #25 @ 0.20 | #25 @ 0.20 | #25 @ 0.20 | #25 @ 0.20 | #25 @ 0.20 | #25 @ 0.20 | #25 @ 0.20 | #25 @ 0.20 | #25 @ 0.20 | #25 @ 0.20 |
| S1 [m] | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| S2 [m] | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 | 0.70 |
| T [m] | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 |

NOTA:
- VER ESPECIFICACIONES TECNICAS DE MATERIALES EN HOJA N.º DEL CAPITULO 1.

Factores de modificación que incrementan f_c :

- * Factor de ubicación del refuerzo
- * Refuerzo horizontal ubicado de manera que 30 cm de concreto
- * Refuerzo en juntas por debajo del refuerzo Top bar
- * Otro refuerzo, según sea el caso

Tabla. Longitud de desarrollo f_d (tracción) [mm]

| f_c (kg/cm ²) | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 25 | 28 | 32 | 36 |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| 210 | 300 | 300 | 350 | 400 | 500 | 600 | 700 | 900 | 1150 | 1500 | 1850 |
| 240 | 300 | 300 | 350 | 400 | 450 | 550 | 650 | 850 | 1050 | 1400 | 1750 |
| 280 | 300 | 300 | 350 | 400 | 450 | 500 | 550 | 700 | 900 | 1200 | 1550 |
| 320 | 300 | 300 | 350 | 400 | 450 | 500 | 550 | 650 | 800 | 1050 | 1350 |
| 420 | 300 | 300 | 350 | 400 | 450 | 500 | 550 | 650 | 750 | 950 | 1200 |
| 500 | 300 | 300 | 350 | 400 | 450 | 500 | 550 | 650 | 750 | 950 | 1200 |

Tabla. Traspases de refuerzo en tensión (tracción) [mm]

| f_c (kg/cm ²) | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 25 | 28 | 32 | 36 |
|-----------------------------|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| 210 | 510 | 510 | 595 | 680 | 850 | 1020 | 1190 | 1530 | 1955 | 2550 | 3145 |
| 240 | 510 | 510 | 595 | 680 | 765 | 935 | 1105 | 1445 | 1785 | 2380 | 2975 |
| 280 | 510 | 510 | 595 | 680 | 765 | 850 | 1020 | 1360 | 1700 | 2210 | 2805 |
| 320 | 510 | 510 | 595 | 680 | 765 | 850 | 935 | 1105 | 1390 | 1785 | 2380 |
| 420 | 510 | 510 | 595 | 680 | 765 | 850 | 935 | 1105 | 1390 | 1785 | 2380 |
| 500 | 510 | 510 | 595 | 680 | 765 | 850 | 935 | 1105 | 1390 | 1785 | 2380 |



Empresa Publica Metropolitana de Movilidad y Obras Publicas

FERNANDO ROMO

ING. FERNANDO ROMO DIRECTOR DE PROYECTO

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ACCESO A QUITO DESDE LOS VALLES ORIENTALES Y CONSTRUCCION DEL PUENTE GUAYASAMIN

PUENTE GUAYASAMIN TRABAJO ARMADURAS (V)

INDICADAS

06.07.006-TRABAJO ARM. (V).dwg

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