Cubierta
Armadura transversal superior
Hormigón: f'c=280
Grado 60 (Latinoamérica)

R.S. Refuerzo superior

Escala: 1:50

| Elemento | Pos. | Diám. | No. | Pat. (cm) | Recta (cm) | Pat. (cm) | Long. (cm) | Total (cm) | Grado 60 (kg) |
|---|---|---|---|---|---|---|---|---|---|
| Armadura transversal superior | 1 | ø3/8" | 24 | 15 | VAR. | | VAR. | 4175 | 23.4 |
| | 2 | ø3/8" | 15 | 15 | VAR. | | VAR. | 2745 | 15.4 |
| | 3 | ø3/8" | 55 | 15 | VAR. | | VAR. | 11550 | 64.6 |
| | 4 | ø3/8" | 55 | 15 | 265 | | 280 | 15400 | 86.2 |
| | 5 | ø3/8" | 7 | 15 | 215 | | 230 | 1610 | 9.0 |
| | 6 | ø3/8" | 32 | 15 | 165 | | 180 | 5760 | 32.2 |
| | 7 | ø3/8" | 7 | 15 | VAR. | 15 | VAR. | 2268 | 12.7 |
| | 8 | ø3/8" | 9 | 15 | VAR. | 15 | VAR. | 4563 | 25.5 |
| | 9 | ø3/8" | 12 | | 800 | | 800 | 9600 | 53.7 |
| | 10 | ø3/8" | 12 | 15 | 785 | | 800 | 9600 | 53.7 |
| | 11 | ø3/8" | 2 | 15 | 525 | | 540 | 1080 | 6.0 |
| | 12 | ø3/8" | 2 | 15 | 185 | | 200 | 400 | 2.2 |
| | 13 | ø3/8" | 28 | 15 | 585 | | 580 | 16240 | 90.8 |
| | 14 | ø3/8" | 10 | 15 | VAR. | | VAR. | 3380 | 18.9 |
| | 15 | ø3/8" | 60 | 15 | 231 | 15 | 261 | 15660 | 87.6 |
| | 16 | ø3/8" | 22 | 15 | 495 | | 510 | 11220 | 62.8 |
| | 17 | ø3/8" | 24 | 15 | 205 | | 220 | 5280 | 29.6 |
| | 18 | ø3/8" | 9 | 15 | 405 | | 420 | 3780 | 21.2 |
| | 19 | ø3/8" | 7 | 15 | 125 | | 140 | 980 | 5.5 |
| | 20 | ø3/8" | 2 | 15 | 115 | | 130 | 260 | 1.5 |
| | 21 | ø3/8" | 2 | 15 | 315 | | 330 | 660 | 3.7 |
| | 22 | ø3/8" | 2 | 15 | 475 | | 490 | 980 | 5.5 |
| | 23 | ø3/8" | 2 | 15 | 655 | | 670 | 1340 | 7.5 |
| | 24 | ø3/8" | 2 | | 180 | | 180 | 360 | 2.0 |
| | 25 | ø3/8" | 2 | | 210 | | 210 | 420 | 2.4 |
| | 26 | ø3/8" | 2 | | 250 | | 250 | 500 | 2.8 |
| | 27 | ø3/8" | 2 | | 280 | | 280 | 560 | 3.1 |
| | 28 | ø1/2" | 3 | | 330 | | 330 | 990 | 9.8 |
| | 29 | ø1/2" | 2 | 20 | 280 | | 300 | 600 | 6.0 |
| | 30 | ø3/8" | 3 | 15 | 285 | | 300 | 900 | 5.0 |
| | 31 | ø3/8" | 2 | 15 | 445 | | 460 | 920 | 5.1 |
| | 32 | ø3/8" | 2 | 15 | 455 | | 470 | 940 | 5.3 |
| | 33 | ø3/8" | 57 | 15 | 96 | 15 | 126 | 7182 | 40.2 |
| | 34 | ø5/8" | 1 | 30 | 607 | 30 | 667 | 667 | 10.4 |
| | 35 | ø1/2" | 2 | 24 | 146 | | 170 | 340 | 3.4 |
| | 36 | ø1/2" | 1 | 24 | 226 | | 250 | 250 | 2.5 |
| | 37 | ø5/8" | 3 | 30 | 130 | | 160 | 480 | 7.5 |
| | 38 | ø1/2" | 53 | 24 | 106 | | 130 | 6890 | 65.5 |
| | 39 | ø5/8" | 2 | 30 | 110 | | 140 | 280 | 4.4 |
| | 40 | ø5/8" | 1 | 30 | 362 | 30 | 422 | 422 | 6.6 |
| | 41 | ø1/2" | 1 | 24 | 362 | 24 | 410 | 410 | 4.1 |
| | 42 | ø5/8" | 1 | 30 | 310 | | 340 | 340 | 5.3 |
| | 43 | ø5/8" | 1 | 30 | 190 | | 220 | 220 | 3.4 |
| | 44 | ø5/8" | 2 | 30 | 150 | | 180 | 360 | 5.6 |
| | 45 | ø5/8" | 2 | 30 | 120 | | 150 | 300 | 4.7 |
| | 46 | ø1/2" | 1 | 24 | 126 | | 150 | 150 | 1.5 |
| | 47 | ø5/8" | 1 | 30 | 140 | | 170 | 170 | 2.7 |
| | 48 | ø5/8" | 1 | 30 | 461 | 30 | 521 | 521 | 8.1 |
| | 49 | ø1/2" | 1 | 24 | 156 | | 180 | 180 | 1.8 |
| | 50 | ø1/2" | 1 | 24 | 116 | | 140 | 140 | 1.4 |
| | 51 | ø5/8" | 1 | 30 | 170 | | 200 | 200 | 3.1 |
| | | | | | | | | Total+10%: | 1040.6 |
| | | | | | | | | ø3/8": | 863.7 |
| | | | | | | | | ø1/2": | 108.9 |
| | | | | | | | | ø5/8": | 68.0 |
| | | | | | | | | Total: | 1040.5 |




MUNICIPIO DE TOCANCIPA
TRADICION Y PROGRESO

MUNICIPIO TOCANCIPÁ
DEPARTAMENTO DE CUNDINAMARCA

VoBo.:

CONSORCIO STARK
CONSORCIO STARK
901.619.583-9
ING.NATALIE TRISTANCHO
REPRESENTANTE LEGAL

PROYECTO:

**CENTRO DE ATENCION Y EDUCACIÓN INICIAL VEREDA LA FUENTE EN EL MUNICIPIO DE TOCANCIPÁ**

*LOTE SEVILLA*
*VEREDA LA FUENTE*
*MUNICIPIO DE TOCANCIPÁ*
*DEPARTAMENTO DE CUNDINAMARCA*

**CONTRATISTA CONSTRUCTOR:**

CONSORCIO BS INGENIERÍA
**CONSORCIO BS**
**901.590.075-0**
*ING. JEFFERSON BOHORQUEZ LESMES*
MP 25202-088503
REPRESENTANTE LEGAL

CONVENCIONES:

MODIFICACIONES

ESPECIALISTA INTERVENTORIA:
*JESUS ORLANDO VIVAS*
MP 54202-35679
ESPECIALISTA OBRA:
*LUIS FERNANDO CORREA JAIME*
MP 25202-62184

ARCHIVO: **E 28 - BLOQUE B**
**DESPIECE HIERROS CUBIERTA**
**DESPIECE HIERROS PLACA OFICINA**
**PLANO RECORD**

| FECHA : | ESCALA : |
|---|---|
| 17.10.2025 | SIN ESCALA |

PLANO No.

E 28 DE 50