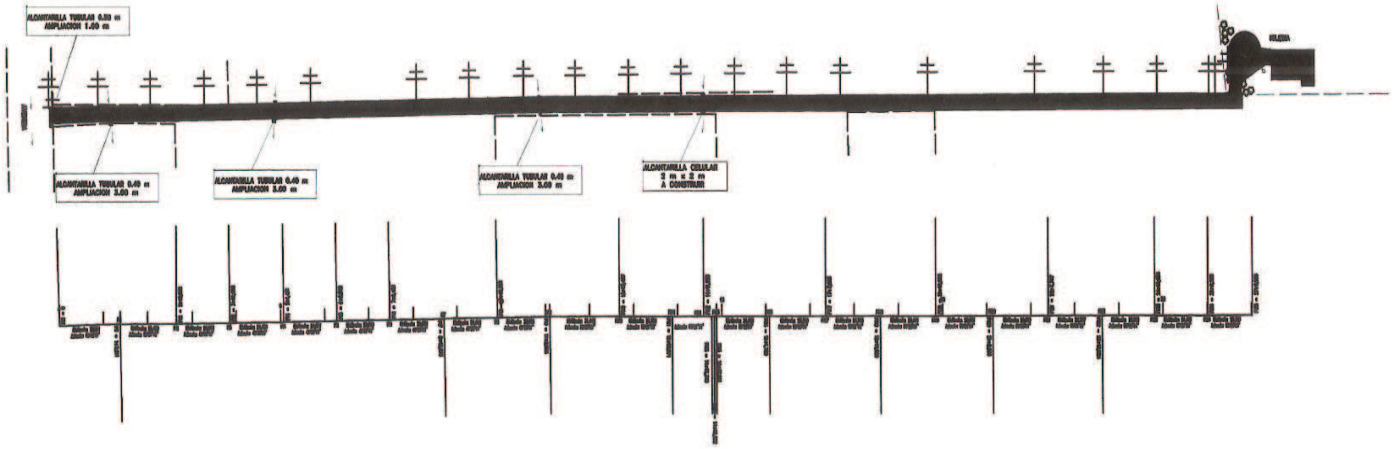
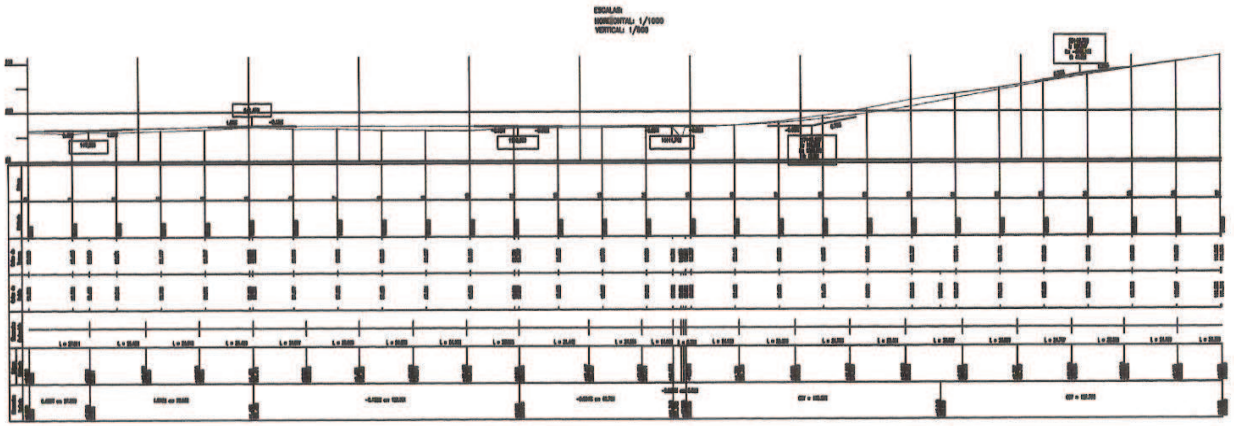
# TRAZADO




REFERENCIAS
- EMPEDRADO A CONSTRUIR
- CAMINERO
- BADEN
- ALCANTARILLA
- ARBOL
- TENDIDO ELECTRICO
- ALAMBRADO

# PERFIL LONGITUDINAL




| COMPUTO METRICO | |
|---|---|
| EMPEDRADO A CONSTRUIR (m2) | |
| CALZADA | 2433.76 m2 |
| GLORIA | 262.16 m2 |
| TOTAL | 2695.92 m2 |
| CORDON CUNETA A CONSTRUIR (m/l) | 532.10 m |
| BADEN A CONSTRUIR (m/l) | 7.50 m |
| CORDON ENCHONDO (m/l) | 66.50 m |
| CAMINERO (ACCESO PEATONAL- m2) | |
| CALLE | 535.50 m2 |
| IGLESIA | 20.61 m2 |
| TOTAL | 556.61 m2 |
| ALCANTARILLA CELULAR 2.00 X 2.00 (m) | 6.00 m |
| MOVIMIENTO DE SUELO (m3) | |
| VOLUMEN DE CORTE | 1020 m3 |
| VOLUMEN DE CARGA | 1300 m3 |

**DIMENSIONAMIENTO DE ALCANTARILLAS**
**Metodo Racional para cuencas < a 2 km?**

| ARROYO | A (ha) | L (m) | tb (m) | s (%) | tc (min) | to (hr) | I (mm/min) 10 años | I (mm/min) 25 años | Q (M3/Seg) 10 años | OBRA EXIST. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S/ NOMBRE | 240 | 2010.00 | 71.62 | 2.99 | 47.05 | 0.70 | 1.35 | 1.70 | 10.84 | PUENTE | ALCANTARILLA CELULAR 2.00 x 2.00 |

PROYECTO DE EMPEDRADO

MUNICIPALIDAD DE SANTISIMA TRINIDAD

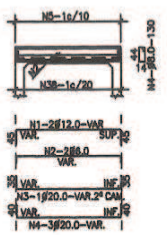
ACCESO A IGLESIA – VILLA SANTA MARIA

FIRMA DEL PROFESIONAL

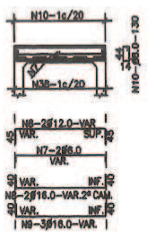
FECHA : 10 / SEPTIEMBRE / 2.011

## VIGAS DE BORDE DE LA LOSA SUPERIOR – ∝ = 30° A 45°

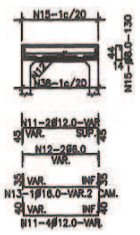
L=300 (2x)



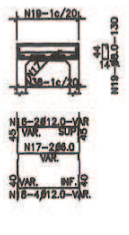

L=250 (2x)




L=200 (2x)

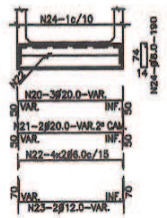



L=150 (2x)

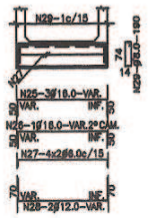



## VIGAS DE BORDE DE LA LOSA INFERIOR – ∝ = 30° A 45°

L=300 (2x)




L=250 (2x)




L=200 (2x)

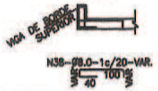
L=150 (2x)

MENSULA

VISTA

VIGA DE BORDE SUPERIOR

CORTE




# ALCANTARILLAS SIMPLES

## VIGAS DE BORDE

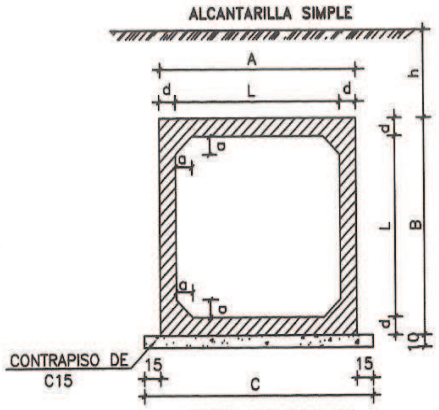
**TABLA DE ARMADURAS PARA VIGAS DE BORDE DE LOSA SUPERIOR E INFERIOR – CELULAR SIMPLE**

| No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ø | 12.0 | 6.0 | 20.0 | 20.0 | 12.0 | 6.0 | 16.0 | 8.0 | 12.0 | 6.0 | 12.0 | 8.0 | 12.0 | 6.0 | 12.0 | 8.0 | 20.0 | 6.0 | 12.0 | 8.0 | 16.0 | 6.0 | 12.0 | 8.0 | 16.0 | 6.0 | 10.0 | 8.0 | 12.0 | | 6.0 | 10.0 | 6.0 | 12.0 | 6.0 | 10.0 | 6.0 | 8.0 |
| C | 4 | 4 | 2 | | 4 | 4 | 6 | | 4 | 4 | 8 | | 4 | 4 | 6 | | 8 | 16 | 4 | | 6 | 16 | 4 | | 4 | 16 | 4 | | 4 | | 16 | 4 | | 6 | 16 | 4 | | |
| LONG | VAR. | VAR. | VAR. | 130 | VAR. | VAR. | VAR. | 130 | VAR. | VAR. | VAR. | 130 | VAR. | VAR. | VAR. | 130 | VAR. | VAR. | VAR. | 190 | VAR. | VAR. | VAR. | 190 | VAR. | VAR. | VAR. | 190 | VAR. | | VAR. | VAR. | 190 | VAR. | VAR. | VAR. | 190 | VAR. |

| | | | | | |
|---|---|---|---|---|---|
| | | MUNICIPALIDAD DE TRINIDAD | | ALCANTARILLAS CELULARES Y DETALLES | |
| | | | | SIN ESCALAS | Lamina N° |

# ALCANTARILLA SIMPLE

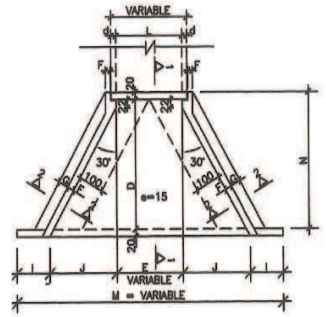
## ALCANTARILLA SIMPLE

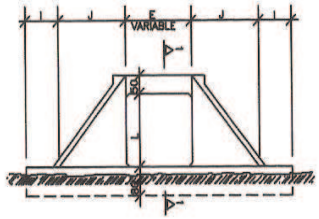



**ALCANTARILLA CELULAR DE 2.00 x 2.00**

| fs > MPa | | 0.09 | 0.13 | 0.13 |
|---|---|---|---|---|
| MEDIDAS | Unid. | SIMPLE | DOBLE | TRIPLE |
| A | cm. | 250 | 445 | 680 |
| B | cm. | 350 | 535 | 830 |
| C | cm. | 290 | 475 | 690 |
| c | cm. | 10 | 10 | 10 |
| b | cm. | — | 30 | 30 |
| d | cm. | 15 | 15 | 15 |
| CONTRAPISO | m² | 0.58 | 0.48 | 0.69 |
| ENCOFRADO | m² | 10.83 | 16.60 | 23.00 |
| HORMIGON | m³ | 1.31 | 2.39 | 3.35 |

## PLANTA



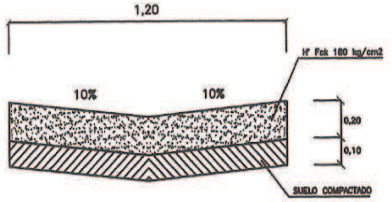




## VISTA FRONTAL

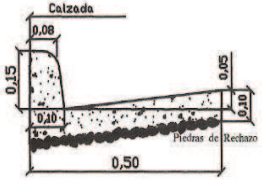
| MEDIDAS (cm) | ALCANTARILLA SIMPLE 1.50x1.50m. fs > 0.09 MPa | 2.00x2.00m. fs > 0.09 MPa | 2.50x2.50m. fs > 0.10 MPa | 3.00x3.00m. fs > 0.12 MPa |
|---|---|---|---|---|
| D | 250.0 | 350.0 | 430.0 | 600.0 |
| E | 170.0 | 200.0 | 250.0 | 300.0 |
| F | 15.0 | 20.0 | 20.0 | 25.0 |
| G | 30.0 | 30.0 | 30.0 | 30.0 |
| I | 100.0 | 100.0 | 100.0 | 100.0 |
| J | 180.1 | 204.0 | 247.5 | 300.5 |
| L | 150.0 | 200.0 | 250.0 | 300.0 |
| M | 677.0 | 908.0 | 944.5 | 1081.0 |
| N | 320.0 | 395.0 | 470.0 | 545.0 |

| DESCRIPCION | UNID | ALCANTARILLA SIMPLE 1.50x1.50m. | 2.00x2.00m. | 2.50x2.50m. | 3.00x3.00m. |
|---|---|---|---|---|---|
| CONTRAPISO | m² | 2.46 | 4.35 | 6.30 | 8.70 |
| ENCOFRADO | m² | 63.50 | 113.00 | 144.00 | 181.00 |
| HORMIGON | m³ | 10.66 | 17.66 | 24.35 | 34.53 |

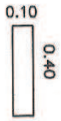
## DETALLE BADEN DE HORMIGÓN




## DETALLE DE CORDON CUNETA




## CORDON DE H°




MUNICIPALIDAD DE TRINIDAD

ALCANTARILLAS CELULARES Y DETALLES

SIN ESCALAS

Lamina N°