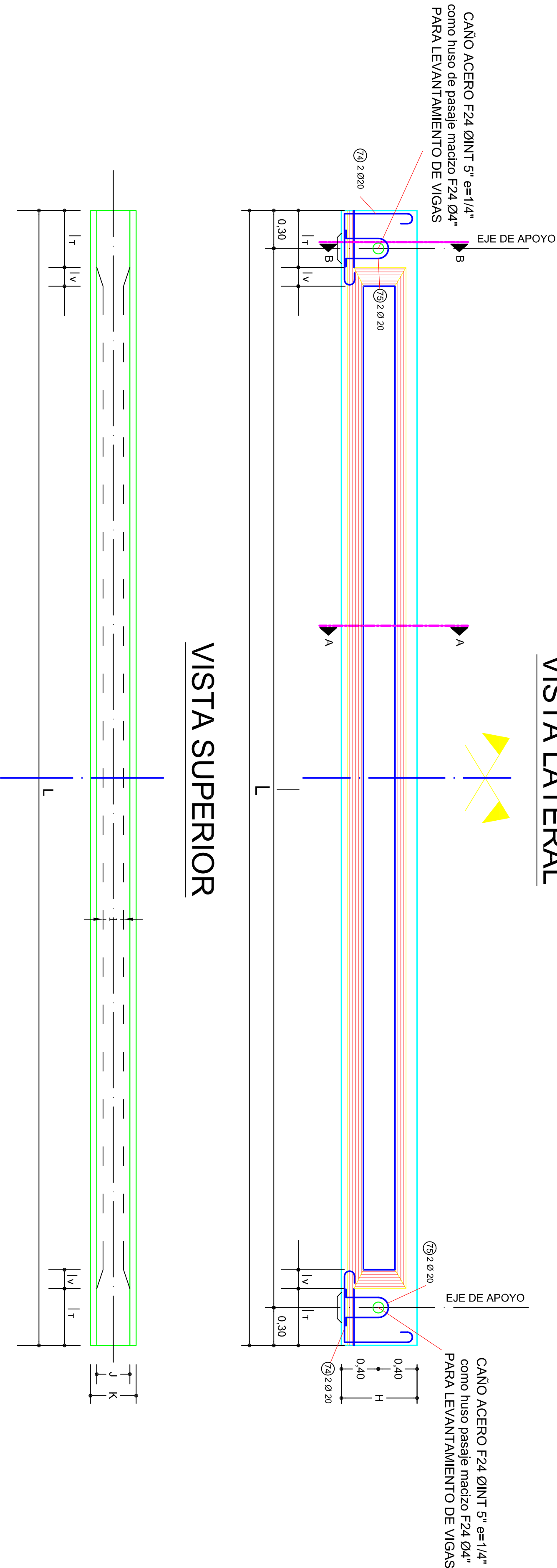
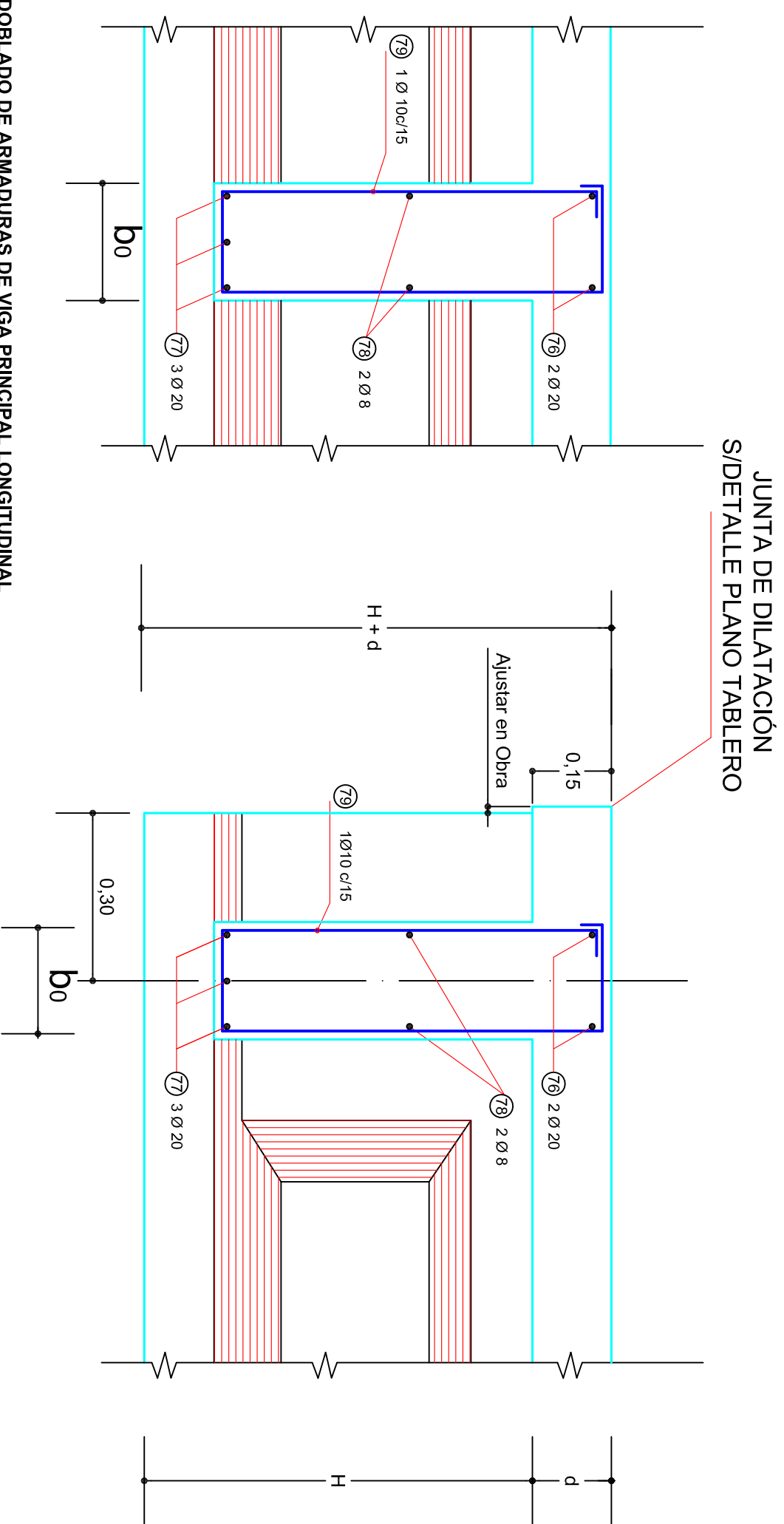


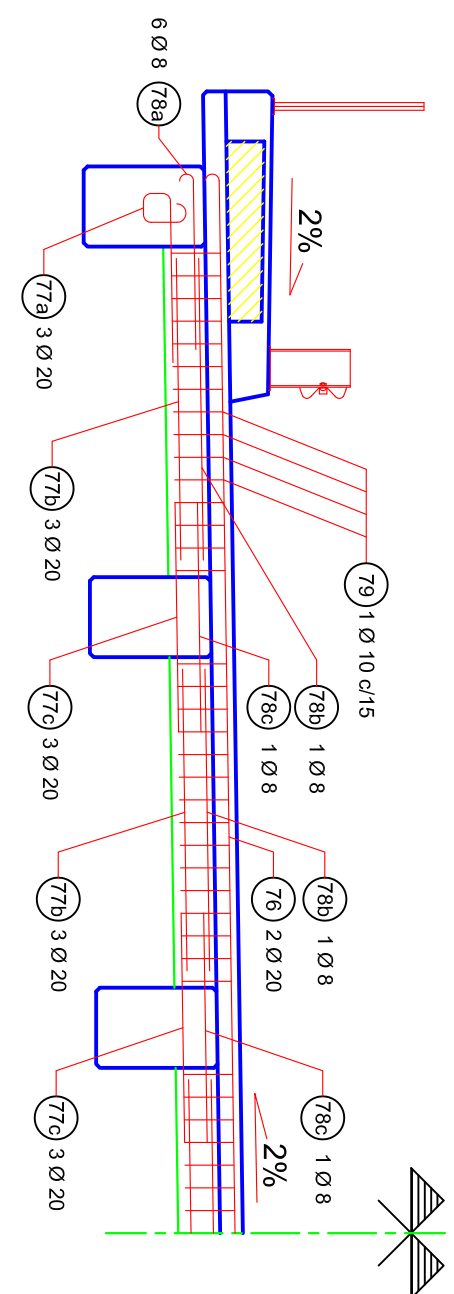
## VISTA LATERAL



## DETALLE VIGUETA CENTRAL



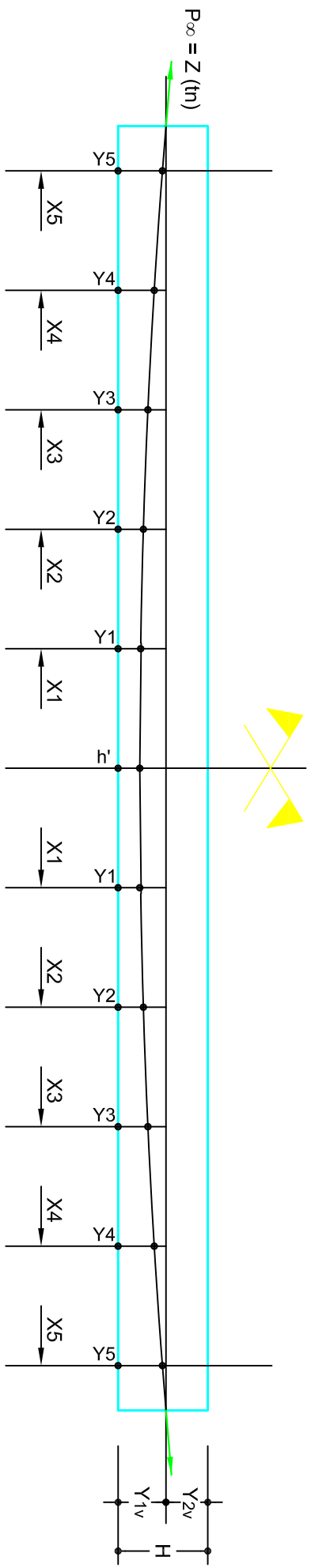
## DETALLE VIGUETA EXTREMA



## SEMICORTE VIGUETAS

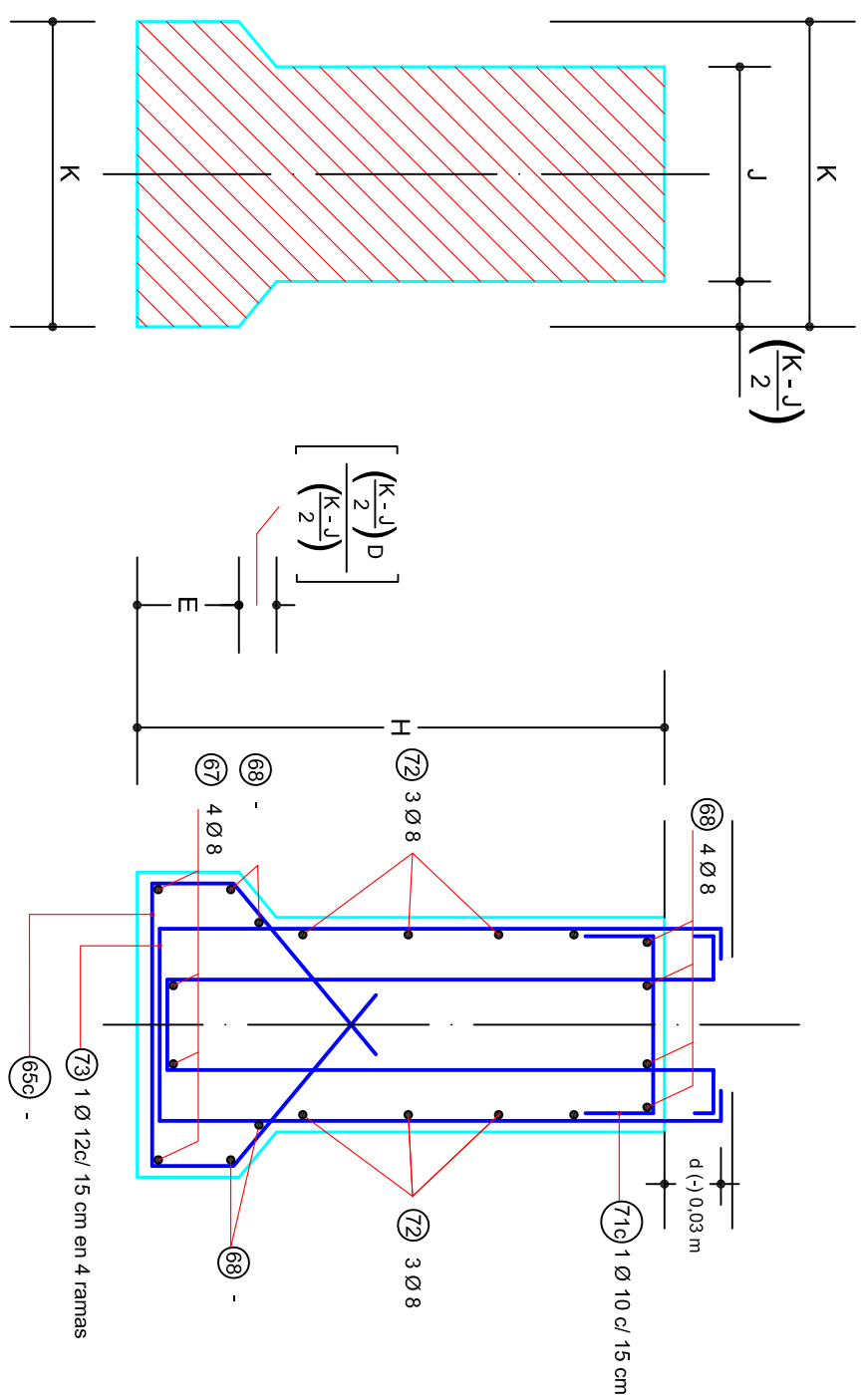
| DATOS                                          |                |       |      |                 |                 |                 |       |      |                |                   | DIMENSIONES EN METROS |        |      |      |      | FUERZAS EN TONELADAS |  |  |  |  |
|------------------------------------------------|----------------|-------|------|-----------------|-----------------|-----------------|-------|------|----------------|-------------------|-----------------------|--------|------|------|------|----------------------|--|--|--|--|
| A                                              | B              | C     | D    | E               | F               | G               | H     | I    | J              | K                 |                       |        |      |      |      |                      |  |  |  |  |
| 0,00                                           | 0,00           | 0,80  | 0,00 | 0,00            | 0,00            | 0,00            | 0,80  | 0,40 | 0,40           | 0,40              |                       |        |      |      |      |                      |  |  |  |  |
| Iv                                             | I <sub>r</sub> | L     | b    | I <sub>vs</sub> | I <sub>vi</sub> | I <sub>ri</sub> | I     | d    | b <sub>0</sub> | h <sub>cap.</sub> |                       |        |      |      |      |                      |  |  |  |  |
| 0,00                                           | 0,00           | 21,65 | 2,05 | 0,00            | 0,00            | 0,00            | 21,05 | 0,15 | 0,25           | 0,00              |                       |        |      |      |      |                      |  |  |  |  |
| m = E <sub>elast</sub><br>E <sub>elast</sub> = |                | X1    | Y1   | X2              | Y2              | X3              | Y3    | X4   | Y4             | X5                | Y5                    | Z      | Y1v  | Y2v  | h'   |                      |  |  |  |  |
| 1,63                                           |                | 2,11  | 0,12 | 4,21            | 0,16            | 6,32            | 0,24  | 8,42 | 0,34           | 9,47              | 0,39                  | 348,47 | 0,40 | 0,40 | 0,10 |                      |  |  |  |  |

# CABLE MEDIO



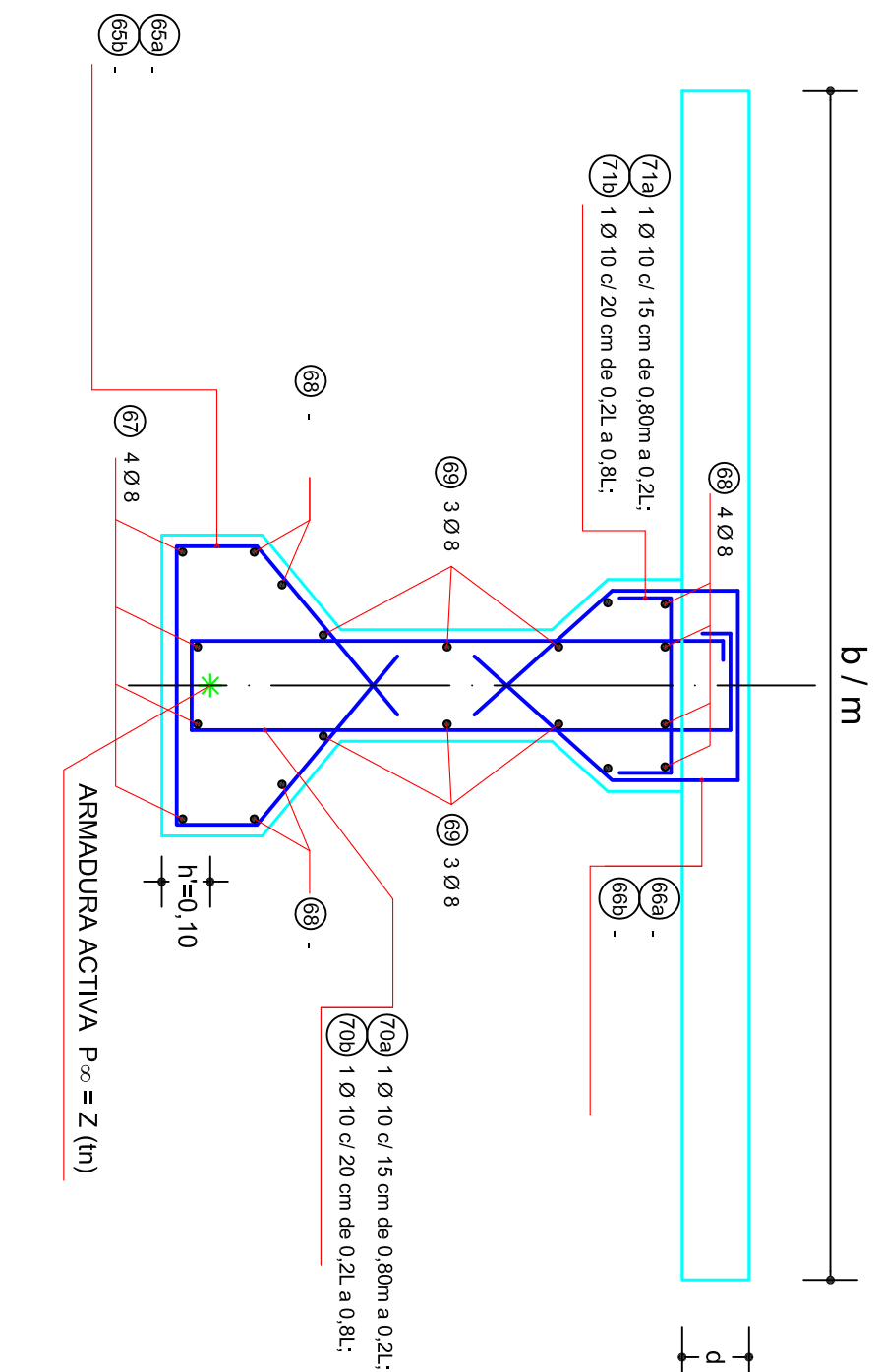
# VIGAS PREFABRICADAS (L=21,65m) SECCIÓN GENERAL

## CORTE B - B

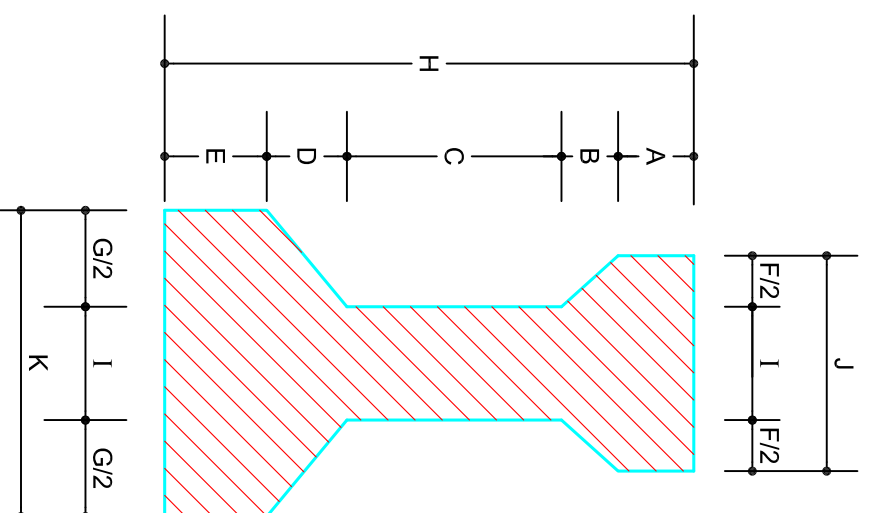


## ARMADURAS TALÓN

## SECCIÓN COMPUESTA Y ARMADURAS TRAMO

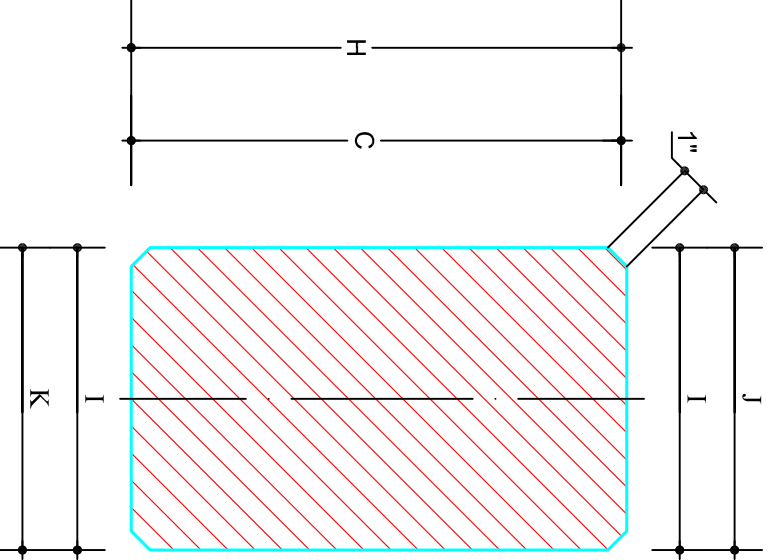


CORTE A - A

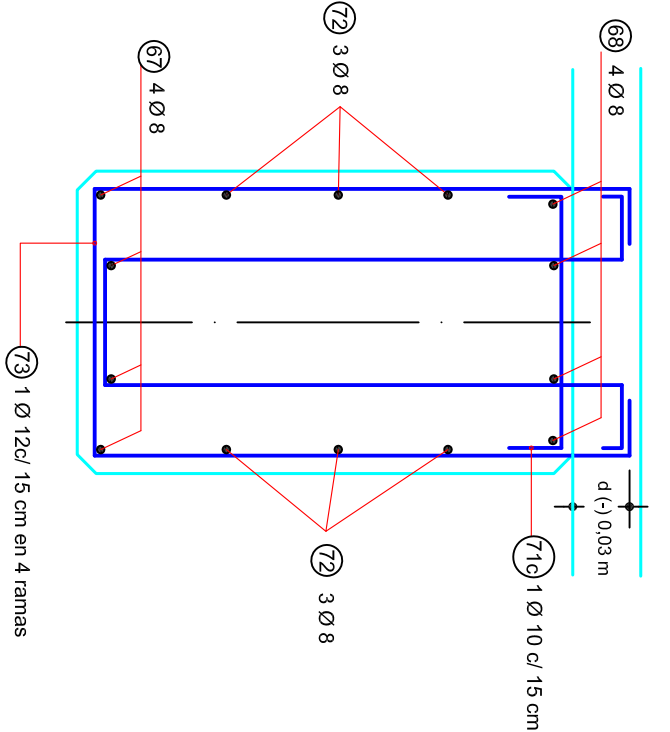


# VIGAS PREFABRICADAS (L=21,65m) SECCIÓN RESULTANTE

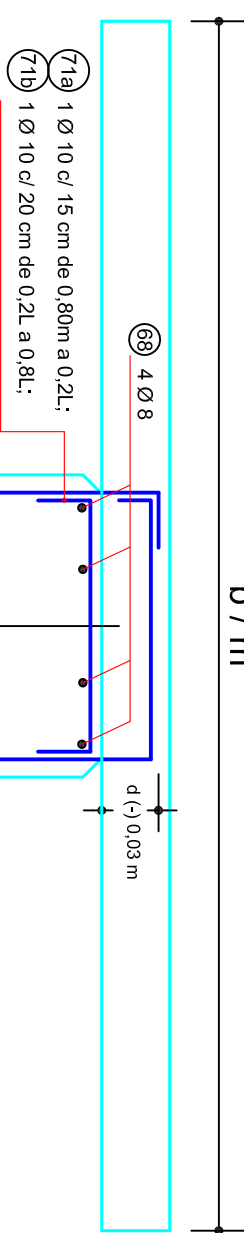
## CORTE A - A



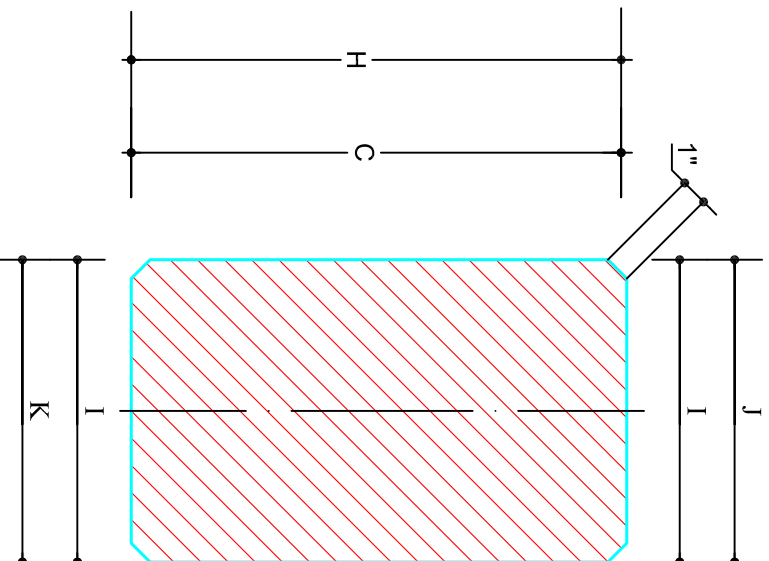
# ARMADURAS TALÓN



## ARMADURAS DE TRAMO



## CORTE B - B

[illegible]

### PLANILLA DE DOBLADO DE ARMADURAS DE VIGUETAS

| Nº  | FORMA Y DIMENSIONES |      | Ø    | SER. | Lc.  | CANTIDAD     | L.T.   | PESO   |
|-----|---------------------|------|------|------|------|--------------|--------|--------|
|     |                     |      | (cm) | (cm) | (cm) |              | (m)    | (kg)   |
| 75  | 20                  | 1000 | 20   | +    | 1200 | 2            | 24,00  | 50,28  |
| 76  | 20                  | 1000 | 20   | +    | 1010 | 2            | 20,20  | 49,69  |
| 77  | 20                  | 1000 | 20   | +    | 225  | 3 x 2-6      | 13,50  | 33,35  |
| 78  | 20                  | 1000 | 20   | +    | 310  | 3 x 3-5-15   | 46,50  | 114,61 |
| 79  | 20                  | 1000 | 20   | +    | 275  | 3 x 4-4-12   | 33,00  | 81,85  |
| 80  | 20                  | 1000 | 20   | +    | 136  | 2 x 2-4      | 5,64   | 2,15   |
| 81  | 20                  | 1000 | 20   | +    | 310  | 2 x 5-10     | 31,00  | 12,25  |
| 82  | 20                  | 1000 | 20   | +    | 180  | 2 x 4-8      | 14,40  | 5,69   |
| 83  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 84  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 85  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 86  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 87  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 88  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 89  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 90  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 91  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 92  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 93  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 94  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 95  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 96  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 97  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 98  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 99  | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 100 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 101 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 102 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 103 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 104 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 105 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 106 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 107 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 108 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 109 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 110 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 111 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 112 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 113 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 114 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 115 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 116 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 117 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 118 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 119 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 120 | 20                  | 1000 | 20   | +    | 116  | 10 x 5-20-35 | 112,10 | 69,50  |
| 121 | 20                  | 1000 | 20   | +    |      |              |        |        |

| MATERIALES:                       |                        |               |
|-----------------------------------|------------------------|---------------|
| HORMIGONES:                       | Tipo de H <sup>o</sup> | Recubrimiento |
| HORMIGÓN DE VIGAS SUPREESTRUCTURA | H-38                   | 3 cm          |
| HORMIGÓN DE CABLEZAS              | H-42-10cm. A.R.S.      | 5 cm          |
| HORMIGÓN DE PILOTOS               | H-42-10cm. A.R.S.      | 5 cm          |
| HORMIGÓN DE LOSAS Y VIGUETAS      | H-42-1                 | 2 cm y 3 cm   |
| HORMIGÓN DE MUROS                 | H-42-10cm. A.R.S.      | 3 cm          |
| ACEROS:                           |                        |               |
|                                   | Tipo                   |               |
| Parral Hormigón Armado            | En barras ADN 420      |               |
| Parral Hormigón Pateletado        | GRADO 270 - BR         |               |

|                                                                |                                                                                            |                                                                                                     |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>PLANO</b><br><b>⑤</b>                                       |                                                                                            | <b>PROVINCIA DE SANTA FE</b><br><b>DIRECCIÓN PROVINCIAL DE VIALIDAD</b>                             |
| L=21,65m                                                       |                                                                                            |                                                                                                     |
| <b>OBRA:</b><br><u>ALCANTARILLA en Progresiva</u><br>12+636,85 | <b>RUTA:</b><br>PROVINCIAL N° 745 y N°77s<br><b>TRAMO:</b> RPN°39-RPN°77s y RPN°74s-RPN°38 | <b>ALCANTARILLA</b><br>Prog. 12+636,85<br><b>⑤</b>                                                  |
| Empresa Contratista: NOROESTE CONSTRUCCIONES SA.               |                                                                                            | <b>Escalas:</b> Indicadas                                                                           |
| <b>FECHA</b><br>31-12-2014                                     | <b>Representante</b><br>Técnico.                                                           | <b>PRINCIPALES</b><br><b>VIGAS</b><br>CANTIDAD 6<br>PLANTA- VISTA<br>CORTE- DETALLES<br>Y ARMADURAS |