

ALLCONSULT GROUP, S.A.  
**ANÁLISIS HIDROLÓGICO Y CÁLCULO HIDRÁULICO DE CAJONES PLUVIALES**  
 Rehabilitación de la Carretera El Ejido - La Espigadilla - Tres Quebradas - Agua Buena, Provincia de Los Santos  
 Diseño y Cálculo: Ing. Edwin Lewis Quintero  
 Fecha: 12 de julio de 2021

| No. | Camino         | Datos de la Cuenca |                      |                      |                    | Cálculos Hidrológicos |      |        |           |          | Datos de la Alcantarilla de Cajón |       |       |       |       | Elementos Hidráulicos |      |        |       |        |          | Velocidad |
|-----|----------------|--------------------|----------------------|----------------------|--------------------|-----------------------|------|--------|-----------|----------|-----------------------------------|-------|-------|-------|-------|-----------------------|------|--------|-------|--------|----------|-----------|
|     |                | A (Ha)             | H <sub>max</sub> (m) | H <sub>min</sub> (m) | L <sub>c</sub> (m) | t <sub>c</sub> (min)  | C    | A (Ha) | i (mm/hr) | Q (m³/s) | Tipo                              | b (m) | h (m) | n     | S     | y (m)                 | y/h  | A (m²) | P (m) | Rh (m) | Q (m³/s) | v (m/s)   |
| 1   | La Espigadilla | 70.00              | 64.00                | 56.00                | 1,600              | 43.95                 | 0.85 | 70.00  | 122.14    | 20.19    | Sencillo                          | 4.00  | 2.44  | 0.013 | 1.00% | 0.90                  | 0.37 | 3.61   | 5.80  | 0.62   | 20.19    | 5.60      |
| 2   | Calle Iglesia  | 40.00              | 70.00                | 60.00                | 1,000              | 23.44                 | 0.85 | 40.00  | 166.53    | 15.73    | Doble                             | 1.83  | 1.83  | 0.013 | 1.00% | 0.93                  | 0.51 | 1.71   | 3.70  | 0.46   | 7.86     | 4.60      |

