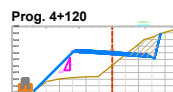
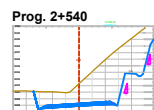
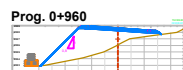
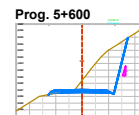
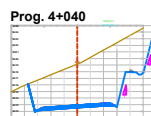
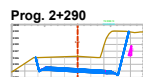
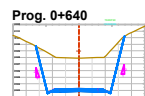
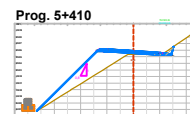
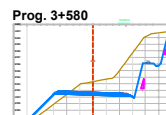
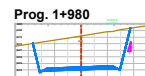
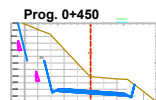
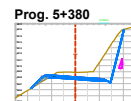
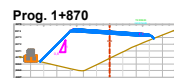
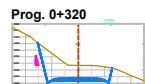


### Diagrama de Movimiento de Tierras

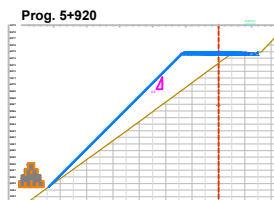
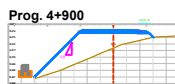
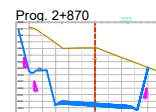
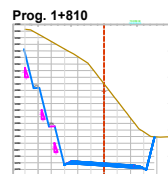
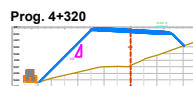
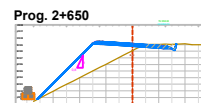
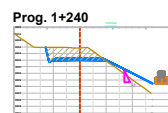
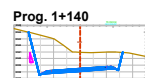
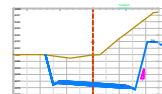
The diagram illustrates the cumulative volume of earth movement (cut and fill) along a project alignment. The vertical axis represents the volume in cubic meters (m³), ranging from -30,000.0 to 15,000.0. The horizontal axis represents the progressive distance in meters, ranging from 0+000.00 to 5+600.00. The area between the profile line and the zero line is shaded with red diagonal lines, indicating the volume of earth movement. The profile line is a solid red line. The area below the zero line is shaded with green diagonal lines, indicating the volume of cut. The area above the zero line is shaded with red diagonal lines, indicating the volume of fill. The diagram shows several areas of cut and fill, with the largest cut area occurring between 2+400.00 and 2+600.00. The total volume of cut is approximately 15,000 m³, and the total volume of fill is approximately 15,000 m³.

| TABELA DE MOVIMENTO DE TÍTULOS |                   |                |                |                |                |                |                |                |                | TABELA DE MOVIMENTO DE TÍTULOS |                   |                |                |                |                |                |                |                |                | TABELA DE MOVIMENTO DE TÍTULOS |                   |                |                |                |                |                |                |                |                | TABELA DE MOVIMENTO DE TÍTULOS |                   |                |                |                |                |                |                |                |          | TABELA DE MOVIMENTO DE TÍTULOS |                |                |                |                |                |                |                |                |     | TABELA DE MOVIMENTO DE TÍTULOS |         |     |     |     |     |     |     |     |     |     |
|--------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------|--------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|--------------------------------|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| PROPOSTA                       | ÁREA DE RELATÓRIO | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | PROPOSTA                       | ÁREA DE RELATÓRIO | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | PROPOSTA                       | ÁREA DE RELATÓRIO | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | PROPOSTA                       | ÁREA DE RELATÓRIO | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | PROPOSTA | ÁREA DE RELATÓRIO              | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS | ÁREA DE CONTAS |     |                                |         |     |     |     |     |     |     |     |     |     |
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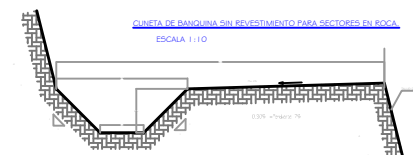


Prog. 5+780

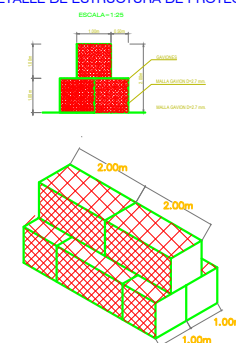


| POZO        | CLAS. GEOLOGICA      |
|-------------|----------------------|
| 0+000a1+000 | lutita               |
| 0+000a1+000 | Areniscas y lutitas  |
| 0+000a1+000 | Areniscas y lutitas  |
| 1+000a1+500 | Depósito Coluvial    |
| 1+500a3+000 | lutita               |
| 1+500a3+000 | limolitas y lutitas  |
| 1+500a3+000 | lutita               |
| 3+000a3+500 | Depósito Coluvial    |
| 3+500a4+000 | lutita               |
| 4+000a4+500 | Depósito Coluvial    |
| 4+500a6+000 | lutita               |
| 4+500a6+000 | Lutitas meteorizadas |

#### PLANO DE DETALLES OBRAS DE DRENAJES SUPERFICIAL



#### PLANO DE DETALLE DE ESTRUCTURA DE PROTECCIÓN: GAVIÓN



UNIVERSIDAD AUTÓNOMA JUAN  
MISAE SARACHO

FACULTAD DE CIENCIAS Y TECNOLOGÍA

Departamento: Topografía y Vías de  
Comunicación  
Carrera: Ingeniería Civil

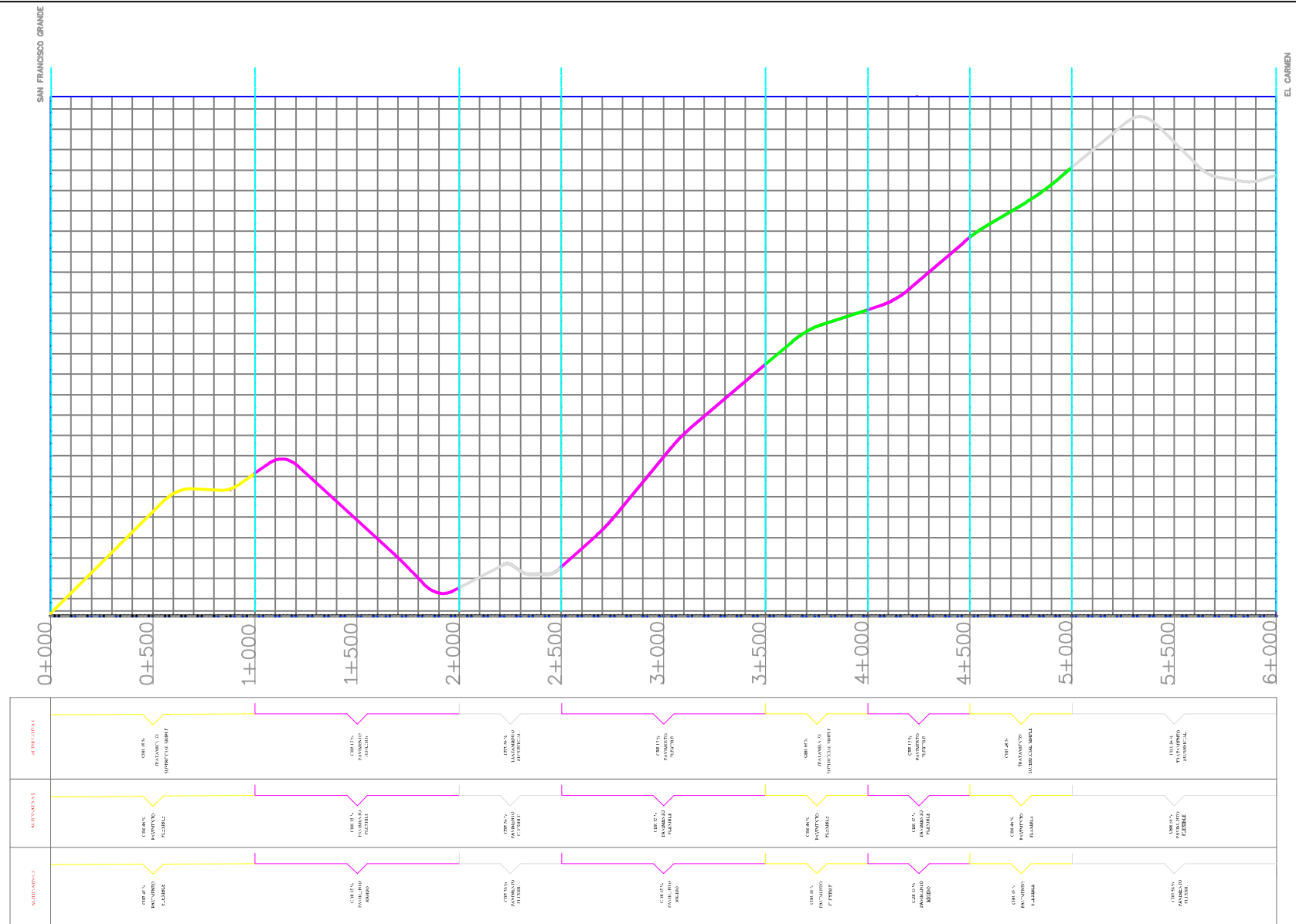
Universitaria: Diego A. Pimentel Tejarina.

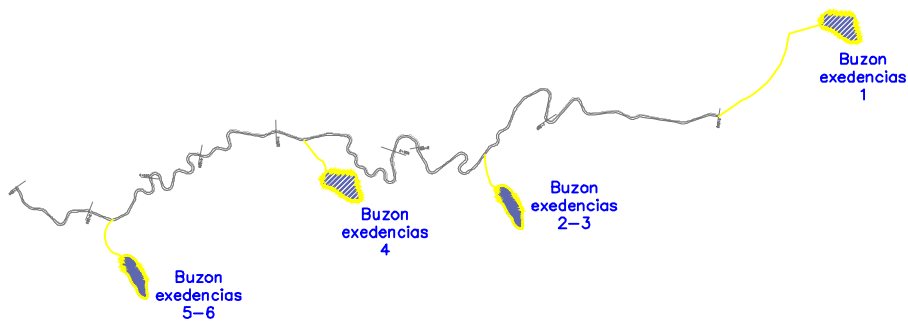
Ducado Tutor: Ing. Oscar Marcelo Chavez.

Año de Departamento: Ing. Mario L. Ticona Copa.

Proyecto: Diseño Estructural de Ingeniería Vial  
TRANS SAN FRANCISCO - EL CARMEN  
Carácter: PLANO DE SECCIONES TRANSVERSALES  
DETALLE DE TALUDES  
Fecha: AGOSTO 2021  
Escala: INDICADA

Hoja N°  
21/21

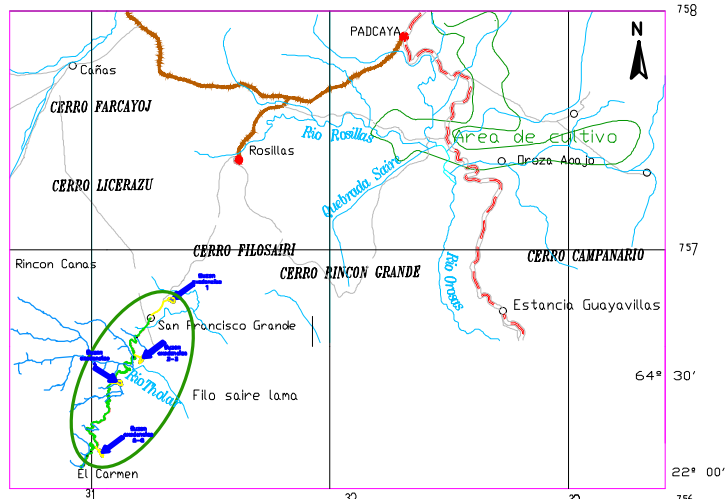




Buzon exedente 4  
 PROG. 4+000  
 311348.00 m E 7564132.00 m S



Buzon exedente 5-6  
 PROG. 6+750  
 310159.00 m E 7560824.00 m



Buzon exedente 1  
 PROG. 0+000  
 313108.00 m E 7567792.00 m S



Buzon exedente 2-3  
 PROG. 0+750  
 312254.00 m E 7565214.00 m S



UNIVERSIDAD AUTÓNOMA JUAN  
 RULFO SALAZAR

FACULTAD DE CIENCIAS Y TECNOLOGÍA

Departamento:  
 Carrera:

Topografía y Vías de  
 Comunicación  
 Ingeniería Civil

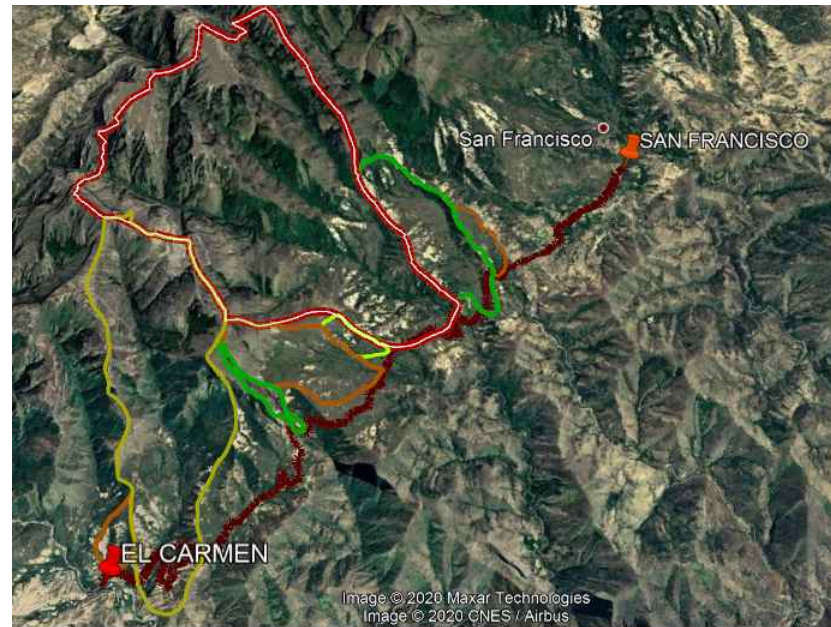
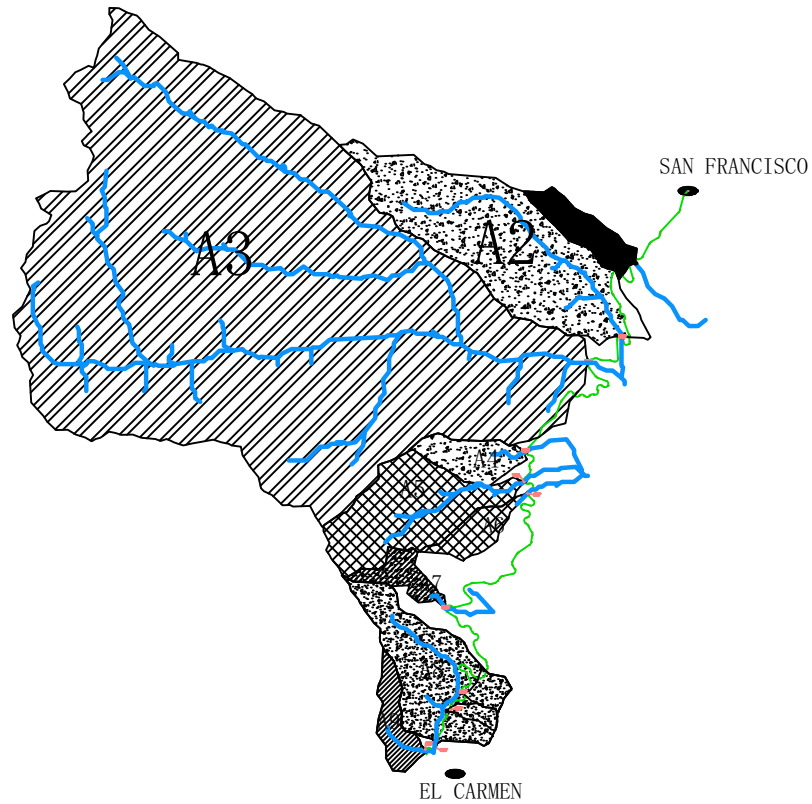
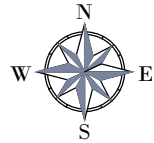
Examinador:  
 Diego A. Pineda Elgueta

Revisor Técnico:  
 Ing. Oscar Marcelo Chaves

Jefe de Departamento:  
 Ing. María L. Torres Céspedes

Proyecto:  
 Diseño Curricular de Ingeniería Vial  
 PLAN DE VIALIDAD DE REGIÓN DE CALABES  
 Criterio:  
 Fecha:  
 Estado:

20/21



UNIVERSIDAD AUTÓNOMA JUAN  
MISAEEL SARACHO

FACULTAD DE CIENCIAS Y TECNOLOGÍA

Departamento: Topografía y Vías de  
Comunicación  
Carrera: Ingeniería Civil

Universitario: Diego A. Pimentel Tejerina

Docente Tutor: Ing. Oscar Marcelo Chavez

Jefe de Departamento: Ing. Mario L. Ticona Copa

Proyecto: Diseño Estructural de Ingeniería Vial  
TRAMO SAN FRANCISCO - EL CARMEN  
Carácter: PLANO DETALLE DE LA CUBIERTA

Fecha: AGOSTO 2020  
Escala: INDICADA

Lamina N°  
16/21

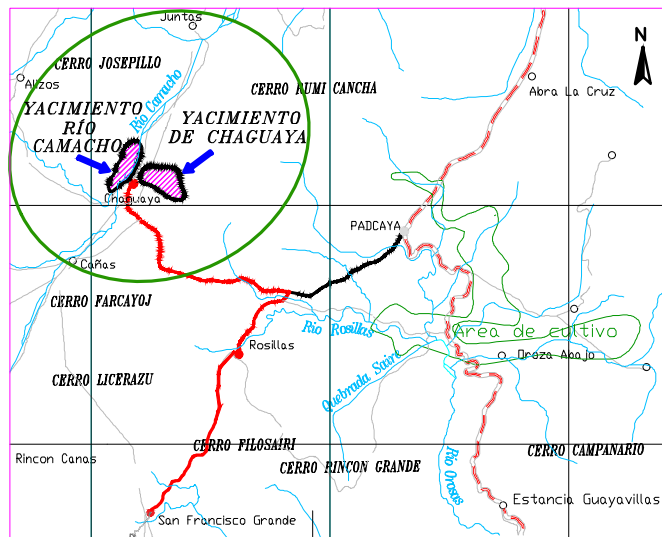


YACIMIENTOS CHAGUAYA



YACIMIENTO RÍO CAMACHO

16-geolab\chaguaya\padcaya



UNIVERSIDAD AUTÓNOMA JUAN  
RULFO SALCEDO

FACULTAD DE CIENCIAS Y TECNOLOGÍA

Departamento:

Topografía y Vías de  
Comunicación

Carrera:

Ingeniería Civil

Examinador:

Diego A. Pascual Tijerina

Revisor Técnico:

Ing. Oscar Marcelo Chaves

Jefe de Departamento:

Ing. Mario L. Torres Céspedes

Proyecto:

Trabajo de Grado de Ingeniería Civil  
Trabajo de Grado de Ingeniería Civil

Carácter:

PLANO DETALLADO DE EXTRACCIÓN DE MINERALES

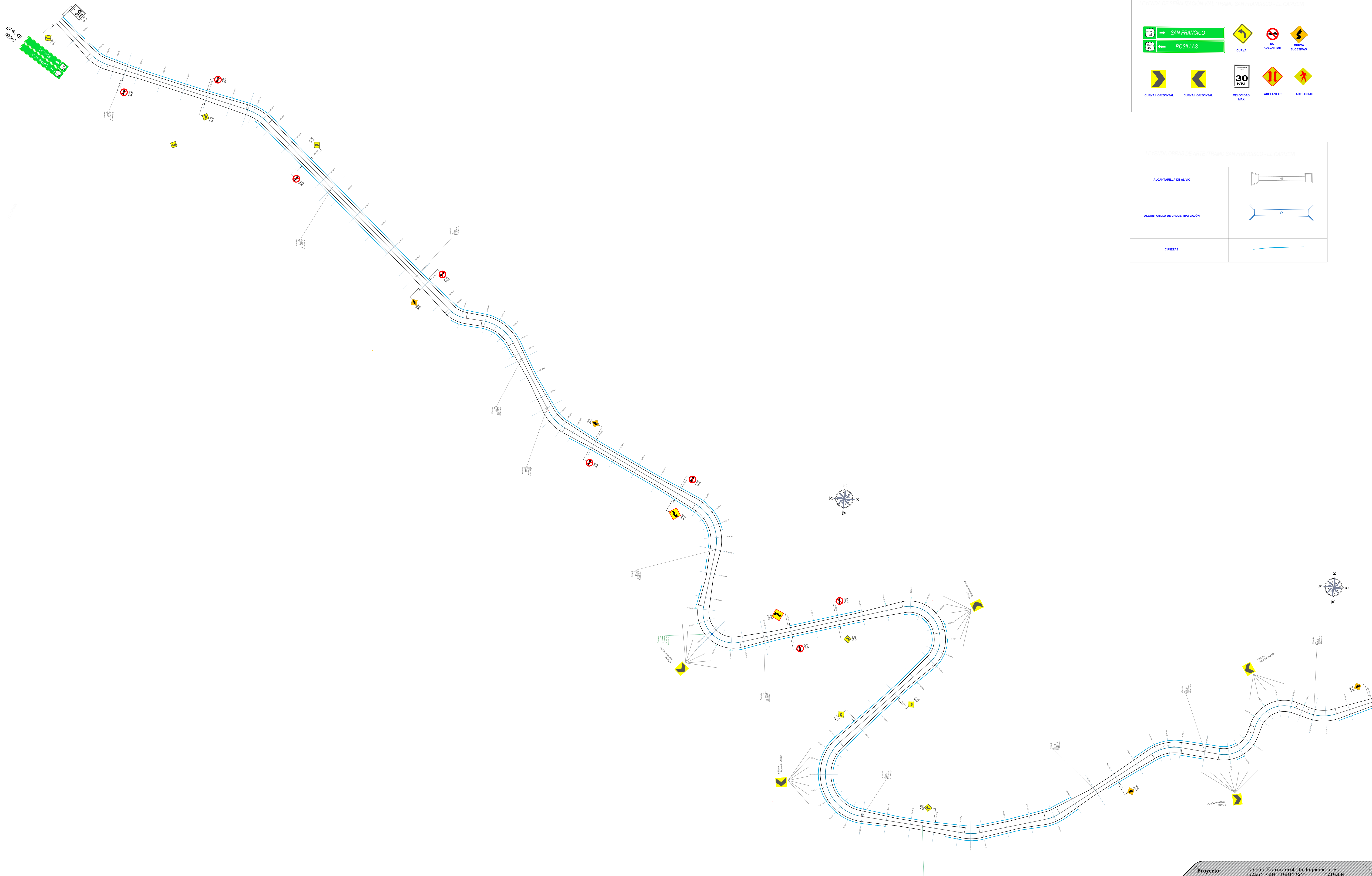
Fecha:

19/02/21

Estado:

PROYECTO

19/21



|                                                                |  |  |  |
|----------------------------------------------------------------|--|--|--|
| LEYENDA DE SEÑALIZACIÓN VIAL (TRAMO SAN FRANCISCO - EL CARMEN) |  |  |  |
|                                                                |  |  |  |
|                                                                |  |  |  |
|                                                                |  |  |  |
|                                                                |  |  |  |
|                                                                |  |  |  |

|                                                            |  |
|------------------------------------------------------------|--|
| LEYENDA CURVAS DE ALIVIO (TRAMO SAN FRANCISCO - EL CARMEN) |  |
| ALCANTARILLA DE ALIVIO                                     |  |
| ALCANTARILLA DE CRUCE TIPO CAJÓN                           |  |
| CUNETAS                                                    |  |



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Departamento: Topografía y Vías de  
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Carrera: Ingeniería Civil

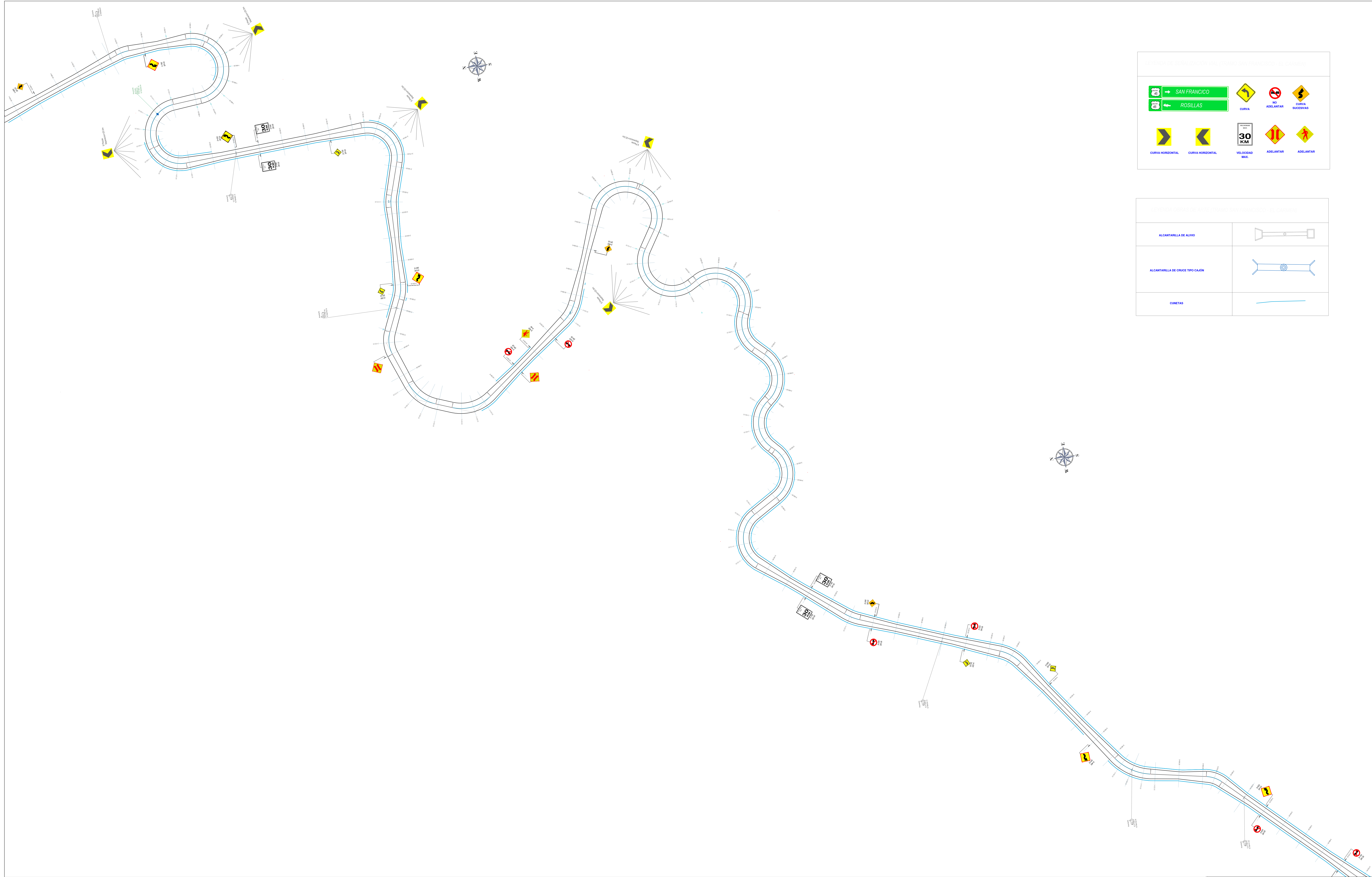
Universitario:  
Diego A. Pimentel Tejerina.

Docente Tutor:  
Ing.Oscar Marcelo Chavez.

Jefe de Departamento:  
Ing.Mario L. Ticona Copa.

Proyecto: Diseño Estructural de Ingeniería Vial  
TRAMO SAN FRANCISCO - EL CARMEN  
Carácter: PLANO DE SEÑALIZACIÓN VIAL  
Fecha: AGOSTO 2020  
Escala: INDICADA

Lámina N°  
13/21



| LEYENDA DE SEÑALIZACIÓN VIAL (TRAMO SAN FRANCISCO - EL CARMEN) |                  |  |                  |  |                |
|----------------------------------------------------------------|------------------|--|------------------|--|----------------|
|                                                                | SAN FRANCISCO    |  | CURVA            |  | NO ADELANTAR   |
|                                                                | ROSILLAS         |  | CURVA SUCESIVAS  |  |                |
|                                                                | CURVA HORIZONTAL |  | CURVA HORIZONTAL |  | VELOCIDAD MAX. |
|                                                                | ADELANTAR        |  | ADELANTAR        |  | ADELANTAR      |

| LEYENDA OBRAS DE ARTE (TRAMO SAN FRANCISCO - EL CARMEN) |  |
|---------------------------------------------------------|--|
| ALCANTARILLA DE ALIVIO                                  |  |
| ALCANTARILLA DE CRUCE TIPO CAJÓN                        |  |
| CUNETAS                                                 |  |

