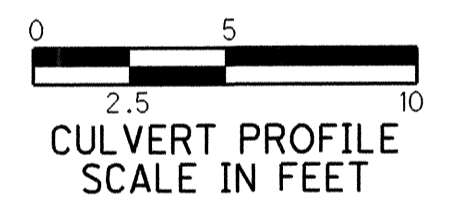


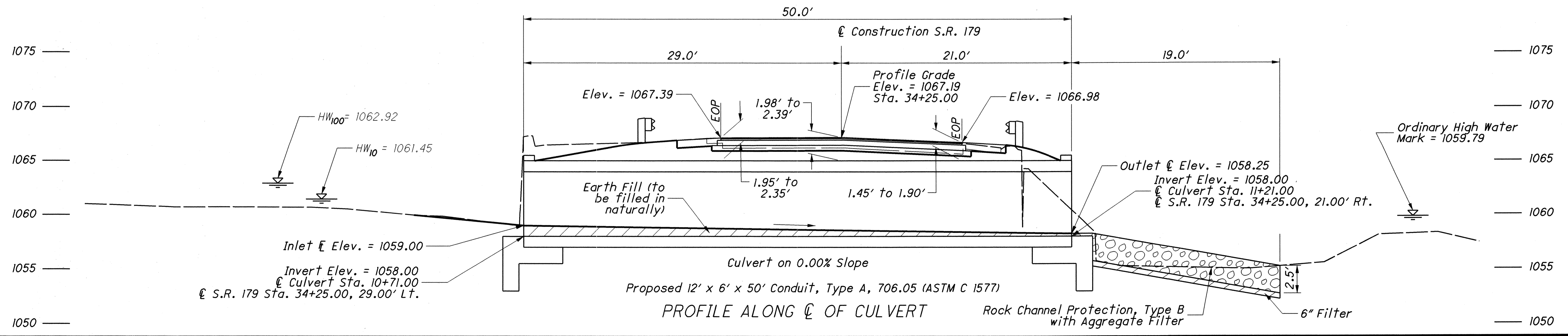
| PROPOSED STRUCTURE DATA | |
|---|--------------------|
| TYPE: Prefabricated Reinforced Concrete Box Culvert | |
| SPAN LENGTH: 12.0' Along ℓ | |
| ROADWAY WIDTH: 32.0' f/f Rail | |
| LOADING: HL93 | |
| SKEW: None | ALIGNMENT: Tangent |
| CROWN: Normal | |
| WEARING SURFACE: Asphalt Concrete Pavement | |
| STRUCTURAL FILE NUMBER: 3802051 | |
| APPROACH SLAB: None | |

| EXISTING STRUCTURE DATA | |
|--|--------------------|
| TYPE: Corrugated Metal Pipe Arch | |
| SPAN LENGTH: 10.0' Along ℓ | |
| ROADWAY WIDTH: 39.18' f/f Rail | |
| LOADING: H-15 | |
| SKEW: None | ALIGNMENT: Tangent |
| CROWN: Normal | |
| WEARING SURFACE: Asphalt Concrete Pavement | |
| STRUCTURAL FILE NUMBER: 3802043 | |
| APPROACH SLAB: None | |
| DATE BUILT: 1937 | |

| CALCULATIONS |
|--|
| ITEM 601 - ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER |
| CADD AREA = 412.5 S.F. |
| 412.5 s.f. x 2.5' + 27 = 38.2 C.Y. (use 38 C.Y.) |
| Quantity Carried To General Summary |



| HYDRAULIC DATA | | |
|--|------------|---------------------|
| DRAINAGE AREA = 173 Acres (0.27 sq. miles) | | |
| DISCHARGE | VELOCITY | HEADWATER ELEVATION |
| $Q_{10} = 138$ cfs | 5.75 ft/s | 1061.45 |
| $Q_{100} = 279$ cfs | 11.83 ft/s | 1062.92 |



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