NEW CONNECTION COSTS

FREDERICKSBURG
TRANSPORTATION PROJECTS STUDY

COST CONSIDERATIONS

For each extension project, several items were included to ensure that the project cost covers an "all-in" amount. The following were included in the total costs presented:

Construction of roadway cross section

Bridges over floodplains

Acquisition of new **Right-of-Way** (most projects use some existing Right-of-Way)

Widened roads at intersections for **turn lanes**

Engineering **design costs**

New traffic signals at major intersections and new connection endpoints

BENEFIT-COST ANALYSIS

To determine a value of benefit for each of these projects, a method developed by the Texas Transportation Institute was used. Delay savings were calculated for an entire year and multiplied by a value of time of $20/hour. In addition, fuel savings were calculated from the traffic model and gas costs were assumed to be an average of $3.00 per gallon. The annual benefit was calculated for a 20-year period to match the 2040 study year for traffic volumes, which matches the typical life cycle of a road.