CR 59 Widening from CR 48 to CR 111/Kirby Dr.

Application ID 300399

Criteria used in Safety Benefits Spreadsheet

Preventable Crash History: Imported from information supplied by H-GAC.

Year Open to Traffic: From project schedule.

Appropriate Crash Reduction Factor: From Texas Department of Transportation Highway Safety Improvement Program (HSIP) Work Codes Table.

538 Convert 2-Lane Facility to 4-Lane Divided

45% Reduction Factor

20 year service life

Daily Travel Demand:

2018 Volume: From H-GAC file “multiyear\_vol.lpk”

2018 Capacity: From HGAC Model Daily Capacities - Dec 2014.xlsx for Out of suburban, H-GAC\_Ftype 17, Collector, 4 lane

2025 Volume: 2025 volumes were not input into the analysis because we believe there is an error in the projections. The data shows that the volumes decrease for year 2025.

2025 Capacity:

2040 Volume: From H-GAC file “multiyear\_vol.lpk”

2040 Capacity: From HGAC Model Daily Capacities - Dec 2014.xlsx for Out of suburban, H-GAC\_Ftype 17, Collector, 4 lane

Criteria used in Generic Benefit Discounting

Brazoria County maintenance consists of full depth pavement recycling on average ever 7-8 years, depending upon location. The last time CR 59 was given a full depth rebuild was in 2003 and after inspection has shown to be at the end of its useful life. Costs for full depth recycling were input for every 8 years starting in 2018.