

INPUTS

Project Identification

Project Title:	SH99 Mainlanes
County	Fort Bend
Facility Type	Freeway
Street Name:	SH99 the Grand Parkway
Limits (From)	north of FM1464
Limits (To)	south of West Airport
Length (in Miles)	3
Application ID Number:	274
Sponsor ID Number (CSJ, etc.):	

	Data entered by the sponsors
	HGAC regional travel demand model data provided by HGAC
	Data populated/calculated based on inputs
	Benefits calculated by the template

Proposed Improvements Information

Year Open to Traffic? (Must be >=2021)	2022
Type of Improvement	Adding New Lanes or Roads
Estimated Delay Reductions (in %)	40%
Service Life (years):	30

Interim Calculations for Delay Reductions

Estimated Free flow Travel Time (in Hrs)	0.0500
Estimated Average Travel Time without project (in Hrs)	0.0667
Estimate Average Delay without project (in Hrs)	0.0167
Estimate Delay Reduced	0.0067
Estimated Delay with project	0.0100
Average Peak Travel Time with project	0.0600

Daily Travel Demand

2018 ADT	53719
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2018 Peak Period Traffic Volume	24,174
Peak Period Traffic Volume in Year Open to Traffic	31,532

VHT Improvements	<i>With Project</i>
VHT (Daily) In year open to traffic	1,892

Estimated Free Flow Speed before improvement	60
Average Peak Period Corridor Speed before improvement	45
2018 Peak Period Traffic Volume	24,174
2018 Peak Period Roadway Capacity	30,968
Estimated 2025 Peak Period Traffic Volume	38,486
2025 Peak Period Roadway Capacity	92,092
Estimated 2045 Peak Period Traffic Volume	106,435
2045 Peak Period Roadway Capacity	92,092

OUTPUTS

Benefit Results

Discounted Delay Benefits @ 7% (2018 \$, '000s)	\$37,100
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