

# SR 789 (Longboat Key) PD&E Study from North Shore Road to Coquina Park Entrance



## Alternatives Evaluation Matrix

Evaluation Criteria		'No-Build' Alternative	Alternative 1: Low Level Bascule Bridge	Alternative 2: Mid Level Bascule Bridge	Alternative 3: High Level Fixed Bridge
BENEFITS	Addresses the age and existing conditions of the bridge				
	Provides improvements to bicycle and pedestrian facilities				
	Enhances safety for all users including emergency evacuation				
BRIDGE	Vertical Height above Mean High Water	17 feet	23 feet	36 feet	78 feet
	Horizontal Width Between Fenders	50 feet	90 feet	90 feet	90 feet
	Benefit to Marine Traffic	No change – Existing bridge opens 100-300 times per month	Yes – Reduces number of bridge openings by 4%	Yes – Reduce number of bridge openings by 35%	Yes – Eliminates the need for bridge openings
	Estimated Life of Alternative (Years)	10	75	75	75
RIGHT-OF-WAY IMPACTS	Number of Residential and Business Parcels Potentially Impacted	0	0	0	0
	Community Resource Parcels Potentially Impacted (Acres)	0	0.08	0.08	0.35
	Additional Right-of-Way Required	0	0	0	0
UTILITY IMPACTS	Utilities Potentially Impacted (distribution, transmission)	No change	7 Utility/ Agency Owners	7 Utility/ Agency Owners	7 Utility/ Agency Owners
ENVIRONMENTAL	Potential Impacts to Threatened and Endangered Species	No change	Low	Low	Low
	Potential Contamination Sites (high/medium risk)	No change	0/0	0/0	0/0
	Impacts to Wetlands (acres)	No change	0.10	0.10	0.10
	Impacts to Seagrasses (acres)	No change	0.22	0.22	0.22
	Section 4(f) Sites / Public Lands Potentially Impacted	No change	1	1	1
	Number of Historic Sites and Archaeological Sites Potentially Impacted	No change	0	0	0
	Number of Noise-sensitive Areas	No change	4	4	4
	Aquatic Preserves / Outstanding Florida Waters (acres impacted)	No change	0/3.23	0/3.23	0/3.22
COST	Design	\$0	\$7.5 million	\$7.5 million	\$4.5 million
	Right-of-Way Acquisition	\$0	\$0*	\$0*	\$0*
	Construction	\$0	\$112.2 million**	\$112.9 million**	\$79.3 million**
	Construction Engineering and Inspection (CEI)	\$0	\$13.5 million	\$13.5 million	\$9.5 million
	<b>Total Project Costs</b>	<b>\$0***</b>	<b>\$133.2 million***</b>	<b>\$133.9 million***</b>	<b>\$93.3 million***</b>
*Right-of-way needed at Coquina Beach is county owned.					
**Costs to relocate utilities are not included.					
***Does not include annual maintenance costs and major repairs. The No-Build Alternative would involve increasingly costly maintenance and repair projects causing continued disruption to traffic.					

**Preliminary - Subject to Change**