



December 11, 2017

Alternatives Evaluation Matrix

EVALUATION FACTORS	No-Build Alternative (Repair) ¹	Alternative 1 Low-Level Drawbridge Gulf Side Alignment	Alternative 2 Low-Level Drawbridge Bay Side Alignment	Alternative 3 High-Level Fixed Bridge Gulf Side Alignment	Alternative 4 High-Level Fixed Bridge Bay Side Alignment
Vertical Navigation Clearance	24.5 ft	24.5 ft	24.5 ft	60 ft	60 ft
Horizontal Navigation Clearance	50 ft	50 ft	50 ft	90 ft	90 ft
Right-of-Way Impacts					
Parcels Impacted	0	0	0	0	0
Relocations (Business/Residential)	0/0	0/0	0/0	0/0	0/0
Right-of-Way Acquisition	0 ac	0 ac	0 ac	0 ac	0 ac
Social, Natural, and Physical Resources					
Species/Habitat Potential Impacts	None	Medium	Medium	Medium	Medium
Potential Contamination Sites (Medium/High)	0/0	0/1	0/1	0/1	0/1
Wetland Impacts	0 ac	0.07 ac	0.07 ac	1.9 ac	1.9 ac
Seagrass Impacts	0 ac	0 ac	0 ac	0 ac	0 ac
Live Bottom Impacts	0 ac	0 ac	0 ac	0 ac	0 ac
Archaeological and Historic Site Impacts	None	None	None	None	None
Traffic Noise Impacts	None	Low	Low	Low	Low
Public Parks and Recreational Areas Impacts	None	Low	Low	Low	Low
Aquatic Preserve Impacts	None	None	Low	None	Low
Utility Impacts					
Bonita Springs Utilities	None	Low	Low	Low	Low
Century Link	None	Medium	Low	Medium	Low
Comcast	None	Low	Low	Low	Low
Florida Power and Light	None	Medium	Low	Medium	Low
Lee County Utilities	None	Medium	Low	Medium	Low
Town of Ft. Myers Beach	None	Low	Low	Low	Low
Estimated Project Costs (2017 Dollars)²					
Design (10% of Construction Cost)	\$2,448,000	\$5,059,000	\$5,045,000	\$4,012,000	\$4,012,000
Right-of-Way	\$0	\$0	\$0	\$0	\$0
Roadway Construction	\$0	\$2,085,000	\$1,946,000	\$5,426,000	\$5,426,000
Bridge Construction	\$24,478,000	\$48,509,000	\$48,509,000	\$34,695,000	\$34,695,000
CEI (10% of Construction Cost)	\$2,448,000	\$5,059,000	\$5,045,000	\$4,012,000	\$4,012,000
Subtotal, Initial Capital Investment	\$29,374,000	\$60,712,000	\$60,545,000	\$48,145,000	\$48,145,000
Bridge Lifecycle Maintenance and Operations	\$10,846,000	\$106,891,000	\$106,871,000	\$39,626,000	\$39,626,000
Total Project Cost	\$40,220,000³	\$167,603,000	\$167,416,000	\$87,771,000	\$87,771,000
Life of Alternative	20 years	75 years	75 years	75 years	75 years

Notes:

(1) The No-Build Alternative bridge repairs will extend the useful life of the bridge by approximately 20 years, after which replacement will be required.

(2) Costs are estimated for the life of the alternative using a 4% inflation rate.

(3) Cost for 20-year life of the No-Build Alternative. Total 75-year cost with bridge replacement at the end of the 20-year life of the No-Build Alternative is:

- (a) \$183M if replaced with a High-Level Fixed Bridge, or
- (b) \$276M if replaced with a Low-Level Drawbridge.