Comparison of Reasonable Alternatives

Screening Factor	No Build	Red Adjacent Upstream	Yellow Adjacent Upstream Improved Alignment	Preferred Green Adjacent Downstream
Estimated Project Cost				
Construction cost	\$0*	\$66,071,166	\$64,562,684	\$50,411,490
Right-of-way cost	\$0*	\$5,913,000	\$5,838,800	\$3,770,100
Total project cost	\$0*	\$71,984,166	\$70,401,484	\$54,181,590
Public Input				
Public input		Somewhat	Somewhat	
(supports, somewhat supports, doesn't support)	Doesn't support	supports	supports	Supports
Right of Way Impacts				
Number of parcels impacts	0	16	18	15
Residential Relocations	0	0	0	0
Commercial Relocations	0	3	3	1
Right of Way (ROW) Considerations				
New ROW anticipated (acres)	0	10.95	13.24	10.40
Existing ROW use (acres)	0	8.08	10.23	8.08
Number/type potential displacements	none	3 businesses	3 businesses	1 business
Land acquisition from federal agency (acres)	0	5.96	5.42	7.13
Potential Environmental Considerations				
Floodplain (1% base; lineal feet crossed)	no impact	4,780	5,780	4,055
Regulatory floodway (feet crossed)	no impact	4,630 8.3 acres	5,350 7.5 acres	3,920 8.5 acres
Threatened/endangered species ^a	none	tree clearing ^b	tree clearing ^b	tree clearing ^b
Wetlands				
Forested wetland (acres)	0	4.31	3.36	6.93
Emergent wetland (acres)	0	0.96	2.05	0.39
Hazardous waste location (underground tanks)	not applicable	3 gas stations	3 gas stations	2 gas stations
Section 4(f) public parks/lands (acres)	0	2.66	3.56	0
Farmland (acres)	0	<1.0	<1.0	<1.0
Potential Socioeconomic/Community Considerations				
Travel time (increased, no change, improved)	no change/may worsen over time	improved	improved	improved
Emergency services (no change, improved)	no change/may worsen over time	improved	improved	improved
Public school services (no change, improved)	no change/may worsen over time	improved	improved	improved
Business impacts (# of affected businesses & employees)	none	3 businesses 18 employees	3 businesses 18 employees	1 business 10 employees
Bicycle/pedestrian access (no change, improved access)	no change/may worsen over time	improved	improved	improved
Community access (no change, improved access)	no change/may worsen over time	improved	improved	improved
Noise impacts/mitigation considered	none	no mitigation required**	no mitigation required**	no mitigation required**
Navigable Channel	none	slight temporary reduction	slight temporary reduction	slight temporary reduction
Potential Cultural Resource Considerations				0
Potential Cultural Resource Considerations Archaeological sites (total)	0	7	7	2
	0 no adverse effect/not a use	7 adverse effect/use		adverse effect/use
Archaeological sites (total) National Register of Historic Places(NRHP) eligible / Section	no adverse			adverse

*No Build would eventually deteriorate to the point where the existing bridge would require major rehabilitation to remain in service, with costs approximately \$420,000.

^aSurveys for federally listed threatened or endangered mussel species indicate that they are not present.

^b Acres of tree clearing represent potential impacts to Indiana bat and northern long-eared bat.

^c Red and Yellow alternatives— Direct impact to the hotel, which is potentially eligible for the NRHP.

^d Green alternative – Visual impacts for the hotel and one other building, both potentially eligible for the NRHP; however, based on preliminary consultation there would not be an adverse effect.

**Noise – project type requires no noise study or mitigation (see page 58)