

IL 100-106 Alternatives Carried Forward Cost and Impact Matrix – October 2018

Category	Measure	4A	4C	4C/D	5B
		100 feet north	100 feet south	300 feet south	4,500 feet south
New Right-of-Way	Acres	27.3	32.9	45.8	90.1
Estimate of Probable Construction Cost	Current (Millions of Dollars) \$ M	\$70.6M	\$77.6M	\$77.3M	\$72.1M
Main Bridge Length	Feet	3,165	3,167	3,167	1,816
New Roadway Length	Miles	0.8	1.0	1.2	3.6
Adverse Travel (Florence)	User Delay Cost (\$/yr.)	\$11.5K	\$17.2K	\$20.1K	\$136.8K
Adverse Travel (Through Travel)	User Delay Cost (\$/yr.)	\$0	\$0	\$0	\$0
Constructability ^A	Subjective (described)	1	1	1	4
Forest Land ^B	Acres	16.9	30.4	38.4	26.9
Wetlands ^C	Acres	14.8	13.4	12.4	5.2
Wet Floodplain Forest	Acres	6.3	8.2	12.0	5.0
Wet Forbland	Acres	3.2	3.9	0.0	0.0
Wet Meadow	Acres	4.7	1.4	0.4	0.2
Wetland Pond	Acres	0.6	0.0	0.0	0.0
Water Feature Crossed ^D	Each	1	3	3	1
River Crossing (Illinois)	Each	1	1	1	1
Lake Crossing (Ferry)	Each	0	1	1	0
Other	Each	0	1	1	0
Floodplain ^E	Acres	26.2	25.4	25.5	41.1
Floodplain	Miles	0.97	0.97	1.02	1.75
Prime Farmland ^F	Acres	13.0	7.3	14.9	59.0
Inventoried Natural Areas ^G	Acres	3.0	3.3	2.9	0.0
Potential Mussels Disturbance ^H	Present - #	215	270	86	197
Regionally Noteworthy Botanical Resource Area ^I	Acres	0.2	1.9	2.6	0.0
Threatened & Endangered Species Presence					
Decurrent False Aster ^J	Present - #	1.25	1.15	0.49	0
Cultural Resources (Section 106/ Section 4(f))		4	3	2	10
Displacements (Residential) ^K	Each	0	0	0	6
Displacements (Commercial)	Each	1	0	0	0
Parcels with Right-of-Way Impacts	Each	7	9	9	31
Divided Parcels	Each	2	1	1	9

- A. “Constructability” refers to difficulty of construction, subjectively rated, with 1 being the most difficult and 4 being the least difficult.
- B. Forest Land evaluated by aerial photographs.
- C. Wetlands evaluated by field verified delineations (Illinois Natural Heritage Survey (INHS), July and August, 2017). Wetland totals may not sum due to rounding.
- D. Water Features Crossed distinguishes the Illinois River, Ferry Lake, and the unnamed body of water east of Ferry Lake.
- E. Floodplains evaluated by the 2016 files maintained by the Federal Emergency Management Agency (FEMA).
- F. Prime Farmland evaluated by available data from previous studies.
- G. Inventoried Natural Areas are from the Illinois Heritage Database (IHD, 2016).
- H. Potential Mussel Disturbance reports the number of mussels found and relocated during an INHS survey (August 2017). No state or federal listed threatened or endangered species were found.
- I. Regionally Noteworthy Botanical Resource Area report area assessed by the INHS (September 2018). No state or federal listed threatened or endangered species were found.
- J. Decurrent False Aster reports area of plant habitat assessed by the INHS as surveyed (June 2017).
- K. Displacements are based on available photographs and parcel boundaries from Pike and Scott counties (2016).

Color-Code Key

Relatively high benefit or low impact
Relatively moderate benefit or moderate impact
Relatively low benefit or high impact