

TIGER Grant Application - 2017

Criteria	Current Status (Baseline)	Planned Improvement	Benefit
Safety	83 year old bridge utilizing a structural method no longer accepted	Construct new bridge utilizing current approved construction methodology	75 year useful life Ensured economic and employment access
	Structurally deficient and functionally obsolete	Construct to current design standards	Improved safety for all vehicle and modal types
State of Good Repair	Poor geometrics for current volumes and weight	Incorporate approach geometry into new structure	Improve travel time by eliminating speed reductions Minimize structural stress
	High likelihood of 4-week closure within 5 years	Replace inherently weak construction methodology with more reliable system	Eliminate long closure
	High likelihood of one - year closure within 10 yrs	Same	Maintain essential economic, recreational, safety connections
Economic Competitiveness	Vulnerable economically viable access to critical markets with national significance	Design for redundancy Connect with existing alignment in an integrated system	Reliable, continuous access to markets Increase speeds, delivery time safely
Quality of Life	No non-motorized alternatives meeting current design standards	Construct wider shoulders and wider, more protected pedestrian and bicycle pathways	Enhance non-motorized safety Support and encourage non-motorized usage
Environmental Sustainability	Only detour route to markets is 94 miles	New structure designed to withstand all predictable eventualities	Maintain air quality by avoiding heavy truck detours Ensure continued convenient recreational access
	Current approach alignment does not protect adjacent wetlands or wildlife habitat	Map, evaluate and protect natural areas using context sensitive design	Protected natural habitat
	Current structure does not manage water run-off	New structure will manage run-off	Protect water quality in the river
Innovation	Alignment, structural design and context integration was developed 83 years ago Existing project was constructed using the traditional design-bid-build concept	Incorporate interdisciplinary team analysis into project development process Explore using alternative construction approaches such as design-build or GCCM	Assurance that project will be integrated into the entire community for its design life - 75 years Lower overall construction costs and potential construction schedule improvements
Partnership	Originally constructed by a single entity with no public input or partnership collaboration	Develop project through robust planning process including multiple stakeholders	Integration of new structure into local, regional and state plans and existing projects; local support for a regionally significant project