

**2022 Safe Streets for All (SS4A) Potential Grant Application Projects and Initiatives**

Abbreviations

CATSO LRP=Columbia Area Transportation Study Organization Long Rang Transpiration Plan

VZ=Vision Zero Action Plan and formally identified initiatives

Complete Streets=City of Columbia adopted policy and street standards for Complete Streets

ADA=Americans with Disabilities Act

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Project or Initiative Item	Anticipated cost	Known plans/policy alignment	Notes
Highway Safety Manual Analysis CATSO priority planned projects	\$650,000	CATSO LRP, VZ	Hire consultant to pursue HSM analysis of around 50 to 60 potential 2025 Ballot Initiative projects (approximately 80-100 hours each project - \$10-15k each). This would help to provide the best framework in developing information to select future ballot initiative projects.
Road Safety Audits	\$300,000	VZ	Hire consultant(s) to coordinate safety audits of roads with high numbers of serious injury and/or fatality crashes.
Targeted High Friction Surface Treatment analysis and installation	\$500,000	CATSO LRP, VZ	Targeted locations in the City that could be made safer with HFST and install. (Examples: near mid-block crosswalks, curves, specific intersections, etc.). Would use VZ Crash Analysis data to guide process.
Clark Lane reconstruction Creekwood Parkway to Ballenger	\$7,000,000	Complete Streets, CATSO LRP	Reconstruct a roadway with limited non-motorized facilities that has vertical alignment concerns to a great street with complete bicycle and pedestrian facilities. Eliminate vertical alignment issues and evaluate/pursue horizontal alignment modifications along a previous farm to market road that was previously maintained by MODOT. In 2014, the City in partnership with MoDOT, invested money in improving the shoulders and bicycle facilities and to improve pedestrian accommodation to some degree. However, the current configuration, while better than previous, is not up to desired standards and does not serve all

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			<p>modes of transportation as well as it should. Completion of non-motorized infrastructure along route connects people to Hominy Trail/MKT/Katy - essentially the last mile to be able to bicycle to Jefferson City or even St. Louis as well as serving to connect essential services for all modes of transportation. --- Design to reduce speeds, prevent lane departures and improve non-motorized facilities. Access modification/turn improvements. Addresses some transportation equity issues for neighborhoods that were previously identified by the city as high need. This project could be a candidate for the 2025 ballot initiative, but if funding is secured with this grant, the construction of improvements could be accelerated by 5-10 years.</p>
<p>Analysis of potential effectiveness of pursuing High Friction Surface Treatment (HFST) for entire length of US 63 and I-70 through entire CATSO area</p>	\$150,000	CATSO LRP, VZ	<p>Hire consultant to complete HSM analysis of likely effectiveness along high injury/fatality corridors.</p>
<p>High Friction Surface Treatment targeted locations Route B - curves and intersections or other safety improvements for the corridor</p>	\$1,200,000	VZ	<p>Up to 12 intersections, 4 curves - along high-injury/fatality corridor. While the Route B Road Safety Audit (RSA) process is ongoing and will not be complete prior to the grant application needing to be submitted, it is highly likely that HFST would be a beneficial for some areas based and other specific safety improvements will be identified. It is possible that fully implementing whatever recommended improvements come from the RSA would likely cost more than this amount. The RSA will provide a good framework to potentially pursue future funding</p>

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			opportunities from any source possibly including additional SS4A funding, but it is thought that pursuing some funding now will help accelerate safety improvements.
Enhanced road markings	\$600,000	CATSO LRP, VZ	Implement enhanced marking - hire contractor to mark approx. 250 miles of system over the course of a year. This is a key piece of VZ implementation identified by Engineering Team analysis moving forward. However, this will need additional review to determine grant eligibility.
Enhanced signing	\$400,000	CATSO LRP, VZ	Upgrade signing to all fluorescent yellow green signs for all pedestrian oriented signing, upgrade curve and warning signs to florescent yellow, upgrade curve and warning signs throughout the system for most recent MUTCD. This is a key piece of VZ implementation identified by Engineering Team analysis moving forward. However, this will need additional review to determine grant eligibility.
Mitigation or improvement for sight distance concerns, left turn conflict elimination and access management for the system	\$400,000	CATSO LRP, VZ	Identify potential locations and implement in accordance with CATSO Long Range Plan, VZ crash analysis data and VZ plan.
Bicycle and Pedestrian Safety Infrastructure improvement along Route B/Paris Rd	\$500,000	Parks Master Plan/Ballot initiative, Complete Streets, VZ	Side path design along MO Route B. This project has been identified as part of August 2021 Parks Ballot Initiative. There are many questions as to design features. More will be known after the current Route B Road Safety Audit. This should be considered a Complete Streets enhancement. Phase 1 design would

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			be more feasible for first-year funding and could help to accelerate the project.
Scott/Wales/Broadway sidewalk project	\$1,200,000	Complete Streets, VZ	Sidewalk both sides of Scott Boulevard/ Wales/Broadway from Silvey to Smith/Rollins (currently not a connected sidewalk network/no sidewalk in parts). Along a busy arterial in an area between residential & commercial areas.
Broadway sidewalk project - south side Stadium to Clinkscales including enhanced pedestrian crossings	\$2,000,000	Sidewalk Master Plan, Complete Streets, CATSO LRP, VZ	Would include at least one major crossing of Broadway between Stadium & Broadway. The complexity of this project makes it better suited to split planning/design and construction phases into separate grant periods. Phase 1 – planning/design, Phase 2 – construction. This has been a part of the Sidewalk Master Plan since 2004.
High Injury Network Analysis Update	\$250,000	VZ	Hire engineering consultant for analysis and upgrading our high injury network mapping system. This would serve as the foundation for the City’s updated Vision Zero Action Plan.
ADA Transition Plan Implementation	\$300,000	ADA Transition Plan, VZ	Any funding received would be used to accelerate implementation of the plan. The City currently spends \$250,000 to \$1,000,000+ per year.
Comprehensive re-examination of Complete Streets Policy	\$350,000	Complete Streets, VZ	Obtain engineering expertise to coordinate a comprehensive review of the City's 2005 adopted complete streets policy and subsequent modifications that development ordinances for curvilinear design requirements.

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Behavioral modification strategies	\$163,000	VZ	Expertise and implementation of branding and cultural modification strategies including media, promotional and behavior modification initiatives. Initiatives could include rebooting/expanding Smart Road User Program, youth traffic safety education initiatives,
Comprehensive examination of signals for leading pedestrian intervals	\$300,000	VZ	Systemic examination of all signals within the CATSO area for what components/modifications need to be installed to modify locations to incorporate leading pedestrian intervals. Documented policy for transitioning to leading pedestrian intervals. Implementation with funding available.
Lane departure mitigation	\$250,000	VZ	Examine areas throughout the City where proven countermeasures could be used to mitigate lane departures.
Enhanced traveler assistance coverage & emergency response improvements	\$25,000	VZ	Partnership with MoDOT to improve crash team response and offer training. Examination of strategies to include with I-70 projects to improve emergency response to major Interstate incidents. Continued examination of Push, Pull, Drag for emergency response to help eliminate secondary crash issues. Although these types of activities are directly related to Vision Zero traffic safety concerns, it is currently unknown if this project would be eligible for funding from this specific grant and will require further analysis.
GoCoMo comprehensive transit route study	\$150,000	VZ	50 percent match for a comprehensive transit route study. The City is currently working to identify funding for this study. Receiving the grant could help accelerate and enhance the study as well as improved Transit access being indicated as a key long term component of Vision Zero strategies.

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Bus shelter installation	\$100,000	VZ	Bus shelter and sidewalk improvements for up to 4 locations in core areas that are unlikely to change with the comprehensive study. Focus on accessibility. Additional locations in future years may be candidates after the comprehensive study is complete.
Bus shelter preliminary engineering and surveying for new locations identified as part of the comprehensive transit route study	\$50,000	VZ	Preliminary engineering and surveying along routes selected as part of the comprehensive route study. Would allow moving forward with shelter installation as soon as possible for new routes - Phase 1 of 3 anticipated phases. Additional locations in future years may be candidates after the comprehensive study is complete.
Sidewalk design and construction for locations identified as part of the comprehensive transit route study	\$250,000	VZ	Survey, engineering, and construction along routes selected as part of the comprehensive route study. Would allow moving forward with shelter installation as soon as possible for new routes by closing critical gaps - Phase 1 of 3 anticipated phases.
Create Pedestrian Level of Comfort Map	\$100,000	Sidewalk Master Plan	Obtain engineering expertise to develop a pedestrian level of comfort methodology and code the pedestrian network. This effort will enable sophisticated analysis of connectivity within geographic areas and to public facilities that will support sidewalk master plan recommendations and help to prioritize pedestrian improvements.
Development & implementation of municipal traffic offense diversion program	\$28,000	VZ	Hire consultant to help design and offer Vision Zero-based traffic safety diversion course specifically for City’s Municipal Court. Class would be intended to modify dangerous driving behavior and to address equity issues with court fines.

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Emergency traffic direction equipment for first responders to implement TIM	\$50,000	VZ	Provide first responders with equipment necessary to implement Traffic Incident Management in accordance with best practices.
Mid-block crosswalk installation and conversions	\$150,000	CATSO LRP, Sidewalk Master Plan, Complete Streets, VZ	Improve/install a minimum of 5 mid-block crosswalks to include a median refuge island and rapid rectangular flashing beacons. The City has a number of these already and they are on the list of FHWA proven countermeasures.