FIX I-44

FY2022 MPDG Grant Application

APPENDIX F

MEGA PROJECT PERFORMANCE MEASURES

Freight, Innovation and Safety for the Ozarks

FY2022 MPDG – Project Performance Measures (MEGA Program)

The FIX I-44 Project proposes numerous improvements to significantly improve the capacity and safety of the I-44 and MO 13 project corridor in Springfield, MO, including widening I-44 and reconfiguring/replacing the existing I-44/MO 13 Interchange reconfiguration to improve capacity and enhance safety, amongst other notable improvements.

The success of the proposed improvements can be quantified in several measures. Currently, I-44 and MO 13 service approximately 64,600 and 21,000 vehicles daily, respectively. Traffic backups along MO 13 have reached upwards of 20 minutes in delays during special events and holiday weekends. I-44 traffic incidents have historically recorded durations of approximately 60 minutes on average, with each vehicle being delay almost 6.5 minutes. The project corridor has averaged 108 crash occurrences annually over the last 4 years, highlighting the critical safety importance to maintaining a safe and efficient travel corridor.

Following implementation, travel efficiency is expected to increase through reduced travel times, improved Level of Service (LOS), reduced incident bottlenecks and reduced crash frequency/severity. **The improvements listed above and those detailed in the Project Narrative and the benefits derived in the Benefit-Cost Analysis (BCA) demonstrate the monetary investment will result in significant societal benefits.** The table below identified key performance measures that attribute the project's performance. Proposed (Post) Performance Measures will be provided to USDOT within 6 years following the completion of construction.

MEGA PROJECT PERFORMANCE MEASURES					
Performance Measure	Unit Measured	Strategic Goal	Description	Existing Performance Measure	Proposed (Post) Performance Measure
Level of Service (LOS)	Rating (A-F)	Highway Capacity	The highway capacity rating per the TRB Highway Capacity Manual.	MO 13: LOS E I-44: LOS E	TBD
Travel Time Delay (MO 13)	Minutes	Congestion Reduction & System Reliability	The average peak travel time delay for MO 13 traffic compared to typical weekday traffic.	20 Minutes	TBD
Travel Time Delay (I-44)	Minutes	Congestion Reduction & System Reliability	The average incident delay per vehicle traveling along I-44 during Traffic Incident Events.	6.41 Minutes	TBD
Crash Occurrences	Number of Crashes	Safety	The average number of annual crash occurrences within the project corridor.	108	TBD
Pedestrian Connectivity	Number of Pedestrians	Multimodal Options	The average number of daily pedestrian and cyclist users along the Pea Creek Ridge Trail at the Doling Underpass.	0	TBD