



## MEMORANDUM

### Missouri Department of Transportation Design Southwest District

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**TO:** Stacy Reese  
District Engineer

**CC:** Assistant District Engineer – Greg Chapman  
District Design Engineer – John Sanders  
Design Liaison – Alvin Nieves-Rosario  
Area Engineer – Beth Schaller  
District Utility Manager – Jason Stweart  
District Construction Engineer – Johnny Teegardin  
Resident Engineer -  
District Maintenance Engineer – Darin Hamelink  
District Maintenance Superintendent -  
District Traffic Engineer – Cindy Dunnaway  
Traffic Center Manager – Marc Lewis  
Incident Management Coordinator – Ben Arnall  
TMC Traffic Specialist – Keith Chandler  
District Right of Way Manager – Andy Ellsworth  
District ADA Coordinator - Cameron Sooy  
District Geologist – Nicole Preuss

**FROM:** Transportation Project Manager – Warner “Bud” Sherman  
Transportation Project Designer – Kevin Fox

**DATE:** May 25, 2024

**SUBJECT:** Job No: J8S0836B  
Route MM  
Greene County  
Preliminary Plans Submittal/Approval

Preliminary plans are being submitted for review and approval. The scope of this project is to widen Route MM, from Interstate 44 (I-44) and James River Freeway (JRF) from 2-lanes to 5-lanes with curb & Gutter. A traffic signal will be installed at Farm Road 144 intersection.

Signal improvements planned with project J8S3239, which is adjacent to the north project limits at I-44.

The current milestone dates for this project are as follows:

R/W Plans	March 7, 2025
PS&E submittal	January 4, 2026
Letting	March 4, 2026

## DESIGN CRITERIA

A.A.D.T.	= 31,330
Trucks	= 6%
DHV	= 13%
Design Speed	= 45mph

## PAVEMENT

<b>Equivalent Pavement Design<sup>(1)</sup></b>				
<b>Location</b>	<b>Base Type</b>	<b>HMA Design</b>	<b>PCCP Design</b>	<b>Shoulders<sup>(2)</sup></b>
Route MM (Widening)	6" Type 5 Aggregate Base	11" HMA 2" SP125C w/ PG 70-22 over 2" SP125C w/ PG 70-22 over 7" SP250C w/ PG 64-22	9" PCCP 10" PCCP at 15 ft. joints w/ 1 ¼" dowels	A2 or Full Depth

(1) Refer to the EPG "Other Aspects of Pavement Design – Alternate Categories" for guidance on setting up alternate or optional pavement bid items for the contract or contact Central Office Design for assistance.

(2) Shoulders 4' or less in width may be constructed as full depth pavement as part of travel way.

## ADA

A future sidewalk will be added from Carnahan Road to JRF under Project J8S0836E.

## BRIDGE

There are no bridge involvements with this project.

## UTILITIES

Impacted utilities exist on the project. Most notably, overhead power lines run parallel with the west side of Route MM. Gas runs north and south along Route MM under the proposed pavement along with various fiber optic and telecommunication lines. Sanitary sewer manhole adjustments and various water line adjustments may be needed.

## RIGHT OF WAY

Right of way, permanent drainage, permanent utility, and temporary construction easements will be needed for the project.

- RW = 431,813.7 SF
- PDE = 62,438.0 SF
- TCE = 75,820.2 SF

## TRAFFIC CONTROL

Construction will be completed in stages with access to residences and commercial properties at all times. Route MM will be built under traffic keeping one lane of traffic in each direction.

## PUBLIC INVOLVEMENT

An initial public Meeting for the overall Route MM corridor was held on February 28, 2022 at the Republic Community Center to introduce the overall project concepts. An additional public hearing for this project specific improvements will be scheduled at a later date.

#### SAFETY

The widening of Route MM from a two-lane roadway to a five-lane roadway and improvements to intersection traffic control are expected to enhance the safety of the corridor. These improvements are expected to provide dedicated deceleration and stacking lanes for turning vehicles, reduce congestion along the mainline, allow for controlled turning movements to/from the side streets. As development occurs along Route MM and traffic increases, these improvements are expected to improve safety and vehicle operations compared to the existing two-lane conditions.

#### BRIDGE SIGHT DISTANCE

Not applicable as there is no bridge within project limits.

#### SOIL SURVEY

No soil survey been completed for the project.

#### DESIGN EXCEPTIONS

No design exceptions are anticipated.

#### ENVIRONMENTAL

Preliminary RES was submitted on 5.15.2023.

Since this project is located near an MS4 jurisdictional district, special consideration will be given during the design to ensure that overall stormwater quality is maintained, and applicable permitting processes (as required) will be followed. As the design process progresses, additional information will be provided to the Environmental Department to address any potential environmental impacts. Potential and known issues that will need to be addressed include:

- Mitigation of additional runoff including storm system outlet protection
- Area sinkholes
- Overall disturbed areas.

#### RAILROAD

There is no railroad coordination, impacts, or involvement with this project.

#### AIRPORT

The Springfield - Branson National Airport is within four miles of the project, therefore a FAA filing maybe needed.

#### AGREEMENTS

Municipal Agreements will be needed with Republic.

ESTIMATE SUMMARY

<b>Project Category</b>	<b>Programmed**</b>	<b>Preliminary Estimate**</b>	<b>% Difference from Programmed</b>
Contract Estimate	\$x,000	\$11,472	-x%
Utilities	\$0	\$505	-
RW	\$0	\$2,962	-
RW Incidentals	\$0	\$270	-
PE	\$xx	\$998	-
CE	\$xx	\$1,509	-

\*\* In thousands

Explanation of Difference in Programmed Amount vs. Estimate  
Construction cost escalation.

Attachments: Title Sheet, Typical Sections, Estimate, Plan Sheets

District Engineer Comments:

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Approved by: \_\_\_\_\_

Stacy Reese, P.E.  
District Engineer

\_\_\_\_\_ Date