

CHAPTER I  
GENERAL INFORMATION

MEMORANDUM



Missouri Department of Transportation

Project Development  
District 00

**TO:** (Director of Project Development)

**FROM:** Your Name  
Transportation Project Manager

**DATE:** November 14, 2003

**SUBJECT:** Route \_\_, \_\_\_\_\_ County  
Job No.  
Project Scoping Memorandum

*(Review Section 1-02.7 of the PDM for instructions on completing the Project Scoping Memorandum)*

*(The information provided in the project scoping memorandum should be detailed enough to allow someone unfamiliar with the project details to gain a general understanding of the recommended actions that will be taken to address the need.)*

**NEED:** *(This should include a description of the deficient items that indicated the initial need for the project. In addition any other deficient items or safety needs that were identified through the project scoping process should be included. The following description is offered as an example.)*

The decks of the dual bridges A1608 on Route 50 over Third Street in Lee's Summit are deteriorated to the point where routine maintenance cannot keep them in acceptable condition. The bridge ratings for the deck, superstructure and substructure are 3,3,7 and 3,3,6. These bridges also have substandard shoulder width.

Unrelated to the bridge decks, the eastbound exit ramp traffic routinely backs up the entire length of the exit ramp and into the mainline of Route 50 during the afternoon peak volume period, contributing to congestion and increased accidents at this location.

**SCOPE:** *(The description of the project's scope should be thorough enough to describe all aspects of the planned improvements and any elements that may affect the cost of the project or disrupt the flow of traffic during construction.)*

The bridge substructures are in good condition and only require a few areas of unformed concrete repair. The condition of the superstructure can be adequately improved by painting of the steel girders and bearings. Therefore, the scope of this

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project will consist of widening and replacing the decks on the dual bridges over Third Street, providing standard shoulder widths, sandblasting and recoating the steel girders and bearings with System G paint, and performing unformed concrete repair to the substructure.

High traffic volume on Route 50 necessitates keeping two lanes of traffic open in both directions during peak hours and throughout the construction period. Staged construction will be used to meet this requirement. Staged construction will be used to widen and replace the deck of the eastbound bridge. The new eastbound deck will include an additional 12 feet of width to accommodate two lanes of traffic in each direction while the westbound bridge deck is widened and replaced to standard width. Temporary crossovers will be constructed off the ends of the bridges to shift the westbound lanes onto the eastbound bridge. Temporary concrete barrier will separate opposing traffic lanes. No aesthetic enhancements are proposed.

The eastbound exit ramp lane configuration will be modified from the existing dual left turn lanes and single right turn lane, to provide a left turn lane, a right turn lane and a center optional left or right turn lane. This will include removal of part of the existing right turn channelizing island and paving that area, re-striping the ramp, lane usage signing, and adding two top mount right turn signal faces in the Third Street median island across from the dual right turn lanes.

DUAL

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**BUDGET:**

Grading & Drainage +	Base & Surface +	Bridges +	Misc. +	Estimated Contract Total =	
\$95,820	\$194,888	\$1,671,000	\$560,109	\$2,521,817	
				Construction Contingency (est. @ 3% of contract total)	Contract Total+ Construction Contingency =
				+	\$75,655
				+	Utilites
					\$0
				+	Non Contractual Items
					\$0
				+	R/W Acquisition
					\$0
R/W Incidentals +	Preliminary Engineering Incidentals +	Construction Engineering (est. @ 7% of contract total) +		+	Total Incidentals
\$0	\$166,000	\$176,527			\$342,527
				+	Construction Incentives / Contract Acceleration
					\$297,000
					Program Estimated Total =
					\$3,236,999

**SCHEDULE:**

Milestone	Schedule
Initial Concept Approval	Completed 03/27/2003
Preliminary Plans Approval	Completed 10/24/2003
Right of way Plans Approval	N/A
Roadway and Bridge PS&E Submitted	07/08/2004

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**IMPLEMENTATION PLAN:** (The implementation plan should include a discussion of how development of the project will proceed beyond the project scoping stage once funds become available for right of way and/or construction of the project. Any other pertinent information related to implementation of the project should also be included.)

This project has been discussed with the public works director and city engineer for Lee's Summit. The first option presented to the city included the closure of Third Street and routing traffic down the ramps during construction. Although this option was not opposed by all city officials, a consensus could not be reached to support this option. Therefore the second option of using construction staging to handle traffic was agreed upon.

After approval of the project scoping memorandum the current plan will be presented to the city for concurrence. A municipal agreement will then be prepared and executed prior to completion of the PS&E. No public hearing or meeting is planned for this project, since there will be no lane reduction on Route 50 and Third Street will not be closed. There will be increased congestion during peak periods on Third Street. A news release prior to construction should be adequate to inform the public about the possible delays on Third Street.

The amount included in the estimated cost for acceleration is based on reducing the number of working days allowed for the bridge work in order to complete the project in one construction season. It is based on the best information available at this stage, and may change once the final quantities and a work day study is completed.

I have reviewed the scope of this project and offer the following comments:

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(Design Technical Support Engineer)

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I recommend proceeding with the development of this project subject to the following comments:

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(District Engineer)

*The following signatures need only be affixed for Major Projects.*

Approved subject to the following comments:

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(Director of Project Development)

Approved subject to the following comments:

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(Transportation Planning Director)