

I-435 & ROE AVENUE BRIDGE REPLACEMENT

Project 435-46 KA 2100-01

Kansas

Kansas Department of Transportation

Project Overview

The Roe Avenue Bridge over I-435 in Johnson County has been identified for replacement as part of the Kansas Department of Transportation's (KDOT) Fiscal Year 2014/2015 Bridge Replacement Program. The existing bridge is actually a combination of three structures (two original concrete box girder bridges that carry through traffic and a center steel structure that was added later to accommodate single left turn lanes in each direction). Roe Avenue carries significant traffic through the interchange and noticeable delays occur during the peak hours.

Therefore, prior to the final design of a new interchange, a Selection Study will be performed to evaluate the existing and future traffic impacts, determine what geometric improvements are required, and select the most feasible, cost-effective interchange and bridge configuration for the location.

This project also includes:

- Improving the drainage system behind the retaining wall along the eastbound collector-distributor road and building a new retaining wall as appropriate.
- Removing the existing pedestrian bridge just east of the existing Roe Avenue Bridge and replace with sidewalks on the new Roe Avenue Bridge.
- Analysis to address existing safety concerns.

Why do the Roe Bridges need to be replaced?

The existing reinforced concrete box girder bridges were built with the original construction of I-435 in 1970. Though these bridges are over 40 years old and currently safe for today's traffic demands, they are experiencing structural deterioration due to age and deicing chemicals. Additionally, the existing block retaining wall under the south end span of the bridge is

experiencing deterioration in isolated areas of the wall due to excessive groundwater seepage.

What is the project study process?

Before the final road and bridge design can begin, the traffic impacts need to be evaluated and the interchange configuration must be determined. The interchange study will be completed in April 2011 and includes the following steps:

1. High Level Analysis of five different interchange and bridge configurations to determine the best two alternatives to carry forward into the Screened Alternatives Analysis.
2. The two alternatives will be evaluated in detail and a preferred alternative will be selected.
3. The results of the alternatives analysis will be documented in a study report.

Why we are looking at alternative interchange designs?

Since KDOT will be making a significant investment to reconstruct this bridge it is essential that the impacts of existing and future traffic growth at this location be considered so the appropriate interchange and bridge configuration and associated geometric improvements can be incorporated to provide the most cost-effective solution.

How will the public and stakeholders be involved?

Over the course of the study and throughout construction, KDOT is committed to providing accurate and

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timely information. As the project progresses we will provide information at key milestones through mailings to property owners and updates to the media.

Prior to construction, a public meeting will be held to discuss construction phasing and schedule, along with potential traffic impacts. During construction, project updates will be provided on a daily basis, or as needed.

Next Steps—When will construction begin?

The interchange study is anticipated to take four months, with a final recommendation in April 2011. Once the interchange and bridge configuration are determined, then the road and bridge design can begin. It will take approximately two years to develop the design for the new Roe Avenue Bridge and associated road improvements. Construction will likely begin in late 2014 or early 2015 depending on funding. Once construction begins, it is anticipated to take 18 months, but traffic on Roe Avenue will be maintained during construction with the potential for brief closures of the ramps.

If you are interested in receiving electronic updates about the project, please e-mail the project office RoeBridge@hntb.com and we'll add you to the e-mail update list.

For questions or comments please contact:

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