

NCHRP 14-19: Culvert Rehabilitation to Maximize Service Life While Minimizing Direct Costs and Traffic Disruption

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Sponsor: The National Collaborative Highway Research Program of the Transportation Research Board (US Academy of Sciences) see <http://144.171.11.40/cmsfeed/TRBNetProjectDisplay.asp?ProjectID=1634>

Dates: June 2008 to June 2011.

Objectives: The objective of this project is to develop a handbook that provides up-to-date guidance to assess the existing condition of culverts; provides assistance in the selection and design of suitable rehabilitation options; and provides information on various methods of construction associated with culvert rehabilitation. The emphasis of the handbook should be on culvert rehabilitation that minimizes disruption to traffic and the road surface, while maximizing hydraulic capacity of the rehabilitated culvert.

Progress to date:

- A literature survey was completed, outlining repair methods available for culverts
- A literature review was completed outlining design methods for those repairs
- A design-tree has been developed guiding repair selection procedure