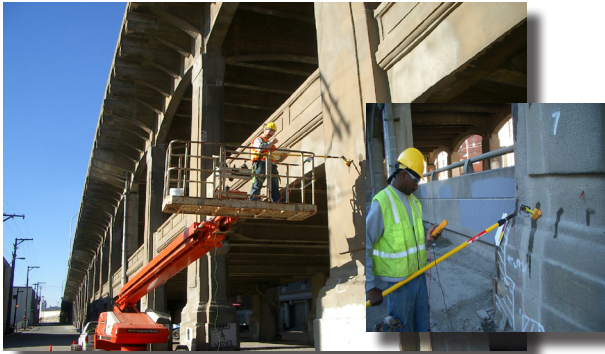


Vector®**Corrosion Surveys****Project History**

City of Kansas City, MO
12th Street Viaduct Structure Evaluation



City of Kansas City, MO 12th Street Viaduct, a unique double decked bridge built in the early 1900's



Corrosion potential readings being taken on face of pier



Delamination survey being conducted to identify areas that will need concrete repairs on pier

Specifier: TranSystem Corporation

Contractor: Vector Corrosion Technologies

Project Solution:

Work on this project included performing the following tests:

- Corrosion potential survey was conducted to determine the likelihood of active corrosion taking place on the piers. All testing was performed according to ASTM C 876-91 at predetermined locations.
- A delamination survey was conducted on all piers to determine the extent of the concrete repairs that will be required. All testing was conducted according to ASTM D 4580-86.
- Concrete dust samples were taken from piers at various locations and tested according to AASHTO T260-94-C to determine the level of chloride penetration.
- A detailed visual inspection of the piers was conducted and detailed on drawings to aid in the construction phase of the rehabilitation.
- Upon completion of the on-site condition survey and laboratory testing, Vector Corrosion Technologies analyzed the data to assist in developing a complete restoration and protection strategy for the repairs to the concrete piers.

Structure: 12th Street Viaduct

Location: Kansas City, Missouri, USA

Project Description:

Vector Corrosion Technologies was contracted by TranSystem Corporation to perform a condition survey of the 45 piers on the 90 year old historic two level bridge in the historic West Bottoms neighborhood of downtown Kansas City, MO. The City of Kansas City was considering the possibility of performing a major restoration project of the entire structure and wanted to be certain they have a full understanding of the current condition of the piers and problems facing the bridge so as to develop a comprehensive rehabilitation plan to address all the problems present on the bridge.

Vector Corrosion Technologies Ltd.

474 Dovercourt Drive
 Winnipeg, MB R3Y 1G4
 Phone: (204) 489-6300
 Fax: (204) 489-6033

Vector Corrosion Technologies, Inc.

13312 N. 56th Street, #102
 Tampa, Florida 33617
 Phone: (813) 830-7566
 Fax: (813) 830-7565


**VECTOR
 CORROSION
 TECHNOLOGIES**
www.vector-corrosion.com

Vector and the Vector logo are registered trademarks.

Printed in Canada

© 2010 Vector Corrosion Technologies

Email: info@vector-corrosion.com