Summary of Proposed Award Evaluation of the Cuyahoga Viaduct

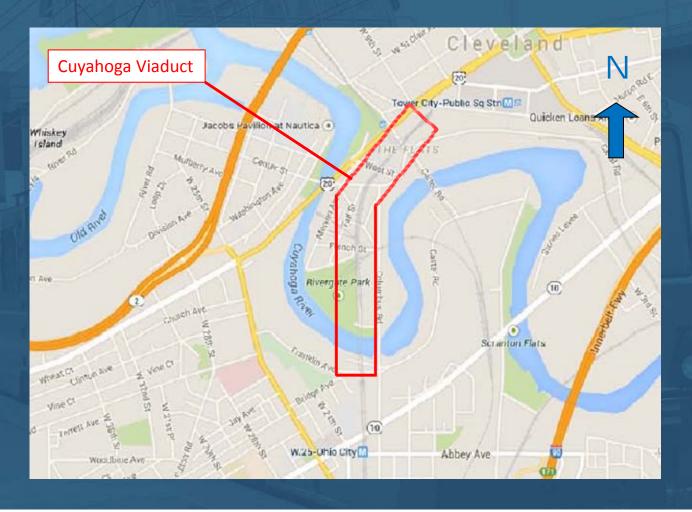
Presented to: Planning & Development Committee May 10, 2016



The Viaduct is a critical asset linking East &
 West rail lines



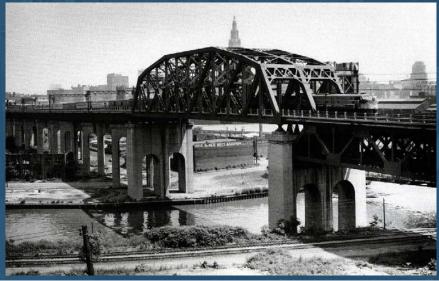
Location Map



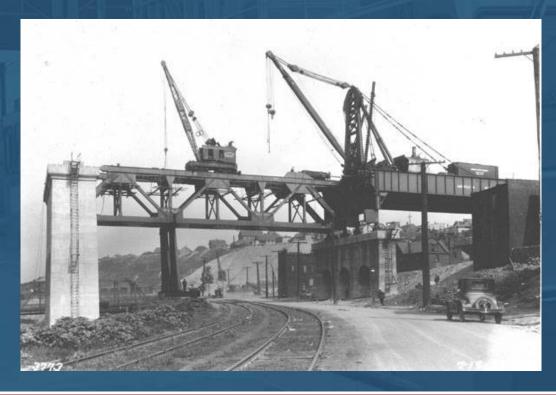


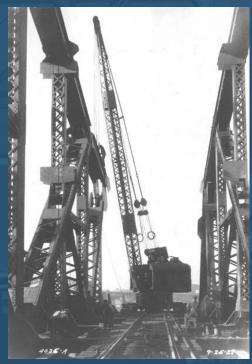
 The Viaduct was constructed by The Cleveland Union Terminal Company which was owned by the New York Central Railroad, Big Four and

Nickel Plate Railroads



o Viaduct construction was completed in 1929



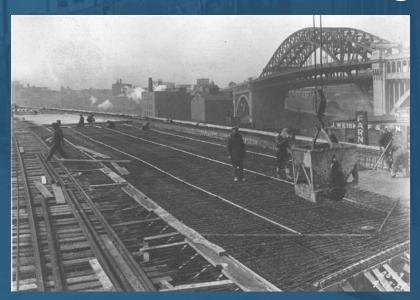




- GCRTA's longest (3,395 ft.), tallest (94.5 ft.)
 bridge
- Bridges rehabilitated in 1999
- 2 of the 31 spans are fracture critical
- Underwater inspection required every 60 months

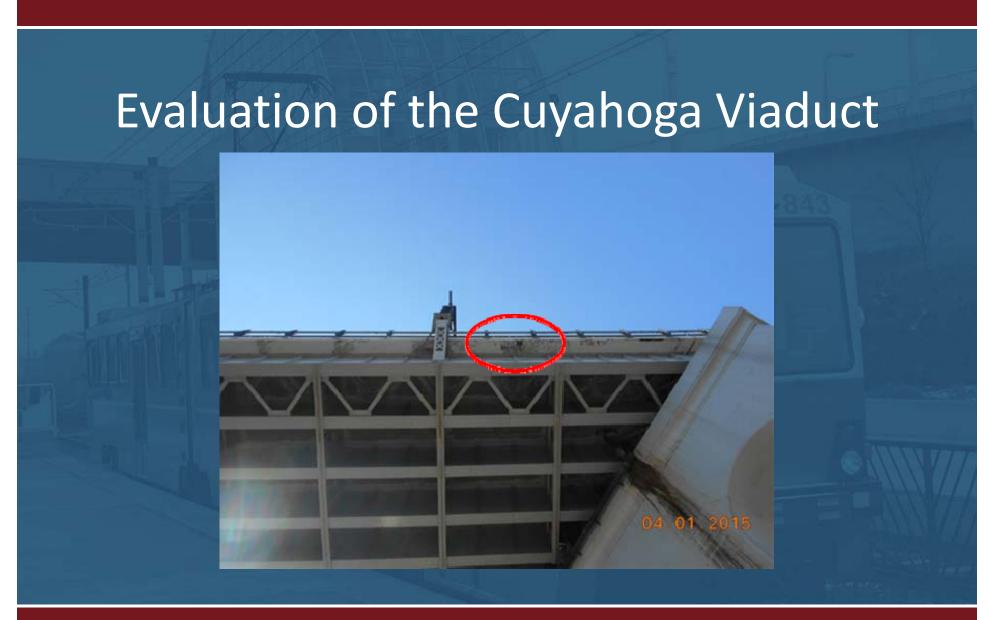


 Concrete spalling from the underside of the deck due to corroding reinforcing steel











 To address the immediate need, Project No. 15.53 was awarded in April to remove loose concrete and repair downspouts

 However, identifying the cause and extent of the corrosion will determine how the bridge will be repaired for the future

- o Key Questions:
 - o Is corrosion coming from top down or bottom up?
 - o Is it chloride, carbonation or water infiltration?
 - Is the chloride or carbonation contamination beyond remedy?
 - o Does stray current contribute to the corrosion?
 - o Is the deck concrete sound?



- o Scope of Services:
 - o In-depth inspection of fracture critical spans
 - Underwater inspection of Piers 4 and 5
 - Arm's-length inspection of remaining spans
 - Deck condition evaluation
 - Develop a rehabilitation program and cost estimates



- o Schedule:
 - Inspection will start immediately with NTP
 - Inspection finding submitted 4 months after NTP
 - Recommendations submitted 8 months after NTP



- o RFP issued June 24, 2015
- Accessed on the GCRTA web site by thirty-one interested parties
- Four firms proposed
- o Four firms were interviewed



- o Evaluation Panel Members:
 - o Engineering
 - o Operations
 - o Procurement
 - Office of Business Development



- o Evaluation Criteria:
 - Project Manager
 - Assigned Staff
 - o Past Performance
 - Project Approach
 - Location of Majority of Work
 - DBE Participation



- o Recommended Vendor:
 - o ARCADIS U.S., Inc., Cleveland, Ohio
 - o 20% DBE Goal will be met by utilizing:
 - o KS Associates, Inc.
 - Denise's Flagging & Construction
 - o G & T Associates Inc.



- o Firm Experience:
 - ARCADIS U.S., Inc. has inspected bridges for ODOT,
 Norfolk Southern, CSX, and the City of Kent, and
 has experience working on GCRTA projects
 - o ARCADIS U.S., Inc. has over fifty years experience
 - Infrastructure Engineers, Inc. will perform underwater inspections and has performed over 8,900 underwater inspections



o Recommendation:

 Staff requests that the Planning & Development Committee recommend award to ARCADIS U.S., Inc. for Evaluation of Cuyahoga Viaduct Bridge. The base contract is not to exceed \$349,015.00