

2020 PRE-INSPECTION REPORT

BRIDGE No. HAM-50-0376L

PID No. 94221



Submitted To:

ODOT District 8
505 SR 741
Lebanon, Ohio 45036

Submitted By:

Pennoni
5202 Bethel Reed Park
Suite 200
Columbus, Ohio 43220
June 2020

I. INTRODUCTION

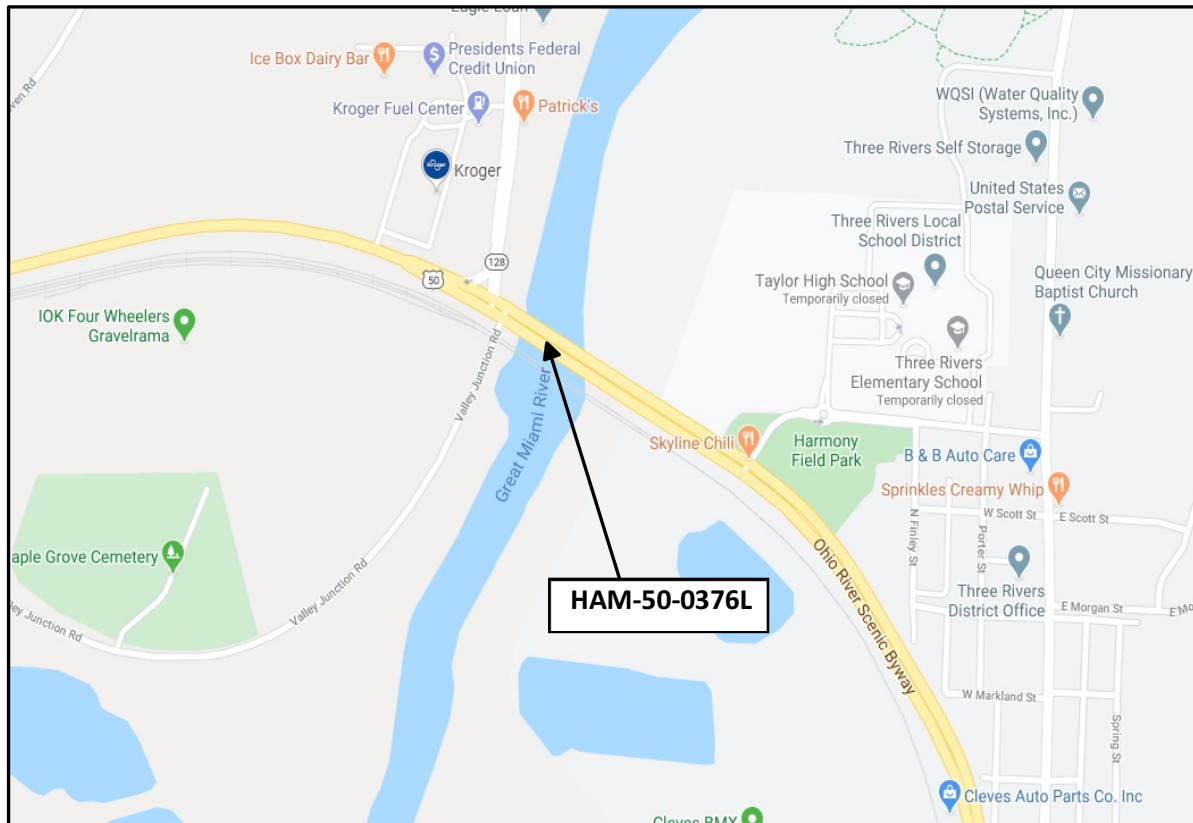


Figure 1 – US Route 50 (Westbound) over the Great Miami River, Village of Cleves, Ohio Location Map.

INSPECTION DETAILS:

Bridge Nos.:	HAM-50-0376L
Features intersected:	US Route 50 Westbound over the Great Miami River
Locations to Inspect:	In-Depth Element Level Inspection HAM-50-0376L
No. of Inspection Days:	Anticipated 5 days
Anticipated Inspection Dates:	August 3-7, 2020
Inspection Hours:	8:30 AM - 4:30 PM
Inspection Access Equipment:	40' Manlift (above deck), 62' snoopers (below deck)

FRACTURE CRITICAL INSPECTION REQUIREMENTS:

The inspection will consist of an In-Depth “Arms-Reach” inspection, performed in accordance with the guidelines of the current FHWA National Bridge Inspection Standards for Fracture Critical Members.

To perform an effective Fracture Critical Inspection, the following tasks must be performed:

1. Determine Resource Requirements.
(Identify qualified inspection staff, use appropriate inspection access and inspection equipment).
2. Identify the Fracture Critical Members.
3. Develop the Inspection Procedure.
(Contained in this document)
4. Prepare Follow-up Procedure.
(Recommendations will be made as part of this current project)
5. Provide Quality Control/Quality Assurance for the inspection and report.
(Procedures outlined in this document)
6. Develop a Periodic Inspection Plan
(Already in place with the Ohio Department of Transportation, District 8)

BRIDGE DESCRIPTION

The bridge was built in 1959. In 1992, the bridge received a new deck and the entire bridge was painted. The bridge consists of four simply supported truss spans – two 191'-11", 8-panel end spans (Span 1 and 4) and two 250'-0", 10-panel center spans (Spans 2 and 3).

The substructure consists of reinforced concrete abutments and piers. The piers are labeled as Pier 2, 3, and 4. The abutments are labeled as Abutment 1 (West) and Abutment 5 (East). This numbering is based on the original plans dated 1958.

INSPECTION METHODS & PLAN

The Pennoni Team will perform a fracture critical and in-depth inspection on HAM-50-0376L. Access to the bridge members below the bridge deck will be gained by an Aspen A-62 snoopers provided by the Sofis Company. The truss members above the bridge deck will be inspected with the aid of a 40' man lift. All man lift operators will be qualified to meet the current ANSI A-92 requirement. Traffic control for the snoopers will be provided by the Sofis Company according to the ODOT Standard Drawing MT-95.30. Since the snoopers will only need access on one side of the bridge for the underside inspection, Area Wide Protective (AWP) will provide the single lane closure for the other side for the man lift inspection.

TRAFFIC CONTROL

The Sofis Company will be responsible for installation of traffic control devices to close one lane of US-50 for the snoopers operation. AWP will provide a single lane closure once the snoopers work is complete. The single lane closures will follow ODOT's Standard Drawing MT-95.30.

FOLLOW-UP PROCEDURES FOR INSPECTION FINDINGS

Fracture critical inspection findings shall be documented in the final inspection report.

QUALITY CONTROL/QUALITY ASSURANCE

Pennoni has developed its Bridge Inspection Protocol and Job Safety Assessment (JSA) that define standard operating procedures for checking and reviewing work products and will be utilized throughout the inspection process. The team leaders were chosen to ensure that inspector qualifications are met. Christian Lunt has completed the course FHWA-NHI-130078, "Fracture Critical Inspection Techniques for Steel Bridges."

FIELD COORDINATION - The following entities will be involved in coordinating and performing all field work associated with the inspection of the structure.

Pennoni – Field Team Contacts:

Christian Lunt, P.E.: Team Leader, Project Manager clunt@pennoni.com	D: (614) 335-9603 C: (614) 499-5506
Aaron Adkins, P.E.: Team Leader aakins@pennoni.com	D: (330) 222-6284 C: (440) 454-2543
Andrew Kustec, EI: Team Leader akustec@pennoni.com	D: (330) 222-6280 C: (440) 231-9437
Steve Mary, P.E.: Team Leader Steve.Mary@terracon.com	D: (513) 472-7029 C: (513) 600-9826

AREA WIDE PROTECTIVE (AWP) – AWP will be the traffic control subcontractor for this inspection. Contacts are:

Peter Herrera: AWP Spokesperson pherrera@awptraffics.com	O: (330) 677-7467
Patrick Corlette: Facility Manager pcorlette@awptraffics.com	C: (614) 207-8930 O: (513) 321-9890

ODOT (Project and Permitting Contacts) – A right of entry permit is necessary through ODOT District 8. See **Appendix A**. The following ODOT personnel will be contacts.

Brandon Collett: Project Manager Brandon.Collett@dot.state.oh.us	O: (513) 933-6643
Scott Kraus: District Work Zone Traffic Manager Scott.Kraus@dot.state.oh.us	O: (513) 933-6519
Chris Bass: Right-of-Way Use Permits Chris.Bass@dot.state.oh.us	O: (513) 933-6577

APPENDIX A

RIGHT OF ENTRY PERMIT APPLICATIONS

App No _____

State of Ohio
Department of Transportation

See Reverse side for additional requirements

Office Use Only

County/ Jurisdiction _____
Rte _____ Log Pt _____
Acc Cat _____

[1] This form must be completed by the property owner or agents working for a utility company (if applicable). Application by contractor is unacceptable.

Name Pennoni Associates
Address 5202 Bethel Road Park, Suite 200 City Columbus State OH
Zip 43220 Phone (614) 486-0401 Other (Fax, E-mail) clunt@pennoni.com

[2] Type of Permit requested: _____ Commercial (See other side) _____ Residential _____ Field _____ Utility _____ Drainage
Beautification (See other side) _____ Spraying, trimming, tree removal X Other _____

[3] Briefly describe work to be performed. (Attach plans and see Instructions.)

In-depth inspection of bridge HAM-50-0376L (SFN: 3102521). Single lane closure over the bridge during the hours of 8:30am to 4:30pm.

Traffic Plan Single-lane closure following ODOT Std. Dwg. MT-96.30

[4] Location where work is to be performed. Give sufficient detail to locate the site accurately, such as the distance in miles or feet from a mile post or from some geographical feature such as an intersecting highway.

In HAMILTON County (along, across) State Route 4550, _____ miles or 200 feet
North _____ East X West _____ South _____ of SR 128 on the North _____ East _____ West _____ South _____ side of the road.
Work to commence on Aug. 3-7, 2020 and will require 5 days to complete.

[5] Does the property owner own or have any interests in any adjacent property? _____ Yes X No
If yes, please describe. _____

[6] Prior to any excavation in the highway right-of-way, the Ohio Utilities Protection Service (OUPS) must be contacted in accordance with ORC Section 3781.25 to 3781.32. OUPS can be reached at 1-800-362-2764. A call must be made to OGPUPS at 1-800-925-0988.

[7] Open cutting of pavement shall not be permitted unless no reasonable alternate method is available. Written approval of the Ohio Department of Transportation District Office must be obtained.

[8] All work requiring men or vehicles within ODOT right of way shall comply with all applicable requirements of the Ohio Manual of Traffic Control Devices and Item 614 (Maintaining Traffic) of the Construction and Material Specifications, latest editions. Failure to comply with these requirements will be cause for immediate revocation or suspension of the permit until the proper traffic control devices have been provided.

[9] I have received a copy of the policies and regulations pertaining to the permit for which I have applied. If a permit is subsequently issued to me by the Ohio Department of Transportation, I understand that the permit will state the terms and conditions for its use, and I agree to comply with all conditions and regulations stipulated on or attached to the permit. I also understand and agree that failure to comply fully with all conditions and regulations of the permit or any change in the use of the permit inconsistent with its terms and conditions will be considered a violation and cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Department action, up to and including removal of the installation at the permittee's expense.

SIGN and
PRINT here

= Christ Lunt Christian Lunt
Signature of Property Owner or Agent for Owner
Date 6/29/2020

Day time Phone 614-335-9603

Office use only

Date Received _____
By _____
Date Accepted _____
By _____

Additional Requirements

1. All requests for vehicular access connections (commercial and residential driveways and field drives) are subject to the requirements and provisions of the State Highway Access Management Manual.
2. Check with the issuing authority to determine which of the following documents and information are required and the number of copies needed to complete the review of your application. Plans should usually not be larger than 24"x 36."

(A) Map or plat showing property location, property lines, amount of frontage on state highway and on other abutting public roads, if any;
 (B) Any existing access or easements of access on the property;
 (C) Highway and driveway plan profile;
 (D) Location of proposed access with respect to property lines and to the highway; NOTE: The proposed access location should also be physically marked on the property by a stake or other clearly visible means.

(E) Design and type of construction of the proposed access;
 (F) Drainage plans showing drive culvert/pipe and impacts to the highway right of way;
 (G) Subdivision, zoning, or development plan, if applicable;
 (H) Maps and letters detailing utility locations before and after development in and along the right of way;
 (I) Signing and striping plans;
 (J) Traffic data and traffic control plan;
 (K) Proof of liability insurance;
 (L) Performance Bond, if required

Commercial Development

3. If you are requesting a permit for Commercial Development, complete the following. Applicants seeking permits for development generating high traffic volumes (over 100 trip ends in the peak hour) are advised to request a preliminary meeting with appropriate ODOT and/or local officials prior to submitting a formal application for access.

(3a) If the proposed access will serve residential development, what type (single family, apartment, townhouse) and number of units are in the proposed development?

Type of Units		Number of Units	
Type of Units		Number of Units	

(3b) If the proposed access will serve business commercial or industrial development, what types and number of businesses are in the proposed development and what is floor area square footage of each?

Type of Business		Square Footage	
Type of Business		Square Footage	

(3c) Number of vehicles using the access. Indicate if estimates are ____ Peak hour = ____ or ____ Average daily volumes = ____.

Number of Passenger Cars:	Number of Multi Units:	Total All Vehicles:
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(3d) Consulting Firm: _____ Name of Contractor: _____
 Contact Name: _____ Contact Name: _____
 Phone Number: _____ Phone Number: _____

Beautification Permit

4. If you are applying for Beautification Permit, complete the following. Please submit proof of insurance.

Insurer's Name _____ Address _____ Phone () _____
 Number of adults (over 18) _____ under 18 _____ Total people _____

APPENDIX B

FRACTURE CRITICAL MEMBER LOCATIONS

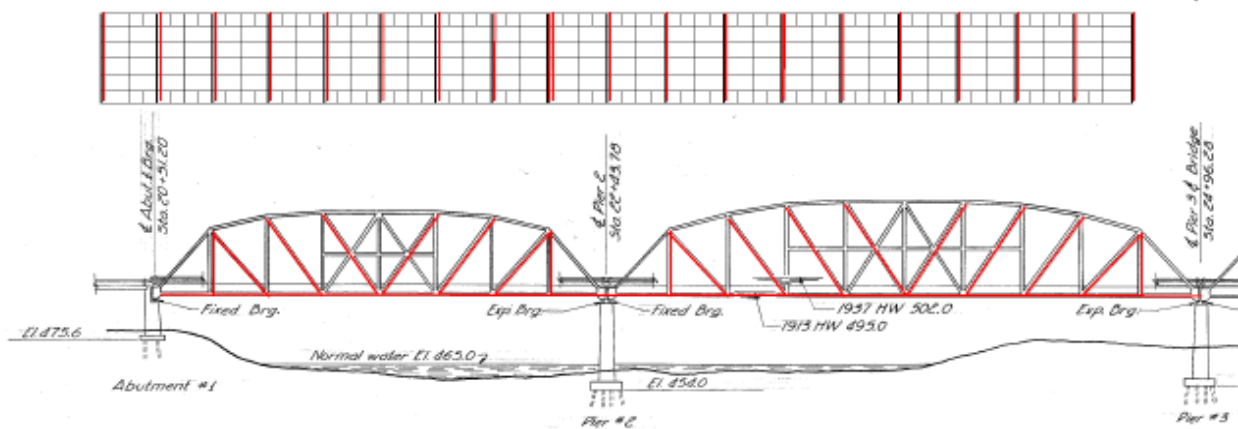


Figure 1 – Fracture critical members Spans 1 and 2.

LEGEND

— = Fracture Critical Member

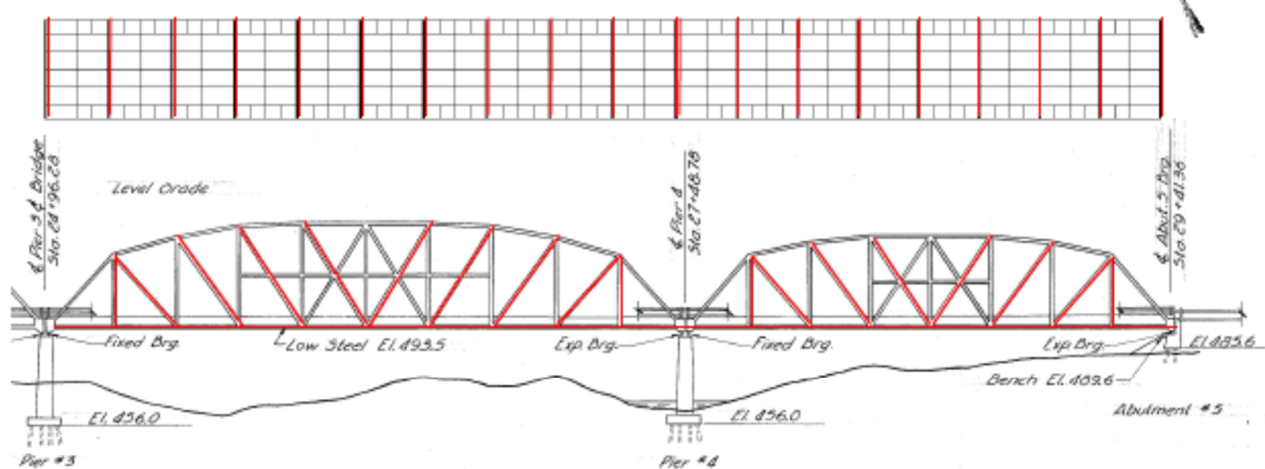


Figure 2 – Fracture critical members Spans 3 and 4.

LEGEND

— = Fracture Critical Member