Snover Road Bridge #12662 over Beach Drain
Bridge Design
Letting Date – March 12th, 2026 8:45am

Consultant: _____

Address: _____

_____

Sign & Print: _____

Date: _____

Phone: _____

Email: _____

Snover Road Bridge #12662 over the Beach Drain

Cost for Design Package: $_____

Proposed Replacement Structure: $_____

Estimated Construction Cost: $_____

Bids are to be submitted on the Road Commission forms in a plainly marked, sealed envelope. No faxed or emailed bids accepted. Plans and specifications are available online at www.tuscolaroad.org. Please contact Brent Dankert, Tuscola County Highway Engineer at 989-233-7472 or highwayengineer@tuscolaroad.org with any questions. Any addenda must be noted and initialed.

If you are interested in bidding and have downloaded plans from the website, please email highwayengineer@tuscolaroad.org and ahewitt@tuscolaroad.org to be added to the plan holders list to make sure you receive addendums.

Proposal Intent

The Tuscola County Road Commission seeks to hire a qualified, professional engineering team to provide design services, environmental permitting, and preparation of plans, specifications, and preliminary estimates of cost in accordance with MDOT standards for the replacement of Structure No. 12662, Snover Road over the Beach Drain. The TCRC expects consultants proposing on this project to have the qualifications, experience, personnel, and overall understanding of the work.

Background

Structure No. 12662, Snover Road over Beach Drain, is nearing the end of its life and needs to be replaced. The Snover Road Bridge over the Beach Drain is a single span structure totaling 25.5 feet in length. This structure carries 2 lanes of traffic and has an inside width of 28 feet. The bridge superstructure consists of thirteen steel I-beams with chip sealed HMA wearing surface. Corrugated steel deck panels left in place on deck bottom with light corrosion. Both reference line joints are paved over with faint reflective cracking. The railing along each side of structure consists of W-beam guardrail mounted to steel posts anchored to the fascia beams. Fascia beams are spliced and longer than the interior beams and have been repainted. Beams 5S-9S have additional sections of welded bottom flange repair plates. Beams 6S-8S, 12S and 13S have plate web repairs. Beams 5S and 9S have bolted repairs of holes in the web near the west backwall. The substructures consist of concrete cantilever abutments with scaling along the waterline. The east abutment has an open vertical and horizontal crack with settlement occurring. This abutment is being monitored. HMA approaches have been chip sealed. See attachments for MDOT Local Bridge Program submittal packet.

Basic Information:

- The bridge has a length of 25.5 feet and a clear width of 28 feet.
- Snover Road is a Rural Local Road with average daily traffic of 384 vehicles per day.
- The bridge is posted for load at 29 – 51 – 66 tons currently.
- Snover Road received a Scrub with Fog Seal in 2023 over 2007 HMA Bit Mat
- The Snover Road Bridge #12662 over the Beach Drain received funding for replacement in 2028 through the MDOT Local Bridge Program

- **Final plans, special provisions, preliminary estimates of cost and EGLE permitting must be completed for a fall of 2027 bid letting and construction in 2028**

Design Requirements

- The proposed bridge design must follow all MDOT Local Agency design standards and guidelines and include the following:
    - A clear width of 32 feet inside-of-rail to inside-of-rail
    - Minimum of a 50-foot bridge approach
    - Tuscola County Road Commission standard name plate
    - A final plan set with all necessary special provisions associated to the construction of the proposed design
- Traffic shall be maintained via a detour including M-24. Tuscola County Road Commission will apply for the MDOT permit for the detour route once MOT is finalized.
- Final Deliverables
    - A signed and sealed completed plan set, a copy of all special provisions, load rating calculations and computations, a preliminary estimate of construction cost completed in MERL, and an electronic copy of all design files.
    - Costs to include all soil borings, hydraulic analysis, and any other services necessary for a complete design.
        - Minimum of one soil boring per side to a minimum depth of 50 feet, 75 feet if piles are utilized.

The following items shall not be included in the proposal:

- Any cost or qualifications for ROW or land acquisition. If these services are required, a cost will be determined prior to beginning the work.
- Any cost related to asbestos/lead testing. The Tuscola County Road Commission will be responsible for obtaining any testing or related items if deemed necessary.

Proposal Submittal

The following information is required of the Consultant in response to this Scope of Services. Failure to provide all of the information will be caused to consider the proposal non-responsive and reject the proposal.

- Cover page of RFP with pricing and contact info (does not count towards page limit)
- Proposal (Max 6 pages)
    - Proposed structure type and why it is both the most cost effective and has the longest life expectancy.
    - Includes Understanding of Services
    - Includes Qualifications of Team
    - Includes Prior Experience / Past Performance
- Design Fee and Breakdown with hours (does not count towards page limit)
- Resumes of Key Personnel (does not count towards page limit)

Scoring
The scoring of the submitted proposal will be based on the following criteria:

25%	Understanding of Services
30%	Qualifications of Team
20%	Design Fee
20%	Prior Experience / Past Performance
5%	Location

Award and Payment
Award will be made in the best interest of the Road Commission. Payment will be made by monthly invoicing. The Tuscola County Road Commission job number 490-2014 shall be included on all invoices along with the project name. At a minimum the survey and soil borings shall be completed in 2026. Any questions should be made to Brent Dankert at highwayengineer@tuscolaroad.org

Attachments
- Agreement
- Title IV and VI Compliance
- Section 9.7 Insurance Requirements
- Snover Road Bridge 2025 Local Bridge Programming Application
- Existing structure Plans
- Detour Route
- Steel Beam Repair plans 1-6-23
- Special Provision for Structure Name Plate
- Asbestos and Lead Survey, Sampling, Testing Report

Liability
The consultant shall at all times exercise extreme care and shall assume all liability for any damages resulting from his operations and shall hold the Tuscola County Road Commission harmless from any such claims or damages.

The consultant must obtain a Tuscola County Right of Way Permit before any work can begin.

The successful bidder must also furnish certificates or policies giving satisfactory evidence of insurance coverage in accordance with *Tuscola County Road Commission Policies and Procedures Manual Section 9.7 Insurance Requirements*, to insure adequate payment for any damage caused by his operations.

The consultant shall, prior to the start of work, file with the Tuscola County Road Commission a certificate that he carries Workmen's Compensation Insurance. The attached certificate of insurance is required for the successful bidder or bidders.

NON-COMPLIANCE WITH PROJECT SPECIFICATION PROVISIONS

Any variation from the specifications of the project herein without written approval from the Tuscola County Road Commission and/or its authorized representative may result in, at the discretion of the Tuscola County Road Commission, the voiding and/or canceling of the acceptance of any contract, resulting from this project.

The Tuscola County Board of Road Commissioners reserves the right to accept or reject any or all proposals and to re-advertise or to accept the proposal, that in their opinion, is in the best interest of Tuscola County.

AGREEMENT

TUSCOLA COUNTY ROAD COMMISSION – 1733 S. MERTZ ROAD, CARO, MI 48723
PAGE **1** OF **1**

This agreement made this _____day of_____, 20_____
by and between the Board of Tuscola County Road Commissioners and _____
_____.

1. _____hereby agrees to undertake the following work in the status of an independent contractor performing the following job:
   _____
   _____
   _____.

2. Said contractor, _____, shall at all times exercise extreme care and shall assume any and all liability for property damage or bodily injury resulting from the above operation by this employees, agents, assigns, sub-contractors and anyone else acting under his control or direction; and will indemnify, hold harmless and defend the Tuscola County Road Commission, its Commissioners or employees from any and all claims for property damage or bodily injury arising out of this Agreement.

3. Said contractor, _____, while engaged in said job shall maintain and furnish certificates of insurance, naming the Tuscola County Road Commission and Commissioners as an additional insured under the policy, evidence of insurance coverage in accordance with *Tuscola County Road Commission Policies and Procedures Manual Section 9.7 Insurance Requirements,* and shall furnish the Tuscola County Road Commission copies of said certificates of insurance prior to commencing any work on said project.
   Additionally, said contractor, _____, shall furnish prior to start of said job with the Board of Tuscola County Road Commissioners, a policy of insurance certifying he carries and has in effect worker's compensation insurance on all those required to be covered under Michigan law.

4. The address of the Board of Tuscola County Road Commissioners is 1733 S, Mertz Rd., Caro, MI 48723.

Witnessed:

_____ _____
Board of Tuscola County Road Commissioners

_____ _____
Contractor

Contractor bid will not be accepted unless the enclosed Agreement is Signed and Returned with your bid.

TUSCOLA COUNTY ROAD COMMISSION
TITLE IV COMPLIANCE
APPENDIX A

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. Compliance with Regulations: The contractor shall comply with the Regulations relative to non-discrimination in Federally-assisted programs of the Department of Transportation, Title 49, code of Federal Regulations, Part 21 as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
2. Non-discrimination: The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment.
3. The contractor shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulation, including employment practices when the contractor covers a program set forth in Appendix B of the Regulations.
4. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to non-discrimination on the grounds of race, color, or national origin.
5. Information and Reports: The contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities us may be determined by the Tuscola County Road Commission to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a contractor is in the exclusive possession of another who fails or refuses this information, the contractor shall so certify to the State high· way department, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.
6. Sanctions for Non-compliance: In the event of the contractor's non-compliance with the non-discrimination provisions of this contract, the Tuscola County Road Commission Shall Impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
    a) Withholding of payments to the contractor under the contract until the contractor complies, and/or
    b) Cancellation, termination, or suspension of the contract, in whole or in part.
7. Incorporation of Provisions: The contractor shall Include the provisions of paragraphs (l) through (6) in every subcontract, including procurement of materials and leases of equipment, unless exempt by the Regulations, or directives Issues pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Tuscola County Road Commission may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that, in the event u contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the Tuscola County Road Commission to enter into such litigation to protect the interests of the County, and, in addition, the contractor may request the State highway department to enter into such litigation to protect the interests of the State and/or the United States to enter into such litigation to protect the interests of the United States.

"The TUSCOLA COUNTY ROAD COMMISSION, in accordance with Title VI of the Civil Rights Act of 1964, 78-252, 42 U.S.C. 2000d-222d-4, the Civil Rights Act of 1987, P.L. 100-259, and Title 49, Code of Federal Regulations, Department of Transportation, subtitle A, Office of the Secretary, Part 21, Non- discrimination in federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, Disadvantaged Business Enterprise firms will be afforded full oppo1iunity to submit bids in response to this invitation and will not be discriminated against on the grounds of Race, Color, Sex, Age, National Origin, or Handicap in consideration for an award. For additional compliance information, please see Appendix A."

9.7. INSURANCE REQUIREMENTS

Agriculture Hauling Permit	
Type of Insurance	**Notes**
None	As required by Statute per the Attorney General Opinion

Oversize / Overweight Permits						
Type of Insurance	**Coverage Limits**	**Addl. Insured**	**Waiver of Subrogation**	**Primary/Non Contributory**	**Claims Made**	**Indemnification**
Auto Liability	Michigan No Fault Coverage/Property Protection (PPI) $1M Statutory Limit	No	No	No	No	Yes

Driveway Permit

Individual Homeowner Permit Holder - Residential Driveway

Type of Insurance	Notes
None	Advise homeowner they will be responsible for any damage done to the ROW
	Advise homeowner they will be responsible for any injuries as a result of the work in the ROW
	Advise homeowner they will be required to indemnify the RC as outlined in the ROW permit

Contractor Permit Holder - Commercial or Residential Driveway

Type of Insurance	Coverage Limits		Addl. Insured	Waiver of Subrogation	Primary/Non Contributory	Claims Made	Indemnification
Commercial General Liability (CGL)	Each Occurrence	$2,000,000	No	No	No	No	Yes
	Products Comp/Op Aggregate	$3,000,000					
	General Aggregate	$3,000,000					

Special Event / Parade Permits							
Type of Insurance	**Coverage Limits**		**Addl. Insured**	**Waiver of Subrogation**	**Primary/Non Contributory**	**Claims Made**	**Indemnification**
Commercial General Liability (CGL)	Each Occurrence	$2,000,000	Yes	Yes	Yes	No	Yes
	General Aggregate	$2,000,000					
	Notes						
	For special events requiring participant waivers - Endeavor to have the RC added to the waiver. If alcohol is being served, host liquor liability is required.						

General Right of Way Permit

Individual Homeowner Permit Holder

Type of Insurance	Notes
None	Advise homeowner they will be responsible for any damage done to the ROW
	Advise homeowner they will be responsible for any injuries as a result of the work in the ROW
	Advise homeowner they will be required to indemnify the RC as outlined in the ROW permit

Contractor Permit Holder

Type of Insurance	Coverage Limits		Addl. Insured	Waiver of Subrogation	Primary/Non Contributory	Claims Made	Indemnification
Commercial General Liability (CGL)	Each Occurrence	$2,000,000	Yes	Yes	Yes	No	Yes
	Products Comp/Op Aggregate	$3,000,000					
	General Aggregate	$3,000,000					
Auto Liability	Michigan No Fault Coverage/Property Protection (PPI) $1M Statutory Limit		No	No	No	No	Yes
Professional Liability, as required	Each Occurrence & Aggregate	$2,000,000	N/A	N/A	N/A	Yes	Yes

Umbrella may be used to meet limit requirements: Commercial General Liability & Auto Liability
Retro Date for Professional Liability must be prior to issuing permit date.
It is recommended the Self Insured Retention (SIR) for CGL be no greater than $25,000.

INDEX

Reset Form

Department of Transportation

LOCAL BRIDGE PROGRAM
CALL FOR APPLICATIONS FUNDING YEAR 2028

NOTE TO USERS: Please be sure that all structure information is correct on your SI&A form in MiBridge before submitting your application. Applications received after April 1st , 2025 will not be accepted. For assistance, please call Keith Cooper at (517) 331-1395 or Rita Levine at (517) 335-4528.

Instructions: (This form requires Adobe Acrobat Standard or Professional and is not enabled for use in the free Adobe Reader. If you only have access to Adobe Reader, please submit paper documents.)

1. Complete the required application information below.
2. Click on ADD APPLICATION DOCS button to add your signed resolution, cost estimate, map showing structure location and detour route, narrative description of project, bridge inspection documents and photos of the structure.
3. When you have finished, click on SAVE AS to keep a copy for each structure you are submitting.
4. Click on SUBMIT to email your application to MDOT-DesignLAP-Bridge@michigan.gov.

**** Multiple structure applications need to be applied for as individual structures and choose "Multiple PM" for "Type of Work".***

APPLICATION INFORMATION (REQUIRED)

Agency Name: **Tuscola County Road Commission**

Structure Number: **12662** County: **Tuscola** Region: **Bay Region**

Facility Carried: **Snover Road**

Feature Intersected: **Beach Drain**

Cost Estimate (Bridge and Approach construction cost): **$986,000**

Type of Work: **Replace** Local Match (Minimum 5%): **20**

(This form requires Adobe Acrobat Standard or Professional and is not enabled for use in the free Adobe Reader. If you only have access to Adobe Reader, please submit paper documents.)

Add Application Docs | Print Form | Save As | Submit to MDOT

MICHIGAN DEPARTMENT OF TRANSPORTATION

STR 12662 BRIDGE SAFETY INSPECTION REPORT

Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
SNOVER ROAD	43.3508 / -83.3937	79311H00009B010	Fair Condition(5)
Feature	**Length / Width / Spans**	**Owner**	
BEACH DRAIN	25.5 / 28 / 1	County: Tuscola(79)	
Location	**Built / Recon. / Paint / Ovly.**	**TSC**	**Operational Status**
SEC 22-27 FREMONT TWP	1935 / 1971 / 2008 / 2008	Huron(28)	P Posted for load(295166)
Region / County	**Material / Design**	**Last NBI Inspection**	**Scour Evaluation**
Bay(4) / Tuscola(79)	3 Steel / 02 Multi Str Non Comp	06/11/2024 / JX37	5 Stable w/in footing

NBI INSPECTION JX37

Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
James Brock	ROWE Professional Services Company	12	06/11/2024

GENERAL NOTES

Assisted by: Finn Tobiczyk
Established directions: Snover Rd E/W, Beach Drain N/S
TCRC ID: B-FRE-L-5

Weight limit signs in place on both ends of bridge	YES
Weight limit shown on signs at bridge	426176
Required advance warning weight limit signs in place	YES
Weight limit shown on advance warning signs	426176

DECK

	06/22	06/23	06/24	
1. Surface (SIA-58A)	7	7	7	Chip sealed HMA surface along traveled lanes, original HMA surface visible along outer edges. No deficiencies noted. Minor vegetation growth along northern edge under railing. (06/24) Chip sealed HMA surface along traveled lanes, original HMA surface visible along outer edges. No deficiencies noted. (06/23) HMA surface. Full length longitudinal crack along centerline, partially sealed. Random transverse cracking in each lane up to 1/4" wide. (06/22)
2. Expansion Joints	N	N	N	(06/24) (06/23) (06/22)
3. Other Joints	N	N	N	Paved over with chip sealed HMA. Faint reflective cracking above reference lines. (06/24) Paved over with chip sealed HMA. (06/23) Reflective crack along the west abutment reference line, partially sealed. (06/22)
4. Railings	6	6	6	W-Beam guardrail mounted on steel I-posts that are welded to steel I-struts and connected to outer two fascia beams. No offset blocks. Minor impact damage to top of north rail near midspan. (06/24) W-Beam guardrail mounted on steel I-posts that are welded to steel I-struts and connected to outer two fascia beams. No offset blocks. Impact damage to top of north rail near midspan. (06/23) W-Beam guardrail mounted on steel I-posts that are welded to steel I-struts and connected to outer two fascia beams. No offset blocks. Impact damage to top of north rail. (06/22)
5. Sidewalks or Curbs	N	N	N	(06/24) (06/23) (06/22)
6. Deck Bottom Surface (SIA-58B)	6	6	6	Corrugated steel deck panels with light corrosion at a few pan drain holes and seams. Corrosion is heavier near each abutment reference line. (06/24) Corrugated steel deck panels with light corrosion at a few pan drain holes and seams. Corrosion is heavier near each abutment reference line. (06/23) Corrugated steel deck panels with light corrosion at a few pan drain holes and seams. Corrosion is heavier near each abutment reference line. (06/22)

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Location	**Built / Recon. / Paint / Ovly.**	**TSC**	**Operational Status**
SEC 22-27 FREMONT TWP	1935 / 1971 / 2008 / 2008	Huron(28)	P Posted for load(295166)
Region / County	**Material / Design**	**Last NBI Inspection**	**Scour Evaluation**
Bay(4) / Tuscola(79)	3 Steel / 02 Multi Str Non Comp	06/11/2024 / JX37	5 Stable w/in footing

7. Deck (SIA-58)	6	6	6	Surface: Chip sealed HMA surface along traveled lanes, original HMA surface visible along outer edges. No deficiencies noted. Minor vegetation growth along northern edge under railing. Bottom: Corrugated steel deck panels with light corrosion at a few pan drain holes and seams. Corrosion is heavier near each abutment reference line. Fascias: Steel angle edge dams, no deficiencies noted. (06/24) Surface: Chip sealed HMA surface along traveled lanes, original HMA surface visible along outer edges. No deficiencies noted. Bottom: Corrugated steel deck panels with light corrosion at a few pan drain holes and seams. Corrosion is heavier near each abutment reference line. Fascias: Steel angle edge dams, no deficiencies noted. (06/23) Surface: HMA surface. Full length longitudinal crack along centerline, partially sealed. Random transverse cracking in each lane up to 1/4" wide. Bottom: Corrugated steel deck panels with light corrosion at a few pan drain holes and seams. Corrosion is heavier near each abutment reference line. Fascias: Steel angle edge dams, no deficiencies noted. (06/22)
8. Drainage				Off structure. (06/24) Off structure. (06/23) Off structure. (06/22)

SUPERSTRUCTURE

	06/22	06/23	06/24	
9. Stringer (SIA-59)	4	4	5	(13) Painted steel I-beams. The fascia beams are spliced and longer than the interior beams. Repainted. Beams 5s, 6s, 7s, 8s and 9s have additional sections of sporadic bottom flange repair plates varying in length (welded). Beams 6s, 7s, 8S, 12S and 13S also have plate web repairs. Beam 5S: bolted repair (1"x7" hole in lower portion of web approximately 1'-9" from west backwall.) Beam 9S: bolted repair (1"x9" hole in lower portion of web approximately 13" from west backwall). Pack rust on the bottom flange of beams 6S and 7S at the west abutment bearing location. Missed painting 1 beam end at the east abutment. (06/24) (13) Painted steel I-beams. The fascia beams are spliced and longer than the interior beams. Repainted. Beams 5s, 6s, 7s, 8s and 9s have additional sections of sporadic bottom flange repair plates varying in length (welded). Beams 6s, 7s, 8S, 12S and 13S also have plate web repairs. Beam 5S: 1"x7" hole in lower portion of web approximately 1'-9" from west backwall. Beam 9S: 1"x9" hole in lower portion of web approximately 13" from west backwall. Pack rust on the bottom flange of beams 6S and 7S at the west abutment bearing location. Missed painting 1 beam end at the east abutment. (06/23) (13) Painted steel I-beams. The fascia beams are spliced and longer than the interior beams. Repainted. Beams 5s, 6s, 7s, 8s and 9s have additional sections of sporadic bottom flange repair plates varying in length (welded). Beams 6s, 7s, 8S, 12S and 13S also have plate web repairs. There are 5 small holes in the web of beam 5s and 9S near the west end that has been painted over. Pack rust on the bottom flange of beams 6S and 7S at the west abutment bearing location. Missed painting 1 beam end at the east abutment. (06/22)
10. Paint (SIA-59A)	6	6	6	Recent paint appears to have been applied by hand and lacking proper prep. Painted over pitting and holes. Rust beginning to form. One beam end web at the east abutment has 6' length unpainted. (06/24) Recent paint appears to have been applied by hand and lacking proper prep. Painted over pitting and holes. Rust beginning to form. One beam end web at the east abutment has 6' length unpainted. (06/23) Recent paint appears to have been applied by hand and lacking proper prep. Painted over pitting and holes. Rust beginning to form. One beam end web at the east abutment has 6' length unpainted. (06/22)

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11. Section Loss	0	0	2	Bolted repairs at previous areas of section loss at (Beam 5S: 1"x7" hole in lower portion of web approximately 1'-9" from west backwall. Beam 9S: 1"x9" hole in lower portion of web approximately 13" from west backwall. Detailed beam measurements completed in 2022, notes uploaded in document tab.) (06/24) Beam 5S: 1"x7" hole in lower portion of web approximately 1'-9" from west backwall. Beam 9S: 1"x9" hole in lower portion of web approximately 13" from west backwall. Detailed beam measurements completed in 2022, notes uploaded in document tab. (06/23) There are 5 small holes in the web of beam 5s near the west end. There are 5 holes in the bottom of the web of beam 9s at the west end. (06/22)
12. Bearings	7	7	7	Steel plate bearings at each beam end. Steel plates have uniform surface rust throughout. (06/24) Steel plate bearings at each beam end. Steel plates have uniform surface rust throughout. (06/23) Steel plate bearings at each beam end. Steel plates have uniform surface rust throughout. (06/22)

SUBSTRUCTURE

	06/22	06/23	06/24	
13. Abutments (SIA-60)	5	5	5	Concrete cantilever abutments. There is a 3/4"-1" open vertical and horizontal crack in the east abutment below beams 3S-5S with slight settlement. Scaling on both abutment walls near waterline. Offset corner patch in the west abutment in the southwest quadrant. The east footing face is buried in very soft sediment. (06/24) Concrete cantilever abutments. There is a 3/4"-1" open vertical and horizontal crack in the east abutment below beams 3S-5S with slight settlement. Scaling on both abutment walls near waterline. Offset corner patch in the west abutment in the southwest quadrant. The east footing face is buried in very soft sediment. (06/23) Concrete cantilever abutments. There is a 3/4"-1" open vertical and horizontal crack in the east abutment below beams 3S-5S with slight settlement. Scaling on both abutment walls near waterline. Offset corner patch in the west abutment in the southwest quadrant. The east footing face is buried in very soft sediment. (06/22)
14. Piers (SIA-60)	N	N	N	(06/24) (06/23) (06/22)
15. Slope Protection	N	N	N	Over water. (06/24) Over water. (06/23) Over water. (06/22)
16. Channel (SIA-61)	6	6	6	Improved county drain, meandering alignment. The channel is approximately 3' wide upstream and downstream of the bridge. The channel widens and deepens up to 5 inches under the structure with portions of both abutments partially in the water. (06/24) Improved county drain, meandering alignment. The channel is approximately 3' wide upstream and downstream of the bridge. The channel widens and deepens up to 12 inches under the structure with both abutments partially in the water. (06/23) Improved county drain, meandering alignment. The channel is approximately 3' wide upstream and downstream of the bridge. The channel widens and deepens up to 12 inches under the structure with both abutments partially in the water. (06/22)
17. Scour Inspection	4	4	4	Previous inspection notes indicated The middle 1/3 of the east abutment footing face was exposed up to 2" with up to 2' of soft sediment blow the top of footing, during inspection footing covered with approximately 12 inches of silt. West footing is buried. (06/24) Previous inspection notes indicated The middle 1/3 of the east abutment footing face was exposed up to 2" with up to 2' of soft sediment blow the top of footing, during inspection footing covered with approximately 12 inches of silt. West footing is buried. (06/23) The middle 1/3 of the east abutment footing face was previously exposed up to 2" with up to 2' of soft sediment blow the top of footing, during inspection footing covered with approximately 12 inches of silt. West footing is buried. (06/22)

APPROACH

	06/22	06/23	06/24

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SEC 22-27 FREMONT TWP	1935 / 1971 / 2008 / 2008	Huron(28)	P Posted for load(295166)
Region / County	**Material / Design**	**Last NBI Inspection**	**Scour Evaluation**
Bay(4) / Tuscola(79)	3 Steel / 02 Multi Str Non Comp	06/11/2024 / JX37	5 Stable w/in footing

18. Approach Pavement	7	7	7	Chip sealed HMA approaches. No deficiencies noted. (06/24) Chip sealed HMA approaches. No deficiencies noted. (06/23) HMA approach pavement with sealed transverse cracks. Partially sealed with the deck. Newer HMA wedge along east end of structure. (06/22)
19. Approach Shoulders Sidewalks	7	7	7	Gravel/grass. Minor erosion noted along the east approach shoulder at north end. (06/24) Gravel/grass. Minor erosion noted along the east approach shoulder at north end. (06/23) Gravel/grass. No distress noted. (06/22)
20. Approach Slopes				Stable grass covered slopes in all four quadrants. New approach guardrail and endings with one post missing at end of steel sheet return wall in all four quadrants. (06/24) Stable grass covered slopes in all four quadrants. New approach guardrail and endings with one post missing at end of steel sheet return wall in all four quadrants. (06/23) Stable grass covered slopes in all four quadrants. New approach guardrail and endings with one post missing at end of steel sheet return wall in all four quadrants. (06/22)
21. Utilities				(1) 1/2" diameter HDPE conduit draped behind the north beam guardrail. (1) 3" diameter galvanized steel conduit along the north fascia. Buried cable marker in SE quadrant. Aerial lines over east approach. (06/24) (1) 1/2" diameter HDPE conduit draped behind the north beam guardrail. (1) 3" diameter galvanized steel conduit along the north fascia. Buried cable marker in SE quadrant. Aerial lines over east approach. (06/23) There is a 1/2" diameter HDPE conduit draped behind the north beam guardrail. There is a 3" diameter galvanized steel conduit along the north fascia. Buried cable marker in SE quadrant. Aerial lines over east approach. (06/22)
22. Drainage Culverts				None noted. (06/24) None noted. (06/23) (06/22)

MISCELLANEOUS

Guard Rail

Item	Rating
36A. Bridge Railings	0
36B. Transitions	0
36C. Approach Guardrail	1
36D. Approach Guardrail Ends	1

Other Items

Item	Rating
71. Water Adequacy	6
72. Approach Alignment	6
Temporary Support	0 No Temporary Supports
High Load Hit (M)	No
Special Insp. Equipment	2
Underwater Insp. Method	1

False Decking (Timber) Removed to Complete Inspection N/A - No False Decking

Critical Feature Inspections (SIA-92)

	Freq	Date
92A. Fracture Critical		
92B. Underwater		
92C. Other Special		
92D. Fatigue Sensitive		

STR 12662 BRIDGE SAFETY INSPECTION REPORT

Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
SNOVER ROAD	43.3508 / -83.3937	79311H00009B010	Fair Condition(5)
Feature	**Length / Width / Spans**	**Owner**	
BEACH DRAIN	25.5 / 28 / 1	County: Tuscola(79)	
Location	**Built / Recon. / Paint / Ovly.**	**TSC**	**Operational Status**
SEC 22-27 FREMONT TWP	1935 / 1971 / 2008 / 2008	Huron(28)	P Posted for load(295166)
Region / County	**Material / Design**	**Last NBI Inspection**	**Scour Evaluation**
Bay(4) / Tuscola(79)	3 Steel / 02 Multi Str Non Comp	06/11/2024 / JX37	5 Stable w/in footing

SUPPORTING IMAGES JX37 06/11/2024

Document Name: IMG_0042.jpeg
Category: Elevation
Span Number:
Comments: South elevation

Document Name: IMG_0048.jpeg
Category: Elevation
Span Number:
Comments: North elevation

Document Name: IMG_6935.jpeg
Category: Posting
Span Number:
Comments: Advanced posting sign east of structure

Document Name: IMG_6936.jpeg
Category: Posting
Span Number:
Comments: Posting sign at west end of structure

STR 12662 BRIDGE SAFETY INSPECTION REPORT

Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
SNOVER ROAD	43.3508 / -83.3937	79311H00009B010	Fair Condition(5)
Feature	**Length / Width / Spans**	**Owner**	
BEACH DRAIN	25.5 / 28 / 1	County: Tuscola(79)	
Location	**Built / Recon. / Paint / Ovly.**	**TSC**	**Operational Status**
SEC 22-27 FREMONT TWP	1935 / 1971 / 2008 / 2008	Huron(28)	P Posted for load(295166)
Region / County	**Material / Design**	**Last NBI Inspection**	**Scour Evaluation**
Bay(4) / Tuscola(79)	3 Steel / 02 Multi Str Non Comp	06/11/2024 / JX37	5 Stable w/in footing

Document Name: IMG_6940.jpeg
Category: Posting
Span Number:
Comments: Posting sign at east end of structure

Document Name: IMG_6952.jpeg
Category: Posting
Span Number:
Comments: Advanced posting west of structure

Document Name: IMG_6942.jpeg
Category: Approach
Span Number:
Comments: West approach

Document Name: IMG_6943.jpeg
Category: Approach
Span Number:
Comments: East approach

STR 12662 **BRIDGE SAFETY INSPECTION REPORT**

Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
SNOVER ROAD	43.3508 / -83.3937	79311H00009B010	Fair Condition(5)
Feature	**Length / Width / Spans**	**Owner**	
BEACH DRAIN	25.5 / 28 / 1	County: Tuscola(79)	
Location	**Built / Recon. / Paint / Ovly.**	**TSC**	**Operational Status**
SEC 22-27 FREMONT TWP	1935 / 1971 / 2008 / 2008	Huron(28)	P Posted for load(295166)
Region / County	**Material / Design**	**Last NBI Inspection**	**Scour Evaluation**
Bay(4) / Tuscola(79)	3 Steel / 02 Multi Str Non Comp	06/11/2024 / JX37	5 Stable w/in footing

Document Name: IMG_6938.jpeg
Category: Railing
Span Number:
Comments: Railing, typical

Document Name: IMG_0047.jpeg
Category: Deck
Span Number:
Comments: Deck bottom surface, typical

Document Name: IMG_6937.jpeg
Category: Deck
Span Number:
Comments: Chip seal HMA surface above structure

Document Name: IMG_0045.jpeg
Category: Superstructure
Span Number:
Comments: Steel beams, typical

STR 12662 BRIDGE SAFETY INSPECTION REPORT

Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
SNOVER ROAD	43.3508 / -83.3937	79311H00009B010	Fair Condition(5)
Feature	**Length / Width / Spans**	**Owner**	
BEACH DRAIN	25.5 / 28 / 1	County: Tuscola(79)	
Location	**Built / Recon. / Paint / Ovly.**	**TSC**	**Operational Status**
SEC 22-27 FREMONT TWP	1935 / 1971 / 2008 / 2008	Huron(28)	P Posted for load(295166)
Region / County	**Material / Design**	**Last NBI Inspection**	**Scour Evaluation**
Bay(4) / Tuscola(79)	3 Steel / 02 Multi Str Non Comp	06/11/2024 / JX37	5 Stable w/in footing

Document Name: IMG_0046.jpeg
Category: Superstructure
Span Number:
Comments: Bolted steel plate repair at beam 9S

Document Name: IMG_0043.jpeg
Category: Substructure
Span Number:
Comments: West abutment

Document Name: IMG_0044.jpeg
Category: Substructure
Span Number:
Comments: East abutment

Document Name: IMG_6939.jpeg
Category: Channel
Span Number:
Comments: Looking south off structure

STR 12662 **BRIDGE SAFETY INSPECTION REPORT**

Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
SNOVER ROAD	43.3508 / -83.3937	79311H00009B010	Fair Condition(5)
Feature	**Length / Width / Spans**	**Owner**	
BEACH DRAIN	25.5 / 28 / 1	County: Tuscola(79)	
Location	**Built / Recon. / Paint / Ovly.**	**TSC**	**Operational Status**
SEC 22-27 FREMONT TWP	1935 / 1971 / 2008 / 2008	Huron(28)	P Posted for load(295166)
Region / County	**Material / Design**	**Last NBI Inspection**	**Scour Evaluation**
Bay(4) / Tuscola(79)	3 Steel / 02 Multi Str Non Comp	06/11/2024 / JX37	5 Stable w/in footing

Document Name: IMG_6941.jpeg
Category: Channel
Span Number:
Comments: Looking north off structure

MICHIGAN DEPARTMENT OF TRANSPORTATION

STR 12662 — STRUCTURE INVENTORY AND APPRAISAL

Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
SNOVER ROAD	43.3508 / -83.3937	79311H00009B010	Fair Condition(5)
Feature	**Length / Width / Spans**	**Owner**	
BEACH DRAIN	25.5 / 28 / 1	County: Tuscola(79)	
Location	**Built / Recon. / Paint / Ovly.**	**TSC**	**Operational Status**
SEC 22-27 FREMONT TWP	1935 / 1971 / 2008 / 2008	Huron(28)	P Posted for load(295166)
Region / County	**Material / Design**	**Last NBI Inspection**	**Scour Evaluation**
Bay(4) / Tuscola(79)	3 Steel / 02 Multi Str Non Comp	06/11/2024 / JX37	5 Stable w/in footing

Bridge History, Type, Materials

27 - Year Built	1935	
106 - Year Reconstructed	1971	
202 - Year Painted	2008	
203 - Year Overlay	2008	
43 - Main Span Bridge Type	3	02
44 - Appr Span Bridge Type		
77 - Steel Type	1	
78 - Paint Type	2	
79 - Rail Type	1	
80 - Post Type	1	
107 - Deck Type	6	
108A - Wearing Surface	6	
108B - Membrane	0	
108C - Deck Protection	0	

Structure Dimensions

34 - Skew	0
35 - Struct Flared	N
45 - Num Main Spans	1
46 - Num Apprs Spans	0
48 - Max Span Length	22.5
49 - Structure Length	25.5
50A - Width Left Curb/SW	0
50B - Width Right Curb/SW	0
33 - Median	0
51 - Width Curb to Curb	27.9
52 - Width Out to Out	28
112 - NBIS Length	Y

Inspection Data

90 - Inspection Date	06/11/2024	
91 - Inspection Freq	12	
92A - Frac Crit Req/Freq	N	
93A - Frac Crit Insp Date		
92B - Und Water Req/Freq	N	
93B - Und Water Insp Date		
92C - Oth Spec Insp Req/Freq	N	
93C - Oth Spec Insp Date		
92D - Fatigue Req/Freq	N	
93D - Fatigue Insp Date		
176A - Und Water Insp Method	1	
58 - Deck Rating	6	
58A/B - Deck Surface/Bottom	7	6
59 - Superstructure Rating	5	
59A - Paint Rating	6	
60 - Substructure Rating	5	
61 - Channel Rating	6	
62 - Culvert Rating	N	

Navigation Data

38 - Navigation Control	0
39 - Vertical Clearance	0
40 - Horizontal Clearance	0
111 - Pier Protection	
116 - Lift Brdg Vert Clear	

Route Carried By Structure(ON Record)

5A - Record Type	1	
5B - Route Signing	4	
5C - Level of Service	8	
5D - Route Number	00000	
5E - Direction Suffix	0	
10L - Best 3m Unclr-Lt	0	0
10R - Best 3m Unclr-Rt	99	99
PR Number		
Control Section		
11 - Mile Point		
12 - Base Highway Network	0	
13 - LRS Route-Subroute	0000037900 16	
19 - Detour Length	2	
20 - Toll Facility	3	
26 - Functional Class	09	
28A - Lanes On	2	
29 - ADT	547	
30 - Year of ADT	2021	
32 - Appr Roadway Width	27.9	
32A/B - Ap Pvt Type/Width	4	21
42A - Service Type On	1	
47L - Left Horizontal Clear	0.0	
47R - Right Horizontal Clear	26.2	
53 - Min Vert Clr Ov Deck	99	99
100 - STRAHNET	0	
102 - Traffic Direct	2	
109 - Truck %	5	
110 - Truck Network	0	
114 - Future ADT	695	
115 - Year Future ADT	2024	
Freeway	0	

Structure Appraisal

36A - Bridge Railing	0
36B - Rail Transition	0
36C - Approach Rail	1
36D - Rail Termination	1
67 - Structure Evaluation	3
68 - Deck Geometry	5
69 - Underclearance	N
71 - Waterway Adequacy	6
72 - Approach Alignment	6
103 - Temporary Structure	
113 - Scour Criticality	5

Miscellaneous

37 - Historical Significance	5
98A - Border Bridge State	
98B - Border Bridge %	
101 - Parallel Structure	N
EPA ID	
Stay in Place Forms	
143 - Pin & Hanger Code	
148 - No. of Pin & Hangers	

Route Under Structure (UNDER Record)

5A - Record Type		
5B - Route Signing		
5C - Level of Service		
5D - Route Number		
5E - Direction Suffix		
10L - Best 3m Unclr-Lt		
10R - Best 3m Unclr-Rt		
PR Number		
Control Section		
11 - Mile Point		
12 - Base Highway Network		
13 - LRS Route-Subroute		
19 - Detour Length		
20 - Toll Facility		
26 - Functional Class		
28B - Lanes Under		
29 - ADT		
30 - Year of ADT		
42B - Service Type Under	5	
47L - Left Horizontal Clear		
47R - Right Horizontal Clear		
54A - Left Feature		
54B - Left Underclearance	99	99
54C - Right Feature		
54D - Right Clearance	99	99
Under Clearance Year		
55A - Reference Feature	N	
55B - Right Horiz Clearance	99.9	
56 - Left Horiz Clearance	0	
100 - STRAHNET		
102 - Traffic Direct		
109 - Truck %		
110 - Truck Network		
114 - Future ADT		
115 - Year Future ADT		
Freeway		

Proposed Improvements

75 - Type of Work		
76 - Length of Improvement		
94 - Bridge Cost		
95 - Roadway Cost		
96 - Total Cost		
97 - Year of Cost Estimate		

Load Rating and Posting

31 - Design Load	4
41 - Open, Posted, Closed	P
63 - Fed Oper Rtg Method	6
64F - Fed Oper Rtg Load	.27
64MA - Mich Oper Rtg Method	6
64MB - Mich Oper Rtg	.7
64MC - Mich Oper Truck	14
65 - Inv Rtg Method	6
66 - Inventory Load	.16
70 - Posting	0
141 - Posted Loading	295166
193 - Overload Class	

MICHIGAN DEPARTMENT OF TRANSPORTATION

STR 12662 — WORK RECOMMENDATIONS

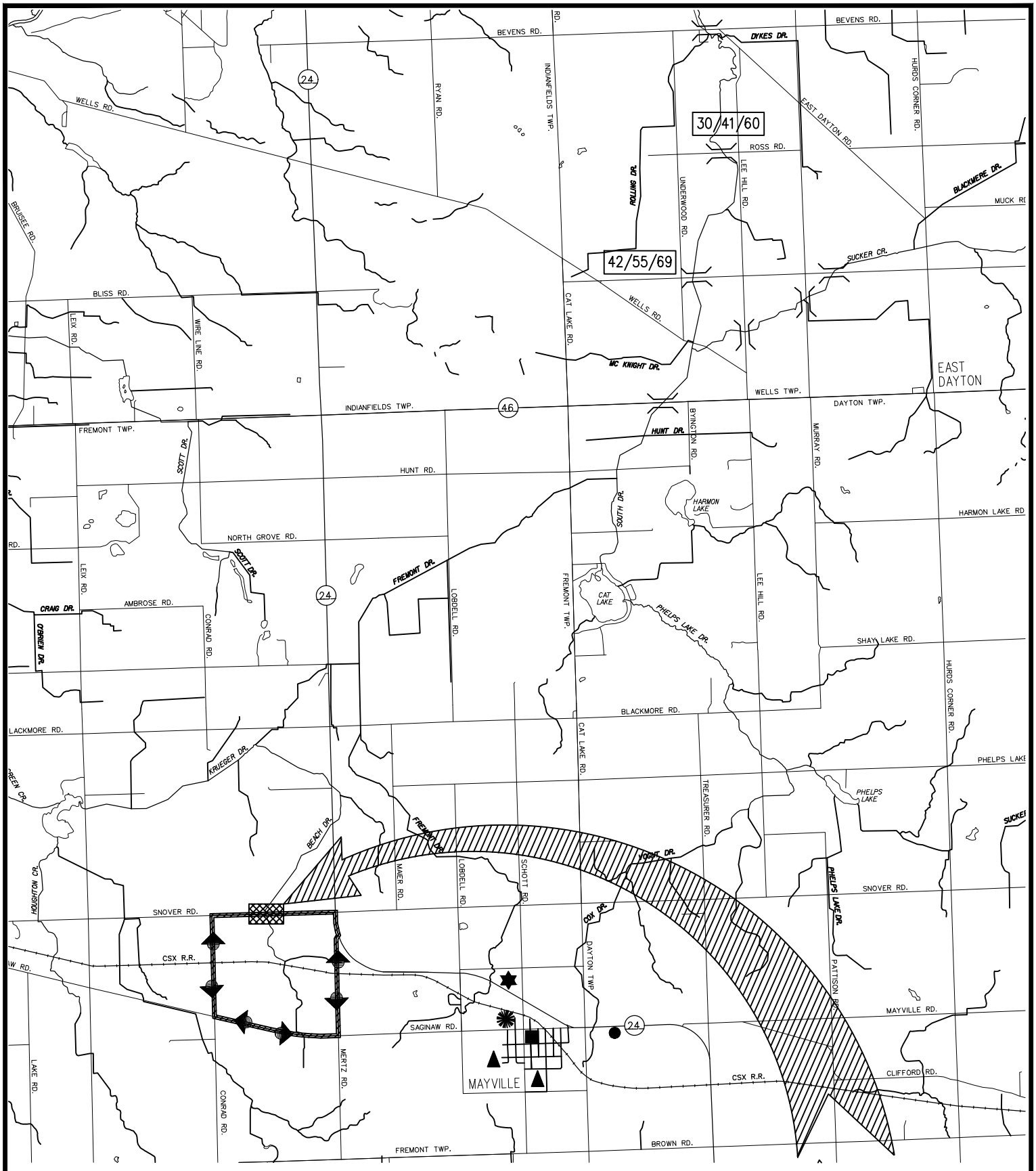
Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
SNOVER ROAD	43.3508 / -83.3937	79311H00009B010	Fair Condition(5)
Feature	**Length / Width / Spans**	**Owner**	
BEACH DRAIN	25.5 / 28 / 1	County: Tuscola(79)	
Location	**Built / Recon. / Paint / Ovly.**	**TSC**	**Operational Status**
SEC 22-27 FREMONT TWP	1935 / 1971 / 2008 / 2008	Huron(28)	P Posted for load(295166)
Region / County	**Material / Design**	**Last NBI Inspection**	**Scour Evaluation**
Bay(4) / Tuscola(79)	3 Steel / 02 Multi Str Non Comp	06/11/2024 / JX37	5 Stable w/in footing

WORK RECOMMENDATIONS — JX37

Inspector Name	Agency / Company Name	Insp. Freq.	Insp. Date
James Brock	ROWE Professional Services Company	12	06/11/2024

RECOMMENDATIONS & ACTION ITEMS

Recommendation Type	Priority	Description
Scour Repair	H	Place riprap along east abutment. (21) (22) (23) (24)
Substr Repair	H	Monitor crack/settlement in East abutment (21) (22) (23) (24)



KEY

- ✹ – POLICE STATION
- ■ – FIRE STATIONS
- ★ – AMBULANCE SUB STATION
- ▲ – SCHOOL
- ● – MEDICAL CLINIC

TUSCOLA COUNTY

N

XX/XX/XX – POSTED STRUCTURE

◆◆ – DETOUR ROUTE

12662 – SNOVER ROAD BRIDGE BEACH DRAIN

Exhibit 4 - Cost Estimating Worksheet

2025

BRIDGE COST ESTIMATE WORKSHEET

- CPM, REHAB, REPLACE -

REV. 02/6/2024

OWNER: Tuscola County | FISCAL YEAR: 2028 | DATE: 3/25/2025
REGION: Bay | ENGINEER: ANH
TSC: Huron | PR: 3790016 | MP: 3.441

	Out to Out	Curb to Curb
LENGTH	WIDTH	WIDTH
25.5	28.0	27.9

STRUCTURE ID: 12662
BRIDGE ID: N/A

LOCATION: SNOVER ROAD over BEACH DRAIN
PRIMARY WORK ACTIVITY: Bridge Replacement
OTHER WORK:

DECK AREA: 714 SFT
CLEAR ROADWAY: 711 SFT

STR. TYPE: Steel
Multi-Stringer, W or I-Bean

WORK ACTIVITY		MDOT Bridge Design Guides	QUANTITY	UNIT	UNIT COST	TOTAL
NEW BRIDGE		(increase deck area based on design standards and hydraulic requirements)				
Single or Multiple Spans, Grade Separation		(add demo, approach, MOT)		SFT	$435.00 /SFT	
Single Span, Over Water	Length < 100ft	(add demo, approach, MOT)	960.0	SFT	$525.00 /SFT	$504,000.00
Multiple Spans, Over Water	Length > 100ft	(add demo, approach, MOT)		SFT	$470.00 /SFT	
Precast Culvert	Length < 40ft	(add demo, approach, MOT)		SFT	$565.00 /SFT	
NEW SUPERSTRUCTURE						
New Superstructure, Grade Separation		(incl. remove exist deck/super; add MOT & approach)		SFT	$310.00 /SFT	
New Superstructure, Over Water		(incl. remove exist deck/super; add MOT & approach)		SFT	$315.00 /SFT	
WIDENING						
Structure Widening, ft		(incl. deck/super/sub widening, add approach transition)		SFT	$630.00 /SFT	
NEW DECK						
New Bridge Deck & Barrier		(incl. remove exist deck/railing, add approach, MOT)		SFT	$150.00 /SFT	
DEMOLITION						
Entire Structure, Grade Separation				SFT	$75.00 /SFT	
Entire Structure, Over Water			714.0	SFT	$95.00 /SFT	$67,830.00
DECK REPAIR / TREATMENTS						
Bridge Railing Replacement		(incl. removal and replacement)		FT	$750.00 /FT	
Concrete Brush Block / Curb Patch		(incl. hand chipping and formwork)		FT	$29.00 /FT	
Concrete Barrier Patch		(incl. hand chipping and formwork)		SFT	$85.00 /SFT	
Concrete Deck Patch		(incl. hand chipping)		SFT	$68.00 /SFT	
Deep Overlay		(incl. joint repl & hydro)		SFT	$46.00 /SFT	
Epoxy Overlay		(incl. warranty)		SYD	$48.00 /SYD	
Expansion Joint Gland Replacement		(remove and replace elastomeric gland)		FT	$125.00 /FT	
Expansion Joint Replacement		(incl. removal)		FT	$860.00 /FT	
Full Depth Patch				SFT	$140.00 /SFT	
Healer / Sealer		(penetrates cracks in bridge deck)		SYD	$30.00 /SYD	
HMA Overlay with WP membrane				SYD	$60.00 /SYD	
Overlay Removal		(Epoxy: $22/syd | Latex: $26/syd | HMA: $7/syd)		SYD	$22.00 /SYD	
Reseal Bridge Joints				FT	$28.00 /FT	
Shallow Overlay		(incl. joint repl & hydro)		SFT	$46.00 /SFT	
SUPERSTRUCTURE REPAIR						
Bearing Realignment / Replacement		(incl. temporary supports)		EA	$6,450.00 EA	
Heat Straightening		(incl. clean and coat)		EA	$57,000.00 EA	
Pack Rust Repair		(greater than 3/8" separation)		FT	$1,150.00 /FT	
Paint - Complete		(incl. clean & coat)		SFT	$30.00 /SFT	
Paint - Partial / Spot / Zone		(incl. clean & coat - $20k minimum)		SFT	$60.00 /SFT	
PCI Beam End Blockout		(incl. temporary supports)		EA	$7,200.00 EA	
Pin & Hanger Replacement		(incl. temporary supports)		EA	$17,000.00 EA	
Structural Steel Repair		(based on 6ft repair length)		EA	$4,000.00 EA	
Structural Steel Repair - Stiffener		(includes each side of beam)		EA	$1,500.00 EA	
SUBSTRUCTURE REPAIR						
Substructure Patching		(measured x 2) replace if repair area > 30%		CFT	$360.00 /CFT	
Substructure Replacement		(incl. temporary supports, excavation)		CFT	$375.00 /CFT	
Substructure Horizontal Surface Sealer				SYD	$75.00 /SYD	
Temporary Supports		(add Structural Steel Repair - Stiffener for ea steel beam)		EA	$4,000.00 EA	
MISCELLANEOUS						
Articulating Concrete Block System (ACB)				SYD	$320.00 /SYD	
Concrete Surface Coating				SYD	$47.00 /SYD	
Culvert Cleanout				FT	$125.00 /FT	
Epoxy Crack Injection		(structural crack repair)		FT	$70.00 /FT	
Metal Mesh Panels		(48" width, max 6'-6" length)		SFT	$28.00 /SFT	
Pressure Relief Joint		(use when approach concrete roadway exceeds 1,000ft)		FT	$110.00 /FT	
Riprap		(assume 10ft distance around perimeter of substructure)		SYD	$275.00 /SYD	
Silane Treatment		(penetrating sealer for concrete surfaces)		SFT	$7.00 /SFT	
Slope Protection Repairs				SYD	$150.00 /SYD	
Other						
					STRUCTURE CONSTRUCTION BUDGET	$571,830
ROAD WORK						
Approach Pavement, 12" RC		(incl. removal; add curb, gutter, guardrail) 40' ea. end		SYD	$230.00 /SYD	
Approach Curb & Gutter		(incl. removal) 40' ea. quadrant		FT	$57.00 /FT	
Guardrail Anchorage to Bridge		(each quadrant)		EA	$2,540.00 /EA	
Guardrail		(incl. removal) < 200ft beyond reference line	200.0	FT	$41.00 /FT	$8,200.00
Guardrail Terminal		(each quadrant)	4.0	EA	$3,900.00 /EA	$15,600.00
Roadway Approach Work		(beyond approach pavement)	1.0	LSUM	$70,000.00 LSUM	$70,000.00
Utilities				LSUM	LSUM	
TRAFFIC CONTROL	*Unit Cost to be determined by Region or TSC Traffic & Safety*					
Part Width Construction				LSUM	LSUM	
Crossovers				EA	/EA	
Temporary Traffic Signals				set	/set	
RR Flagging				LSUM	LSUM	
Detour			1.0	LSUM	$30,000.00 LSUM	$30,000.00
					RELATED ROAD/TRAFFIC CONSTRUCTION BUDGET	$123,800
CONTINGENCY	(10% - 20%) (use higher contingency for small projects)		15	%	$696,000.00	$104,000
MOBILIZATION	(estimate at 10%)		10	%	$800,000.00	$80,000
INFLATION	(assume 4% per year, beginning in 2025)		12	%	$880,000.00	$106,000

(Does not include PE or CE) **TOTAL CONSTRUCTION BUDGET** **$986,000**

(Refer to programming guidelines in Bridge Cost Estimating Worksheet-Key for CE,PE & PE-S)

% CE	CON BUDGET	$986,000
% PE	PE BUDGET	$0
% PE	PE-S BUDGET	$0

MICHIGAN DEPARTMENT OF TRANSPORTATION

STR 12662 — LOAD RATING ASSUMPTIONS

Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
SNOVER ROAD	43.3508 / -83.3937	79311H00009B010	Fair Condition(5)
Feature	**Length / Width / Spans**	**Owner**	
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Region / County	**Material / Design**	**Last NBI Inspection**	**Scour Evaluation**
Bay(4) / Tuscola(79)	3 Steel / 02 Multi Str Non Comp	06/11/2024 / JX37	5 Stable w/in footing

Rating Considers Field Condition of Members: Yes **Inspection Date:** 06/11/2024

Deterioration:

Deficiencies do not impact the load rating of the structure.

Most Recent Year Construct / Reconstruct / Overlay: 2008

History of Work Impacting Load Rating:

HMA overlay

Superstructure Component: 3 Steel **Beam fy:** 36.0 **ksi** **Beam f'c / fb:** **ksi**

Composite: No **Number of Beams:** 13 **Shop Drawings Verified:** No

Beam Size(s) & Names (each span): W14x34

Deck: **Thickness (in.):** 2.5 **Fy / f'c:** / ksi **Deck Design Load > H15:** Yes

Wearing Surface: **Mat'l:** HMA **Thickness (in.):** 6.0 **Unit Weight (pcf.):** 150.0

	LEFT	CENTER	RIGHT
Barrier: Type / Weight (plf.):	guardrail / 50.0	/	guardrail / 50.0
Sidewalk: Width / Thick (in.):	/	/	/

Clear Roadway (ft.): 27.9

Additional Loads:

See hand calcs. The HMA is 6" thick over 2.5" deep corrugated steel deck.

Unique Factors That Affect Capacity:

Plans do not exist for the structure. Use unknown properties from MDOT BAG. From detailed inspection, a rolled shape could not be determined. Use provided dimensions to determine beam section properties.

Analyzed By: Mike Soteropoulos **Date:** 09/11/2024

MICHIGAN DEPARTMENT OF TRANSPORTATION

STR 12662 — LOAD RATING SUMMARY

Facility	Latitude / Longitude	MDOT Structure ID	Structure Condition
SNOVER ROAD	43.3508 / -83.3937	79311H00009B010	Fair Condition(5)
Feature	**Length / Width / Spans**	**Owner**	
BEACH DRAIN	25.5 / 28 / 1	County: Tuscola(79)	
Location	**Built / Recon. / Paint / Ovly.**	**TSC**	**Operational Status**
SEC 22-27 FREMONT TWP	1935 / 1971 / 2008 / 2008	Huron(28)	P Posted for load(295166)
Region / County	**Material / Design**	**Last NBI Inspection**	**Scour Evaluation**
Bay(4) / Tuscola(79)	3 Steel / 02 Multi Str Non Comp	06/11/2024 / JX37	5 Stable w/in footing

Compliance Issue: None
Compliance Verified: No
Analysis Program: AASHTOWare Bridge Rating (BrR)
Analysis Program Version: 7.3
Rating Considers Field Condition of Members: Yes **Inspection Date:** 06/11/2024
Controlling component and failure mode:

Exterior beam moment

NEW INVENTORY CODING

NBI Item 63 - Operating Rating Method	6 LFR in Rating Factor
NBI Item 64F - Federal Operating Ratings	0.27
MDOT Item 64MA - Michigan Operating Method	6 LFR in Rating Factor
MDOT Item 64MB - Michigan Operating Rating	0.7
MDOT Item 64MC - Michigan Operating Truck	14
NBI Item 65 - Inventory Rating Method	6 LFR in Rating Factor
NBI Item 66 - Federal Inventory Rating	0.16
NBI Item 41 - Structure Open Posted Closed	P P Posted for load
NBI Item 70 - Bridge Posting	0 0 - 59% or less
Posted By	Truck Type
MDOT Item 141 - Posted Loading	295166
MDOT Item 193A - Michigan Overload Class	
MDOT Item 193C - Overload Status	

Sample Sign

R12-5

Analyzed By: Mike Soteropoulos **Date:** 09/11/2024
Checked By: Jonathan Lidgard **Date:** 10/31/2024

APPLICATION FOR FUNDING

FOR

REPLACEMENT OF

12662 – SNOVER ROAD BRIDGE OVER THE BEACH DRAIN

PRIORITY #1

Fremont Township, Tuscola County

Submitted by:
Tuscola County Road Commission
April 2025

Snover Road Bridge over the Beach Drain

The Tuscola County Road Commission is requesting local bridge funds for the **replacement** of the Snover Road Bridge over the Beach Drain. The Tuscola County Road Commission is committed to having this structure funded for the 2028 fiscal year. This bridge is the Road Commission's #1 priority for funding.

CONTACT

Brent Dankert, PE – County Highway Engineer
Tuscola County Road Commission
1733 Mertz Road
Caro, MI 48723
Phone: (989) 751-3873

BACKGROUND

The Snover Road Bridge over the Beach Drain is a single span structure totaling 25.5 feet in length. This structure carries 2 lanes of traffic and has an inside width of 28 feet. The bridge superstructure consists of thirteen steel I-beams with chip sealed HMA wearing surface. Corrugated steel deck panels left in place on deck bottom with light corrosion. Both reference line joints are paved over with faint reflective cracking. The railing along each side of structure consists of W-beam guardrail mounted to steel posts anchored to the fascia beams. Fascia beams are spliced and longer than the interior beams and have been repainted. Beams 5S-9S have additional sections of welded bottom flange repair plates. Beams 6S-8S, 12S and 13S have plate web repairs. Beams 5S and 9S have bolted repairs of holes in the web near the west backwall. The substructures consist of concrete cantilever abutments with scaling along the waterline. The east abutment has an open vertical and horizontal crack with settlement occurring. This abutment is being monitored. HMA approaches have been chip sealed.

WEIGHT LIMIT

The structure is currently posted for load **29/51/66**.

FUNCTIONAL CLASSIFICATION AND ECONOMIC IMPORTANCE

Snover Road is classified as a "local". It is a 2-lane HMA road which carries residential and agricultural equipment. The replacement of this bridge would help feed the residential growth and retain the agricultural sector in this region. The 2021 average daily traffic volume was 547 vehicles per day (vpd). The future traffic volumes (2045) are estimated to be 695 vpd. The economic importance of this structure is based on the extra travel time that will be needed due to the detour route if this structure is closed or posted for loading.

LOCAL IMPACTS AND DETOUR ROUTE

The detour route for traffic when the bridge will be closed is as follows: Snover Road, to Mertz Road (M-24), to Saginaw Road, to Conrad Road, and back to Snover Road. If the structure is closed, the detour would affect the route of residential traffic, school buses for nearby schools, agricultural operations, and the response time of emergency vehicles for emergencies. The approximate length of this detour is 3.8 miles utilizing paved, primary, and local roads.

ESTIMATED REPLACEMENT COST

A.	Approach Construction	$123,800
B.	Structure Construction	$862,200
Total		**$986,000**

If selected, the Tuscola County Road Commission is committed to a **20%** local match to fund the project.

Looking across Snover Road Bridge

Fascia of Snover Road Bridge

HMA pavement over the Snover Road Bridge

Railing along Snover Road Bridge

Deck bottom surface

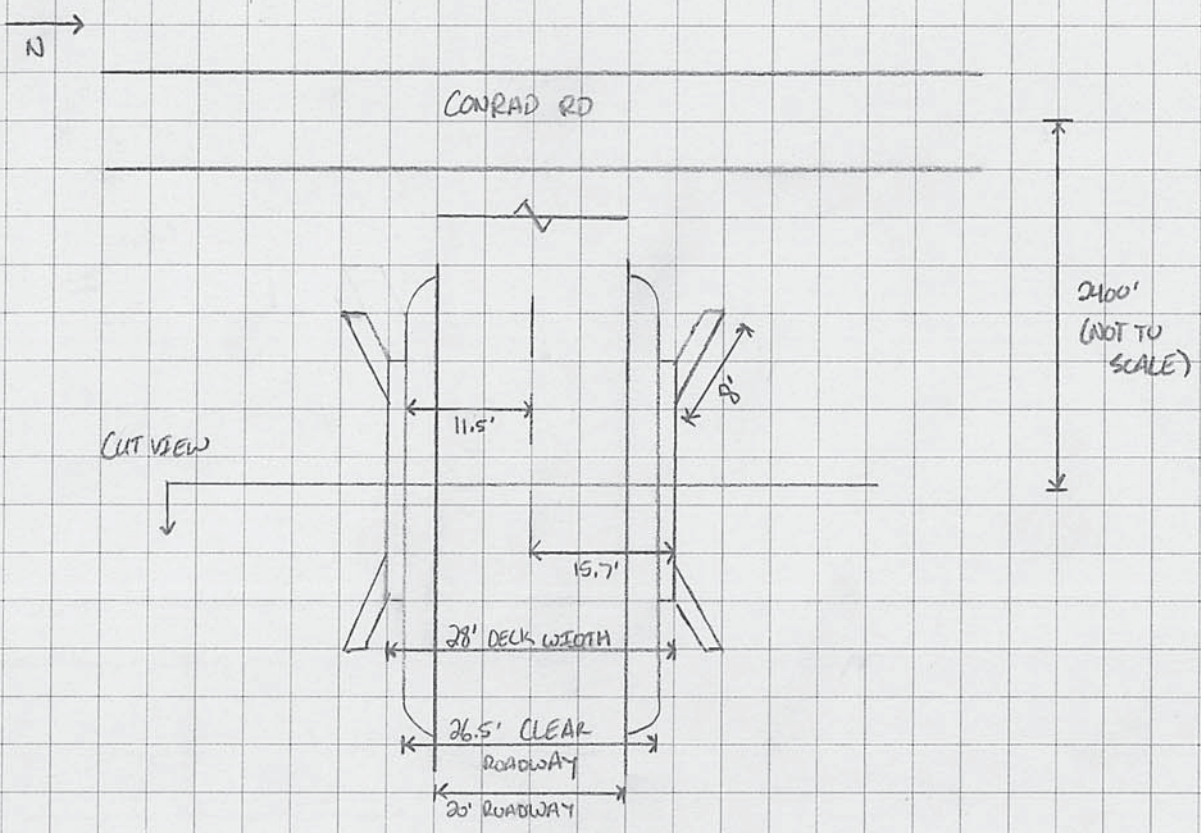
Beam end repairs

West Abutment

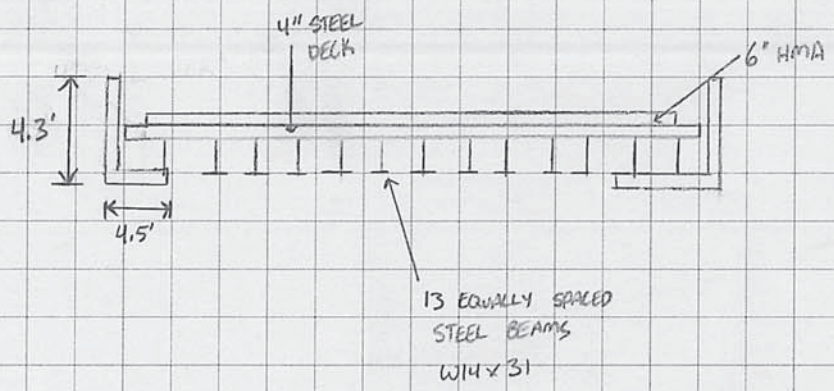
East Abutment

Project TUSCOLA COUNTY ROAD COMMISSION
Subject SNOVER RD - CONRAD RD BRIDGE #12662
Sheet # 1 of 2
Project # 130134562021
Comp. by AS date 6-1-21
Chkd. by TP date 6-1-21

SCALE - 1" = 20'



SCALE - 1" = 10'



Project TUSCOLA COUNTY ROAD COMMISSION

Subject SNOVER RD - CONRAD RD BRIDGE #12662

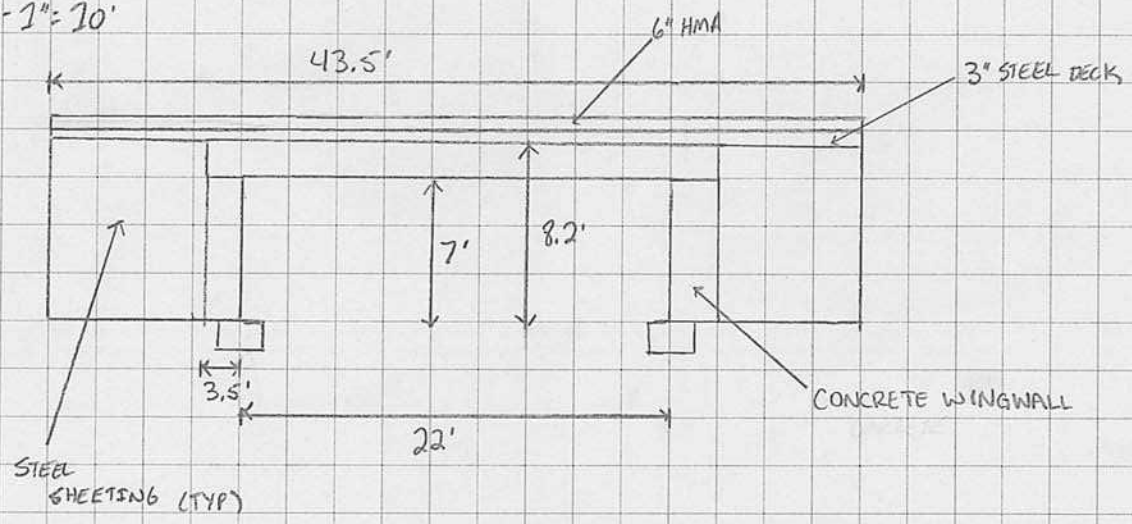
Sheet # 2 of 2

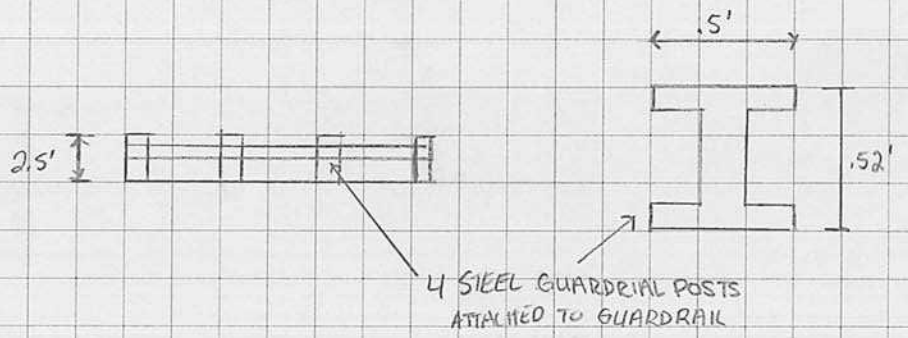
Project # 13013456 2021

Comp. by AS date 6-1-21

Chkd. by TP date 6-1-21

SCALE - 1" = 10'



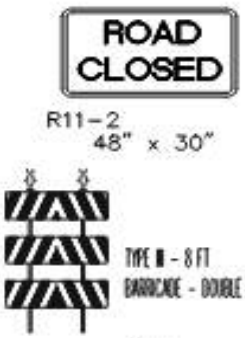


Snover Rd Bridge 12662 Detour Route

FINAL PLAN REVISIONS			
NO.	DATE	AUTH	DESCRIPTION

Tuscola County Road Commission
1733 Mertz
Caro, MI 48723
Phone: 989 673-2128
Fax: 989 673-3294

TITLE SHEET: Snover #12662 Detour Route		SHEET
TCRC PROJECT NO:		1
Created By: MBH	Date: 2/25/26	
Approved By: BJD	Date: 2/25/26	



R11-2
48" x 30"

TYPE III - 8 FT
BARRICADE - DOUBLE SIDED, LIGHTED

1

R11-4
60" x 30"

TYPE III - 8 FT
BARRICADE - DOUBLE SIDED, LIGHTED

2

R11-3
60 x 30"

3

4

M4-10
48" x 18"

5

W20-1 6 REQ'D
48" x 48"

6

W20-3 2 REQ'D
48" x 48"

7

W20-2 2 REQ'D
48" x 48"

8

9

10

M4-9
RIGHT

30" x 24"

11

M4-9
LEFT

12

M4-9
UP

13

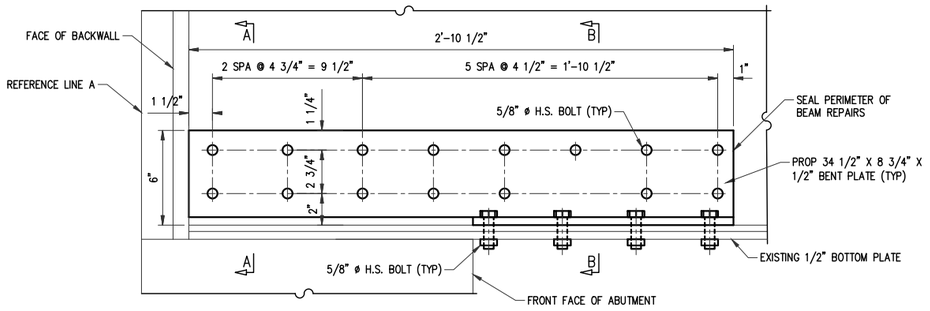
M4-8a 2 REQ'D
24" x 18"

14

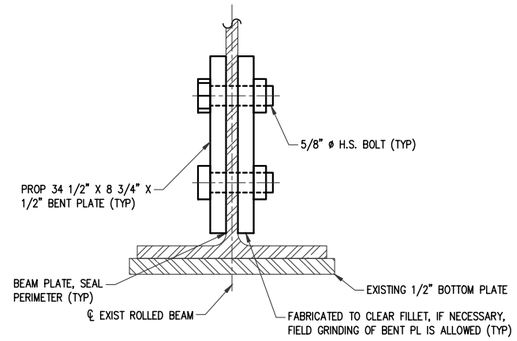
FINAL PLAN REVISIONS			
NO.	DATE	AUTH	DESCRIPTION

Tuscola County Road Commission
1733 Mertz
Caro, MI 48723
Phone: 989 673-2128
Fax: 989 673-3294

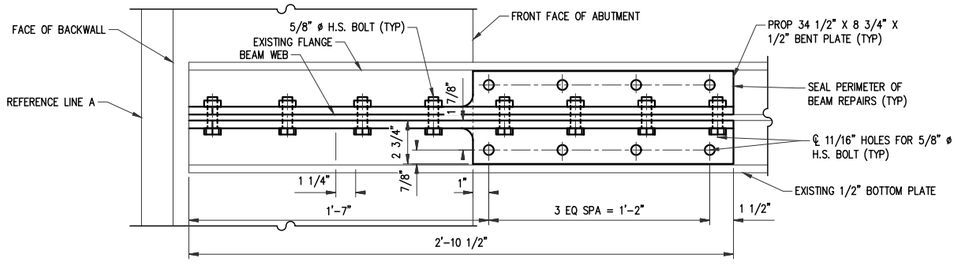
TITLE SHEET: Snover 12662 Detour		SHEET
TCRC PROJECT NO:		2
Created By: MBH	Date: 2/25/26	
Approved By: BJD	Date: 2/25/26	



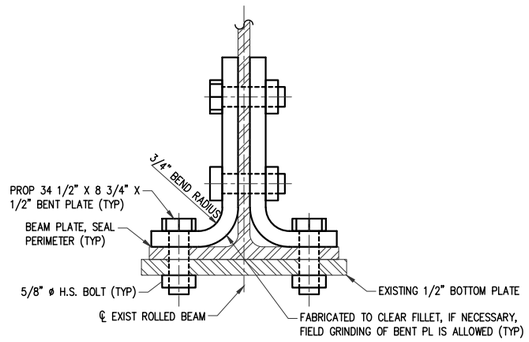
BOLTED REPAIR ELEVATION – WEB AND BOTTOM FLANGE
BEAM 5S NEAR WEST ABUTMENT



SECTION A–A



BOLTED REPAIR PLAN – WEB AND BOTTOM FLANGE
BEAM 5S NEAR WEST ABUTMENT



SECTION B–B

MISCELLANEOUS QUANTITIES

PAY ITEM	UNIT	TOTAL
STRUCTURAL STEEL, RETROFIT, FURN, FAB, AND ERECT	LBS	225
BEAM PLATE, SEAL PERIMETER	FT	34

NOTES:

THE DESIGN OF THE STRUCTURAL MEMBERS IS BASED ON MATERIAL OF THE FOLLOWING GRADES AND STRESSES:

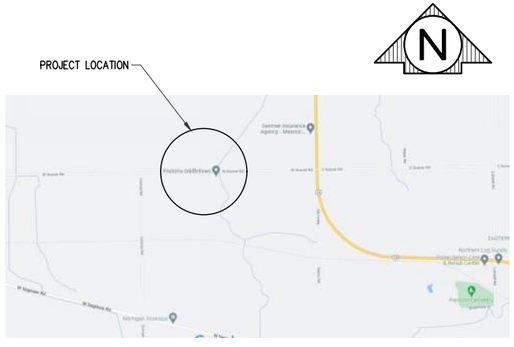
STRUCTURAL STEEL FOR STEEL REPAIRS:
AASHTO M270 GRADE 50, 50W Fy = 50,000 psi

FIELD CONNECTIONS ARE BOLTED WITH 5/8" HIGH-STRENGTH BOLTS.

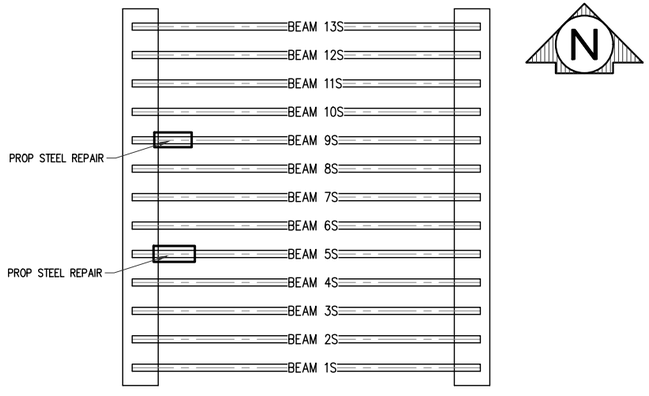
GRIND ALL PROPOSED BENT PLATES TO FILL BEAM FILLET.

THE PLATE SURFACES OF ALL BOLTED CONNECTIONS ARE CONSIDERED SLIP CRITICAL CONNECTIONS.

APPLY SEALANT AROUND THE PERIMETER OF BOLTED NEW CONNECTION PLATES TO EXISTING STRUCTURAL STEEL MEMBER.



PROJECT LOCATION MAP



ERECTION PLAN

Know what's **below.**
Call before you dig.

DATE OF PLAN: DECEMBER 2022

ROWE PROFESSIONAL SERVICES COMPANY
The Rowe Building
540 S. Saginaw St., Suite 200
Flint, MI 48502
O: (810) 341-7500
F: (810) 341-7573
www.rowepsc.com

PLAN SUBMITTALS AND CHANGES
PRELIMINARY PLANS – **NOT FOR CONSTRUCTION**

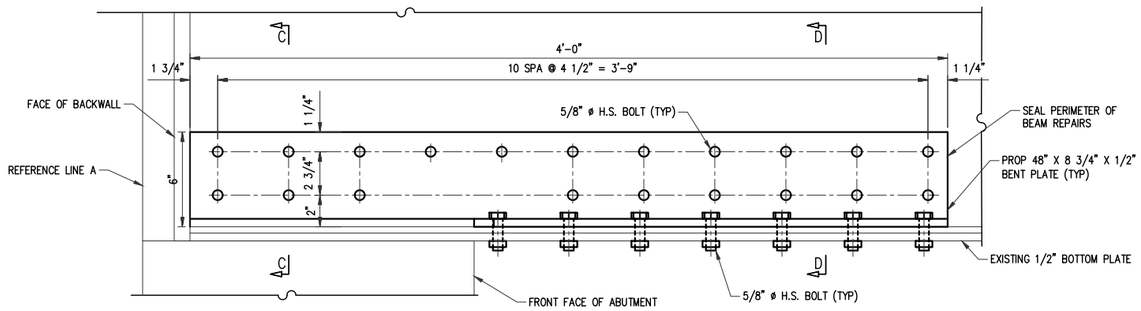
DATE	DESCRIPTION

TUSCOLA COUNTY ROAD COMMISSION
BEAM REPAIR – BEAM 5S
SNOVER ROAD
OVER THE
BEACH DRAIN

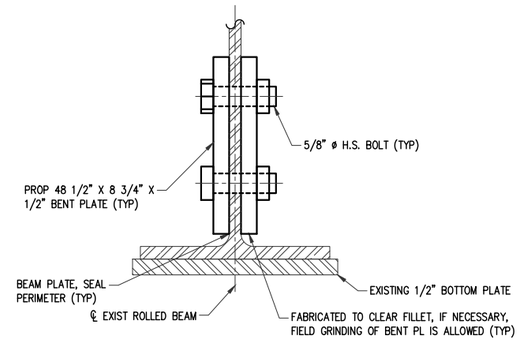
APPROVED _____

MDOT UNIT		
CONSULT UNIT		
DRAWN BY	MJS	12/1/22
CHECKED BY	ANH	12/8/22
SHEET 01 OF	2	
STR NO.	12662	

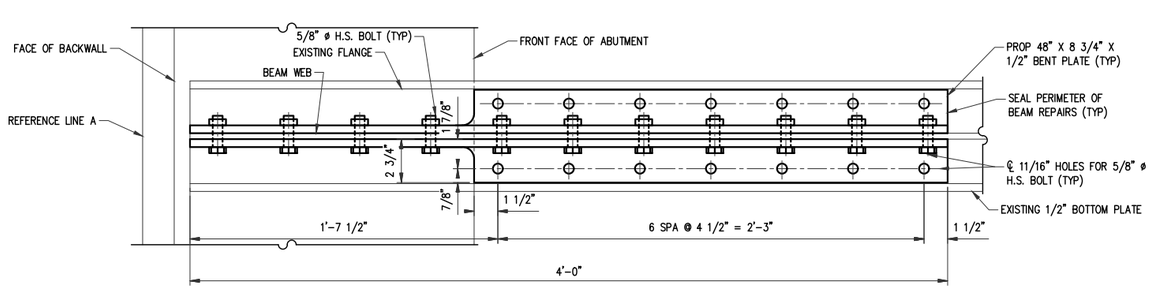
PLOTTED: 1/6/2023 10:01 AM
R:\Projects\22001114\Dwg\Construction Drawings\Snover Beam Repair.dwg



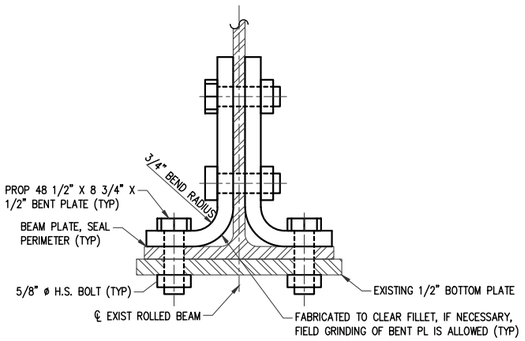
BOLTED REPAIR ELEVATION – WEB AND BOTTOM FLANGE
BEAM 9S NEAR WEST ABUTMENT



SECTION C–C



BOLTED REPAIR PLAN – WEB AND BOTTOM FLANGE
BEAM 9S NEAR WEST ABUTMENT



SECTION D–D

NOTES:

FOR NOTES, SEE BEAM REPAIR DETAIL SHEET 1.

Know what's **below.**
Call before you dig.

DATE OF PLAN: DECEMBER 2022

ROWE PROFESSIONAL SERVICES COMPANY
The Rowe Building
540 S. Saginaw St., Suite 200
Flint, MI 48502
O: (810) 341-7500
F: (810) 341-7573
www.rowepsc.com

PLAN SUBMITTALS AND CHANGES

PRELIMINARY PLANS – **NOT FOR CONSTRUCTION**

DATE	DESCRIPTION

TUSCOLA COUNTY ROAD COMMISSION

BEAM REPAIR – BEAM 9S

SNOVER ROAD
OVER THE
BEACH DRAIN

APPROVED _____

MDOT UNIT		
CONSULT UNIT		
DRAWN BY	MJS	12/1/22
CHECKED BY	ANH	12/8/22
SHEET	02 OF	2
STR NO.	12662	

a. Description. This work consists of furnishing and placing nameplate at the location shown on the plans or as approved by the Engineer, and in accordance with the details shown, expect that the final lettering on the plate shall be as approved by the road commission prion to fabrication.

b. Material. The nameplate shall be cast from bronze ingots (81% copper, 7% lead, 3% tin, 9% zinc) with polished letters and border. The plates shall be given two coats of lacquer or other oxidation retardant.

1. Casting
   The castings shall be free from blow holes, porosity, hard spots, shrinkage defects or cracks, or other injurious defects and shall be smooth and well cleaned.

   The castings shall not be repaired, plugged, welded, or "burned in", unless permission has been secured. This permission will be given only when the defects are such that after the approved repair, the appearance and strength of the casting has not been impaired.

   All castings shall be true to pattern, free from swells, etc… Wall thickness shall be uniform throughout the lot of castings and all cores shall be accurately set.

2. Type of Letter
   All lettering shall be Gothic Condensed Deep Block Type of approximately the following proportions: (Height as shown on plans)

Depth	1/16 inch
Face Thickness	1/6 of height

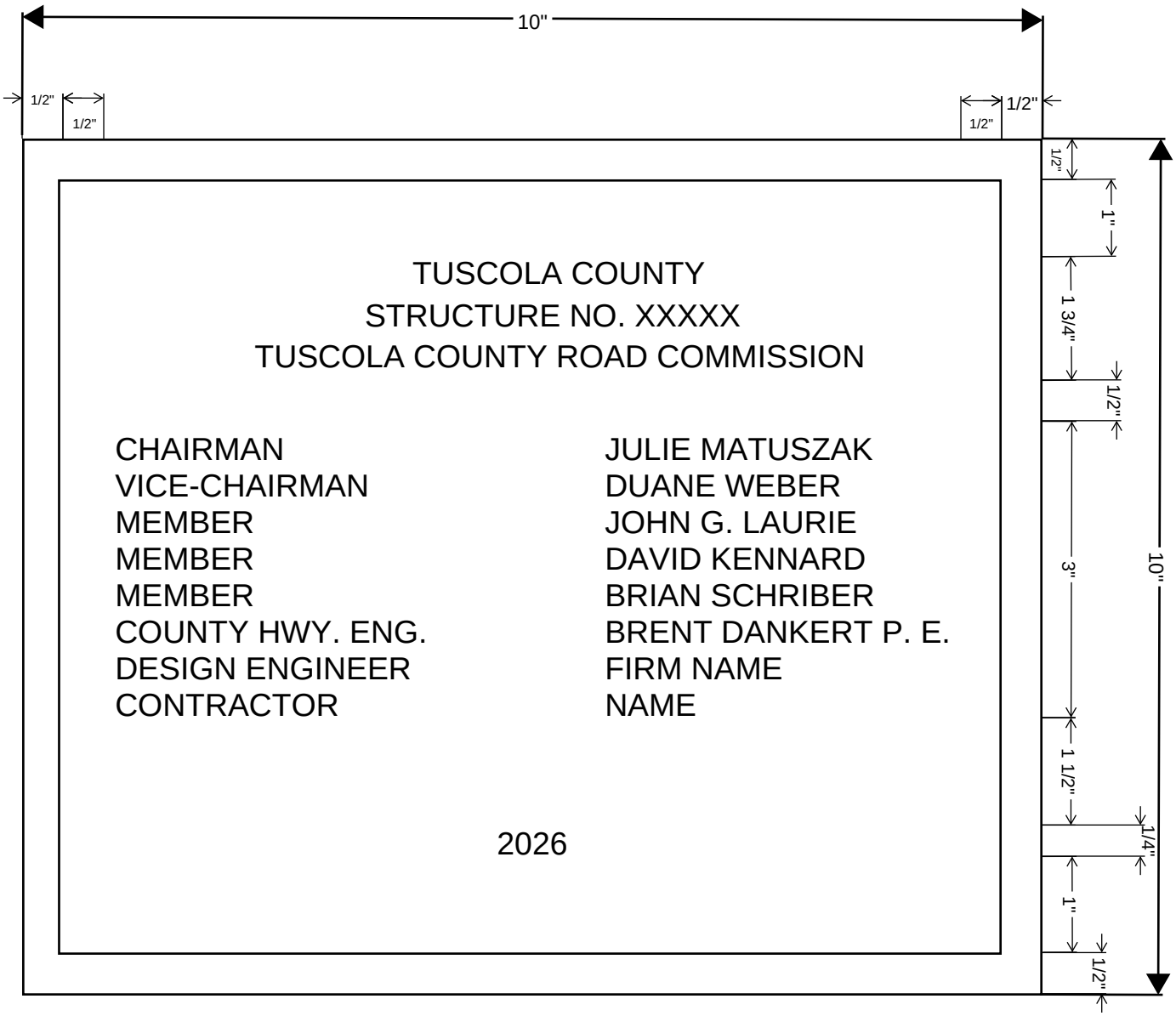
   It is the intention that stock letters be used as furnished by the manufacturer subject to the approval of the engineer.

   Three full-size rubbings of the actual nameplate shall be submitted to the Engineer for approval. Casting shall not be done until written approval of the rubbings has been received from the County.

c. Payment. The completed work as measured for Structure Name Plate will be paid for at the contract unit price for the following contract pay item:

Pay Item	**Pay Unit**
Structure Name Plate ……..	Each

Payment for Structure Name Plate shall include all labor, equipment and materials to complete this work.



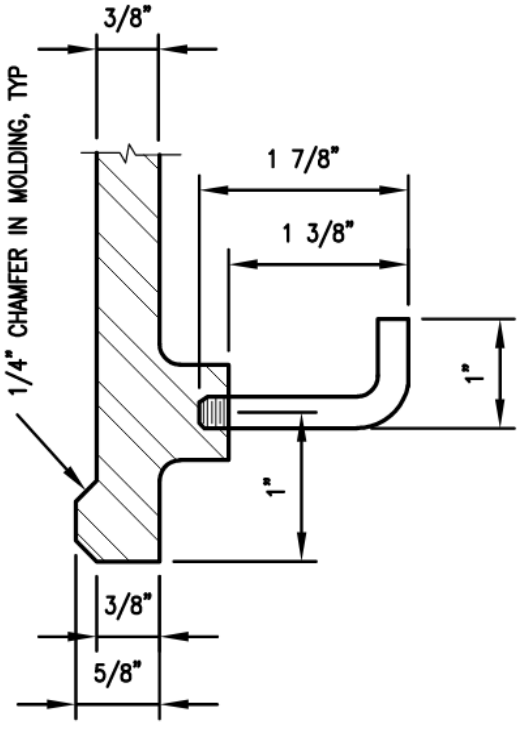
NOTES:

BOARD MEMBERS NAMES AND YEAR OF CONSTRUCTION SUBJECT TO CHANGE.

PEBBLE BACKGROUND WITH POLISHED BORDER CONSTRUCTION SUBJECT TO CHANGE.

LETTER AND NUMBER SIZES ARE APPROXIMATE SLIGHT VARIATIONS FROM SIZE ARE ALLOWED.

PROVIDE (4) 3/8" DIAMETER L-SHAPED ANCHORS, MINIMUM 3" EMBEDMENT.



February 24, 2026

Tuscola County Road Commission
1733 S Mertz Road
Caro, Michigan 48723

Job No. 26-650325

Attention: Mr. Brent Dankert, P.E.

Subject: Asbestos Survey and Limited Lead Chip Sampling and Testing
Bridge Structure 12662
Snover Road over Beach Drain
Fremont Township, Tuscola County, Michigan

Dear Mr. Dankert:

Pursuant to your request, McDowell & Associates has completed this Asbestos Survey and Limited Paint Chip Sampling and Testing for the existing bridge located at Snover Road over Beach Drain, Fremont Township, Tuscola County, Michigan. A Site Location Map, which shows the approximate location of the subject structure, accompanies this letter as Attachment I.

It is our understanding the entire bridge structure is intended to be replaced. Observations were made of the visible materials, from the accessible areas on and around the structure.

The purpose of this survey was to identify regulated asbestos-containing materials (ACM) in the structure prior to demolition, in accordance with the National Emissions Standard for Hazardous Air Pollutants (NESHAP) and the Michigan Department of Licensing and Regulatory Affairs (LARA) Part 602 - Asbestos Standards for Construction. In addition, two paint chip samples were collected for lead testing.

As part of this survey, bulk samples for asbestos testing were obtained, in triplicate, from four suspect materials on the bridge, for a total of twelve samples submitted for PLM testing. Results of PLM testing show asbestos was not detected in any of the samples.

Two paint chip samples were obtained from steel beams on the bridge. Results of testing show lead was detected in each of the samples at concentrations of 0.024% and 0.018% lead by weight. OSHA/ MIOSHA Lead regulations would apply for materials containing lead at any concentration.

If additional suspect materials are encountered in the demolition process that were not sampled in this asbestos survey, McDowell & Associates should be notified so that we can conduct supplemental investigation.

This survey was completed for the exclusive use of Tuscola County Road Commission, and they may rely on its contents.

The results of our investigation are presented below.

Structure Description

The subject structure is a concrete/steel bridge with steel guard rails and asphalt surface located on Snover Road, west of Mertz Road (M24), Fremont Township, Tuscola County, Michigan. The bridge spans Beach Drian. Summarized below is information obtained from observations made during the survey and from provided information.

- Built in approximately 1935 and rebuilt in approximately 1971
- Single span deck approximately 25' x 30'
- Concrete construction with steel underdeck and steel beams
- Asphalt surface, metal guardrails, concrete abutment/wall

Field Work

On February 16, 2026, a Certified Asbestos Building Inspector with McDowell & Associates observed the structure for the presence of suspect asbestos-containing materials. Suspect materials were sampled in triplicate, designated A, B, C.

The following table summarizes sample materials, designated 650325-1 A-C through 650325-4 A-C.

Sample ID	Material /Description	Location
650325-1 A,B,C	Abutment / Wall Concrete	Abut/Walls
650325-2 A,B,C	Abutment / Wall Concrete	Patches on Walls
650325-3 A,B,C	Deck Surface Asphalt	Deck Top
650325-4 A,B,C	Caulk on Supports	Supports on Beams

Samples were submitted to EMSL Analytical, Inc. of Indianapolis, Indiana for testing by polarized light microscopy (PLM, EPA Method 600/R-93/116).

Two paint samples were obtained from the paint on the beams, designated 650325-4 and 65325-5. 650325-4 was the darker gray paint and 650325-5 was the lighter gray paint. There appeared to be several layers of paint/primer. An attempt was made to collect a representative sample of the paint cross-sections.

PLM Results

According to the National Emission Standard for Hazardous Air Pollutants (NESHAP) definition, materials which contain greater than one percent asbestos are considered asbestos-containing materials.

Results of PLM testing show asbestos was not detected in any of the samples.

Lead Testing Results

The paint sample was submitted to EMSL Analytical, Inc. of Indianapolis, Indiana for flame atomic absorption testing to determine the presence of lead (Pb, Method 7000).

Results of testing show lead was detected in the paint samples at concentrations of 0.024% by weight for 650325-4 and 0.018% by weight for 650325-5.

A copy of the PLM and lead results and chain-of-custody documentation are attached.

Limitations

Observations were made of the visible materials, from the accessible areas on and around the structure. Lighting and winter conditions limited some observation.

It is possible that additional materials will be encountered during demolition / renovation activities. In the event suspect materials are observed that were not identified in this assessment, the materials should be presumed to contain lead and/or asbestos and removed by a licensed abatement contractor or sampled and tested by a certified inspector.

Conclusions

McDowell & Associates has completed this Asbestos Survey and Limited Paint Chip Sampling and Testing for the existing bridge located at Snover Road over Beach Drain, Fremont Township, Tuscola County, Michigan.

As part of this survey, bulk samples for asbestos testing were obtained, in triplicate, from four suspect materials on the bridge, for a total of twelve samples submitted for PLM testing. Results of PLM testing show asbestos was not detected in any of the samples.

Two paint chip samples were obtained from steel beams on the bridge. Results of testing show lead was detected in each of the samples at concentrations of 0.024% and 0.018% lead by weight. OSHA/ MIOSHA Lead regulations would apply for materials containing lead at any concentration.

If you have any questions, or if we can be of further service, please do not hesitate to call.

Respectfully Submitted,

MCDOWELL & ASSOCIATES

Erik L. Johnson, B.S.
Environmental Scientist /
Midland Operations Manager
Michigan Asbestos Insp# A29674

Jennifer Lagerbohm, M.S., CHMM
Environmental Manager

Douglas M. McDowell, M.S., P.E.
President

Attachments:

- Site Location Map
- Laboratory Results


McDowell & Associates - 26-650325
Snover Road over Beach Drain
26-650325
W Snover Rd
W Snover Rd
Fostoria Oddfellows
Gentner Insuran
Conrad Rd
Conrad Rd
Mertz Rd
DTE Put
24
N
2000 ft
Google Earth

EMSL Analytical, Inc.

6340 CastlePlace Dr. Indianapolis, IN 46250

Tel/Fax: (317) 803-2997 / (317) 803-3047

http://www.EMSL.com / indianapolislab@emsl.com

EMSL Order:	162601949
Customer ID:	MCDO51
Customer PO:	
Project ID:	

Attention:	Erik Johnson McDowell & Associates 3730 James Savage Road Midland, MI 48642	**Phone:**	(989) 496-3610
		Fax:	(989) 496-3190
		Received Date:	02/19/2026 1:03 PM
		Analysis Date:	02/23/2026
		Collected Date:	
Project:	26-650325		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
650325-1 A *162601949-0001*	ABUT - CONCRETE	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
650325-1 B *162601949-0002*	ABUT - CONCRETE	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
650325-1 C *162601949-0003*	ABUT - CONCRETE	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
650325-2 A *162601949-0004*	PATCH- CONCRETE - ABUT @ DECK	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
650325-2 B *162601949-0005*	PATCH- CONCRETE - ABUT @ DECK	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
650325-2 C *162601949-0006*	PATCH- CONCRETE - ABUT @ DECK	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
650325-3 A *162601949-0007*	DECK - ASPHALT	Black Non-Fibrous Homogeneous		30% Quartz 70% Non-fibrous (Other)	None Detected
650325-3 B *162601949-0008*	DECK - ASPHALT	Black Non-Fibrous Homogeneous		30% Quartz 70% Non-fibrous (Other)	None Detected
650325-3 C *162601949-0009*	DECK - ASPHALT	Black Non-Fibrous Homogeneous		30% Quartz 70% Non-fibrous (Other)	None Detected
650325-6 A *162601949-0010*	CAULK @ BRACES - BEAMS	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
650325-6 B *162601949-0011*	CAULK @ BRACES - BEAMS	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
650325-6 C *162601949-0012*	CAULK @ BRACES - BEAMS	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 02/23/2026 13:11:56

EMSL Analytical, Inc.
6340 CastlePlace Dr. Indianapolis, IN 46250
Tel/Fax: (317) 803-2997 / (317) 803-3047
http://www.EMSL.com / indianapolislab@emsl.com

EMSL Order:	162601949
Customer ID:	MCDO51
Customer PO:	
Project ID:	

Analyst(s)
Amanda Straw (8)
Hilary Jarvis (4)

Asbestos Laboratory Manager
or Other Approved Signatory

Initial report from: 02/23/2026 13:11:56

OrderID: 162601949

EMSL Chain of Custody - One Chain

EMSL Analytical, Inc.

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Order Number / Lab Use Only: 162601949

Tampa, FL 33634
PHONE: (813) 280-8752
EMAIL: tampalab@emsl.com

If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization.

Customer Information

Customer ID:	
Company Name:	McDowell & Associates
Contact Name:	Erik Johnson
Street Address:	3730 James Savage Rd
City, State, Zip:	MIDLAND MI 4864 Country: US
Phone:	9894963610
Email(s) for Report:	erik.johnson@mcdowasc.com

Billing Information

Billing ID:	
Company Name:	McDowell & Associates
Billing Contact:	Robert Korte
Street Address:	21355 Hatcher Avenue
City, State, Zip:	Ferndale MI Country: US
Phone:	9894963610
Email(s) for Invoice:	bob.korte@mcdowasc.com

Project Information

Project Name/No: 26-650325
Purchase Order:
EMSL LIMS Project ID: (If applicable, EMSL will provide)
US State where samples collected: MI
State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)
Sampled By Name: Erik Johnson
Sampled By Signature: Erik Johnson
No. of Samples in Shipment: 12

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☒ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

ASBESTOS

PCM Air
- ☐ NIOSH 7400
- ☐ NIOSH 7400 w/ 8hr. TWA

PLM - Bulk (reporting limit)
- ☒ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)
- ☐ POINT COUNT
  - ☐ 400 (<0.25%) ☐ 1,000 (<0.1%)
- POINT COUNT w/ GRAVIMETRIC
  - ☐ 400 (<0.25%) ☐ 1,000 (<0.1%)
- ☐ NIOSH 9002 (<1%)
- ☐ NYS 198.1 (Friable - NY)
- ☐ NYS 198.6 NOB (Non-Friable - NY)
- ☐ NYS 198.8 (Vermiculite SM-V)

TEM - Air
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312*

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (Non-Friable-NY)
- ☐ TEM EPA 600/R-93/116 w Milling Prep (0.1%)

Other Test (please specify)

*Please call with your project-specific requirements.

TEM - Settled Dust
- ☐ Microvac - ASTM D5755
- ☐ Wipe - ASTM D6480
- ☐ Qualitative via Filtration Prep
- ☐ Qualitative via Drop Mount Prep

Soil - Rock - Vermiculite (reporting limit)*
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM Qualitative via Filtration Prep
- ☐ TEM Qualitative via Drop Mount Prep

☐ Positive Stop - Clearly Identified Homogeneous Areas (HA) Filter Pore Size (Air Samples) ☐ 0.8um ☐ 0.45um

LEAD (PB)

Flame Atomic Absorption
- ☐ Chips SW846-7000B or AOAC 974.2
- ☐ Soil SW846-7000B/7420
- ☐ Air NIOSH 7082
- ☐ Wastewater SM3111B or SW846-7000B/7420
- ☐ ASTM Wipe SW846-7000B/7420
- ☐ Non-ASTM Wipe SW846-7000B/7420
- ☐ TCLP SW846-1311/ 7420/ SM3111B

ICP
- ☐ TEM EPA 600/R-93/116 w Milling Prep (0.1%)
- ☐ Chatfield SOP

MAT-SCI (TAT End of Business Day)
- ☐ Common Particle ID (large particles)
- ☐ Full Particle ID (environmental dust) Basic
- ☐ Materal ID (solids)
- ☐ Advanced Material ID
- ☐ Physical Testing (Tensile, Compression)
- ☐ Combustion-By-Products (Soot, Char, etc.)
- ☐ X-Ray Flourescence (Elem. Analysis)
- ☐ X-Ray Diffraction (Crystalline Part.)
- ☐ MMVFs (Fibrous Glass, RCFs)
- ☐ Particle Size (Sieve, Microscopy, Laser)
- ☐ Combustible Dust
- ☐ Petrographic Examination

MICROBIOLOGY

Swab and Bulk Samples
- ☐ Mold & Fungi - Direct Examination
- ☐ Mold & Fungi Culture (Genus Only)
- ☐ Mold & Fungi Culture (Genus & Species)
- ☐ Bacterial Count & ID (Up to 3 Types)
- ☐ Bacterial Count & ID (Up to 5 Types)

Sewage Screen
- ☐ Sewage Screen (P/A)
- ☐ Sewage Screen (Membrane Filtration)

Water Samples
- ☐ Total Coliform & E. Coli (P/A, SM 9223B)
- ☐ Heterotrophic Plate Count (PP, SM 9251B)
- ☐ Fecal Coliform (SM 9222D)

Air Samples
- ☐ Mold & Fungi (Spore Trap)
- ☐ Mold & Fungi Culture (Genus Only)
- ☐ Mold & Fungi Culture (Genus & Species)
- ☐ Bacterial Count & ID (Up to 3 Types)
- ☐ Bacterial Count & ID (Up to 5 Types)

DNA & PCR Testing: (See Analytical Guide for Code)
Test Code:

Legionella: (See Analytical Guide for Code)
Test Code:

P/A= Presence/Absence, PP= Pour Plate

IAQ (TAT End of Business Day)
- ☐ Nuisance Dust ☐ NIOSH 0500 ☐ NIOSH 0600
- ☐ Airborne Dust ☐ PM10 ☐ TSP
- Silica Analysis: ☐ All Species
- Silica Analysis - Single Species
  - ☐ Alpha Quartz ☐ Cristobalite ☐ Tridymite
- ☐ HVAC Efficiency
- ☐ Carbon Black
- ☐ Airborn Oil Mist
- Radon Testing: Call for Kit and COC

Other Test (please specify)

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Method of Shipment: UPS		Sample Condition Upon Receipt:	
Relinquished by: Erik Johnson	Date/Time: 2/17/26 1200	Received by:	Date/Time: 2/17/26 1:03p
Relinquished by:	Date/Time:	Received by:	Date/Time

☒ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

OrderID: 162601949

EMSL Chain of Custody - One Chain

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.

Tampa, FL 33634
PHONE: (813) 280-8752
EMAIL: tampalab@emsl.com

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Additio nly necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
650325-1 ABC	Abut - Concrete	–	–
650325-2 ABC	Patch - Concrete - Abut @ Deck	–	–
650325-3 ABC	Deck - Asphalt	–	–
650325-6 ABC	Caulk @ Braces - Beams	–	–

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by:	Date/Time
Relinquished by:	Date/Time:	Received by.	Date/Time

Controlled Document - COC-17 One Chain EMSL R5 2/26/2021

☐ **AGREE TO ELECTRONIC SIGNATURE** (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

EMSL Analytical, Inc.

6340 Castleplace Drive, Indianapolis, IN, 46250
Telephone: 317.803.2997 Fax:317.803.3047
www.emsl.com

EMSL Order ID: 162651546
LIMS Reference ID: CE51546
EMSL Customer ID: MCDO51

Attention: Erik Johnson
McDowell & Associates [MCDO51]
3730 James Savage Road,
Midland, MI 48642
(989) 496-3610
erik.johnson@mcdowasc.com

Project Name: 26-650325

Customer PO:
EMSL Sales Rep: Jennifer Abels
Received: 02/19/2026 13:03
Reported: 02/23/2026 11:50

Analytical Results

Analyte	Results	RL	Weight	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: 650325-4/Dark Gray Paint - Beams+Rails									**Date Sampled: 02/18/26**
Matrix: Chips									**LIMS Reference ID: CE51546-01**
Lead	0.024 % wt	0.0064 % wt	0.2561 g	02/20/26 CG	SW-846 3050B	02/20/26 CG	SW 846-7000B		1
Client Sample ID: 650325-5/Lt. Gray Paint - Beams									**Date Sampled: 02/18/26**
Matrix: Chips									**LIMS Reference ID: CE51546-02**
Lead	0.018 % wt	0.0078 % wt	0.2052 g	02/20/26 CG	SW-846 3050B	02/20/26 CG	SW 846-7000B		1

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Project Name: 26-650325

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EMSL Sales Rep: Jennifer Abels
Received: 02/19/2026 13:03
Reported: 02/23/2026 11:50

Certified Analyses included in this Report

Analyte	Certifications
SW 846-7000B in Chips	
Lead	16-OHDOH,16-AIHA ELLAP

List of Certifications

Code	Description	Number	Expires
16-MO	Missouri Drinking Water	10180	03/31/2026
16-NYDOH	New York Potable Water, Metals Solid and Hazardous Waste - Asbestos	12130	04/01/2026
16-AIHA ELLAP	American Industrial Hygiene Association (AIHA LAP, LLC) - ELLAP	157245	08/01/2027
16-AIHA IHLAP	American Industrial Hygiene Association (AIHA LAP, LLC) - IHLAP	157245	08/01/2027
16-CA ELAP	California Metals in DW, Chemistry and Bulk Asbestos in Hazardous Waste	2575	06/30/2026
16-A2LA Food	A2LA Food Microbiology	2845.11	01/31/2028
16-A2LA Chemistry	A2LA Environmental and Chemistry	2845.25	01/31/2028
16-IN Metals/Asbestos	Indiana Lead and Metals and Asbestos in Drinking Water	C-49-09	12/31/2026
16-OHDOH	Ohio - Lead in Paint Chips, Wipes, Soil and Air	E10040	05/03/2026
16-FLDOH	Florida Asbestos and Metals in Drinking Water, PCBs	E871170	06/30/2026
16-NJDEP	New Jersey Metals, Organics and Inorganics in DW PCBs	IN002	06/30/2026
16-IN Colilert/HPC	Indiana Colilert and HPC	M-49-06	12/31/2026

Please see the specific Field of Testing (FOT) on www.emsl.com <http://www.emsl.com> for a complete listing of parameters for which EMSL is certified.

Notes and Definitions

Item	Definition
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DA	Direct Analysis
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the reporting limit, or the mdl if provided.
NR	Spike/Surrogate showed no recovery.
Q	Qualifier
RCS	Respirable Crystalline Silica
RL	Reporting Limit
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

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www.emsl.com

EMSL Order ID: 162651546
LIMS Reference ID: CE51546
EMSL Customer ID: MCDO51

Attention: Erik Johnson
McDowell & Associates [MCDO51]
3730 James Savage Road,
Midland, MI 48642
(989) 496-3610
erik.johnson@mcdowasc.com

Project Name: 26-650325

Customer PO:
EMSL Sales Rep: Jennifer Abels
Received: 02/19/2026 13:03
Reported: 02/23/2026 11:50

Aleks Kuchenbrod Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. QC sample results are within quality control criteria and met method specifications unless otherwise noted. All results for soil samples are reported on a dry weight basis, unless otherwise noted.

Analysis following EMSL SOP for the Determination of Environmental Lead by FLAA. The laboratory has a reporting limit of 0.0064% by wt., based upon a minimum sample weight of 0.25g submitted to the lab, and is not responsible for any result or reporting limit provided in mg/cm2 since it is dependent upon an area value provided by non-lab personnel. A "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty and definitions of modifications are available upon request. Results in this report are not blank corrected unless specified.

EMSL Chain of Custody - One Chain

EMSL Analytical, Inc.

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Order Number / Lab Use Only: 102051546

Tampa, FL 33634
PHONE: (813) 280-8752
EMAIL: tampalab@emsl.com

If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization.

Customer Information		Billing Information	
Customer ID:		Billing ID:	
Company Name:	McDowell & Associates	Company Name:	McDowell & Associates
Contact Name:	Erik Johnson	Billing Contact:	Robert Korte
Street Address:	3730 James Savage Rd	Street Address:	21355 Hatcher Avenue
City, State, Zip:	MIDLAND MI 4864	Country: US	City, State, Zip: Ferndale MI Country: US
Phone:	9894963610		Phone: 9894963610
Email(s) for Report:	erik.johnson@mcdowasc.com		Email(s) for Invoice: bob.korte@mcdowasc.com

Project Information

Project Name/No: 26-650325

Purchase Order:

EMSL LIMS Project ID: (If applicable, EMSL will provide)

US State where samples collected: MI

State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)

Sampled By Name: Erik Johnson

Sampled By Signature: Erik Johnson

No. of Samples in Shipment: 2

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☒ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:30am.

ASBESTOS

PCM Air
- ☐ NIOSH 7400
- ☐ NIOSH 7400 w/ 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)
- ☐ POINT COUNT
  - ☐ 400 (<0.25%) ☐ 1,000 (<0.1%)
- POINT COUNT w/ GRAVIMETRIC
  - ☐ 400 (<0.25%) ☐ 1,000 (<0.1%)
- ☐ NIOSH 9002 (<1%)
- ☐ NYS 198.1 (Friable - NY)
- ☐ NYS 198.6 NOB (Non-Friable - NY)
- ☐ NYS 198.8 (Vermiculite SM-V)

TEM - Air
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312*

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (Non-Friable-NY)
- ☐ TEM EPA 600/R-93/116 w Milling Prep (0.1%)

Other Test (please specify)

*Please call with your project-specific requirements.

TEM - Settled Dust
- ☐ Microvac - ASTM D5755
- ☐ Wipe - ASTM D6480
- ☐ Qualitative via Filtration Prep
- ☐ Qualitative via Drop Mount Prep

Soil - Rock - Vermiculite (reporting limit)*
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.25%)
- ☐ PLM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM EPA 600/R-93/116 with milling prep (<0.1%)
- ☐ TEM Qualitative via Filtration Prep
- ☐ TEM Qualitative via Drop Mount Prep

☐ **Positive Stop - Clearly Identified Homogeneous Areas (HA)** **Filter Pore Size (Air Samples)** ☐ 0.8um ☐ 0.45um

LEAD (PB)

Flame Atomic Absoprtion
- ☒ Chips SW846-7000B or AOAC 974.2
- ☐ Soil SW846-7000B/7420
- ☐ Air NIOSH 7082
- ☐ Wastewater SM3111B or SW846-7000B/7420
- ☐ ASTM Wipe SW846-7000B/7420
- ☐ Non-ASTM Wipe SW846-7000B/7420
- ☐ TCLP SW846-1311/ 7420/ SM3111B

ICP
- ☐ TEM EPA 600/R-93/116 w Milling Prep (0.1%)
- ☐ Chatfield SOP

MICROBIOLOGY

Swab and Bulk Samples
- ☐ Mold & Fungi - Direct Examination
- ☐ Mold & Fungi Culture (Genus Only)
- ☐ Mold & Fungi Culture (Genus & Species)
- ☐ Bacterial Count & ID (Up to 3 Types)
- ☐ Bacterial Count & ID (Up to 5 Types)

Sewage Screen
- ☐ Sewage Screen (P/A)
- ☐ Sewage Screen (Membrane Filtration)

Water Samples
- ☐ Total Coliform & E. Coli (P/A, SM 9223B)
- ☐ Heterotrophic Plate Count (PP, SM 9251B)
- ☐ Fecal Coliform (SM 9222D)

Air Samples
- ☐ Mold & Fungi (Spore Trap)
- ☐ Mold & Fungi Culture (Genus Only)
- ☐ Mold & Fungi Culture (Genus & Species)
- ☐ Bacterial Count & ID (Up to 3 Types)
- ☐ Bacterial Count & ID (Up to 5 Types)

DNA & PCR Testing: (See Analytical Guide for Code)
Test Code:

Legionella: (See Analytical Guide for Code)
Test Code:

P/A= Presence/Absence, PP= Pour Plate

MAT-SCI (TAT End of Business Day)
- ☐ Common Particle ID (large particles)
- ☐ Full Particle ID (environmental dust) Basic
- ☐ Mateiral ID (solids)
- ☐ Advanced Material ID
- ☐ Physical Testing (Tensile, Compression)
- ☐ Combustion-By-Products (Soot, Char, etc.)
- ☐ X-Ray Flourescence (Elem. Analysis)
- ☐ X-Ray Diffraction (Crystalline Part.)
- ☐ MMVFs (Fibrous Glass, RCFs)
- ☐ Particle Size (Sieve, Microscopy, Laser)
- ☐ Combustible Dust
- ☐ Petrographic Examination

IAQ (TAT End of Business Day)
- ☐ Nuisance Dust ☐ NIOSH 0500 ☐ NIOSH 0600
- ☐ Airborne Dust ☐ PM10 ☐ TSP
- Silica Analysis: ☐ All Species
- Silica Analysis - Single Species
  - ☐ Alpha Quartz ☐ Cristobalite ☐ Tridymite
- ☐ HVAC Efficiency
- ☐ Carbon Black
- ☐ Airborn Oil Mist
- Radon Testing: Call for Kit and COC

Other Test (please specify)

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Method of Shipment: UPS		Sample Condition Upon Receipt:	
Relinquished by: Erik Johnson	Date/Time: 2/17/26 1200	Received by:	Date/Time: 2/19/26 1003 UPS
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - COC-17 One Chain EMSL R5 2/26/2021

☒ **AGREE TO ELECTRONIC SIGNATURE** (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical.

EMSL Chain of Custody - One Chain

EMSL Order Number / Lab Use Only

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Analytical, Inc.

Tampa, FL 33634
PHONE: (813) 280-8752
EMAIL: tampalab@emsl.com

Additio nly necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Sample Number	Sample Location / Description	Volume, Area or Homogeneous Area	Date / Time Sampled (Air Monitoring Only)
650325-4	Dark Gray Paint - Beams + Rails	—	—
650325-5	Lt. Gray Paint - Beams	—	—

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by:	Date/Time
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - COC-17 One Chain EMSL R5 2/26/2021

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