

DELAWARE COUNTY, INDIANA
CULVERT INSPECTION & REPORT

SEPTEMBER 21, 2007

-- FINAL REPORT --



*PREPARED FOR :
DELAWARE COUNTY
BOARD OF
COMMISSIONERS*



BY:

*RUMSCHLAG
TECHNICAL
SERVICES*

*BROWNSBURG
INDIANA*



SMALL BRIDGE INSPECTION REPORT

DELAWARE COUNTY, INDIANA
September 21, 2007

Submitted to:

BOARD OF COMMISSIONERS Delaware County, Indiana

DELAWARE COUNTY BOARD of COMMISSIONERS

Tom L. Bennington	Commissioner
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PREPARED by:

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date: _____

Delaware County, IN – Small Bridge Inspection, 2007

INTRODUCTION

The purpose of this project is to inspect, rate, and provide a summary of the condition of 72 small bridges within jurisdiction of the Delaware County Highway Department. These 72 small bridges were selected by the County Engineering staff based on known or suspected problems.

The purpose of this report is to assist the County in planning and prioritizing the most economical bridge maintenance, repairs, and replacements. A secondary purpose is to enhance the safety of Delaware County Roads.

The inspections, ratings and this report are based on a “walkover” inspection conducted by Rumschlag Technical Services. A walkover inspection includes a close visual examination of all parts of the structure that can be easily accessed by walking around the structure. There were no tests performed on the structures to determine the strength of the material or to determine the amount of reinforcement in the concrete. The supporting members’ dimensions were measured to the best of the inspector’s abilities, and the analysis was performed accordingly.

The inspections were performed and the report was written in accordance with the following publications:

Manual for Condition Evaluation of Bridges, AASHTO

Roadside Design Guide, AASHTO

Manual on Uniform Traffic Control Devices, AASHTO

Guidelines for Geometric Design of Very Low-Volume Roads, AASHTO

WEB-GIS, Online Watershed Delineation, Purdue Agricultural & Biological Engineering

Delaware County, IN – Small Bridge Inspection, 2007

TRAFFIC AND SAFETY ISSUES

Review of various highway safety related documents reveals the following concerning traffic safety on low volume roads:

- *“At locations where a clear recovery area of 6 ft or more in width can be provided at low cost and with minimum social/environmental impacts, provision of such a clear recovery area should be considered”*, AASHTO, Geometric Design of Very Low-Volume Local Roads, pg. 48.
- *“roadside clear zones provide very little benefit, and that traffic barriers are not generally cost-effective on roads with very low traffic volumes”*, AASHTO, Geometric Design of Very Low-Volume Local Roads, pg. 48.
- Figure 3.1 of AASHTO’s Roadside Design Guide calls for a clear zone of 2 meter (6 ft) for low-volume roads (less than 750 ADT).

Traffic data has not been collected for Delaware County Roads as of the date of this report. It has been presumed, for the purposes of this report and its recommendations, that all Delaware County roads have an Average Daily Traffic of less than 400 vehicles per day.

The placement of traffic safety features is always subject to engineering judgment.

The placement of traffic safety features is also subject to budget restrictions and to cost/benefit analysis, which is beyond the scope of this report.

Certain culverts have been recommended for posting as “One Lane Bridge”. This posting is generally required when the bridge roadway width is less than 18.0 feet. See page 5C-4 of M.U.T.C.D.

Delaware County Culvert No. 0012



**Looking
East**



**Looking
Northeast**



**Looking
Southwest**

Delaware County Culvert No. 0026



**Looking
West**



**Looking
Southeast**



Looking Northwest



Scour under Foundation

Delaware County Culvert No. 0095



Looking North



Looking East



Bottom of Deck



Inside - Looking East

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 95

IDENTIFICATION

Road Name: 550 East	Township: NILES
Location: 700' NORTH OF EATON-ALBANY PIKE	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 80	Drain Area (acres): 963
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 11.5 / 7.0
Skew (deg): 0	Approx Cover (ft): 1.0
Culvert Length (ft): 32.0	Roadway Width (ft): 17.0
No of Spans/Barrels: 1	Wearing Surface: Bituminous

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Poor, heavy spalling
Superstructure: Reinforced Concrete Slab	Poor, heavy spalling & rust.
Substructure: Concrete	Poor, settled south
Channel: Natural	Good
Headwall: Concrete	Poor, failed
Culvert: n.a.	n.a.
Road: Bituminous	Good
Rail: Steel M-shaped	Poor
Load Rating: 05 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Post "5 Ton Weight Limit"	1	\$60
Safety-GR:		
Replace: Replace structure	2	\$48,600
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/18/2007
Est Remain Life (yr): 1	
Remarks: Recommend 6 month reinspection.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 0173



**Looking
East**



**Looking
North**



**Looking
South**

Delaware County Culvert No. 0185



**Looking
South**



**West
End**



**East
End**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 185

IDENTIFICATION

Road Name: Woodside Road	Township: DELAWARE
Location: EAST OF SR 67	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 37	Drain Area (acres): 660
Structure Type: Al Box Culvert	Span / Height (ft): 12.0 / 3.5
Skew (deg): 0	Approx Cover (ft): 2.5
Culvert Length (ft): 40.0	Roadway Width (ft): 20.0
No of Spans/Barrels: 1	Wearing Surface: Bituminous

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: n.a.	n.a.
Superstructure: n.a.	n.a.
Substructure: n.a.	n.a.
Channel: Natural	Meandering
Headwall: None	n.a.
Culvert: Al Box Culvert	Good. Bottom silted in.
Road: Bituminous	Good
Rail: Steel M-shaped, east	Good
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2's	3.7	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 7/3/2007
Est Remain Life (yr): 40	
Remarks: Structure may have been set too low.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 0267



**Looking
East**



**Looking
North**



**Looking
South**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 267

IDENTIFICATION

Road Name: 400 North Township: DELAWARE
Location: 4100' EAST OF CR 500 E ADT:
Stream Name: Year of ADT: 0
Road Classif: Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 80 Drain Area (acres): 67
Structure Type: Reinforced Concrete Slab Span / Height (ft): 16.0 / 5.0
Skew (deg): 0 Approx Cover (ft): 1.0
Culvert Length (ft): 19.5 Roadway Width (ft): 14.0
No of Spans/Barrels: 1 Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete Good
Superstructure: Reinforced Concrete Slab Good
Substructure: Concrete Good
Channel: Natural Good
Headwall: Concrete Good
Culvert: n.a. n.a.
Road: Chip & Seal Good
Rail: Concrete Good, low
Load Rating: 20 Ton

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Post "1 Lane", Add OM3's	2	\$168
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR Inspection Date: 7/3/2007
Est Remain Life (yr): 40
Remarks: 17'7" between concrete rails.

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 0288



**Looking
East**



**Looking
North**



**Looking
South**

Delaware County Culvert No. 0326



**Looking
East**



**Looking
North**



**Looking
South**

Delaware County Culvert No. 0329



**Looking
East**



**Looking
North**



**Looking
South**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 329

IDENTIFICATION

Road Name: 900 North
Location: 1300' EAST OF WALNUT ST
Stream Name:
Road Classif:

Township: UNION
ADT:
Year of ADT: 0
Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 12
Structure Type: Reinforced Concrete Slab
Skew (deg): 0
Culvert Length (ft): 20.0
No of Spans/Barrels: 1

Drain Area (acres): 345
Span / Height (ft): 12.0 / 1.0
Approx Cover (ft): 0.5
Roadway Width (ft): 15.0
Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete
Superstructure: Reinforced Concrete Slab
Substructure: Concrete
Channel: Natural
Headwall: Concrete
Culvert: n.a.
Road: Chip & Seal
Rail: None
Load Rating: 20 Ton

Good
Good, light spalling
Good
Good
Light spalling
n.a.
Good
n.a.

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR
Est Remain Life (yr): 30
Remarks: OM2s in place.

Inspection Date: 6/19/2007

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 0440



**Looking
West**



**Looking
North**



Looking South



Bottom

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 440

IDENTIFICATION

Road Name: 950 North	Township: WASHINGTON
Location: 600' WEST OF CR 925 W	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 8	Drain Area (acres):
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 8.0 / 1.0
Skew (deg): 0	Approx Cover (ft): 0.7
Culvert Length (ft): 20.0	Roadway Width (ft): 14.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Poor, heavily spalled
Superstructure: Reinforced Concrete Slab	Poor, heavy spalling & corrosion
Substructure: Concrete	Poor, road is sinking
Channel: None	n.a.
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Rough
Rail: None	n.a.
Load Rating: 10 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Add OM2's	3.2	\$38
Safety-GR:		
Replace: Replace with pipe structure	2	\$3,000
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 6/27/2007

Est Remain Life (yr): 2

Remarks: Do not post weight limit. Low underclearance yields minor deflection at failure.

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 0452



**Looking
West**



**Looking
South**



**Looking
North**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 452

IDENTIFICATION

Road Name: 850 North	Township: WASHINGTON
Location: 850' EAST OF CR 500 W	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 16	Drain Area (acres): 489
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 8.0 / 2.0
Skew (deg): 0	Approx Cover (ft): 0.7
Culvert Length (ft): 30.0	Roadway Width (ft): 20.0
No of Spans/Barrels: 1	Wearing Surface: Bituminous

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Good
Superstructure: Reinforced Concrete Slab	Good
Substructure: Concrete	Good
Channel: None	n.a.
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Bituminous	Fair, cracks
Rail: None	n.a.
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Reset SE OM3	3.3	\$28
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/26/2007
Est Remain Life (yr): 30	
Remarks: OM3's in place.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 0587



**Looking
East**



**Looking
South**



**Looking
North**

Delaware County Culvert No. 0590



**Looking
South**



**Looking
West**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 590

IDENTIFICATION

Road Name: 700 West	Township: HARRISON
Location: 900' SOUTH OF BETHEL AVENUE	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 18	Drain Area (acres): 29
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 12.0 / 1.5
Skew (deg): 0	Approx Cover (ft): 1.0
Culvert Length (ft): 22.0	Roadway Width (ft): 15.0
No of Spans/Barrels: 1	Wearing Surface: Cold Mix

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Fair, moderate to light spalling
Superstructure: Reinforced Concrete Slab	Fair, moderate to light spalling.
Substructure: Concrete	Good
Channel: Grass	Good
Headwall: Concrete	Spalled, leaning
Culvert: n.a.	n.a.
Road: Cold Mix	Fair
Rail: Concrete	Leaning, east
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 6/26/2007

Est Remain Life (yr): 15

Remarks: Vegetation obstructs OM3's. OM3's in place.

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 0607



**Looking
East**



**North
End**



**South
End**

Delaware County Culvert No. 0608



**Looking
East**



**Looking
North**



**Looking
South**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 608

IDENTIFICATION

Road Name: 350 North	Township: DELAWARE
Location: 250' EAST OF CR 500 E	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 44	Drain Area (acres): 242
Structure Type: Al Box Culvert	Span / Height (ft): 13.5 / 3.7
Skew (deg): 10	Approx Cover (ft): 2.0
Culvert Length (ft): 37.0	Roadway Width (ft): 19.0
No of Spans/Barrels: 1	Wearing Surface: Bituminous

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: n.a.	n.a.
Superstructure: n.a.	n.a.
Substructure: n.a.	n.a.
Channel: Grass	Good
Headwall: None	n.a.
Culvert: Al Box Culvert	Good. Minor voids beneath.
Road: Bituminous	Good
Rail: None	n.a.
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR	Inspection Date: 7/3/2007
Est Remain Life (yr): 40	
Remarks: OM3s in place.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 0677



**Looking
West**



**South
End**



Looking South



Inside – Looking South

Delaware County Culvert No. 0738



**Looking
North**



**Looking
West**



**Looking
East**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 738

IDENTIFICATION

Road Name: Northwod Drive	Township: LIBERTY
Location: 800' NORTH OF JACKSON ST	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 33	Drain Area (acres): 89
Structure Type: Al Box Culvert	Span / Height (ft): 13.0 / 2.5
Skew (deg): 0	Approx Cover (ft): 1.5
Culvert Length (ft): 36.0	Roadway Width (ft): 21.0
No of Spans/Barrels: 1	Wearing Surface: Bituminous

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: n.a.	n.a.
Superstructure: n.a.	n.a.
Substructure: n.a.	n.a.
Channel: None	n.a.
Headwall: None	n.a.
Culvert: Al Box Culvert, Al feet	Good, sag along length
Road: Bituminous	Good
Rail: None	n.a.
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Add OM2's	3.7	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 7/2/2007
Est Remain Life (yr): 50	
Remarks: Minor scour below north foot.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 0770



**Looking
East**



**Looking
North**



**Looking
South**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 770

IDENTIFICATION

Road Name: 50 South Township: LIBERTY
Location: 400' EAST OF ALBANY ST/625 E ADT:
Stream Name: Year of ADT: 0
Road Classif: Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 50 Drain Area (acres): 85
Structure Type: Reinforced Concrete Box Span / Height (ft): 10.0 / 5.0
Skew (deg): 0 Approx Cover (ft): 2.5
Culvert Length (ft): 43.0 Roadway Width (ft): 18.0
No of Spans/Barrels: 1 Wearing Surface: Bituminous

CONDITION

MATERIAL

CONDITION

Deck: n.a. n.a.
Superstructure: n.a. n.a.
Substructure: n.a. n.a.
Channel: Grass Good
Headwall: None n.a.
Culvert: Reinforced Concrete Box Good
Road: Bituminous Good
Rail: Steel M-shaped Good, rusted
Load Rating: 20 Ton

PROPOSED IMPROVEMENTS

Description

Priority Cost

Bank/Stream:
Safety-Signs:
Safety-GR:
Replace:
Road/Shld:
Other:

MISC INFORMATION

Inspected by: LJR Inspection Date: 7/2/2007
Est Remain Life (yr): 50
Remarks: OM2s in place.

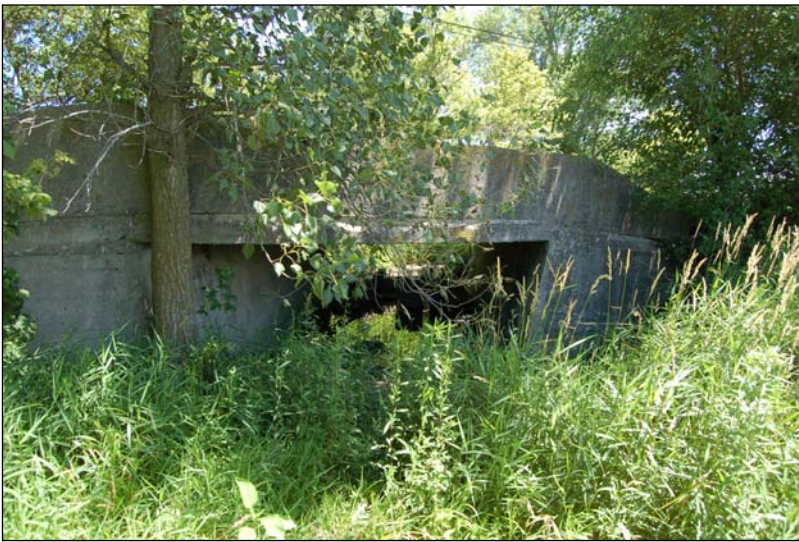
Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 0844



**Looking
North**



**Looking
Southeast**



Looking Southeast



Looking Northwest

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 844

IDENTIFICATION

Road Name: 900 East	Township: LIBERTY
Location: 700' SOUTH OF WINDSOR RD	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 106	Drain Area (acres): 76
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 15.2 / 7.0
Skew (deg): 45	Approx Cover (ft): 0.5
Culvert Length (ft): 28.0	Roadway Width (ft): 13.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Good
Superstructure: Reinforced Concrete Slab	Good, minor flexural cracks
Substructure: Concrete	Good
Channel: Natural / concrete	Good
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Narrow, cracked
Rail: Concrete	Good
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2's	3.5	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR	Inspection Date: 7/2/2007
Est Remain Life (yr): 40	
Remarks:	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 0849



**Looking
East**



**Looking
North**



**Looking
South**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 849

IDENTIFICATION

Road Name: Whitney Road	Township: LIBERTY
Location: 1000' NORTH OF INLOW SPRINGS RD	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 66	Drain Area (acres): 834
Structure Type: Al Box Culvert	Span / Height (ft): 12.0 / 6.2
Skew (deg): 45	Approx Cover (ft): 2.5
Culvert Length (ft): 60.0	Roadway Width (ft): 18.5
No of Spans/Barrels: 1	Wearing Surface: Bituminous

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: n.a.	n.a.
Superstructure: n.a.	n.a.
Substructure: n.a.	n.a.
Channel: Natural	Good
Headwall: None	n.a.
Culvert: Al Box Culvert	Good
Road: Bituminous	Good
Rail: Steel M-shaped	Damaged north
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Remove 15 Ton weight limit	3	\$0
Safety-GR: Repair north guard rail	4.1	\$360
Replace:		
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/2/2007
Est Remain Life (yr): 50
Remarks: Posted 15 Ton. OM3's in place.

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 0865



**Looking
West**



**Looking
South**



West Abutment



Looking North

Delaware County Culvert No. 0947



**Looking
West**



Looking North



South Coping



Typical Beam



Typical Beam

Delaware County Culvert No. 0960



**Looking
North**



**Looking
West**



**Looking
East**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 960

IDENTIFICATION

Road Name: 188 East	Township: MONROE
Location: 400' NORTH OF CR 525 S	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 80	Drain Area (acres): 1077
Structure Type: Multi-Plate Box Culvert	Span / Height (ft): 17.9 / 5.5
Skew (deg): 0	Approx Cover (ft): 2.0
Culvert Length (ft): 60.0	Roadway Width (ft): 17.5
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: n.a.	n.a.
Superstructure: n.a.	n.a.
Substructure: n.a.	n.a.
Channel: Natural	Good
Headwall: None	n.a.
Culvert: Multi-Plate Box Culvert	Good, slight sag in crown
Road: Chip & Seal	Good
Rail: Steel M-shaped	Good
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/26/2007
Est Remain Life (yr): 30	
Remarks: OM2s in place.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 0978



**Looking
North**



**Looking
West**



**Looking
East**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 978

IDENTIFICATION

Road Name: 300 West Township: SALEM/MONROE
Location: 2600' SOUTH OF CR 500 S ADT:
Stream Name: Year of ADT: 0
Road Classif: Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 48 Drain Area (acres): 458
Structure Type: Al Box Culvert Span / Height (ft): 11.7 / 4.6
Skew (deg): 45 Approx Cover (ft): 2.0
Culvert Length (ft): 40.0 Roadway Width (ft): 19.0
No of Spans/Barrels: 1 Wearing Surface: Bituminous

CONDITION

MATERIAL

CONDITION

Deck: n.a. n.a.
Superstructure: n.a. n.a.
Substructure: n.a. n.a.
Channel: Natural Good
Headwall: None n.a.
Culvert: Al Box Culvert Good
Road: Bituminous Good
Rail: Steel M-shaped Damaged NW, inadequate posts
Load Rating: 20 Ton

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Add OM3's	3.1	\$112
Safety-GR: Repair damaged rail	4.1	\$180
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR Inspection Date: 6/20/2007
Est Remain Life (yr): 50
Remarks:

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 1026



**Looking
West**



**Looking
North**



**Bottom
of Deck**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1026

IDENTIFICATION

Road Name: 700 South	Township: MONROE
Location: 1100' WEST OF SR 3	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 35	Drain Area (acres): 74
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 10.0 / 3.5
Skew (deg): 0	Approx Cover (ft): 1.0
Culvert Length (ft): 27.0	Roadway Width (ft): 16.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Fair, moderate to heavy spalling
Superstructure: Reinforced Concrete Slab	Fair, moderate to heavy spalling & rust.
Substructure: Concrete	Fair, moderate cracks
Channel: None	n.a.
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Fair, rough
Rail: Concrete	Good
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace: Replace structure	3	\$27,500
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 6/26/2007
Est Remain Life (yr): 5
Remarks: OM3's in place. Brush obstructs OM3's.

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 1034



**Looking
West**



**North
End**



**South
End**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1034

IDENTIFICATION

Road Name: 700 South Township: MONROE
Location: 600' WEST OF CR 200 W ADT:
Stream Name: Year of ADT: 0
Road Classif: Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 23 Drain Area (acres): 374
Structure Type: Steel Beam, Encased Span / Height (ft): 7.7 / 3.0
Skew (deg): 0 Approx Cover (ft): 0.5
Culvert Length (ft): 24.0 Roadway Width (ft): 16.0
No of Spans/Barrels: 1 Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Good
Superstructure: Steel Beam, Encased	Good, light rust
Substructure: Concrete	Good
Channel: Grass	Good
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Good
Rail: Concrete	Good
Load Rating: 16 Ton	

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:
Safety-Signs:
Safety-GR:
Replace:
Road/Shld:
Other:

MISC INFORMATION

Inspected by: LJR Inspection Date: 6/20/2007
Est Remain Life (yr): 25
Remarks: OM3's in place.

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 1113



**Looking
North**



**Looking
East**



Looking West



NE Abutment

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1113

IDENTIFICATION

Road Name: 950 West	Township: HARRISON
Location: 1500' SOUTH OF CR 300 N	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 68	Drain Area (acres): 491
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 12.3 / 5.5
Skew (deg): 45	Approx Cover (ft): 0.5
Culvert Length (ft): 30.0	Roadway Width (ft): 13.0
No of Spans/Barrels: 1	Wearing Surface: Bituminous

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Reinforced Concrete Slab	Good
Superstructure: Reinforced Concrete Slab	Good
Substructure: Concrete	Fair, cracked, minor movement
Channel: Natural	Good
Headwall: Concrete	Moderate spalling
Culvert: n.a.	n.a.
Road: Bituminous	Good
Rail: Concrete	Good
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Add NW OM3	3.9	\$28
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/26/2007
Est Remain Life (yr): 20	
Remarks: SE OM3 in place.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No.



Looking North



Looking West



Looking East

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1223

IDENTIFICATION

Road Name: 600 East
Location: 850' SOUTH OF CR 1300 N
Stream Name:
Road Classif:

Township: NILES
ADT:
Year of ADT: 0
Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 20
Structure Type: Reinforced Concrete Slab
Skew (deg): 0
Culvert Length (ft): 25.0
No of Spans/Barrels: 1

Drain Area (acres):
Span / Height (ft): 8.2 / 2.5
Approx Cover (ft): 0.5
Roadway Width (ft): 16.0
Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete
Superstructure: Reinforced Concrete Slab
Substructure: Concrete
Channel: Natural
Headwall: Concrete
Culvert: n.a.
Road: Chip & Seal
Rail: Concrete
Load Rating: 20 Ton

Good
Good, minor spalling
Good, minor cracks
Good
Good
n.a.
Good
Good

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR
Est Remain Life (yr): 30
Remarks: OM2s in place.

Inspection Date: 6/19/2007

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 1227



**Looking
North**



**Looking
East**



**Looking
West**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1227

IDENTIFICATION

Road Name: Boundary Road Township: NILES
Location: 2700' NORTH OF CR 1200 N ADT:
Stream Name: Year of ADT: 0
Road Classif: Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 30 Drain Area (acres): 295
Structure Type: Steel Beam, Encased Span / Height (ft): 7.5 / 4.0
Skew (deg): 45 Approx Cover (ft): 0.2
Culvert Length (ft): 24.0 Roadway Width (ft): 12.5
No of Spans/Barrels: 1 Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete Good
Superstructure: Steel Beam, Encased Light rust
Substructure: Concrete Good
Channel: Grass Good
Headwall: Concrete Good
Culvert: n.a. n.a.
Road: Chip & Seal Fair
Rail: Concrete Good
Load Rating: 20 Ton

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2's	3.4	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR Inspection Date: 6/18/2007
Est Remain Life (yr): 30
Remarks:

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 1235



**Looking
East**



**Looking
North**



**Looking
South**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1235

IDENTIFICATION

Road Name: 1200 North	Township: NILES
Location: EAST OF CR 800 E	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 40	Drain Area (acres): 312
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 8.0 / 5.0
Skew (deg): 0	Approx Cover (ft): 0.5
Culvert Length (ft): 26.0	Roadway Width (ft): 19.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Good
Superstructure: Reinforced Concrete Slab	Good, light spalling, heavy at edges
Substructure: Concrete	Good, minor cracks
Channel: Grass	Good
Headwall: Concrete	Fair, spalled & cracked
Culvert: n.a.	n.a.
Road: Chip & Seal	Good
Rail: None	n.a.
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/19/2007
Est Remain Life (yr): 20	
Remarks: OM2s in place.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1239



**Looking
East**



**Looking
North**



**Looking
South**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1239

IDENTIFICATION

Road Name: 1200 North	Township: NILES
Location: 300' EAST OF CR 700 E	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 20	Drain Area (acres):
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 8.1 / 2.5
Skew (deg): 0	Approx Cover (ft): 0.5
Culvert Length (ft): 27.0	Roadway Width (ft): 19.5
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Good
Superstructure: Reinforced Concrete Slab	Good, minor spalling
Substructure: Concrete	Good, minor cracks
Channel: Natural	Good
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Good
Rail: Concrete	Good
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR Inspection Date: 6/19/2007
Est Remain Life (yr): 20
Remarks: OM3's in place.

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 1240



**Looking
North**



**Looking
West**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1240

IDENTIFICATION

Road Name: 600 East	Township: NILES
Location: 2000' SOUTH OF CR 1300 N	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 29	Drain Area (acres): 269
Structure Type: Steel Beam, Encased	Span / Height (ft): 9.6 / 3.0
Skew (deg): 0	Approx Cover (ft): 0.3
Culvert Length (ft): 24.0	Roadway Width (ft): 15.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Good
Superstructure: Steel Beam, Encased	Good, light rust
Substructure: Concrete	Good, minor cracks
Channel: Natural	Good
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Good
Rail: Steel Tube	Good
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/19/2007
Est Remain Life (yr): 30	
Remarks: OM2s in place.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1257



**Looking
West**



**Looking
South**



**Looking
North**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1257

IDENTIFICATION

Road Name: 1200 North	Township: UNION
Location: 1900' EAST OF CR 200 E	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 29	Drain Area (acres): 59
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 8.3 / 3.5
Skew (deg): 0	Approx Cover (ft): 0.4
Culvert Length (ft): 24.0	Roadway Width (ft): 17.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal / Bituminous

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Good
Superstructure: Reinforced Concrete Slab	Good, light rust
Substructure: Concrete	Fair, moderate cracks
Channel: Natural	Good
Headwall: Concrete	Cracked & spalled
Culvert: n.a.	n.a.
Road: Chip & Seal / Bituminous	Good
Rail: Steel Tube	Concrete posts cracked & broken
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/19/2007
Est Remain Life (yr): 30	
Remarks: OM3's in place.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1273



**Looking
North**



**Looking
East**



**Looking
West**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1273

IDENTIFICATION

Road Name: 350 East	Township: NILES
Location: 1300' SOUTH OF CR 1200 N	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 20	Drain Area (acres): 58
Structure Type: Steel Beam, Encased	Span / Height (ft): 8.0 / 2.5
Skew (deg): 0	Approx Cover (ft): 0.3
Culvert Length (ft): 24.0	Roadway Width (ft): 13.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Light spalling, effluorescence.
Superstructure: Steel Beam, Encased	Moderate corrosion, heavy in spots.
Substructure: Concrete	Minor cracks
Channel: Natural	Good
Headwall: Concrete	Spalled
Culvert: n.a.	n.a.
Road: Chip & Seal	Fair, rough
Rail: Steel Tube	Good
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2's	3.8	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/18/2007
Est Remain Life (yr): 20	
Remarks:	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1275



**Looking
South**



Bottom



Bottom



**East
Railing**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1275

IDENTIFICATION

Road Name: 800 East	Township: NILES
Location: 2200' SOUTH OF CR 1200 N	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 59	Drain Area (acres): 240
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 17.0 / 3.5
Skew (deg): 50	Approx Cover (ft): 1.0
Culvert Length (ft): 43.0	Roadway Width (ft): 15.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Critical - sagging
Superstructure: Reinforced Concrete Slab	Critical, near failure
Substructure: Concrete	Poor, spalled south
Channel: Natural	Good
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Fair
Rail: Concrete	Failing
Load Rating: 00 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace: Replace structure	1	\$32,900
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 6/18/2007

Est Remain Life (yr): 0

Remarks: Should be closed immediately. 10' on west side is steel beam, encased in good condition.

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1277



**Looking
North**



**Looking
Northwest**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1277

IDENTIFICATION

Road Name: 800 East	Township: NILES
Location: 2800' SOUTH OF CR 1200 N	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 52	Drain Area (acres): 230
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 17.5 / 3.0
Skew (deg): 60	Approx Cover (ft): 0.9
Culvert Length (ft): 44.0	Roadway Width (ft): 15.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Fair, moderate spalling
Superstructure: Reinforced Concrete Slab	Fair, moderate spalling, exposed steel
Substructure: Concrete	Fair, light spalling southwest
Channel: Grass	Good
Headwall: Concrete	Cracked & separated west
Culvert: n.a.	n.a.
Road: Chip & Seal	Fair, rough
Rail: Concrete	Good
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Reset SE OM3.	3.8	\$28
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR	Inspection Date: 7/2/2007
Est Remain Life (yr): 15	
Remarks:	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1308



**Looking
North**



**Looking
East**



**Looking
West**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1308

IDENTIFICATION

Road Name: 350 East	Township: NILES
Location: 2700' NORTH OF EATON-ALBANY PIKE	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 30	Drain Area (acres):
Structure Type: Steel Beam, Encased	Span / Height (ft): 10.0 / 3.0
Skew (deg): 50	Approx Cover (ft): 0.5
Culvert Length (ft): 37.0	Roadway Width (ft): 14.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Good
Superstructure: Steel Beam, Encased	Fair, light rust
Substructure: Concrete	Minor cracks
Channel: Natural	Good
Headwall: Concrete	Spalled & failed
Culvert: n.a.	n.a.
Road: Chip & Seal	Rough
Rail: Concrete	Failed & leaning east
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Replace northbound OM2.	3.8	\$19
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/18/2007
Est Remain Life (yr): 20	
Remarks: One OM2 in place.	

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 1313



**Looking
East**



**Looking
South**



**Looking
South**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1313

IDENTIFICATION

Road Name: 1000 North	Township: NILES
Location: 850' EAST OF SR 167	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 38	Drain Area (acres): 402
Structure Type: Steel Beam, Encased	Span / Height (ft): 9.5 / 4.0
Skew (deg): 0	Approx Cover (ft): .5
Culvert Length (ft): 24.0	Roadway Width (ft): 16.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

MATERIAL	CONDITION
Deck: Reinforced Concrete	Good
Superstructure: Steel Beam, Encased	Light rust
Substructure: Concrete	Good
Channel: Concrete Liner	Good
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Good
Rail: Steel Tube	Concrete posts cracked
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

Description	Priority	Cost
Bank/Stream:		
Safety-Signs: Place OM3's: SE, NE, NW	3.4	\$84
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/18/2007
Est Remain Life (yr): 25	
Remarks:	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1317



**Looking
East**



**Looking
North**



**Looking
South**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1317

IDENTIFICATION

Road Name: 1000 North	Township: NILES
Location: 650' EAST OF CR 800 EAST	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 18	Drain Area (acres): 308
Structure Type: Stone Arch	Span / Height (ft): 6.5 / 3.0
Skew (deg): 0	Approx Cover (ft): 1.5
Culvert Length (ft): 27.0	Roadway Width (ft): 17.5
No of Spans/Barrels: 1	Wearing Surface: Bituminous

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: n.a.	n.a.
Superstructure: Stone Arch	Good
Substructure: Unknown	Unknown
Channel: None	n.a.
Headwall: None	n.a.
Culvert: n.a.	n.a.
Road: Bituminous	Good
Rail: Steel Tube	Good
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place SW OM3	3.7	\$28
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR Inspection Date: 6/18/2007
 Est Remain Life (yr): 30
 Remarks: Stone arch widened with concrete box.

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1326



**Looking
North**



**Looking
West**



**Looking
East**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1326

IDENTIFICATION

Road Name: 450 East **Township:** NILES
Location: 2100' NORTH OF EATON-ALBANY PIKE **ADT:**
Stream Name: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 28 **Drain Area (acres):** 183
Structure Type: Steel Beam, Encased **Span / Height (ft):** 8.0 / 3.5
Skew (deg): 0 **Approx Cover (ft):** 0.7
Culvert Length (ft): 24.0 **Roadway Width (ft):** 14.5
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Good
Superstructure: Steel Beam, Encased	Good, moderate rust in spots
Substructure: Concrete	Good, moderate cracks
Channel: Concrete Liner	Good
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Good
Rail: Steel Tube	Good
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2's	3.5	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 6/18/2007
Est Remain Life (yr): 25
Remarks:

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 1340



**Looking
East**



**Looking
North**



**East Abutment –
North Half Settled,
South Half Undermined.**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1340

IDENTIFICATION

Road Name: 400 South Township: PERRY
Location: 400' EAST OF CR 575 E ADT:
Stream Name: Year of ADT: 0
Road Classif: Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 90 Drain Area (acres): 168
Structure Type: Reinforced Concrete Slab Span / Height (ft): 18.1 / 5.0
Skew (deg): 0 Approx Cover (ft): 1.0
Culvert Length (ft): 22.0 Roadway Width (ft): 15.0
No of Spans/Barrels: 1 Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete Good
Superstructure: Reinforced Concrete Slab Good, tilting at east end
Substructure: Concrete Poor, settled 4" NE, undermined SE
Channel: Natural Good
Headwall: Concrete Cracked & separated southeast
Culvert: n.a. n.a.
Road: Chip & Seal Good
Rail: Concrete Good
Load Rating: 20 Ton

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream: Underpin both abutments	3	\$5,400
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR Inspection Date: 6/20/2007
Est Remain Life (yr): 5
Remarks: East abutment has partial failure at north end, south half is undermined.
OM3's in place.

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 1404



**Looking
South**



**Looking
East**



**Looking
West**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1404

IDENTIFICATION

Road Name: 461 East Township: PERRY
Location: 250' SOUTH OF CR 550 S ADT:
Stream Name: Year of ADT: 0
Road Classif: Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 98 Drain Area (acres): 344
Structure Type: Al Box Culvert Span / Height (ft): 16.5 / 6.6
Skew (deg): 0 Approx Cover (ft): 1.5
Culvert Length (ft): 40.0 Roadway Width (ft): 19.0
No of Spans/Barrels: 1 Wearing Surface: Bituminous

CONDITION

MATERIAL

CONDITION

Deck:	n.a.	n.a.
Superstructure:	n.a.	n.a.
Substructure:	n.a.	n.a.
Channel:	Natural	Meandering, overgrown
Headwall:	None	n.a.
Culvert:	Al Box Culvert	Good
Road:	Bituminous	Good
Rail:	Steel M-shaped	Good, inadequate post spacing
Load Rating:	20 Ton	

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:
Safety-Signs:
Safety-GR:
Replace:
Road/Shld:
Other:

MISC INFORMATION

Inspected by: LJR Inspection Date: 6/20/2007
Est Remain Life (yr): 50
Remarks: OM2s in place.

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 1413



**Looking
East**



Looking South



West Abutment



Northeast Abutment



South End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1413

IDENTIFICATION

Road Name: 600 South	Township: PERRY
Location: 200' WEST of 875 EAST	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 49	Drain Area (acres): 268
Structure Type: Steel Beam, Encased	Span / Height (ft): 7.0 / 7.0
Skew (deg): 0	Approx Cover (ft): .5
Culvert Length (ft): 23.0	Roadway Width (ft): 15.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Fair, moderate spalling
Superstructure: Steel Beam, Encased	Fair, light to moderate rust
Substructure: Concrete	Critical, heavy scour & spall
Channel: Natural	Poor, upstream fence blocks flow
Headwall: Concrete	Poor, spalled
Culvert: n.a.	n.a.
Road: Chip & Seal	Fair, rough
Rail: None	n.a.
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream: Underpin abutments	2	\$10,019
Safety-Signs: Add OM2's	3.5	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 7/3/2007
Est Remain Life (yr): 2	
Remarks:	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1434



**Looking
East**



**Looking
North**



Typical Beam



Looking South

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1434

IDENTIFICATION

Road Name: 650 South Township: PERRY
Location: 1400' WEST OF CR 461 E ADT:
Stream Name: Year of ADT: 0
Road Classif: Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 95 Drain Area (acres): 612
Structure Type: Steel Beam, Encased Span / Height (ft): 14.7 / 6.5
Skew (deg): 10 Approx Cover (ft): 2.0
Culvert Length (ft): 24.0 Roadway Width (ft): 17.0
No of Spans/Barrels: 1 Wearing Surface: Bituminous

CONDITION

MATERIAL

CONDITION

Deck: Concrete Moderate to heavy spalling
Superstructure: Steel Beam, Encased Poor, heavy to moderate corrosion, some holes
Substructure: Concrete Good
Channel: Natural Overgrown, straight
Headwall: Concrete Cracked & leaning
Culvert: n.a. n.a.
Road: Bituminous Good
Rail: Steel M-shaped Good
Load Rating: 11 Ton

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Post "11 Ton Weight Limit". Place OM3, NE.	1	\$88
Safety-GR:		
Replace: Replace structure	2	\$59,300
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR Inspection Date: 6/20/2007
Est Remain Life (yr): 3
Remarks: Recommend 12 month reinspection.

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 1479



**Looking
South**



**Looking
East**



**Looking
West**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1479

IDENTIFICATION

Road Name: 400 East	Township: PERRY
Location: 850' SOUTH OF CR 740 S	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 48	Drain Area (acres): 154
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 16.0 / 3.0
Skew (deg): 0	Approx Cover (ft): 1.0
Culvert Length (ft): 24.0	Roadway Width (ft): 16.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Good
Superstructure: Reinforced Concrete Slab	Good, light spalling & rust
Substructure: Concrete	Good
Channel: Natural	Good
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Rough
Rail: Concrete	Good
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2's	3.4	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/20/2007
Est Remain Life (yr): 30	
Remarks:	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1555



**Looking
North**



**Looking
East**



**Looking
West**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1555

IDENTIFICATION

Road Name: Honeycreek Road	Township: SALEM
Location: 500' NORTH OF CR 700 S	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 87	Drain Area (acres): 1577
Structure Type: Multi-Plate Box Culvert	Span / Height (ft): 18.0 / 6.0
Skew (deg): 0	Approx Cover (ft): 2.0
Culvert Length (ft): 75.0	Roadway Width (ft): 17.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: n.a.	n.a.
Superstructure: n.a.	n.a.
Substructure: n.a.	n.a.
Channel: Natural	Good
Headwall: None	n.a.
Culvert: Multi-Plate Box Culvert	Good, light rust at flowline
Road: Chip & Seal	Rough
Rail: Steel M-shaped	Good
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 6/20/2007
Est Remain Life (yr): 40
Remarks: OM3's in place.

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 1559



**Looking
East**



**Looking
North**



Bottom of Deck



West Abutment

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1559

IDENTIFICATION

Road Name: 700 South	Township: SALEM
Location: 1000' EAST OF HONEYCREEK RD	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 116	Drain Area (acres): 1534
Structure Type: Steel girder - unknown	Span / Height (ft): 14.5 / 8.0
Skew (deg): 0	Approx Cover (ft): 0.4
Culvert Length (ft): 25.0	Roadway Width (ft): 15.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Good
Superstructure: Steel girder - unknown	Good, light rust
Substructure: Concrete	Poor, heavy scour & spalling
Channel: Natural	Good
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Fair
Rail: Steel M-shaped	Good, non-standard
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream: Underpin abutments	2	\$5,400
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 6/20/2007
Est Remain Life (yr): 2
Remarks: Not able to verify size or type of steel members. OM3's in place.

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1560



**Looking
North**



**Looking
West**



**Looking
East**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1560

IDENTIFICATION

Road Name: 400 West	Township: WASHINGTON
Location: 1250' NORTH OF CR 1270 N	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 16	Drain Area (acres): 215
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 8.0 / 2.0
Skew (deg): 0	Approx Cover (ft): 1.0
Culvert Length (ft): 20.0	Roadway Width (ft): 14.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Good
Superstructure: Reinforced Concrete Slab	Good
Substructure: Concrete	Good
Channel: Natural	Good
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Poor, rough
Rail: Steel M-shaped, west	Inadequate posts
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR: Replace east railing	4.5	\$270
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/27/2007
Est Remain Life (yr): 30	
Remarks: OM3's in place.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1614



**Looking
South**



**Looking
West**



**Looking
East**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1614

IDENTIFICATION

Road Name: 100 West	Township: UNION
Location: 1600' SOUTH OF CR 1200 N	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 42	Drain Area (acres): 145
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 14.0 / 3.0
Skew (deg): 45	Approx Cover (ft): 0.9
Culvert Length (ft): 30.0	Roadway Width (ft): 16.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Fair, moderate effluorescence
Superstructure: Reinforced Concrete Slab	Fair, moderate cracks, heavy spalling at edges
Substructure: Concrete	Fair, cracked, beginning to undermine
Channel: Natural	Poor, scour at both ends of bridge
Headwall: Concrete	Spalled & cracked
Culvert: n.a.	n.a.
Road: Chip & Seal	Good
Rail: Concrete	Good
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

Description	Priority	Cost
Bank/Stream:		
Safety-Signs: Place OM2's	3.4	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/19/2007
Est Remain Life (yr): 10	
Remarks: Bridge is probably undersized.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1641



**Looking
East**



**Looking
North**



**North
End**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1641

IDENTIFICATION

Road Name: Eaton-Wheeling Pike	Township: UNION
Location: 650' EAST OF WALNUT ST	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 15	Drain Area (acres): 188
Structure Type: Concrete Arch	Span / Height (ft): 6.0 / 2.5
Skew (deg): 0	Approx Cover (ft): 2.0
Culvert Length (ft): 30.0	Roadway Width (ft): 19.0
No of Spans/Barrels: 1	Wearing Surface: Bituminous

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: n.a.	n.a.
Superstructure: n.a.	n.a.
Substructure: n.a.	n.a.
Channel: Natural	Overgrown
Headwall: Concrete	Spalled
Culvert: Concrete Arch	Fair, moderate spalling
Road: Bituminous	Good
Rail: None	n.a.
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Replace SE OM3	3.5	\$28
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 6/19/2007
Est Remain Life (yr): 20
Remarks: Arch has been widened with concrete box.

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1668



**Looking
West**



**Looking
North**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1668

IDENTIFICATION

Road Name: 1000 North	Township: UNION
Location: 2100' WEST OF CR 100 W	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 56	Drain Area (acres): 72
Structure Type: Al Box Culvert	Span / Height (ft): 14.0 / 4.1
Skew (deg): 0	Approx Cover (ft): 1.5
Culvert Length (ft): 40.0	Roadway Width (ft): 17.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
-----------------	------------------

Deck: n.a.	n.a.
Superstructure: n.a.	n.a.
Substructure: n.a.	n.a.
Channel: Natural	Overgrown
Headwall: None	n.a.
Culvert: Al Box Culvert	Good, minor roof sag
Road: Chip & Seal	Good
Rail: None	n.a.
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
--------------------	-----------------	-------------

Bank/Stream:
 Safety-Signs:
 Safety-GR:
 Replace:
 Road/Shld:
 Other:

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/19/2007
Est Remain Life (yr): 40	
Remarks: OM3's in place.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1671



**Looking
West**



**Looking
South**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1671

IDENTIFICATION

Road Name: 1000 North	Township: UNION
Location: 1600' WEST OF CR 100 W	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 52	Drain Area (acres): 88
Structure Type: Al Box Culvert	Span / Height (ft): 14.5 / 4.1
Skew (deg): 0	Approx Cover (ft): 1.5
Culvert Length (ft): 40.0	Roadway Width (ft): 15.5
No of Spans/Barrels: 1	Wearing Surface: Cold Mix

CONDITION

MATERIAL

CONDITION

Deck: n.a.	n.a.
Superstructure: n.a.	n.a.
Substructure: n.a.	n.a.
Channel: Natural	Good
Headwall: None	n.a.
Culvert: Al Box Culvert	Good, minor distortion
Road: Cold Mix	Good
Rail: None	n.a.
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM3 for east bound	3.9	\$28
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/19/2007
Est Remain Life (yr): 40	
Remarks: West bound OM3 in place.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1694



**Looking
West**



**Looking
South**



Looking North



East Abutment

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1694

IDENTIFICATION

Road Name: 1200 North
Location: 500' EAST OF CR 975 W
Stream Name:
Road Classif:

Township: WASHINGTON
ADT:
Year of ADT: 0
Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 67
Structure Type: Reinforced Concrete Slab
Skew (deg): 0
Culvert Length (ft): 21.0
No of Spans/Barrels: 1

Drain Area (acres): 774
Span / Height (ft): 11.2 / 6.0
Approx Cover (ft): 1.0
Roadway Width (ft): 15.0
Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Good, light spalling
Superstructure: Reinforced Concrete Slab	Good, light spalling
Substructure: Concrete	Poor, heavily spalled
Channel: Grass	Good
Headwall: Concrete	Poor, cracked & separated
Culvert: n.a.	n.a.
Road: Chip & Seal	Fair, rough
Rail: None	n.a.
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Add OM2's	3.4	\$38
Safety-GR: Add guard rail	4.4	\$540
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR
Est Remain Life (yr): 10
Remarks:

Inspection Date: 6/27/2007

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 1723



**Looking
West**



**Looking
North**



**Looking
South**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1723

IDENTIFICATION

Road Name: 1100 North	Township: WASHINGTON
Location: 1800' WEST OF CR 850 W	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 8	Drain Area (acres): 57
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 8.0 / 1.0
Skew (deg): 0	Approx Cover (ft): 0.7
Culvert Length (ft): 20.0	Roadway Width (ft): 12.0
No of Spans/Barrels: 1	Wearing Surface: Gravel

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Good
Superstructure: Reinforced Concrete Slab	Good, minor spalling
Substructure: Concrete	Good
Channel: None	n.a.
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Gravel	Poor
Rail: None	n.a.
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 6/27/2007
Est Remain Life (yr): 30
Remarks: Located at end of dead end road.

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 1740



**Looking
West**



Looking West



Looking North



Beam # 3 from North



Beam # 4 from North

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1740

IDENTIFICATION

Road Name: Gregory Road	Township: NILES
Location: WEST OF CR 450 E	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 65	Drain Area (acres): 478
Structure Type: Steel Beam, Encased	Span / Height (ft): 11.8 / 5.5
Skew (deg): 0	Approx Cover (ft): .3
Culvert Length (ft): 27.3	Roadway Width (ft): 15.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Reinforced Concrete	Good, light spalling on top
Superstructure: Steel Beam, Encased	Poor, heavy rust
Substructure: Concrete	Fair, light cracks
Channel: Natural	Good
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Rough
Rail: Concrete	Good
Load Rating: 12 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Post "12 Ton Weight Limit"	1	\$60
Safety-GR:		
Replace: Replace structure	2	\$32,900
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/18/2007
Est Remain Life (yr): 8	
Remarks: 3 beams are rusted through. Recommend 12 month reinspection.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1741



**Looking
West**



**Looking
South**



**Looking
North**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1741

IDENTIFICATION

Road Name: Gregory Road	Township: NILES
Location: 800' WEST OF CR 450 E	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 65	Drain Area (acres): 166
Structure Type: Steel Beam, Encased	Span / Height (ft): 10.1 / 6.5
Skew (deg): 0	Approx Cover (ft): 0.3
Culvert Length (ft): 27.0	Roadway Width (ft): 14.5
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Reinforced Concrete	Sound, light spalling on top.
Superstructure: Steel Beam, Encased	Moderate rust, some flaking
Substructure: Reinforced Concrete	Moderate cracking
Channel: Poured Concrete Bottom	Good, fence blocks flow
Headwall: Concrete	Heavy spalling northwest
Culvert: n.a.	n.a.
Road: Chip & Seal	Rough
Rail: Concrete	Good
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM3 northwest	3.8	\$28
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/18/2007
Est Remain Life (yr): 15	
Remarks:	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1818



**Looking
West**



**Looking
South**



**Looking
North**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1818

IDENTIFICATION

Road Name: 900 North	Township: WASHINGTON
Location: 500' WEST OF CR 600 W	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 53	Drain Area (acres): 291
Structure Type: Corrugated Metal Pipe Arch	Span / Height (ft): 10.0 / 6.2
Skew (deg): 0	Approx Cover (ft): 2.0
Culvert Length (ft): 45.0	Roadway Width (ft): 17.0
No of Spans/Barrels: 1	Wearing Surface: Bituminous

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: n.a.	n.a.
Superstructure: n.a.	n.a.
Substructure: n.a.	n.a.
Channel: Grass	Good
Headwall: None	n.a.
Culvert: Corrugated Metal Pipe Arch	Good
Road: Bituminous	Good
Rail: None	n.a.
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Add OM2's	3.5	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/27/2007
Est Remain Life (yr): 50	
Remarks:	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1836



**Looking
North**



**Looking
West**



**Looking
East**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1836

IDENTIFICATION

Road Name: Walnut Street	Township: HAMILTON
Location: 1300' NORTH OF CR 500 N	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 132	Drain Area (acres): 3375
Structure Type: Multi-Plate Pipe Arch	Span / Height (ft): 16.5 / 10.4
Skew (deg): 0	Approx Cover (ft): 0.7
Culvert Length (ft): 48.0	Roadway Width (ft): 21.0
No of Spans/Barrels: 1	Wearing Surface: Bituminous

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: n.a.	n.a.
Superstructure: n.a.	n.a.
Substructure: n.a.	n.a.
Channel: Natural	Good
Headwall: None	n.a.
Culvert: Multi-Plate Pipe Arch	Good. Light rust at flowline.
Road: Bituminous	Fair, cracked
Rail: Steel M-shaped	Damaged SW
Load Rating: 15 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Post "15 Ton Weight Limit". Add OM2's	1	\$98
Safety-GR:		
Replace:		
Road/Shld:		
Other: Post 15 Ton or increase cover to 2.0 ft.	1	\$12,900

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/27/2007
Est Remain Life (yr): 50	
Remarks:	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 1872



**Looking
North**



**West
End**



Outside Beam



Interior Beam

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1872

IDENTIFICATION

Road Name: 950 West	Township: SALEM
Location: NORTH OF CORNER RD	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 88	Drain Area (acres): 3275
Structure Type: Steel Beam, Encased	Span / Height (ft): 16.0 / 5.5
Skew (deg): 0	Approx Cover (ft): 0.3
Culvert Length (ft): 18.0	Roadway Width (ft): 14.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Good
Superstructure: Steel Beam, Encased	Good, light rust
Substructure: Concrete	Fair, spalling north abutment
Channel: Natural	Good
Headwall: Concrete	Good, cracked
Culvert: n.a.	n.a.
Road: Chip & Seal	Rough
Rail: Concrete	Good
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Post "1 Lane", Add 3 OM3's	2	\$140
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 6/20/2007

Est Remain Life (yr): 15

Remarks: Clear roadway width = 15'9".

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 1991



**Looking
West**



**Looking
South**



**South
End**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1991

IDENTIFICATION

Road Name: 1000 North	Township: WASHINGTON
Location: 2300' WEST OF CR 500 W	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 12	Drain Area (acres): 60
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 8.0 / 1.0
Skew (deg): 0	Approx Cover (ft): 0.5
Culvert Length (ft): 20.0	Roadway Width (ft): 17.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Good
Superstructure: Reinforced Concrete Slab	Minor spalling
Substructure: Concrete	Good
Channel: None	n.a.
Headwall: Concrete	Cracked & spalled
Culvert: n.a.	n.a.
Road: Chip & Seal	Good
Rail: Steel M-shaped, north	Good, inadequate posts
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Add OM2 - southwest	3.2	\$19
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/27/2007
Est Remain Life (yr): 20	
Remarks: OM2 at NE corner	

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 2001



**Looking
East**



Looking South



South End



West Abutment



South Coping

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 2001

IDENTIFICATION

Road Name: 900 North
Location: 2600' EAST OF CR 500 W
Stream Name:
Road Classif:

Township: WASHINGTON
ADT:
Year of ADT: 0
Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 84
Structure Type: Reinforced Concrete Slab
Skew (deg): 0
Culvert Length (ft): 22.0
No of Spans/Barrels: 1

Drain Area (acres): 982
Span / Height (ft): 12.0 / 7.0
Approx Cover (ft): 0.8
Roadway Width (ft): 15.0
Wearing Surface: Bituminous

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Poor, heavy spalling & efflorescence
Superstructure: Reinforced Concrete Slab	Poor, heavy spalling at edges. Soft concrete throughout.
Substructure: Concrete	Moderate cracks & spalling
Channel: Natural	Good
Headwall: Concrete	Spalled & separated
Culvert: n.a.	n.a.
Road: Cold Mix	Good
Rail: Steel M-shaped	Inadequate posts
Load Rating: 15 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Post "15 Ton Weight Limit"	1	\$60
Safety-GR:		
Replace: Replace structure	3	\$26,300
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR
Est Remain Life (yr): 5
Remarks: OM3's in place.

Inspection Date: 6/26/2007

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 2032



**Looking
East**



**Looking
South**



**South
End**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 2032

IDENTIFICATION

Road Name: Eaton-Wheeling Pike Township: UNION
Location: 2000' EAST OF CR 287 W ADT:
Stream Name: Year of ADT: 0
Road Classif: Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 47 Drain Area (acres): 270
Structure Type: Al Box Culvert Span / Height (ft): 12.0 / 4.5
Skew (deg): 0 Approx Cover (ft): 1.0
Culvert Length (ft): 30.0 Roadway Width (ft): 19.0
No of Spans/Barrels: 1 Wearing Surface: Bituminous

CONDITION

MATERIAL

CONDITION

Deck: n.a. n.a.
Superstructure: n.a. n.a.
Substructure: n.a. n.a.
Channel: Natural Overgrown
Headwall: None n.a.
Culvert: Al Box Culvert Good. Roof has settled, minor.
Road: Bituminous Fair, cracked
Rail: Steel M-shaped Good, too low
Load Rating: 20 Ton

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Replace SE OM3	3.5	\$28
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR Inspection Date: 6/19/2007
Est Remain Life (yr): 40
Remarks: OM3's in place. Rail is low.

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 2037



**Looking
South**



**Looking
East**

Delaware County Culvert No. 2112



**Looking
North**



**Looking
West**



North Abutment



South Abutment

Delaware County Culvert No. 2136



**Looking
West**

Looking South



Looking North



Southwest Corner



Southwest Corner

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 2136

IDENTIFICATION

Road Name: 900 North	Township: UNION
Location: 1900' East of CR 200 West	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 42	Drain Area (acres): 1266
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 6.5 / 6.5
Skew (deg): 10	Approx Cover (ft): 0.3
Culvert Length (ft): 26.0	Roadway Width (ft): 15.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Fair, moderate effluoresence, minor spalling
Superstructure: Reinforced Concrete Slab	Fair, moderate spalling
Substructure: Reinforced Concrete	Poor, undermined & cracked
Channel: Grass	Good
Headwall: Concrete	Poor, undermined & leaning
Culvert: n.a.	n.a.
Road: Chip & Seal	Uneven. Drop-off at SW corner.
Rail: Steel Tube	Loose posts
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace: Replace structure	2	\$118,000
Road/Shld: Repair SW shoulder void	2	\$200
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 6/19/2007

Est Remain Life (yr): 2

Remarks: Movement detected in Abutments. OM3's in place.

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 2209



**Looking
North**



**Looking
Northwest**



**Southwest
Waterline**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 2209

IDENTIFICATION

Road Name: 400 East	Township: LIBERTY
Location: 930 ' SOUTH OF CR 275 N	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 136	Drain Area (acres): 1513
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 19.5 / 7.0
Skew (deg): 45	Approx Cover (ft): .7
Culvert Length (ft): 30.0	Roadway Width (ft): 16.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Fair, heavy effluorescence SE corner.
Superstructure: Reinforced Concrete Slab	Good, sound concrete, no spalling
Substructure: Concrete	Fair, moderate spalling at SW waterline
Channel: Natural	Good, overgrown
Headwall: Concrete	Good, cracked & separated SE
Culvert: n.a.	n.a.
Road: Chip & Seal	Good
Rail: Concrete	Good, cracked east
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Reset NW OM3	3.4	\$28
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR	Inspection Date: 7/2/2007
Est Remain Life (yr): 15	
Remarks: 6' long flexural crack (minor) at middle of bridge.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 2269



**Looking
West**



**Looking
North**



North Coping



Looking South

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 2269

IDENTIFICATION

Road Name: 500 North Township: DELAWARE
Location: 350' WEST OF CR 725 E ADT:
Stream Name: Year of ADT: 0
Road Classif: Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 42 Drain Area (acres): 218
Structure Type: Steel Beam, Encased Span / Height (ft): 12.0 / 3.5
Skew (deg): 0 Approx Cover (ft): 0.4
Culvert Length (ft): 26.0 Roadway Width (ft): 19.0
No of Spans/Barrels: 1 Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete Fair to poor. Soft concrete. Heavy spalling at edges.
Superstructure: Steel Beam, Encased Fair, moderate rust.
Substructure: Concrete Good
Channel: Natural Good
Headwall: Concrete Moderate to heavy spalling
Culvert: n.a. n.a.
Road: Chip & Seal Fair, moderate cracks
Rail: Steel Tube Good
Load Rating: 14 Ton

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Post "14 Ton Weight Limit". Add OM2's	1	\$98
Safety-GR:		
Replace: Replace structure	3	\$26,800
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR Inspection Date: 7/3/2007
Est Remain Life (yr): 10
Remarks: Heavy effluorescence bottom of deck.

Hwy Note 1:

Hwy Note 2:

Delaware County Culvert No. 2334



Looking North



Southeast Corner



Looking West



Looking South



Southwest Corner

Delaware County Culvert No. 2348



**Looking
North**



**Looking
West**



**Looking
East**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 2348

IDENTIFICATION

Road Name: 700 West	Township: HARRISON
Location: 700' NORTH OF SR 332	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 63	Drain Area (acres): 1080
Structure Type: Steel Beam, Encased	Span / Height (ft): 11.5 / 5.5
Skew (deg): 40	Approx Cover (ft): .8
Culvert Length (ft): 22.0	Roadway Width (ft): 13.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Good
Superstructure: Steel Beam, Encased	Moderate rust in spots, some flaking.
Substructure: Concrete	Moderate spalls & cracks throughout
Channel: Natural	Good
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Good
Rail: Steel M-shaped	Inadequate posts
Load Rating: 19 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Add OM3's SW & NE	2	\$56
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 6/26/2007
Est Remain Life (yr): 20	
Remarks: Posted "1 Lane".	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 2478



**Looking
West**



**Looking
South**



**Looking
North**

Delaware County Culvert No. 2511



Looking East



Looking South



Looking North



Bottom - Typical

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 2511

IDENTIFICATION

Road Name: 300 South	Township: CENTER/MONROE
Location: BETWEEN EATON AVENUE AND US 35	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 106	Drain Area (acres): 1141
Structure Type: Steel Beam, Encased	Span / Height (ft): 17.7 / 6.0
Skew (deg): 0	Approx Cover (ft): 0.5
Culvert Length (ft): 22.0	Roadway Width (ft): 17.0
No of Spans/Barrels: 1	Wearing Surface: Bituminous

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Poor, spalled
Superstructure: Steel Beam, Encased	Poor, heavy rust & spalling
Substructure: Concrete	Fair, moderate spalling
Channel: Natural	Overgrown
Headwall: Concrete	Fair, spalled
Culvert: n.a.	n.a.
Road: Bituminous	Good
Rail: Concrete	Good
Load Rating: 05 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace: Replace structure	2	\$78,700
Road/Shld:		
Other: Clear vegetation	3	\$0

MISC INFORMATION

Inspected by: LJR	Inspection Date: 7/2/2007
Est Remain Life (yr): 3	
Remarks: Posted 5 Ton. OM3's in place.	

Hwy Note 1:	
Hwy Note 2:	

Delaware County Culvert No. 2565



**Looking
West**



**Looking
Southeast**

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 2565

IDENTIFICATION

Road Name: White Road	Township: CENTER
Location: 1000' WEST OF POST RD	ADT:
Stream Name:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 98	Drain Area (acres): 332
Structure Type: Al Box Culvert	Span / Height (ft): 16.0 / 6.2
Skew (deg): 20	Approx Cover (ft): 2.0
Culvert Length (ft): 55.0	Roadway Width (ft): 16.0
No of Spans/Barrels: 1	Wearing Surface: Bituminous

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: n.a.	n.a.
Superstructure: n.a.	n.a.
Substructure: n.a.	n.a.
Channel: Natural / riprap	Good
Headwall: None	n.a.
Culvert: Al Box Culvert	Good, minor deflection
Road: Bituminous	Good
Rail: None	n.a.
Load Rating: 20 Ton	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Replace SW OM3	3.5	\$28
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR	Inspection Date: 7/3/2007
Est Remain Life (yr): 40	
Remarks: NE OM3 in place.	

Hwy Note 1:	
Hwy Note 2:	

MAINTENANCE SUMMARY
ALL CATEGORIES - ALL PRIORITIES

Delaware County - Culvert Inspection Report

<i>Work Category</i>	<i>Number of</i>	<i>Cost</i>
<i>Replace / Rehabilitate</i>	<i>12</i>	<i>\$ 559,000</i>
<i>Bank / Stream</i>	<i>6</i>	<i>\$ 30,019</i>
<i>Safety / Guard Rail</i>	<i>4</i>	<i>\$ 1,350</i>
<i>Safety / Signs</i>	<i>40</i>	<i>\$ 1,921</i>
<i>Shoulder / Approach</i>	<i>2</i>	<i>\$ 300</i>
<i>Other</i>	<i>23</i>	<i>\$ 12,900</i>
<i>Grand Total</i>	<i>87</i>	<i>\$ 605,490</i>

REPLACE / REHABILITATE PRIORITIES

Delaware County - Culvert Inspection Report

<i>Priority</i>	<i>Culvert No</i>	<i>Location</i>	<i>Culvert Type</i>	<i>Work Description</i>	<i>Cost</i>
1.0	1275	800 East 2200' SOUTH OF CR 1200 N	Reinforced Concrete Slab	Replace structure	\$32,900
1.0	947	500 South 1000' WEST OF CR 300 W	Steel Beam, Encased	Replace structure	\$26,300
2.0	1434	650 South 1400' WEST OF CR 461 E	Steel Beam, Encased	Replace structure	\$59,300
2.0	1740	Gregory Road WEST OF CR 450 E	Steel Beam, Encased	Replace structure	\$32,900
2.0	2136	900 North 1900' East of CR 200 West	Reinforced Concrete Slab	Replace structure	\$118,000
2.0	2511	300 South BETWEEN EATON AVENUE AND US 35	Steel Beam, Encased	Replace structure	\$78,700
2.0	440	950 North 600' WEST OF CR 925 W	Reinforced Concrete Slab	Replace with pipe structure	\$3,000
2.0	95	550 East 700' NORTH OF EATON-ALBANY PIKE	Reinforced Concrete Slab	Replace structure	\$48,600
3.0	1026	700 South 1100' WEST OF SR 3	Reinforced Concrete Slab	Replace structure	\$27,500
3.0	2001	900 North 2600' EAST OF CR 500 W	Reinforced Concrete Slab	Replace structure	\$26,300
3.0	2269	500 North 350' WEST OF CR 725 E	Steel Beam, Encased	Replace structure	\$26,800

REPLACE / REHABILITATE PRIORITIES

Delaware County - Culvert Inspection Report

<i>Priority</i>	<i>Culvert No</i>	<i>Location</i>	<i>Culvert Type</i>	<i>Work Description</i>	<i>Cost</i>
3.0	2334	Burlington Road 1900' NORTH OF INLOW SPRINGS ROAD	Stone Arch	Replace structure	\$78,700
				Sum:	\$559,000
				Count:	12

Priority Explanation:

- 1. Structure is closed.*
- 2. Weight limit 5 ton or less, or less than 2 year remaining life.*
- 3. Weight limit 10 ton or less, or less than 5 year remaining life.*
- 4. Weight limit 15 ton or less, or less than 10 year remaining life.*

BANK / STREAM PRIORITIES

Delaware County - Culvert Inspection Report

<i>Priority</i>	<i>Culvert No</i>	<i>Location</i>	<i>Culvert Type</i>	<i>Work Description</i>	<i>Cost</i>
2.0	1413	600 South 200' WEST of 875 EAST	Steel Beam, Encased	Underpin abutments	\$10,019
2.0	1559	700 South 1000' EAST OF HONEYCREEK RD	Steel girder - unknown	Underpin abutments	\$5,400
3.0	1340	400 South 400' EAST OF CR 575 E	Reinforced Concrete Slab	Underpin both abutments	\$5,400
3.0	26	Riggin Road 1600' EAST OF SHAFFER ROAD	Steel Beam, Encased	Pour concrete bottom through structure	\$5,900
3.0	865	Windsor Road BETWEEN CR 400 E AND INLOW SPRINGS ROAD	Timber Slab	Add gabion baskets, west abutment	\$2,300
4.0	677	Centennial Avenue WEST OF CR 700 E	Al Box Culvert	Remove concrete wall at south end	\$1,000
Sum:					\$30,019
Count:					6

Priority Explanation:

- 1. Failure of substructure / roadway is imminent.***
- 2. Failure of substructure / roadway is probable within 2 years.***
- 3. Substructure / roadway will be impacted within 5 years.***
- 4. Minor erosion needs attention***
- 5. Routine maintenance.***

SAFETY / GUARD RAIL PRIORITIES

Delaware County - Culvert Inspection Report

<i>Priority</i>	<i>Culvert No</i>	<i>Location</i>	<i>Culvert Type</i>	<i>Work Description</i>	<i>Cost</i>
4.1	849	Whitney Road 1000' NORTH OF INLOW SPRINGS RD	Al Box Culvert	Repair north guard rail	\$360
4.1	978	300 West 2600' SOUTH OF CR 500 S	Al Box Culvert	Repair damaged rail	\$180
4.4	1694	1200 North 500' EAST OF CR 975 W	Reinforced Concrete Slab	Add guard rail	\$540
4.5	1560	400 West 1250' NORTH OF CR 1270 N	Reinforced Concrete Slab	Replace east railing	\$270

SAFETY / GUARD RAIL PRIORITIES

Delaware County - Culvert Inspection Report

<i>Priority</i>	<i>Culvert No</i>	<i>Location</i>	<i>Culvert Type</i>	<i>Work Description</i>	<i>Cost</i>
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Sum: **\$1,350**

Count: **4**

Priority Explanation:

- 1.0 Posting of weight limits is required*
- 2.0 Posting "1 Lane" is strongly recommended*
- 2.5 Narrow Bridge*

- 3.0 OM3 - obstacle within 0.5' of pavement edge.*
- 3.1 OM3 - obstacle within 1.0' of pavement edge*
- 3.2 OM2 - obstacle within 1.5' of pavement edge*
- 3.3 OM2 - obstacle within 2.0' of pavement edge*
- 3.4 OM2 - obstacle within 2.5' of pavement edge.*
- 3.5 OM2 - obstacle within 3.0' of pavement edge.*
- 3.6 OM2 - obstacle within 3.5' of pavement edge*
- 3.7 OM2 - obstacle within 4.0' of pavement edge*
- 3.8 OM2 - obstacle within 5.0' of pavement edge.*
- 3.9 OM2 - obstacle within 6.0' of pavement edge.*

- 4.0 Guard Rail - obstacle within 0.5' of pavement edge.*
- 4.1 Guard Rail - obstacle within 1.0' of pavement edge*
- 4.2 Guard Rail - obstacle within 1.5' of pavement edge*
- 4.3 Guard Rail - obstacle within 2.0' of pavement edge*
- 4.4 Guard Rail - obstacle within 2.5' of pavement edge.*
- 4.5 Guard Rail - obstacle within 3.0' of pavement edge.*
- 4.6 Guard Rail - obstacle within 3.5' of pavement edge*
- 4.7 Guard Rail - obstacle within 4.0' of pavement edge*
- 4.8 Guard Rail - obstacle within 5.0' of pavement edge.*
- 4.9 Guard Rail - obstacle within 6.0' of pavement edge.*

SAFETY / SIGNS PRIORITIES

Delaware County - Culvert Inspection Report

<i>Priority</i>	<i>Culvert No</i>	<i>Location</i>	<i>Culvert Type</i>	<i>Work Description</i>	<i>Cost</i>
1.0	1434	650 South 1400' WEST OF CR 461 E	Steel Beam, Encased	Post "11 Ton Weight Limit". Place OM3, NE.	\$88
1.0	1740	Gregory Road WEST OF CR 450 E	Steel Beam, Encased	Post "12 Ton Weight Limit"	\$60
1.0	1836	Walnut Street 1300' NORTH OF CR 500 N	Multi-Plate Pipe Arch	Post "15 Ton Weight Limit". Add OM2's	\$98
1.0	2001	900 North 2600' EAST OF CR 500 W	Reinforced Concrete Slab	Post "15 Ton Weight Limit"	\$60
1.0	2269	500 North 350' WEST OF CR 725 E	Steel Beam, Encased	Post "14 Ton Weight Limit". Add OM2's	\$98
1.0	95	550 East 700' NORTH OF EATON- ALBANY PIKE	Reinforced Concrete Slab	Post "5 Ton Weight Limit"	\$60
2.0	1872	950 West NORTH OF CORNER RD	Steel Beam, Encased	Post "1 Lane", Add 3 OM3's	\$140
2.0	2348	700 West 700' NORTH OF SR 332	Steel Beam, Encased	Add OM3's SW & NE	\$56
2.0	267	400 North 4100' EAST OF CR 500 E	Reinforced Concrete Slab	Post "1 Lane", Add OM3's	\$168
3.0	849	Whitney Road 1000' NORTH OF INLOW SPRINGS RD	Al Box Culvert	Remove 15 Ton weight limit	\$0
3.1	978	300 West 2600' SOUTH OF CR 500 S	Al Box Culvert	Add OM3's	\$112
3.2	1991	1000 North 2300' WEST OF CR 500 W	Reinforced Concrete Slab	Add OM2 - southwest	\$19

SAFETY / SIGNS PRIORITIES

Delaware County - Culvert Inspection Report

<i>Priority</i>	<i>Culvert No</i>	<i>Location</i>	<i>Culvert Type</i>	<i>Work Description</i>	<i>Cost</i>
3.2	440	950 North 600' WEST OF CR 925 W	Reinforced Concrete Slab	Add OM2's	\$38
3.3	452	850 North 850' EAST OF CR 500 W	Reinforced Concrete Slab	Reset SE OM3	\$28
3.3	587	Bethel Avenue 2000' EAST OF CR 700 W	Prestress Box Beams	Reset northeast OM2	\$19
3.4	1227	Boundary Road 2700' NORTH OF CR 1200 N	Steel Beam, Encased	Place OM2's	\$38
3.4	1313	1000 North 850' EAST OF SR 167	Steel Beam, Encased	Place OM3's: SE, NE, NW	\$84
3.4	1479	400 East 850' SOUTH OF CR 740 S	Reinforced Concrete Slab	Place OM2's	\$38
3.4	1614	100 West 1600' SOUTH OF CR 1200 N	Reinforced Concrete Slab	Place OM2's	\$38
3.4	1694	1200 North 500' EAST OF CR 975 W	Reinforced Concrete Slab	Add OM2's	\$38
3.4	2209	400 East 930' SOUTH OF CR 275 N	Reinforced Concrete Slab	Reset NW OM3	\$28
3.5	1326	450 East 2100' NORTH OF EATON- ALBANY PIKE	Steel Beam, Encased	Place OM2's	\$38
3.5	1413	600 South 200' WEST of 875 EAST	Steel Beam, Encased	Add OM2's	\$38
3.5	1641	Eaton-Wheeling Pike 650' EAST OF WALNUT ST	Concrete Arch	Replace SE OM3	\$28

SAFETY / SIGNS PRIORITIES

Delaware County - Culvert Inspection Report

<i>Priority</i>	<i>Culvert No</i>	<i>Location</i>	<i>Culvert Type</i>	<i>Work Description</i>	<i>Cost</i>
3.5	173	Woodside Road JUST WEST OF POTTERY ROAD	Al Box Culvert	Place OM2's	\$38
3.5	1818	900 North 500' WEST OF CR 600 W	Corrugated Metal Pipe Arch	Add OM2's	\$38
3.5	2032	Eaton-Wheeling Pike 2000' EAST OF CR 287 W	Al Box Culvert	Replace SE OM3	\$28
3.5	2565	White Road 1000' WEST OF POST RD	Al Box Culvert	Replace SW OM3	\$28
3.5	844	900 East 700' SOUTH OF WINDSOR RD	Reinforced Concrete Slab	Place OM2's	\$38
3.7	1317	1000 North 650' EAST OF CR 800 EAST	Stone Arch	Place SW OM3	\$28
3.7	185	Woodside Road EAST OF SR 67	Al Box Culvert	Place OM2's	\$38
3.7	677	Centennial Avenue WEST OF CR 700 E	Al Box Culvert	Reset NE OM3	\$28
3.7	738	Northwod Drive 800' NORTH OF JACKSON ST	Al Box Culvert	Add OM2's	\$38
3.8	1273	350 East 1300' SOUTH OF CR 1200 N	Steel Beam, Encased	Place OM2's	\$38
3.8	1277	800 East 2800' SOUTH OF CR 1200 N	Reinforced Concrete Slab	Reset SE OM3.	\$28
3.8	1308	350 East 2700' NORTH OF EATON- ALBANY PIKE	Steel Beam, Encased	Replace northbound OM2.	\$19

SAFETY / SIGNS PRIORITIES

Delaware County - Culvert Inspection Report

<i>Priority</i>	<i>Culvert No</i>	<i>Location</i>	<i>Culvert Type</i>	<i>Work Description</i>	<i>Cost</i>
3.8	1741	Gregory Road 800' WEST OF CR 450 E	Steel Beam, Encased	Place OM3 northwest	\$28
3.9	1113	950 West 1500' SOUTH OF CR 300 N	Reinforced Concrete Slab	Add NW OM3	\$28
3.9	1671	1000 North 1600' WEST OF CR 100 W	Al Box Culvert	Place OM3 for east bound	\$28
3.9	326	900 North 2300' EAST OF CR 200 W	Steel Beam, Encased	Place OM2's	\$38

SAFETY / SIGNS PRIORITIES

Delaware County - Culvert Inspection Report

<i>Priority</i>	<i>Culvert No</i>	<i>Location</i>	<i>Culvert Type</i>	<i>Work Description</i>	<i>Cost</i>
				Sum:	\$1,921
				Count:	40

Priority Explanation:

- 1.0 Posting of weight limits is required*
- 2.0 Posting "1 Lane" is strongly recommended*
- 2.5 Narrow Bridge*

- 3.0 OM3 - obstacle within 0.5' of pavement edge.*
- 3.1 OM3 - obstacle within 1.0' of pavement edge*
- 3.2 OM2 - obstacle within 1.5' of pavement edge*
- 3.3 OM2 - obstacle within 2.0' of pavement edge*
- 3.4 OM2 - obstacle within 2.5' of pavement edge.*
- 3.5 OM2 - obstacle within 3.0' of pavement edge.*
- 3.6 OM2 - obstacle within 3.5' of pavement edge*
- 3.7 OM2 - obstacle within 4.0' of pavement edge*
- 3.8 OM2 - obstacle within 5.0' of pavement edge.*
- 3.9 OM2 - obstacle within 6.0' of pavement edge.*

- 4.0 Guard Rail - obstacle within 0.5' of pavement edge.*
- 4.1 Guard Rail - obstacle within 1.0' of pavement edge*
- 4.2 Guard Rail - obstacle within 1.5' of pavement edge*
- 4.3 Guard Rail - obstacle within 2.0' of pavement edge*
- 4.4 Guard Rail - obstacle within 2.5' of pavement edge.*
- 4.5 Guard Rail - obstacle within 3.0' of pavement edge.*
- 4.6 Guard Rail - obstacle within 3.5' of pavement edge*
- 4.7 Guard Rail - obstacle within 4.0' of pavement edge*
- 4.8 Guard Rail - obstacle within 5.0' of pavement edge.*
- 4.9 Guard Rail - obstacle within 6.0' of pavement edge.*

SHOULDER / APPROACH PRIORITIES

Delaware County - Culvert Inspection Report

<i>Priority</i>	<i>Culvert No</i>	<i>Location</i>	<i>Culvert Type</i>	<i>Work Description</i>	<i>Cost</i>
2.0	2136	900 North 1900' East of CR 200 West	Reinforced Concrete Slab	Repair SW shoulder void	\$200
3.0	173	Woodside Road JUST WEST OF POTTERY ROAD	Al Box Culvert	Fix sinkhole at NE corner.	\$100
				Sum:	\$300
				Count:	2

Priority Explanation:

- 1. Roadway hazard exists.***
- 2. Roadside hazard exists.***
- 3. Rough pavement conditions.***
- 4. Rough shoulder conditions.***
- 5. Routine maintenance.***

OTHER PRIORITIES

Delaware County - Culvert Inspection Report

<i>Priority</i>	<i>Culvert No</i>	<i>Location</i>	<i>Culvert Type</i>	<i>Work Description</i>	<i>Cost</i>
1.0	1836	Walnut Street 1300' NORTH OF CR 500 N	Multi-Plate Pipe Arch	Post 15 Ton or increase cover to 2.0 ft.	\$12,900
3.0	1026	700 South 1100' WEST OF SR 3	Reinforced Concrete Slab	Clear vegetation	\$0
3.0	1113	950 West 1500' SOUTH OF CR 300 N	Reinforced Concrete Slab	Clear vegetation	\$0
3.0	1223	600 East 850' SOUTH OF CR 1300 N	Reinforced Concrete Slab	Clear vegetation	\$0
3.0	1240	600 East 2000' SOUTH OF CR 1300 N	Steel Beam, Encased	Clear vegetation	\$0
3.0	1277	800 East 2800' SOUTH OF CR 1200 N	Reinforced Concrete Slab	Clear vegetation	\$0
3.0	1559	700 South 1000' EAST OF HONEYCREEK RD	Steel girder - unknown	Clear vegetation	\$0
3.0	2032	Eaton-Wheeling Pike 2000' EAST OF CR 287 W	Al Box Culvert	Clear vegetation	\$0
3.0	2037	Wheeling Avenue 800' SOUTH OF RIGDON ST	Prestress Box Beams	Clear vegetation	\$0
3.0	2112	200 West 800' SOUTH OF CR 750 N	Steel Beam, Encased	Clear vegetation	\$0
3.0	2209	400 East 930 ' SOUTH OF CR 275 N	Reinforced Concrete Slab	Clear vegetation	\$0

OTHER PRIORITIES

Delaware County - Culvert Inspection Report

<i>Priority</i>	<i>Culvert No</i>	<i>Location</i>	<i>Culvert Type</i>	<i>Work Description</i>	<i>Cost</i>
3.0	2269	500 North 350' WEST OF CR 725 E	Steel Beam, Encased	Clear vegetation	\$0
3.0	2511	300 South BETWEEN EATON AVENUE AND US 35	Steel Beam, Encased	Clear vegetation	\$0
3.0	329	900 North 1300' EAST OF WALNUT ST	Reinforced Concrete Slab	Clear vegetation	\$0
3.0	452	850 North 850' EAST OF CR 500 W	Reinforced Concrete Slab	Clear vegetation	\$0
3.0	587	Bethel Avenue 2000' EAST OF CR 700 W	Prestress Box Beams	Clear vegetation	\$0
3.0	590	700 West 900' SOUTH OF BETHEL AVENUE	Reinforced Concrete Slab	Clear vegetation	\$0
3.0	608	350 North 250' EAST OF CR 500 E	Al Box Culvert	Clear vegetation	\$0
3.0	677	Centennial Avenue WEST OF CR 700 E	Al Box Culvert	Clear vegetation	\$0
3.0	844	900 East 700' SOUTH OF WINDSOR RD	Reinforced Concrete Slab	Clear vegetation	\$0
3.0	849	Whitney Road 1000' NORTH OF INLOW SPRINGS RD	Al Box Culvert	Clear vegetation	\$0
3.0	865	Windsor Road BETWEEN CR 400 E AND INLOW SPRINGS ROAD	Timber Slab	Clear vegetation	\$0

OTHER PRIORITIES
Delaware County - Culvert Inspection Report

<i>Priority</i>	<i>Culvert No</i>	<i>Location</i>	<i>Culvert Type</i>	<i>Work Description</i>	<i>Cost</i>
3.0	960	188 East 400' NORTH OF CR 525 S	Multi-Plate Box Culvert	Clear vegetation	\$0

Sum: \$12,900
Count: 23

WEIGHT LIMIT REPORT

Delaware County - Culvert Inspection Report

<i>Rating</i>	<i>BR #</i>	<i>Road Name:</i>	<i>Structure Type:</i>	<i>Work</i>	<i>Priority</i>	<i>\$</i>
	<i>Life-yrs</i>	<i>Remarks:</i>				
00 Ton	947 0	500 South 1000' WEST OF CR 300 W	Steel Beam, Encased	Replace structure	1.0	\$26,300
		Should be closed as soon as possible.				
00 Ton	1275 0	800 East 2200' SOUTH OF CR 1200 N	Reinforced Concrete Slab	Replace structure	1.0	\$32,900
		Should be closed immediately. 10' on west side is steel beam, encased in good condition.				
05 Ton	95 1	550 East 700' NORTH OF EATON- ALBANY PIKE	Reinforced Concrete Slab	Replace structure	2.0	\$48,600
		Recommend 6 month reinspection.		Post "5 Ton Weight Limit"	1.0	\$60
05 Ton	2511 3	300 South BETWEEN EATON AVENUE AND US 35	Steel Beam, Encased	Replace structure	2.0	\$78,700
		Posted 5 Ton. OM3's in place.		Clear vegetation	3.0	\$0
10 Ton	440 2	950 North 600' WEST OF CR 925 W	Reinforced Concrete Slab	Replace with pipe structure	2.0	\$3,000
		Do not post weight limit. Low underclearance yields minor deflection at failure.		Add OM2's	3.2	\$38

WEIGHT LIMIT REPORT

Delaware County - Culvert Inspection Report

<i>Rating</i>	<i>BR #</i>	<i>Road Name:</i>	<i>Structure Type:</i>	<i>Work</i>	<i>Priority</i>	<i>\$</i>
	<i>Life-yrs</i>	<i>Remarks:</i>				
11 Ton	1434	650 South	Steel Beam, Encased			
	3	1400' WEST OF CR 461 E		Replace structure	2.0	\$59,300
		Recommend 12 month reinspection.		Post "11 Ton Weight Limit". Place OM3, NE.	1.0	\$88
12 Ton	1740	Gregory Road	Steel Beam, Encased			
	8	WEST OF CR 450 E		Replace structure	2.0	\$32,900
		3 beams are rusted through. Recommend 12 month reinspection.		Post "12 Ton Weight Limit"	1.0	\$60
14 Ton	2269	500 North	Steel Beam, Encased			
	10	350' WEST OF CR 725 E		Replace structure	3.0	\$26,800
		Heavy effluorescence bottom of deck.		Clear vegetation	3.0	\$0
				Post "14 Ton Weight Limit". Add OM2's	1.0	\$98
15 Ton	2001	900 North	Reinforced Concrete Slab			
	5	2600' EAST OF CR 500 W		Replace structure	3.0	\$26,300
		OM3's in place.		Post "15 Ton Weight Limit"	1.0	\$60
15 Ton	1836	Walnut Street	Multi-Plate Pipe Arch			
	50	1300' NORTH OF CR 500 N		Post 15 Ton or increase cover to 2.0 ft.	1.0	\$12,900
				Post "15 Ton Weight Limit". Add OM2's	1.0	\$98

WEIGHT LIMIT REPORT

Delaware County - Culvert Inspection Report

<i>Rating</i>	<i>BR #</i>	<i>Road Name:</i>	<i>Structure Type:</i>	<i>Work</i>	<i>Priority</i>	<i>\$</i>
	<i>Life-yrs</i>	<i>Remarks:</i>				
16 Ton	1034 25	700 South 600' WEST OF CR 200 W	Steel Beam, Encased			
		OM3's in place.				
18 Ton	2112 10	200 West 800' SOUTH OF CR 750 N	Steel Beam, Encased			
		OM3's in place.		Clear vegetation	3.0	\$0
19 Ton	2348 20	700 West 700' NORTH OF SR 332	Steel Beam, Encased			
		Posted "1 Lane".		Add OM3's SW & NE	2.0	\$56

REMAINING LIFE REPORT

Delaware County - Culvert Inspection Report

<i>Life-yrs</i>	<i>BR #</i>	<i>Road Name</i>	<i>Structure Type</i>	<i>Work</i>	<i>Priority</i>	
	<i>Rating</i>	<i>Remarks</i>				
0	1275 00 Ton	800 East 2200' SOUTH OF CR 1200 N	Reinforced Concrete Slab	Replace structure	1.0	\$32,900
		Should be closed immediately. 10' on west side is steel beam, encased in good condition.				
0	947 00 Ton	500 South 1000' WEST OF CR 300 W	Steel Beam, Encased	Replace structure	1.0	\$26,300
		Should be closed as soon as possible.				
1	95 05 Ton	550 East 700' NORTH OF EATON- ALBANY PIKE	Reinforced Concrete Slab	Replace structure	2.0	\$48,600
		Recommend 6 month reinspection.		Post "5 Ton Weight Limit"	1.0	\$60
2	1413 20 Ton	600 South 200' WEST of 875 EAST	Steel Beam, Encased	Underpin abutments	2.0	\$10,019
				Add OM2's	3.5	\$38
2	1559 20 Ton	700 South 1000' EAST OF HONEYCREEK RD	Steel girder - unknown	Underpin abutments	2.0	\$5,400
		Not able to verify size or type of steel members. OM3's in place.		Clear vegetation	3.0	\$0

REMAINING LIFE REPORT

Delaware County - Culvert Inspection Report

<i>Life-yrs</i>	<i>BR #</i>	<i>Road Name</i>	<i>Structure Type</i>	<i>Work</i>	<i>Priority</i>
	<i>Rating</i>	<i>Remarks</i>			
2	2136 20 Ton	900 North 1900' East of CR 200 West	Reinforced Concrete Slab	Replace structure Repair SW shoulder void	2.0 \$118,000 2.0 \$200
		Movement detected in Abutments. OM3's in place.			
2	440 10 Ton	950 North 600' WEST OF CR 925 W	Reinforced Concrete Slab	Replace with pipe structure Add OM2's	2.0 \$3,000 3.2 \$38
		Do not post weight limit. Low underclearance yields minor deflection at failure.			
3	1434 11 Ton	650 South 1400' WEST OF CR 461 E	Steel Beam, Encased	Replace structure Post "11 Ton Weight Limit". Place OM3, NE.	2.0 \$59,300 1.0 \$88
		Recommend 12 month reinspection.			
3	2511 05 Ton	300 South BETWEEN EATON AVENUE AND US 35	Steel Beam, Encased	Replace structure Clear vegetation	2.0 \$78,700 3.0 \$0
		Posted 5 Ton. OM3's in place.			
4	26 20 Ton	Riggin Road 1600' EAST OF SHAFFER ROAD	Steel Beam, Encased	Pour concrete bottom through structure	3.0 \$5,900
		Steel beam, encased bridge has been widened with reinforced concrete slab.			

REMAINING LIFE REPORT

Delaware County - Culvert Inspection Report

<i>Life-yrs</i>	<i>BR #</i>	<i>Road Name</i>	<i>Structure Type</i>	<i>Work</i>	<i>Priority</i>	
	<i>Rating</i>	<i>Remarks</i>				
5	1026	700 South	Reinforced Concrete Slab			
	20 Ton	1100' WEST OF SR 3		Replace structure	3.0	\$27,500
		OM3's in place. Brush obstructs OM3's.		Clear vegetation	3.0	\$0
5	1340	400 South	Reinforced Concrete Slab	Underpin both abutments	3.0	\$5,400
	20 Ton	400' EAST OF CR 575 E				
		East abutment has partial failure at north end, south half is undermined. OM3's in place.				
5	2001	900 North	Reinforced Concrete Slab			
	15 Ton	2600' EAST OF CR 500 W		Replace structure	3.0	\$26,300
		OM3's in place.		Post "15 Ton Weight Limit"	1.0	\$60
5	2334	Burlington Road	Stone Arch			
	20 Ton	1900' NORTH OF INLOW SPRINGS ROAD		Replace structure	3.0	\$78,700
		Bridge widened with steel beams. Widened portions have moderate to heavy spalling & rust. OM3's in place.				
8	1740	Gregory Road	Steel Beam, Encased			
	12 Ton	WEST OF CR 450 E		Replace structure	2.0	\$32,900
		3 beams are rusted through. Recommend 12 month reinspection.		Post "12 Ton Weight Limit"	1.0	\$60

REMAINING LIFE REPORT

Delaware County - Culvert Inspection Report

<i>Life-ysrs</i>	<i>BR #</i>	<i>Road Name</i>	<i>Structure Type</i>	<i>Work</i>	<i>Priority</i>	
	<i>Rating</i>	<i>Remarks</i>				
10	1614 20 Ton	100 West 1600' SOUTH OF CR 1200 N	Reinforced Concrete Slab			
		Bridge is probably undersized.		Place OM2's	3.4	\$38
10	1694 20 Ton	1200 North 500' EAST OF CR 975 W	Reinforced Concrete Slab	Add guard rail	4.4	\$540
				Add OM2's	3.4	\$38
10	2112 18 Ton	200 West 800' SOUTH OF CR 750 N	Steel Beam, Encased			
		OM3's in place.		Clear vegetation	3.0	\$0
10	2269 14 Ton	500 North 350' WEST OF CR 725 E	Steel Beam, Encased			
				Replace structure	3.0	\$26,800
		Heavy effluorecence bottom of deck.		Clear vegetation	3.0	\$0
				Post "14 Ton Weight Limit". Add OM2's	1.0	\$98