

DELAWARE COUNTY, INDIANA
CULVERT INSPECTION & REPORT

DECEMBER 31, 2008



*PREPARED FOR :
DELAWARE COUNTY
BOARD OF
COMMISSIONERS*



BY:

*RUMSCHLAG
TECHNICAL
SERVICES*

*BROWNSBURG
INDIANA*



SMALL BRIDGE INSPECTION REPORT

DELAWARE COUNTY, INDIANA
December 31, 2008

Submitted to:

BOARD OF COMMISSIONERS Delaware County, Indiana

DELAWARE COUNTY BOARD of COMMISSIONERS

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PREPARED by:

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date: _____

Delaware County, IN – Small Bridge Inspection, 2008

INTRODUCTION

The purpose of this project is to inspect, rate, and provide a summary of the condition of 76 small bridges within jurisdiction of the Delaware County Highway Department. These 76 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, 2008

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 16.0 feet. In addition, some culverts with a bridge roadway width between 16.0 and 18.0 feet may also justify a “One Lane Bridge” posting. See page 5C-4 of M.U.T.C.D.

Small Bridge No. 0004



Looking East



Looking North



Looking South

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0004

IDENTIFICATION

Location: C.R. 400 N - 2995' EAST OF MORRISON RD
Stream Name: **Township:** HAMILTON
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 36 **Drain Area (acres):**
Structure Type: Reinforced Concrete Box **Span / Height (ft):** 6.0 / 6.0
Skew (deg): 0 **Approx Cover (ft):** .2
Culvert Length (ft): 36 **Roadway Width (ft):** 19.5
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: - -
Superstructure: - -
Substructure: - -
Channel: Grass Good
Headwall: None n.a.
Culvert: Reinforced Concrete Box Good
Road: Chip & Seal Good
Rail: None n.a.
Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.3	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/25/2008
Est Remain Life (yr): 40
Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0070



Looking West



Looking South



Looking North

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0070

IDENTIFICATION

Location: FUSON RD - 940' WEST OF COWAN RD

Stream Name:

Township: CENTER

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 32

Drain Area (acres): 645

Structure Type: Reinforced Concrete Box

Span / Height (ft): 8.0 / 4.0

Skew (deg): 0

Approx Cover (ft): 2.0

Culvert Length (ft): 90

Roadway Width (ft): 48.0

No of Spans/Barrels: 1

Wearing Surface: Bituminous

CONDITION

MATERIAL

CONDITION

Deck: -

-

Superstructure: -

-

Substructure: -

-

Channel: Natural / riprap

Good

Headwall: None

n.a.

Culvert: Reinforced Concrete Box

Good

Road: Bituminous

Good

Rail: Steel W-shaped

Good

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs:

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 7/24/2008

Est Remain Life (yr): 60

Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0095



Looking North



West End



East End



Slab Bottom

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0095

IDENTIFICATION

Location: C.R. 550 E - 700' NORTH OF EATON-ALBANY PIKE

Stream Name:

Township: NILES

ADT:

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

Roadway Width (ft): 17.0

No of Spans/Barrels: 1

Wearing Surface: Bituminous

CONDITION

MATERIAL

CONDITION

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 W-shaped

Poor

Load Rating: H05

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: 7/31/2008

Est Remain Life (yr): 1

Remarks: Recommend 12-month reinspection.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0128



Looking West



Looking South



Looking North

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0128

IDENTIFICATION

Location: NORTHFORK RD - 160' WEST OF C.R. 369 E

Stream Name:

Township: NILES

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 22

Drain Area (acres): 269

Structure Type: Steel Beam Encased

Span / Height (ft): 6.3 / 3.5

Skew (deg): 05

Approx Cover (ft): 0.5

Culvert Length (ft): 24

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

Substructure: Concrete

Good

Channel: Natural

Overgrown

Headwall: Concrete

Good

Culvert: n.a.

n.a.

Road: Chip & Seal

Good

Rail: Steel Tube

Failed south

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs: Place OM2s

3.4

\$38

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 7/31/2008

Est Remain Life (yr): 30

Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0132



Looking West



Looking South



Looking North

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0132

IDENTIFICATION

Location: GREGORY RD - 210' EAST OF OLD GRANVILLE

Stream Name:

Township: NILES

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 32

Drain Area (acres):

Structure Type: Aluminum Box Culvert

Span / Height (ft): 9.6 / 2.7

Skew (deg): 0

Approx Cover (ft): 1.5

Culvert Length (ft): 40

Roadway Width (ft): 15.0

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: n.a.

n.a.

Superstructure: n.a.

n.a.

Substructure: Aluminum Plate

Good

Channel: Grass

Good

Headwall: None

n.a.

Culvert: Aluminum Box Culvert

Good

Road: Chip & Seal

Fair, rough

Rail: None

n.a.

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs:

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 7/31/2008

Est Remain Life (yr): 50

Remarks:

Hwy Note 1:

Hwy Note 2:

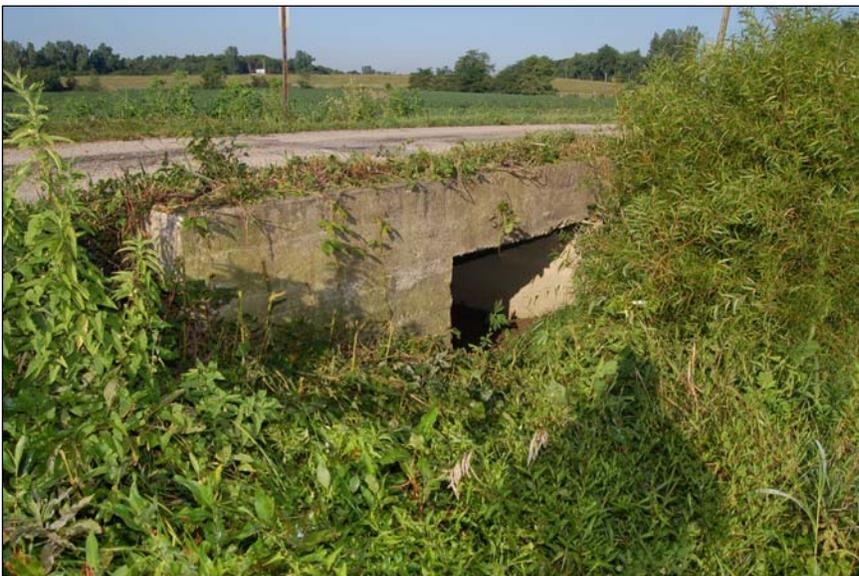
Small Bridge No. 0164



Looking East



Looking North



Looking South

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0164

IDENTIFICATION

Location: EDGEWATER RD - 1690' WEST OF STRONG RD

Stream Name:

Township: DELAWARE

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 20

Drain Area (acres): 50

Structure Type: Steel Beam Encased

Span / Height (ft): 6.0 / 3.3

Skew (deg): 0

Approx Cover (ft): .3

Culvert Length (ft): 24

Roadway Width (ft): 13.0

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete

Good

Superstructure: Steel Beam Encased

Fair, moderate rust

Substructure: Concrete

Good

Channel: None

n.a.

Headwall: Concrete

Good

Culvert: n.a.

n.a.

Road: Chip & Seal

Fair, rough

Rail: None

n.a.

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs: Remount loose OM3s

3.2

\$10

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 8/6/2008

Est Remain Life (yr): 30

Remarks: 4 OM3s in place.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0170



Looking South



Looking West



Looking East

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0170

IDENTIFICATION

Location: C.R. 650 E - 2170' NORTH OF REYNARD
Stream Name: **Township:** DELAWARE
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 18 **Drain Area (acres):** 318
Structure Type: Steel Beam Encased **Span / Height (ft):** 7.7 / 2.3
Skew (deg): 0 **Approx Cover (ft):** 0.5
Culvert Length (ft): 24 **Roadway Width (ft):** 17.0
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Good
Superstructure: Steel Beam Encased	Good
Substructure: Concrete	Good
Channel: None	n.a.
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Fair, cracked
Rail: None	n.a.
Load Rating: H20	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.4	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/6/2008
Est Remain Life (yr): 30
Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0178



Looking South



Looking West



Looking East

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0178

IDENTIFICATION

Location: OLD GRANVILLE ROAD - 1620' NORTH OF SR 28
Stream Name: **Township:** DELAWARE
ADT: **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):** 7.3 / 2.8
Skew (deg): 0 **Approx Cover (ft):** .5
Culvert Length (ft): 29 **Roadway Width (ft):** 17.5
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, light to moderate spalling
Channel: None n.a.
Headwall: Concrete Good
Culvert: n.a. n.a.
Road: Chip & Seal Good
Rail: None n.a.
Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.7	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/6/2008
Est Remain Life (yr): 20
Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0230



Looking West



South End



North End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0230

IDENTIFICATION

Location: C.R. 500 N - 1200' EAST OF C.R. 650 E
Stream Name: **Township:** DELAWARE
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 6	Drain Area (acres): 25
Structure Type: Steel Beam Encased	Span / Height (ft): 6.0 / 1.0
Skew (deg): 0	Approx Cover (ft): .5
Culvert Length (ft): 24	Roadway Width (ft): 19.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Fair, minor efflorescence
Superstructure: Steel Beam Encased	Good, light rust
Substructure: Concrete	Good
Channel: None	n.a.
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Fair, cracked
Rail: None	n.a.
Load Rating: H20	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.2	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/6/2008
Est Remain Life (yr): 25
Remarks: North wall collapsed.

Hwy Note 1:	
Hwy Note 2:	

Small Bridge No. 0231



Looking West



Looking North



Inside

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0231

IDENTIFICATION

Location: C.R. 500 N - 780' EAST OF C.R. 650 E
Stream Name: **Township:** DELAWARE
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 24	Drain Area (acres): 617
Structure Type: Steel Beam	Span / Height (ft): 6.8 / 3.5
Skew (deg): 0	Approx Cover (ft): .2
Culvert Length (ft): 30	Roadway Width (ft): 19.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Fair, minor spalling
Superstructure: Steel Beam	Fair, moderate rust
Substructure: Concrete	Good
Channel: Grass	Good
Headwall: Concrete	Heavy spalling southwest
Culvert: n.a.	n.a.
Road: Chip & Seal	Fair, moderate cracks
Rail: None	n.a.
Load Rating: H17	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s.	3.8	\$38
Safety-GR:		
Replace:		
Road/Shld: Add fill at shoulders	2	\$240
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/6/2008
Est Remain Life (yr): 10
Remarks: Beams are under-sized.

Hwy Note 1:	
Hwy Note 2:	

Small Bridge No. 0234



Looking West



North End



South End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0234

IDENTIFICATION

Location: C.R. 500 N - 400' EAST OF REYNARD RD
Stream Name: **Township:** DELAWARE
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 14 **Drain Area (acres):** 38
Structure Type: Reinforced Concrete Slab **Span / Height (ft):** 8.0 / 1.7
Skew (deg): 0 **Approx Cover (ft):** 0.9
Culvert Length (ft): 20 **Roadway Width (ft):** 16.0
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: Grass	Good, needs dredged
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Fair, cracked, sinkhole southwest
Rail: None	n.a.
Load Rating: H20	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.3	\$38
Safety-GR:		
Replace:		
Road/Shld: Fill sinkhole at SW corner	3	\$10
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/6/2008
Est Remain Life (yr): 40
Remarks: Ditch needs cleaned.

Hwy Note 1:	
Hwy Note 2:	

Small Bridge No. 0313



Looking South



West End



East End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0313

IDENTIFICATION

Location: C.R. 200 W - 1850' SOUTH OF C.R. 1000 N
Stream Name: **Township:** UNION
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 16 **Drain Area (acres):** 247
Structure Type: Reinforced Concrete Slab **Span / Height (ft):** 8.2 / 2.0
Skew (deg): 0 **Approx Cover (ft):** 0.5
Culvert Length (ft): 20 **Roadway Width (ft):** 15.0
No of Spans/Barrels: 1 **Wearing Surface:** Cold Mix

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Good
Superstructure: Reinforced Concrete Slab	Good
Substructure: Concrete	Good
Channel: None	n.a.
Headwall: Concrete	Fair, spalled
Culvert: n.a.	n.a.
Road: Cold Mix	Good
Rail: None	n.a.
Load Rating: H20	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.2	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/31/2008
Est Remain Life (yr): 35
Remarks:

Hwy Note 1:	
Hwy Note 2:	

Small Bridge No. 0321



Looking West



Looking South



Looking North

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0321

IDENTIFICATION

Location: C.R. 900 N - 260' WEST OF C.R. 300 W
Stream Name: **Township:** WASHINGTON
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 16 **Drain Area (acres):** 84
Structure Type: Reinforced Concrete Slab **Span / Height (ft):** 6.1 / 2.7
Skew (deg): 0 **Approx Cover (ft):** 0.5
Culvert Length (ft): 27 **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: Reinforced Concrete Slab	Good
Substructure: Concrete	Minor cracks
Channel: None	n.a.
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Fair, rough
Rail: Concrete	Not current standards
Load Rating: H20	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.8	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/28/2008
Est Remain Life (yr): 40
Remarks: Field tile under culvert

Hwy Note 1:	
Hwy Note 2:	

Small Bridge No. 0340



Looking North



Looking West



Looking East

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0340

IDENTIFICATION

Location: WALNUT ST - 390' NORTH OF CR 800 N
Stream Name: **Township:** UNION
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 52 **Drain Area (acres):** 2750
Structure Type: Multi Plate Pipe Arch **Span / Height (ft):** 9.0 / 7.0
Skew (deg): 0 **Approx Cover (ft):** 2.5
Culvert Length (ft): 34 **Roadway Width (ft):** 20.0
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: n.a. n.a.
Superstructure: n.a. n.a.
Substructure: n.a. n.a.
Channel: Grass Good
Headwall: Stone Good
Culvert: Multi Plate Pipe Arch Good
Road: Chip & Seal Good, minor cracks
Rail: None n.a.
Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.5	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/28/2008
Est Remain Life (yr): 40
Remarks: 2 delineators in place.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0355



Looking West



Looking South



Looking North

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0355

IDENTIFICATION

Location: C.R. 800 N - 550' WEST OF WALNUT ST
Stream Name: **Township:** UNION
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 12 **Drain Area (acres):** 21
Structure Type: Steel Beam Encased **Span / Height (ft):** 6.0 / 2.0
Skew (deg): 0 **Approx Cover (ft):** 0.2
Culvert Length (ft): 27 **Roadway Width (ft):** 19.0
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete Good, spalling at edges
Superstructure: Steel Beam Encased Good, light rust
Substructure: Concrete Good
Channel: Grass Good
Headwall: Concrete Fair, spalled
Culvert: n.a. n.a.
Road: Chip & Seal Good
Rail: None n.a.
Load Rating: H18

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.6	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/28/2008
Est Remain Life (yr): 20
Remarks: 1 delineator in place.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0359



Looking West



Looking North



Looking South

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0359

IDENTIFICATION

Location: C.R. 800 N - 920' EAST OF C.R. 175 E
Stream Name: **Township:** HAMILTON
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 26 **Drain Area (acres):** 555
Structure Type: Reinforced concrete Slab **Span / Height (ft):** 8.8 / 3.0
Skew (deg): 0 **Approx Cover (ft):** 1.0
Culvert Length (ft): 26 **Roadway Width (ft):** 17.0
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Good
Superstructure: Reinforced Concrete Slab	Good, heavy spalling in one spot
Substructure: Concrete	Good
Channel: None	n.a.
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Fair, rough
Rail: Concrete	Not current
Load Rating: H20	

PROPOSED IMPROVEMENTS

Description

Priority

Cost

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

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/28/2008
Est Remain Life (yr): 30
Remarks: 2 OM3s in place. Farm field below culvert.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0363



Looking North



East End



West End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0363

IDENTIFICATION

Location: C.R. 100 W - 1435' NORTH OF C.R. 750 N
Stream Name: **Township:** HAMILTON
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 23 **Drain Area (acres):** 161
Structure Type: Aluminum Box Culvert **Span / Height (ft):** 10.0 / 2.8
Skew (deg): 0 **Approx Cover (ft):** 1.5
Culvert Length (ft): 30 **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: Aluminum Plate	Good
Channel: None	n.a.
Headwall: None	n.a.
Culvert: Aluminum Box Culvert	Good
Road: Chip & Seal	Rough
Rail: None	n.a.
Load Rating: H20	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s.	3.7	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/28/2008
Est Remain Life (yr): 60
Remarks:

Hwy Note 1:	
Hwy Note 2:	

Small Bridge No. 0364



Looking South



Looking East



Looking West



Slab Bottom

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0364

IDENTIFICATION

Location: C.R. 200 E - 2545' SOUTH OF C.R. 800 N
Stream Name: **Township:** HAMILTON
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 23	Drain Area (acres): 332
Structure Type: Steel Beam Encased	Span / Height (ft): 10.0 / 2.3
Skew (deg): 0	Approx Cover (ft): 0.3
Culvert Length (ft): 23	Roadway Width (ft): 18.0
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Poor, spalled
Superstructure: Steel Beam Encased	Poor, moderate to heavy rust, spalling
Substructure: Concrete	Fair, few major cracks
Channel: None	n.a.
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Good
Rail: None	n.a.
Load Rating: H17	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Add SE OM2	3.2	\$19
Safety-GR:		
Replace: Replace structure	4	\$23,600
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/28/2008
Est Remain Life (yr): 7
Remarks: 1 OM3 in place.

Hwy Note 1:	
Hwy Note 2:	

Small Bridge No. 0411



Looking South



Looking East



Looking West

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0411

IDENTIFICATION

Location: NEBO RD - 2630' SOUTH OF SR 28
Stream Name: **Township:** HARRISON
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 16	Drain Area (acres):
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 8.0 / 2.0
Skew (deg): 0	Approx Cover (ft): 0.5
Culvert Length (ft): 22	Roadway Width (ft): 17.0
No of Spans/Barrels: 1	Wearing Surface: Cold Mix

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Fair, light to moderate spalling
Superstructure: Reinforced Concrete Slab	Fair, light to moderate spalling
Substructure: Concrete	Fair, cracks
Channel: Wooded	Swampy
Headwall: None	n.a.
Culvert: n.a.	n.a.
Road: Cold Mix	Good
Rail: None	n.a.
Load Rating: H20	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	1	\$0

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/25/2008
Est Remain Life (yr): 20
Remarks: Vegetation hides OM3s. 2 OM3s in place.

Hwy Note 1:	
Hwy Note 2:	

Small Bridge No. 0445



Looking West



South End



North End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0445

IDENTIFICATION

Location: C.R. 900 N - 3005' WEST OF WHEELING
Stream Name: **Township:** WASHINGTON
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 12 **Drain Area (acres):**
Structure Type: Reinforced Concrete Slab **Span / Height (ft):** 6.2 / 2.0
Skew (deg): 0 **Approx Cover (ft):** 0.5
Culvert Length (ft): 23 **Roadway Width (ft):** 14.0
No of Spans/Barrels: 1 **Wearing Surface:** Cold Mix

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Good
Superstructure: Reinforced Concrete Slab	Good
Substructure: Concrete	Good
Channel: None	n.a.
Headwall: Concrete	Good, minor spalling
Culvert: n.a.	n.a.
Road: Cold Mix	Good
Rail: None	n.a.
Load Rating: H20	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.6	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/31/2008
Est Remain Life (yr): 35
Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0532



Looking South



West End



East End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0532

IDENTIFICATION

Location: C.R. 675 W - 2320' SOUTH OF SR 28
Stream Name: **Township:** HARRISON
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 16 **Drain Area (acres):**
Structure Type: Corrugated Metal Pipe **Span / Height (ft):** 4.5 / 4.5
Skew (deg): 0 **Approx Cover (ft):** 3.0
Culvert Length (ft): 30 **Roadway Width (ft):** 15.5
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: n.a. n.a.
Superstructure: n.a. n.a.
Substructure: n.a. n.a.
Channel: Grass Good
Headwall: Concrete Good
Culvert: Corrugated Metal Pipe Fair, light to moderate rust
Road: Chip & Seal Fair, rough
Rail: Steel Tube Inadequate
Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.8	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/25/2008
Est Remain Life (yr): 20
Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0556



Looking East



Looking North



Looking South

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0556

IDENTIFICATION

Location: C.R. 500 N - 1995' N & E OF BETHEL

Stream Name:

Township: HARRISON

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 6

Drain Area (acres): 9

Structure Type: Reinforced Concrete Slab

Span / Height (ft): 6.0 / 1.0

Skew (deg): 0

Approx Cover (ft): 0.5

Culvert Length (ft): 20

Roadway Width (ft): 15.5

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete

Good

Superstructure: Reinforced Concrete Slab

Good

Substructure: Concrete

Good

Channel: Grass

Good

Headwall: Concrete

Spalled

Culvert: n.a.

n.a.

Road: Chip & Seal

Good

Rail: None

n.a.

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs: Place OM2s

3.4

\$38

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 7/25/2008

Est Remain Life (yr): 30

Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0665



Looking West



North End



South End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0665

IDENTIFICATION

Location: MCGALLIARD RD - 610' EAST OF C.R. 333 E
Stream Name: **Township:** LIBERTY
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 2008

STRUCTURE INFORMATION

Waterway Open (sqft): 18 **Drain Area (acres):** 102
Structure Type: Alum Box Culvert **Span / Height (ft):** 8.7 / 2.5
Skew (deg): 0 **Approx Cover (ft):** 2.0
Culvert Length (ft): 26 **Roadway Width (ft):** 17.0
No of Spans/Barrels: 1 **Wearing Surface:** Bituminous

CONDITION

MATERIAL

CONDITION

Deck: - -
Superstructure: - -
Substructure: Aluminum Plate Good
Channel: Grass / Riprap Good
Headwall: None n.a.
Culvert: Alum Box Culvert Good
Road: Bituminous Good
Rail: None n.a.
Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s.	3.2	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 9/23/2008
Est Remain Life (yr): 50
Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0749



Looking South



Looking West



West End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0749

IDENTIFICATION

Location: C.R. 400 E - 1220' SOUTH OF SR 32

Stream Name:

Township:

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 34

Drain Area (acres): 580

Structure Type: Elliptical Corr Metal Pipe

Span / Height (ft): 7.3 / 6.0

Skew (deg): 0

Approx Cover (ft): 1.5

Culvert Length (ft): 40

Roadway Width (ft): 18.0

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

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: Elliptical Corr Metal Pipe

Good, crown sags at mid-point

Road: Chip & Seal

Fair, light cracks

Rail: Steel W-shaped east

Inadequate posts

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs: Add NW OM3

3.8

\$28

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 8/13/2008

Est Remain Life (yr): 25

Remarks: 1 OM3 in place.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0777



Looking North



East End



West End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0777

IDENTIFICATION

Location: C.R. 700 E - 1440' SOUTH of C.R. 50 S

Stream Name:

Township:

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 40

Drain Area (acres): 198

Structure Type: Reinforced Concrete Slab

Span / Height (ft): 10.0 / 4.0

Skew (deg): 40

Approx Cover (ft): 0.2

Culvert Length (ft): 24

Roadway Width (ft): 17.0

No of Spans/Barrels: 1

Wearing Surface: Bituminous

CONDITION

MATERIAL

CONDITION

Deck: Concrete

Fair, moderate spalling in spots

Superstructure: Reinforced Concrete Slab

Fair, moderate spalling in spots

Substructure: Concrete

Fair, moderate to heavy spalling

Channel: Grass

Good

Headwall: Concrete

Good

Culvert: n.a.

n.a.

Road: Bituminous

Good

Rail: Steel W-shaped

Good

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs:

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 8/13/2008

Est Remain Life (yr): 30

Remarks: 2 OM2s in place.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0781



Looking West



South End



North End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0781

IDENTIFICATION

Location: MEMORIAL DR - 3610' WEST OF C.R. 400 E

Stream Name:

Township: LIBERTY

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 31

Drain Area (acres): 13

Structure Type: Aluminum Box Culvert

Span / Height (ft): 10.5 / 3.9

Skew (deg): 0

Approx Cover (ft): 1.5

Culvert Length (ft): 27

Roadway Width (ft): 20.0

No of Spans/Barrels: 1

Wearing Surface: Bituminous

CONDITION

MATERIAL

CONDITION

Deck: -

-

Superstructure: -

-

Substructure: Aluminum Plate

Good

Channel: none

n.a.

Headwall: Aluminum

Good

Culvert: Aluminum Box Culvert

Good

Road: Bituminous

Good

Rail: Steel W-shaped

Good

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs: Place OM2s

3.5

\$38

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 8/6/2008

Est Remain Life (yr): 50

Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0793



Looking West



Looking North



Inside

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0793

IDENTIFICATION

Location: Smithfield Road - 400' EAST of 550 E
Stream Name: **Township:**
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 17 **Drain Area (acres):** 310
Structure Type: Corrugated Metal Pipe Arch **Span / Height (ft):** 5.7 / 4.4
Skew (deg): 30 **Approx Cover (ft):** 1.0
Culvert Length (ft): 40 **Roadway Width (ft):** 20.0
No of Spans/Barrels: 2 **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: Corrugated Metal Pipe Arch Fair, moderate rust
Road: Bituminous Good
Rail: Steel W-shaped Good
Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Add SW OM3	3.3	\$28
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	1	\$0

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/3/2008
Est Remain Life (yr): 15
Remarks: NE OM3 in place.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0795



Looking West



South End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0795

IDENTIFICATION

Location: C.R. 125 S - 2840' EAST OF C.R. 700 E
Stream Name: **Township:** LIBERTY
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 26 **Drain Area (acres):** 62
Structure Type: Aluminum Box Culvert **Span / Height (ft):** 11.5 / 3.0
Skew (deg): 40 **Approx Cover (ft):** 1.5
Culvert Length (ft): 40 **Roadway Width (ft):** 15.0
No of Spans/Barrels: 1 **Wearing Surface:** Bituminous

CONDITION

MATERIAL

CONDITION

Deck: n.a.	n.a.
Superstructure: n.a.	n.a.
Substructure: Aluminum Plate	Good
Channel: Grass / Riprap	Good
Headwall: None	n.a.
Culvert: Aluminum Box Culvert	Good
Road: Bituminous	Good
Rail: Steel W-shaped	Good
Load Rating: H20	

PROPOSED IMPROVEMENTS

Description

Priority

Cost

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

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/13/2008
Est Remain Life (yr): 50
Remarks: 2 OM3s in place.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0811



Looking West



North End



South End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0811

IDENTIFICATION

Location: Smithfield Road - 510' EAST of 600 E

Stream Name:	Township:
ADT:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 113	Drain Area (acres): 897
Structure Type: Multi Plate Pipe Arch	Span / Height (ft): 15.7 / 9.8
Skew (deg): 05	Approx Cover (ft): 2.0
Culvert Length (ft): 45	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	Overgrown, winding
Headwall: None	n.a.
Culvert: Multi Plate Pipe Arch	Good, light rust
Road: Bituminous	Good
Rail: Steel W-shaped	Good
Load Rating: H20	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.2	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	1	\$0

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/13/2008

Est Remain Life (yr): 35

Remarks: 1 worn OM3 in place.

Hwy Note 1:	
Hwy Note 2:	

Small Bridge No. 0822



Looking East



Looking North



North Coping



Bottom



West Abutment



East Abutment

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0822

IDENTIFICATION

Location: Stanely Road - 1440' EAST of C.R. 700 E

Stream Name:	Township:
ADT:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 78	Drain Area (acres): 589
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 13.0 / 6.0
Skew (deg): 45	Approx Cover (ft): 0.5
Culvert Length (ft): 25	Roadway Width (ft): 13.0
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 & rust
Substructure: Concrete	Poor, heavy spalling
Channel: Natural	Meandering, overgrown
Headwall: Concrete	Poor, heavily spalled
Culvert: n.a.	n.a.
Road: Chip & Seal	Poor, rough
Rail: None	n.a.
Load Rating: H10	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Post 10 Ton Weight Limit. Add 3 OM3s.	1	\$147
Safety-GR:		
Replace: Replace structure	3	\$74,000
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/13/2008

Est Remain Life (yr): 4

Remarks: 1 OM3 in place. Recommend 24-month reinspection.

Hwy Note 1:	
Hwy Note 2:	

Small Bridge No. 0858



Looking South



East End



Inside

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0858

IDENTIFICATION

Location: C.R. 750 E - 5060' NORTH of C.R. 400 S

Stream Name:	Township:
ADT:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 33	Drain Area (acres): 521
Structure Type: Corrugated Metal Pipe	Span / Height (ft): 6.5 / 6.5
Skew (deg): 05	Approx Cover (ft): 1.0
Culvert Length (ft): 50	Roadway Width (ft): 12.0
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: Corrugated Metal Pipe	Fair, light rust, 90 degree elbow
Road: Chip & Seal	Fair, rough
Rail: None	n.a.
Load Rating: H20	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.5	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/13/2008

Est Remain Life (yr): 25

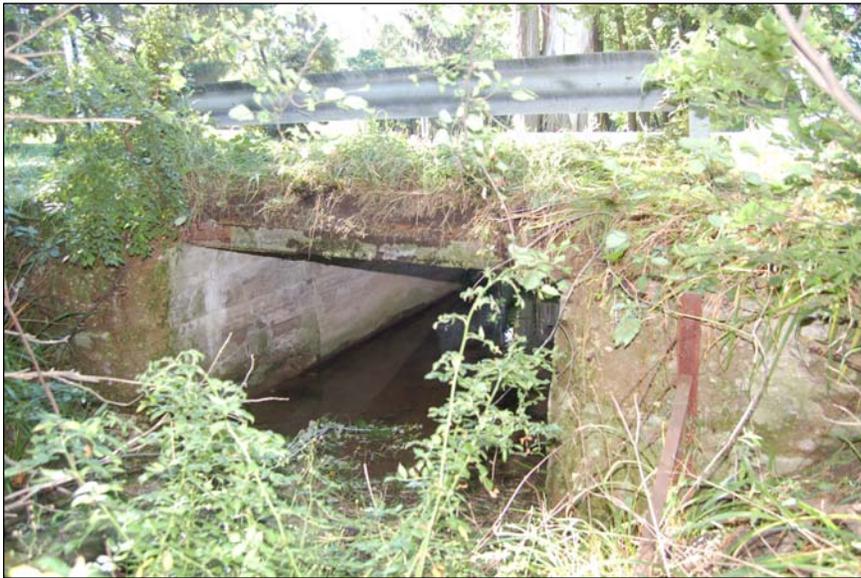
Remarks: Standing water in pipe. 1.0' of silt in pipe.

Hwy Note 1:	
Hwy Note 2:	

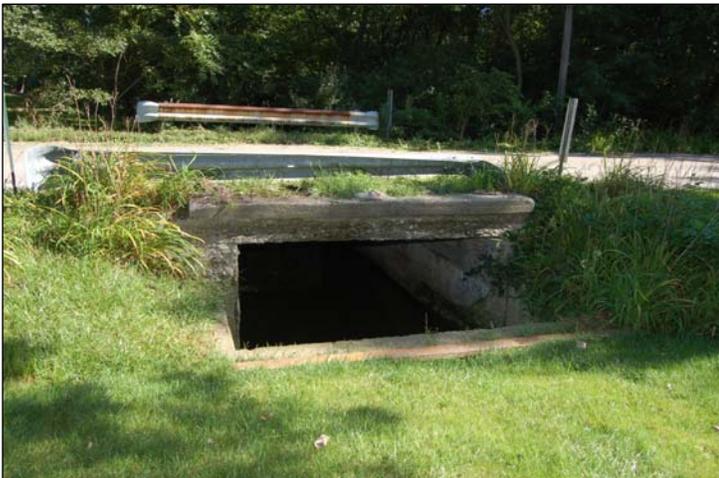
Small Bridge No. 0878



Looking East



North End



Looking North



Slab Bottom

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0878

IDENTIFICATION

Location: BURLINGTON DRIVE - 3380' W OF C.R. 400 E
Stream Name: **Township:** PERRY
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 41 **Drain Area (acres):** 270
Structure Type: Steel Beam Encased **Span / Height (ft):** 9.0 / 4.6
Skew (deg): 0 **Approx Cover (ft):** 0.5
Culvert Length (ft): 24 **Roadway Width (ft):** 17.0
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Fair, moderate to heavy efflorescence
Superstructure: Steel Beam Encased	Fair, heavy rust on outside beams
Substructure: Concrete	Poor, heavily cracked
Channel: Natural	Overgrown
Headwall: Concrete	Fair, moderate spalling
Culvert: n.a.	n.a.
Road: Chip & Seal	Good
Rail: Steel W-shaped	Failed south
Load Rating: H16	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Add NW OM3	3.3	\$28
Safety-GR: Replace south guard rail	4.3	\$1,800
Replace: Replace structure	4	\$25,000
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/6/2008
Est Remain Life (yr): 8
Remarks: 3 OM3s in place. Recommend 48-month reinspection schedule.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0937



Looking North



Looking West



Looking East

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0937

IDENTIFICATION

Location: STICK CITY RD - 410' SOUTH OF WALNUT ST

Stream Name:

Township: MONROE

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 28

Drain Area (acres): 352

Structure Type: Corrugated Metal Pipe

Span / Height (ft): 6.0 / 6.0

Skew (deg): 20

Approx Cover (ft): 1.0

Culvert Length (ft): 40

Roadway Width (ft): 13.5

No of Spans/Barrels: 1

Wearing Surface: Bituminous

CONDITION

MATERIAL

CONDITION

Deck: -

-

Superstructure: -

-

Substructure: -

-

Channel: Natural

Good

Headwall: None

n.a.

Culvert: Corrugated Metal Pipe

Good, light rust

Road: Bituminous

Good

Rail: None

n.a.

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs: Place OM2s

3.8

\$38

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 7/24/2008

Est Remain Life (yr): 40

Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 0940



Looking South



Looking Southeast



Looking Northwest



Bottom, West Side



South West Abutment Movement

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 0940

IDENTIFICATION

Location: WALNUT ST. - 1200' NORTH OF OLD SR 3
Stream Name: **Township:** MONROE
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 45 **Drain Area (acres):** 497
Structure Type: Steel Beam Encased **Span / Height (ft):** 9.0 / 5.0
Skew (deg): 45 **Approx Cover (ft):** 1.5
Culvert Length (ft): 40 **Roadway Width (ft):** 22.0
No of Spans/Barrels: 1 **Wearing Surface:** Bituminous

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Fair, large cracks, solid
Superstructure: Steel Beam Encased	Fair, cracks, efflorescence
Substructure: Concrete	Poor, cracked, settled at SW
Channel: Natural	Good
Headwall: Concrete/Timber NW	Good
Culvert: -	-
Road: Bituminous	Good
Rail: Steel W-shaped west	Good
Load Rating: H20 - presumed	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place 3 OM3s	4.8	\$57
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/24/2008
Est Remain Life (yr): 15

Remarks: Unable to measure steel beams. 1 OM3 in place. Widened on west with concrete channel beams and steel beams.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1006



Looking South



Looking West



Looking East

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1006

IDENTIFICATION

Location: C.R. 300 W - 1645' NORTH OF C.R. 700 S
Stream Name: **Township:** SALEM/MONROE
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 12	Drain Area (acres):
Structure Type: Concrete Box	Span / Height (ft): 4.2 / 2.8
Skew (deg): 0	Approx Cover (ft): 0.5
Culvert Length (ft): 26	Roadway Width (ft): 19.0
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: Grass	Good
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Bituminous	New
Rail: None	n.a.
Load Rating: H20	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Add NW & SW OM3s	3.4	\$56
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/24/2008
Est Remain Life (yr): 30
Remarks: 2 OM3's in place.

Hwy Note 1:	
Hwy Note 2:	

Small Bridge No. 1042



Looking West



West End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1042

IDENTIFICATION

Location: C.R. 400 W - 1800' SOUTH of 700 S

Stream Name:	Township:
ADT:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 101	Drain Area (acres): 1168
Structure Type: Alum Multi Plate Pipe Arch	Span / Height (ft): 14.5 / 9.0
Skew (deg): 10	Approx Cover (ft): 1.5
Culvert Length (ft): 40	Roadway Width (ft): 14.0
No of Spans/Barrels: 1	Wearing Surface: Cold Mix

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: Alum Multi Plate Pipe Arch	Good
Road: Cold Mix	Good
Rail: Steel W-shaped	Good
Load Rating: H20	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld:		
Other: Clear vegetation	1	\$0

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/26/2008

Est Remain Life (yr): 50

Remarks: 2 OM2s in place

Hwy Note 1:	
Hwy Note 2:	

Small Bridge No. 1056



Looking West



Looking South



Looking North

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1056

IDENTIFICATION

Location: C.R. 775 S - 1300' WEST OF OLD RD

Stream Name:

Township: MONROE

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 14

Drain Area (acres): 51

Structure Type: Corrugated Metal Pipe Arch Span / Height (ft): 5.0 / 3.8

Skew (deg): 0

Approx Cover (ft): 1.0

Culvert Length (ft): 40

Roadway Width (ft): 20.0

No of Spans/Barrels: 1

Wearing Surface: Bituminous

CONDITION

MATERIAL

CONDITION

Deck: -

-

Superstructure: -

-

Substructure: -

-

Channel: Hay / Riprap

Good

Headwall: None

n.a.

Culvert: Corrugated Metal Pipe Arch

Good

Road: Bituminous

Good, hole in NW shoulder

Rail: None

n.a.

Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place 3 OM2s	3.4	\$57
Safety-GR:		
Replace:		
Road/Shld: Fill NW shoulder	2	\$120
Other:		

MISC INFORMATION

Inspected by: LJR

Inspection Date: 7/24/2008

Est Remain Life (yr): 40

Remarks: 1 OM2 in place.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1087



Looking North



Looking West



Looking East

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1087

IDENTIFICATION

Location: C.R. 925 W - 1145' NORTH OF C.R. 300 N
Stream Name: **Township:** HARRISON
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 24 **Drain Area (acres):**
Structure Type: Timber Box **Span / Height (ft):** 6.0 / 4.0
Skew (deg): 0 **Approx Cover (ft):** 1.0
Culvert Length (ft): 30 **Roadway Width (ft):** 14.0
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Timber Good
Superstructure: Timber Slab Good
Substructure: Timber walls & floor Good
Channel: Grass Good
Headwall: Timber Good
Culvert: - -
Road: Chip & Seal Fair
Rail: Timber Good
Load Rating: H20 - presumed

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.3	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/25/2008
Est Remain Life (yr): 40
Remarks: 12" silt in bottom of culvert. Unable to measure timber members.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1140



Looking West



South End



North End



Bottom of Slab



Inside, Looking South

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1140

IDENTIFICATION

Location: C.R. 150 N/JACKSON ST - JUST E OF JACKSON ST
Stream Name: **Township:** MT. PLEASANT
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 18 **Drain Area (acres):**
Structure Type: Steel Beam Encased **Span / Height (ft):** 6.0 / 3.0
Skew (deg): 0 **Approx Cover (ft):** .3
Culvert Length (ft): 28 **Roadway Width (ft):** 18.0
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Fair, moderate to heavy spalling
Superstructure: Steel Beam Encased	Poor, heavy to moderate rust
Substructure: Concrete	Fair, light spalling
Channel: None	n.a.
Headwall: Concrete	Fair, spalled
Culvert: -	-
Road: Chip & Seal	Good
Rail: None	n.a.
Load Rating: H18	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace: Replace structure	3	\$23,600
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/25/2008
Est Remain Life (yr): 5
Remarks: Recommend 24-month inspection cycle.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1162



Looking West



North End



South End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1162

IDENTIFICATION

Location: C.R. 100 N - 845' WEST OF C.R. 850 W
Stream Name: **Township:** MT. PLEASANT
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 9 **Drain Area (acres):**
Structure Type: Concrete Box **Span / Height (ft):** 6.0 / 1.5
Skew (deg): 0 **Approx Cover (ft):** .5
Culvert Length (ft): 20 **Roadway Width (ft):** 14.5
No of Spans/Barrels: 1 **Wearing Surface:** Cold Mix

CONDITION

MATERIAL

CONDITION

Deck: Concrete Good
Superstructure: Reinforced Concrete Slab Good, spalled at edges
Substructure: Concrete Fair, minor spalling
Channel: Grass Good
Headwall: Concrete Fair, spalled
Culvert: - -
Road: Cold Mix Good
Rail: None n.a.
Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.2	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/25/2008
Est Remain Life (yr): 25
Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1173



Looking West



South End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1173

IDENTIFICATION

Location: DIVISION RD - 1730' WEST OF C.R. 725 W

Stream Name:

Township: MT. PLEASANT

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 3

Drain Area (acres):

Structure Type: Concrete

Span / Height (ft): 6.0 / 0.5

Skew (deg): 0

Approx Cover (ft): .5

Culvert Length (ft): 20

Roadway Width (ft): 14.0

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete

Unknown, inaccessible

Superstructure: Concrete

Unkonwn, inaccessible

Substructure: Concrete

Unknown, inaccessible.

Channel: None

n.a.

Headwall: Concrete

Good

Culvert: -

-

Road: Chip & Seal

Fair, cracked

Rail: None

n.a.

Load Rating: H20 - presumed

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM3s	3.2	\$56
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR

Inspection Date: 7/25/2008

Est Remain Life (yr): 20

Remarks: 17.8' between concrete walls. May want to consider posting "One Lane Bridge".

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1230



Looking South



West End



East End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1230

IDENTIFICATION

Location: C.R. 600 E - 3170' N OF C.R. 1200 N.

Stream Name:	Township: NILES
ADT:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 25	Drain Area (acres):
Structure Type: Reinforced Concrete Slab	Span / Height (ft): 6.3 / 4.0
Skew (deg): 25	Approx Cover (ft): 0.5
Culvert Length (ft): 22	Roadway Width (ft): 12.0
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: Grass	Good
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Good, narrow
Rail: None	n.a.
Load Rating: H20	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld: Add fill at SW corner	2	\$120
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/31/2008

Est Remain Life (yr): 40

Remarks: 17.0' between concrete headwalls. May want to consider posting "One Lane". 2 OM3s in place.

Hwv Note 1:	
Hwv Note 2:	

Small Bridge No. 1370



Looking South



East End



West End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1370

IDENTIFICATION

Location: C.R. 600 E - 1050' NORTH OF C.R. 500 S

Stream Name:

Township: PERRY

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 68

Drain Area (acres): 2221

Structure Type: Multi Plate Pipe Arch

Span / Height (ft): 11.7 / 7.3

Skew (deg): 0

Approx Cover (ft): 1.0

Culvert Length (ft): 35

Roadway Width (ft): 14.0

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: n.a.

n.a.

Superstructure: n.a.

n.a.

Substructure: n.a.

n.a.

Channel: Natural

Good

Headwall: Some Sheet Pile

Good

Culvert: Multi Plate Pipe Arch

Good

Road: Chip & Seal

Fair, rough

Rail: Steel W-shaped

Fair, bent

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs: Place OM2s

3.9

\$38

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 8/7/2008

Est Remain Life (yr): 30

Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1377



Looking West



North End



South End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1377

IDENTIFICATION

Location: C.R. 500 S - 290' WEST of C.R. 800 E
Stream Name: **Township:**
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 31 **Drain Area (acres):** 367
Structure Type: Aluminum Box Culvert **Span / Height (ft):** 10.5 / 3.5
Skew (deg): 05 **Approx Cover (ft):** 1.5
Culvert Length (ft): 31 **Roadway Width (ft):** 15.5
No of Spans/Barrels: 1 **Wearing Surface:** Bituminous

CONDITION

MATERIAL

CONDITION

Deck: n.a. n.a.
Superstructure: n.a. n.a.
Substructure: Aluminum Plate Good
Channel: Grass / Riprap Good
Headwall: None n.a.
Culvert: Aluminum Box Culvert Good
Road: Bituminous Good
Rail: None n.a.
Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.3	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/13/2008
Est Remain Life (yr): 50
Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1412



Looking North



West End



Interior – NE Corner



East End



Plate

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1412

IDENTIFICATION

Location: C.R. 600 E - 150' NORTH of C.R. 600 S

Stream Name:

Township:

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 30

Drain Area (acres): 199

Structure Type: Corrugated Metal Pipe

Span / Height (ft): 5.0 / 6.0

Skew (deg): 0

Approx Cover (ft): 1.0

Culvert Length (ft): 27

Roadway Width (ft): 12.5

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: n.a.

n.a.

Superstructure: n.a.

n.a.

Substructure: Concrete

Poor, failed at north-mid point

Channel: Natural

Good

Headwall: Concrete

Good, cracked

Culvert: Corrugated Metal Pipe

Fair, heavy rust in spots

Road: Chip & Seal

Fair

Rail: None

n.a.

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs: Place OM2s

3.9

\$38

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 8/13/2008

Est Remain Life (yr): 10

Remarks: Existing repairs will extend life.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1419



Looking East



Looking South



Southwest Corner



Northwest Abutment



Looking North

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1419

IDENTIFICATION

Location: C.R. 600 S - 1850' EAST OF C.R. 560 E
Stream Name: **Township:** PERRY
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 68 **Drain Area (acres):** 233
Structure Type: Reinforced Concrete Slab **Span / Height (ft):** 8.5 / 8.0
Skew (deg): 0 **Approx Cover (ft):** 1.0
Culvert Length (ft): 34 **Roadway Width (ft):** 17.5
No of Spans/Barrels: 1 **Wearing Surface:** Bituminous

CONDITION

MATERIAL

CONDITION

Deck: Concrete Good, light spalling & rust
Superstructure: Reinforced Concrete Slab Good, light spalling & rust
Substructure: Concrete Poor, spall & undermined NW, toe moved in
Channel: Grass Good
Headwall: Concrete Poor, cracked & spalled
Culvert: n.a. n.a.
Road: Bituminous Good
Rail: Misc. Concrete & Steel Leaning & failed north
Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM3s	3.9	\$56
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/7/2008
Est Remain Life (yr): 10
Remarks: Shoulder area of bridge is a Steel Beam Encased Bridge in poor condition.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1426



Looking South



West End



East End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1426

IDENTIFICATION

Location: C.R. 600 E - 860' SOUTH OF C.R. 600 S
Stream Name: **Township:** PERRY
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 8 **Drain Area (acres):** 14
Structure Type: Steel Beam Encased **Span / Height (ft):** 8.0 / 1.0
Skew (deg): 45 **Approx Cover (ft):** .5
Culvert Length (ft): 22 **Roadway Width (ft):** 13.5
No of Spans/Barrels: 1 **Wearing Surface:** Bituminous

CONDITION

MATERIAL

CONDITION

Deck: Concrete Good, spalled at edges
Superstructure: Steel Beam Encased Good, but heavy spalling at edges
Substructure: Concrete Poor, spalled
Channel: Grass Good
Headwall: Concrete Spalled
Culvert: n.a. n.a.
Road: Bituminous Good
Rail: Steel W-shaped Inadequate posts
Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.4	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/6/2008
Est Remain Life (yr): 10
Remarks: Railroad rails used for beams.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1427



Looking North



South Abutment Wall



Looking East



Looking West

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1427

IDENTIFICATION

Location: C.R. 300 E - 1890' NORTH OF C.R. 650 S
Stream Name: **Township:** PERRY
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 14 **Drain Area (acres):**
Structure Type: Concrete Box **Span / Height (ft):** 4.0 / 3.5
Skew (deg): 0 **Approx Cover (ft):** .5
Culvert Length (ft): 27 **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
Substructure: Concrete Fair, south wall heavily cracked
Channel: Grass Good
Headwall: Concrete Good
Culvert: n.a. n.a.
Road: Chip & Seal Fair, rough
Rail: None n.a.
Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.8	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/24/2008
Est Remain Life (yr): 15
Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1434



Looking East



Looking South



Beam # 1 (from south)



Beam # 3 (from south)



Beam # 9 (from south)

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1434

IDENTIFICATION

Location: C.R. 650 S - 1400' WEST OF C.R. 461 E
Stream Name: **Township:** PERRY
ADT: **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 **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 corrosion, holes in 5 beams
Substructure: Concrete Good
Channel: Natural Overgrown, straight
Headwall: Concrete Cracked & leaning
Culvert: n.a. n.a.
Road: Bituminous Good
Rail: Steel W-shaped Good
Load Rating: H11

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Post "11 Ton Weight Limit".	1	\$60
Safety-GR:		
Replace: Replace structure	2	\$59,300
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/7/2008
Est Remain Life (yr): 3
Remarks: Recommend 12-month reinspection. Corrosion is progressing.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1452



Looking West



South End



North End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1452

IDENTIFICATION

Location: C.R. 700 S - 115' EAST OF C.R. 875 E

Stream Name:

Township: PERRY

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 14

Drain Area (acres): 259

Structure Type: Steel Beam Encased

Span / Height (ft): 6.0 / 2.3

Skew (deg): 45

Approx Cover (ft): .5

Culvert Length (ft): 28

Roadway Width (ft): 15.0

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete

Poor, heavily spalled

Superstructure: Steel Beam Encased

Poor, heavy spalling, moderate rust

Substructure: Concrete

Poor, heavy spalling

Channel: None

n.a.

Headwall: Concrete

Poor, spalled

Culvert: n.a.

n.a.

Road: Chip & Seal

Good

Rail: None

n.a.

Load Rating: H19

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.4	\$38
Safety-GR:		
Replace: Replace structure	4	\$23,600
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR

Inspection Date: 8/6/2008

Est Remain Life (yr): 7

Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1486



Looking South



Looking East

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1486

IDENTIFICATION

Location: C.R. 300 E - 610' NORTH OF C.R. 800 S
Stream Name: **Township:** MONROE/PERRY
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 16 **Drain Area (acres):** 47
Structure Type: Reinforced Concrete Slab **Span / Height (ft):** 16.5 / 1.0
Skew (deg): 0 **Approx Cover (ft):** 1.0
Culvert Length (ft): 20 **Roadway Width (ft):** 14.0
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Fair, spalled at edges
Superstructure: Reinforced Concrete Slab	Fair, heavy spalling at edges
Substructure: Concrete	Fair, moderate cracks
Channel: None	n.a.
Headwall: None	n.a.
Culvert: -	-
Road: Chip & Seal	Good
Rail: None	Failed, missing
Load Rating: H20	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM3s	3.2	\$56
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/24/2008
Est Remain Life (yr): 15
Remarks: 3' CMP parallels this small bridge.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1487



Looking North



Looking East



Looking West

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1487

IDENTIFICATION

Location: C.R. 775 E - 1010' NORTH OF C.R. 800 S
Stream Name: **Township:** PERRY
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 78 **Drain Area (acres):** 129
Structure Type: Reinforced Concrete Slab **Span / Height (ft):** 13.0 / 6.0
Skew (deg): 0 **Approx Cover (ft):** 1.0
Culvert Length (ft): 24 **Roadway Width (ft):** 15.0
No of Spans/Barrels: 1 **Wearing Surface:** Bituminous

CONDITION

MATERIAL

CONDITION

Deck: Concrete Good, light to moderate spalling in spots
Superstructure: Reinforced Concrete Slab Good, moderate efflorescence
Substructure: Concrete Good, minor cracks
Channel: Grass Good
Headwall: Concrete Light spalling
Culvert: n.a. n.a.
Road: Bituminous Good
Rail: Concrete Not standard
Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Replace OM2s	3.5	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/6/2008
Est Remain Life (yr): 20
Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1490



Looking North



West End



East End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1490

IDENTIFICATION

Location: C.R. 500 E - 240' NORTH of 800 S

Stream Name:

Township:

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 64

Drain Area (acres): 2502

Structure Type: Corrugated Metal Pipe Arch Span / Height (ft): 11.3 / 7.2

Skew (deg): 0

Approx Cover (ft): 1.0

Culvert Length (ft): 40

Roadway Width (ft): 14.0

No of Spans/Barrels: 2

Wearing Surface: Chip & Seal

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: Corrugated Metal Pipe Arch Good, inadequate cover

Road: Chip & Seal

Fair, rough

Rail: None

n.a.

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream: clear stream debris

5

\$0

Safety-Signs:

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 8/26/2008

Est Remain Life (yr): 40

Remarks: Parallel structure is 7' CMP. 1' of silt in pipe bottom.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1518



Looking East



Looking South



Looking North



South Beam



North Beam

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1518

IDENTIFICATION

Location: C.R. 800 S - 650' EAST OF C.R. 300 E

Stream Name:

Township: PERRY

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 63

Drain Area (acres): 426

Structure Type: Concrete Arch/Steel Beam

Span / Height (ft): 18.0 / 5.0

Skew (deg): 0

Approx Cover (ft): 1.0

Culvert Length (ft): 23

Roadway Width (ft): 14.0

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: n.a.

n.a.

Superstructure: Concrete Arch

Good, light to moderate spalling

Substructure: Concrete

Good

Channel: Wooded / Grass

Good

Headwall: Sheet Piling

Good

Culvert: -

-

Road: Chip & Seal

Fair, rough

Rail: Steel W-shaped

Failed

Load Rating: H10

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place barricades, close shoulders	1	\$100
Safety-GR:		
Replace: Replace shoulder beams	3	\$24,000
Road/Shld:		
Other: Clear vegetation	1	\$0

MISC INFORMATION

Inspected by: LJR

Inspection Date: 7/24/2008

Est Remain Life (yr): 5

Remarks: Steel beams support bridge shoulders. Outside steel beams have failed.
Posted 10 Ton. Two OM2s in place.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1523



Looking West



Looking South



Looking North

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1523

IDENTIFICATION

Location: C.R. 400 S - 3940' WEST of C.R. 700 W

Stream Name:

Township:

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 113

Drain Area (acres):

Structure Type: Multi Plate Pipe Arch

Span / Height (ft): 15.5 / 10.0

Skew (deg): 10

Approx Cover (ft): 1.0

Culvert Length (ft): 50

Roadway Width (ft): 17.0

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

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: Multi Plate Pipe Arch

Good, inadequate cover

Road: Chip & Seal

n.a.

Rail: Steel W-shaped

Good

Load Rating: H15

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s. Post "15 Ton".	1	\$98
Safety-GR:		
Replace:		
Road/Shld:		
Other: Post 15 Ton or increase cover to 2.0 feet.	1	\$12,900

MISC INFORMATION

Inspected by: LJR

Inspection Date: 8/26/2008

Est Remain Life (yr): 45

Remarks: See small bridge # 1836.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1532



Looking South



East End



Damaged Railing



West End



Corrosion - up close



Corrosion – North Side

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1532

IDENTIFICATION

Location: C.R. 700 W - 740' NORTH of S.R. 67

Stream Name:

Township:

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 55

Drain Area (acres):

Structure Type: Multi Plate Pipe Arch

Span / Height (ft): 10.0 / 6.8

Skew (deg): 20

Approx Cover (ft): 1.5

Culvert Length (ft): 28

Roadway Width (ft): 14.0

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: n.a.

n.a.

Superstructure: n.a.

n.a.

Substructure: n.a.

n.a.

Channel: Grass

Good, upstream bend, fence blocks flow

Headwall: None

n.a.

Culvert: Multi Plate Pipe Arch

Poor, partially failed, large rust hole

Road: Chip & Seal

Good, narrow

Rail: Steel W-shaped

Poor, damaged west, pulled out of ground

Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place SE OM2	3.5	\$19
Safety-GR:		
Replace: Replace structure	3	\$39,000
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR

Inspection Date: 8/26/2008

Est Remain Life (yr): 3

Remarks: NW OM2 in place. Posted "Road Narrows". 2 year reinspection schedule. 1' of silt in bottom.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1547



Looking West



North End



South End



Collapsed at Mid Point

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1547

IDENTIFICATION

Location: C.R. 650 S - 365' EAST OF C.R. 1000 W
Stream Name: **Township:** SALEM
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 12 **Drain Area (acres):** 129
Structure Type: Reinforced Concrete Slab **Span / Height (ft):** 6.0 / 2.0
Skew (deg): 0 **Approx Cover (ft):** 0.5
Culvert Length (ft): 20 **Roadway Width (ft):** 14.0
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Poor, hole in deck
Superstructure: Reinforced Concrete Slab	Poor, partial failure
Substructure: Concrete	Poor, partial failure
Channel: Grass	Poor, standing water
Headwall: Concrete	Poor, failed
Culvert: n.a.	n.a.
Road: Chip & Seal	Poor, rough
Rail: None	n.a.
Load Rating: H20	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace: Replace structure	2	\$3,000
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/13/2008
Est Remain Life (yr): 1
Remarks: On dead-end road.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1677



Looking North



Looking Northwest



West End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1677

IDENTIFICATION

Location: C.R. 400 E - 1715' SOUTH OF C.R. 1300 N (AT CREEK)
Stream Name: **Township:** NILES
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 16 **Drain Area (acres):** 445
Structure Type: Corrugated Metal Pipe **Span / Height (ft):** 4.5 / 4.5
Skew (deg): 30 **Approx Cover (ft):** 1.5
Culvert Length (ft): 40 **Roadway Width (ft):** 13.0
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: n.a. n.a.
Superstructure: n.a. n.a.
Substructure: n.a. n.a.
Channel: Grass / Riprap Good
Headwall: None n.a.
Culvert: Corrugated Metal Pipe Good
Road: Chip & Seal Fair, very rough over pipe
Rail: Steel W-shaped Inadequate posts
Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs:		
Safety-GR:		
Replace:		
Road/Shld: Add shoulder fill on west side	2	\$120
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/31/2008
Est Remain Life (yr): 35
Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1680



Looking South



West End



East End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1680

IDENTIFICATION

Location: C.R. 100 W - 1335' SOUTH OF C.R. 1000 N
Stream Name: **Township:** UNION
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 14 **Drain Area (acres):** 641
Structure Type: Corrugated Metal Pipe Arch **Span / Height (ft):** 5.3 / 3.7
Skew (deg): 20 **Approx Cover (ft):** 0.5
Culvert Length (ft): 38 **Roadway Width (ft):** 13.0
No of Spans/Barrels: 2 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: n.a. n.a.
Superstructure: n.a. n.a.
Substructure: n.a. n.a.
Channel: None n.a.
Headwall: None n.a.
Culvert: Corrugated Metal Pipe Arch Good, light rust
Road: Chip & Seal Poor, very rough
Rail: None n.a.
Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.8	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/31/2008
Est Remain Life (yr): 20
Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1740



Looking West



Beam # 2



North End



Beam # 3



South End



Beam # 4

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1740

IDENTIFICATION

Location: Gregory Road - 25' WEST OF C.R. 450 E
Stream Name: **Township:** NILES
ADT: **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 **Roadway Width (ft):** 15.0
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

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: H10

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Post "10 Ton Weight Limit"	1	\$60
Safety-GR:		
Replace: Replace structure	2	\$32,900
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/31/2008
Est Remain Life (yr): 8

Remarks: 3 beams are rusted through. Recommend 12 month reinspection. Rust is advancing. Road is posted "3 Ton".

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1752



Looking North



Looking West



West End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1752

IDENTIFICATION

Location: Wheeling Pike - 760' SOUTH of C.R. 750 N
Stream Name: **Township:**
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 16 **Drain Area (acres):**
Structure Type: Reinforced Concrete Slab **Span / Height (ft):** 8.3 / 2.0
Skew (deg): 15 **Approx Cover (ft):** 1.0
Culvert Length (ft): 33 **Roadway Width (ft):** 20.5
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Good
Superstructure: Reinforced Concrete Slab	Good
Substructure: Concrete	Good
Channel: None	n.a.
Headwall: Concrete	Heavily spalled west
Culvert: n.a.	n.a.
Road: Chip & Seal	Good
Rail: None	n.a.
Load Rating: H20	

PROPOSED IMPROVEMENTS

Description

Priority

Cost

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

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/28/2008
Est Remain Life (yr): 30
Remarks: Field tile under culvert. 2 OM3s in place.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 1781



Looking West



Looking West



Looking East

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 1781

IDENTIFICATION

Location: C.R. 875 W - 3185' SOUTH of C.R. 700 S

Stream Name:

Township:

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 64

Drain Area (acres): 2128

Structure Type: Multi Plate Pipe Arch

Span / Height (ft): 11.5 / 7.0

Skew (deg): 0

Approx Cover (ft): 1.5

Culvert Length (ft): 30

Roadway Width (ft): 14.0

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: n.a.

n.a.

Superstructure: n.a.

n.a.

Substructure: n.a.

n.a.

Channel: Natural

Good

Headwall: Masonry

Good

Culvert: Multi Plate Pipe Arch

Good

Road: Chip & Seal

Good

Rail: None

n.a.

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs:

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 8/26/2008

Est Remain Life (yr): 40

Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 2115



Looking North



East End



West End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 2115

IDENTIFICATION

Location: C.R. 200 W - 850' SOUTH OF C.R. 900 N
Stream Name: **Township:** UNION
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 2008

STRUCTURE INFORMATION

Waterway Open (sqft): 65 **Drain Area (acres):** 881
Structure Type: Alum Box Culvert **Span / Height (ft):** 11.3 / 7.2
Skew (deg): 0 **Approx Cover (ft):** 1.5
Culvert Length (ft): 40 **Roadway Width (ft):** 14.0
No of Spans/Barrels: 1 **Wearing Surface:** Gravel

CONDITION

MATERIAL

CONDITION

Deck: - -
Superstructure: - -
Substructure: Aluminum Plate Good
Channel: Grass Good
Headwall: None n.a.
Culvert: Alum Box Culvert Good
Road: Gravel Good
Rail: None n.a.
Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.5	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 9/23/2008
Est Remain Life (yr): 50
Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 2568



Looking North



Looking East



Looking West

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 2568

IDENTIFICATION

Location: HOYT AVE - 1420' SOUTH OF WHITE RD

Stream Name:

Township: CENTER

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 32

Drain Area (acres): 1355

Structure Type: Aluminum Box Culvert

Span / Height (ft): 9.5 / 4.0

Skew (deg): 10

Approx Cover (ft): 1.5

Culvert Length (ft): 38

Roadway Width (ft): 22.5

No of Spans/Barrels: 1

Wearing Surface: Bituminous

CONDITION

MATERIAL

CONDITION

Deck: -

-

Superstructure: -

-

Substructure: Aluminum Plate

Good

Channel: Grass / Riprap

Good

Headwall: None

n.a.

Culvert: Aluminum Box Culvert

Good

Road: Bituminous

Good

Rail: Steel W-shaped

Damaged SE

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs:

Safety-GR: Replace guard rail

4.5

\$1,800

Replace:

Road/Shld:

Other: Clear vegetation

1

\$0

MISC INFORMATION

Inspected by: LJR

Inspection Date: 7/24/2008

Est Remain Life (yr): 50

Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 2649



Looking North



West End



East End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 2649

IDENTIFICATION

Location: C.R. 775 S - 825' EAST OF SHORTCUT RD

Stream Name:

Township: MONROE

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 12

Drain Area (acres):

Structure Type: Reinforced Concrete Box

Span / Height (ft): 4.3 / 2.8

Skew (deg): 0

Approx Cover (ft): 0.5

Culvert Length (ft): 25

Roadway Width (ft): 15.5

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete

Fair, light spalling

Superstructure: Reinforced Concrete Slab

Fair, light cracking

Substructure: Concrete

Fair, floor cracked & heaved

Channel: Cultivated field

Good

Headwall: Concrete

Fair, light spalling

Culvert: -

-

Road: Chip & Seal

Good

Rail: None

n.a.

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs: Place OM2s

3.5

\$38

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 7/24/2008

Est Remain Life (yr): 20

Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 2653



Looking West



Looking North



South Abutment



South Abutment

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 2653

IDENTIFICATION

Location: NIXON ROAD - 1580' EAST of C.R. 500 W

Stream Name:

Township:

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 42

Drain Area (acres): 53

Structure Type: Steel Beam Encased

Span / Height (ft): 7.0 / 6.0

Skew (deg): 0

Approx Cover (ft): 1.5

Culvert Length (ft): 26

Roadway Width (ft): 14.5

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete

Fair, heavy spalling in spots

Superstructure: Steel Beam Encased

Good

Substructure: Concrete

Poor, heavy spalling, some undermining

Channel: Natural

Wooded, winding

Headwall: Concrete

Poor, heavily spalled

Culvert: n.a.

n.a.

Road: Chip & Seal

Good, winding

Rail: None

n.a.

Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.5	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other: Underpin abutments	2	\$6,000

MISC INFORMATION

Inspected by: LJR

Inspection Date: 8/26/2008

Est Remain Life (yr): 10

Remarks: Beams are railroad rails. Delineators along south edge of road.

Hwy Note 1:

Hwy Note 2:

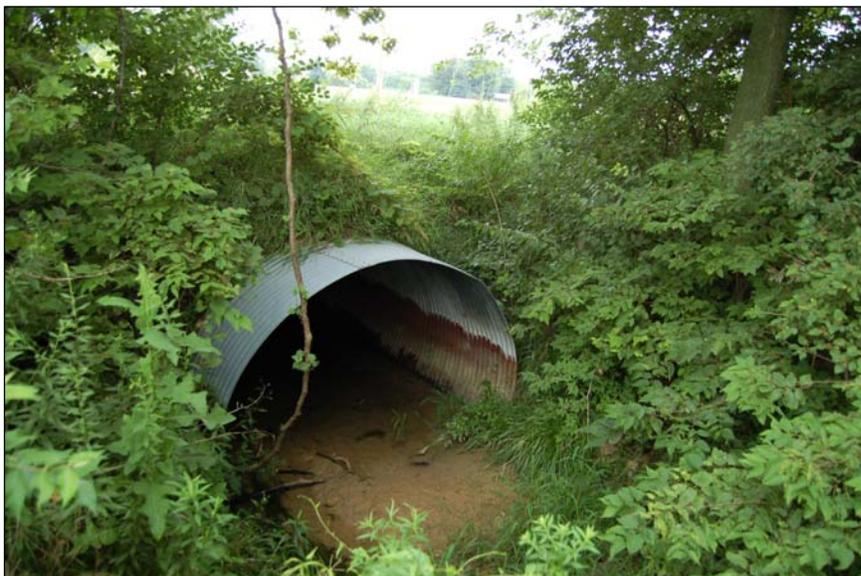
Small Bridge No. 2668



Looking West



Looking South



Looking North

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 2668

IDENTIFICATION

Location: C.R. 400 S - 550' WEST OF BELL CREEK RD

Stream Name:

Township: SALEM

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 50

Drain Area (acres): 451

Structure Type: Corrugated Metal Pipe

Span / Height (ft): 8.0 / 8.0

Skew (deg): 20

Approx Cover (ft): 1.5

Culvert Length (ft): 60

Roadway Width (ft): 19.0

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: -

-

Superstructure: -

-

Substructure: -

-

Channel: Natural

Good

Headwall: None

n.a

Culvert: Corrugated Metal Pipe

Fair, moderate to heavy rust

Road: Chip & Seal

Fair, patched, rough

Rail: None

n.a.

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs:

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 7/25/2008

Est Remain Life (yr): 15

Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 2726



Looking West



Looking North



Looking North



Bottom of Deck

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 2726

IDENTIFICATION

Location: RIVERVALLEY - 275' EAST OF C.R 725 W
Stream Name: **Township:** MT. PLEASANT
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 80 **Drain Area (acres):**
Structure Type: Reinforced Concrete Slab **Span / Height (ft):** 16.0 / 5.0
Skew (deg): 0 **Approx Cover (ft):** 0.5
Culvert Length (ft): 26 **Roadway Width (ft):** 20.5
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete Good, minor spalls
Superstructure: Reinforced Concrete Slab Fair, moderate efflorescence, spalled at edges
Substructure: Concrete Fair, minor spalls
Channel: Natural Good, overgrown
Headwall: Concrete Good
Culvert: n.a. n.a.
Road: Chip & Seal Good
Rail: Steel W-shaped Inadequate posts
Load Rating: H20

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM3s	3.3	\$56
Safety-GR:		
Replace:		
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/7/2008
Est Remain Life (yr): 10
Remarks: Shoulder area is Steel Beam Encased Bridge in poor condition, heavy rust on 1 beam.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 2817



Looking East



West Abutment



Looking South



Bottom of Bridge Deck



Looking North



Top of East Wall, 1" leaning

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 2817

IDENTIFICATION

Location: C.R. 300 S - 610' EAST OF SR 3
Stream Name: **Township:** CENTER/MONROE
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 58 **Drain Area (acres):** 428
Structure Type: Steel Beam Encased **Span / Height (ft):** 9.0 / 6.5
Skew (deg): 0 **Approx Cover (ft):** .3
Culvert Length (ft): 24 **Roadway Width (ft):** 17.0
No of Spans/Barrels: 1 **Wearing Surface:** Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete	Poor, heavy spalling
Superstructure: Steel Beam Encased	Poor, heavy rust & spalling
Substructure: Concrete	Poor, heavy spalling
Channel: Natural	Good
Headwall: Concrete	Fair, spalled
Culvert: -	-
Road: Chip & Seal	Fair, cracked
Rail: None	n.a.
Load Rating: H15	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM3s. Post 15 Ton.	1	\$118
Safety-GR:		
Replace: Replace structure	4	\$29,000
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/24/2008
Est Remain Life (yr): 7
Remarks: East wall leaning 1". Recommend 24-month reinspection schedule.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 8001



Looking West



Looking South



Looking North

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 8001

IDENTIFICATION

Location: C.R. 800 N - 572' W OF 175 E
Stream Name: **Township:**
ADT: **Year of ADT:** 0
Road Classif: **Year Built:** 0

STRUCTURE INFORMATION

Waterway Open (sqft): 24 **Drain Area (acres):** 355
Structure Type: Steel Beam Encased **Span / Height (ft):** 8.0 / 3.0
Skew (deg): 0 **Approx Cover (ft):** 0.7
Culvert Length (ft): 26 **Roadway Width (ft):** 17.0
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
Channel: Grass	Good
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Good
Rail: None	n.a.
Load Rating: H16	

PROPOSED IMPROVEMENTS

Description

Priority

Cost

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

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 7/28/2008
Est Remain Life (yr): 25
Remarks: 2 OM3s in place.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 8002



Looking West



Looking South



Looking North



North Edge

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 8002

IDENTIFICATION

Location: C.R. 800 N - 1845' WEST of WALNUT

Stream Name:

Township:

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 30

Drain Area (acres): 622

Structure Type: Steel Beam Encased

Span / Height (ft): 10.0 / 3.0

Skew (deg): 0

Approx Cover (ft): 0.3

Culvert Length (ft): 26

Roadway Width (ft): 18.2

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete

Good, spalled at edges

Superstructure: Steel Beam Encased

Good

Substructure: Concrete

Good

Channel: None

n.a.

Headwall: Concrete

Good

Culvert: n.a.

n.a.

Road: Chip & Seal

Good

Rail: None

n.a.

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs: Place OM2s

3.5

\$38

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 7/28/2008

Est Remain Life (yr): 25

Remarks: Farm field tile under culveret. 2 delineators in place. Steel beams are railroad rails.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 8010



Looking South



East End



NE Corner Top View



NE Corner Bottom View



Bottom - West Side



West End

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 8010

IDENTIFICATION

Location: C.R. 800 E - 1840' SOUTH of C.R. 450 S

Stream Name:

Township:

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 20

Drain Area (acres): 325

Structure Type: Steel Beam

Span / Height (ft): 10.2 / 2.0

Skew (deg): 30

Approx Cover (ft): 0.1

Culvert Length (ft): 18

Roadway Width (ft): 12.0

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete

Poor, failed NE, spalled throughout

Superstructure: Steel Beam

Poor, moderate to heavy rust

Substructure: Concrete

Good

Channel: None

n.a.

Headwall: Concrete

Good

Culvert: n.a.

n.a.

Road: Chip & Seal

Fair, rough

Rail: Steel W-shaped

Good

Load Rating: H15

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM3s. Post 15 Ton	1	\$56
Safety-GR:		
Replace: Replace structure	3	\$24,000
Road/Shld:		
Other:		

MISC INFORMATION

Inspected by: LJR

Inspection Date: 8/13/2008

Est Remain Life (yr): 4

Remarks: 16.0' between rails. May want to post "One Lane". 2 damaged OM3s in place. Recommend 24-month reinspection schedule.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 8016



Looking West



North End



South End



West Abutment



Beam Corrosion

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 8016

IDENTIFICATION

Location: C.R. 400 S - 3470' EAST of C.R. 700 W

Stream Name:

Township:

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 15

Drain Area (acres):

Structure Type: Steel Beam Encased

Span / Height (ft): 7.5 / 2.0

Skew (deg): 0

Approx Cover (ft): 0.5

Culvert Length (ft): 25

Roadway Width (ft): 17.0

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete

Fair, minor spalls

Superstructure: Steel Beam Encased

Fair, light rust, heavy in spots

Substructure: Concrete

Poor, heavily spalled west

Channel: None

n.a.

Headwall: Concrete

Good

Culvert: n.a.

n.a.

Road: Chip & Seal

Good

Rail: Steel Tube

Failed north

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs: Place OM2s

3.6

\$38

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 8/26/2008

Est Remain Life (yr): 15

Remarks:

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 8017



Looking South



Looking Southwest



Looking Northeast

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 8017

IDENTIFICATION

Location: C.R. 400 W - 2750' SOUTH of C.R. 400 S

Stream Name:

Township:

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 15

Drain Area (acres): 207

Structure Type: Steel Beam Encased

Span / Height (ft): 6.0 / 2.5

Skew (deg): 05

Approx Cover (ft): 0.5

Culvert Length (ft): 32

Roadway Width (ft): 14.5

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete

Fair, cracked and spalled throughout

Superstructure: Steel Beam Encased

Good

Substructure: Concrete

Fair, moderate spalled throughout

Channel: Natural

Good

Headwall: Concrete

Fair, some spalling

Culvert: n.a.

n.a.

Road: Chip & Seal

Good

Rail: None

n.a.

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs: Place OM2s

3.6

\$38

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 8/26/2008

Est Remain Life (yr): 15

Remarks: Steel beams are railroad rails.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 8019



Looking North



Looking East



Looking West



South Abutment



South Abutment

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 8019

IDENTIFICATION

Location: BELL CREEK ROAD - 1060' NORTH of C.R. 400 S

Stream Name:	Township:
ADT:	Year of ADT: 0
Road Classif:	Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 47	Drain Area (acres): 727
Structure Type: Steel Beam Encased	Span / Height (ft): 9.5 / 5.0
Skew (deg): 0	Approx Cover (ft): 0.5
Culvert Length (ft): 24	Roadway Width (ft): 15.5
No of Spans/Barrels: 1	Wearing Surface: Chip & Seal

CONDITION

<u>MATERIAL</u>	<u>CONDITION</u>
Deck: Concrete	Good
Superstructure: Steel Beam Encased	Good
Substructure: Concrete	Poor, heavily spalled south
Channel: Natural	Good, fence blocks flow
Headwall: Concrete	Good
Culvert: n.a.	n.a.
Road: Chip & Seal	Rough, sinkhole at south end of culvert
Rail: Steel Tube	Inadequate
Load Rating: H20	

PROPOSED IMPROVEMENTS

<u>Description</u>	<u>Priority</u>	<u>Cost</u>
Bank/Stream:		
Safety-Signs: Place OM2s	3.4	\$38
Safety-GR:		
Replace:		
Road/Shld:		
Other: Repair south abutment	2	\$3,000

MISC INFORMATION

Inspected by: LJR **Inspection Date:** 8/26/2008

Est Remain Life (yr): 30

Remarks: 2 delineators in place.

Hwy Note 1:

Hwy Note 2:

Small Bridge No. 8020



Looking West



Looking South



Looking North

DELAWARE COUNTY SMALL BRIDGE INSPECTION REPORT

Small Bridge No: 8020

IDENTIFICATION

Location: C.R. 800 S - 625' WEST of CR 200 E

Stream Name:

Township:

ADT:

Year of ADT: 0

Road Classif:

Year Built: 0

STRUCTURE INFORMATION

Waterway Open (sqft): 40

Drain Area (acres): 245

Structure Type: Steel Beam Encased

Span / Height (ft): 8.0 / 5.0

Skew (deg): 0

Approx Cover (ft): 0.5

Culvert Length (ft): 25

Roadway Width (ft): 14.5

No of Spans/Barrels: 1

Wearing Surface: Chip & Seal

CONDITION

MATERIAL

CONDITION

Deck: Concrete

Fair, minor spalled & cracks, heavy spalling @ edges

Superstructure: Steel Beam Encased

Good

Substructure: Concrete

Fair, moderate cracks

Channel: Grass

Good

Headwall: Concrete

Failed NE, others spalled & separated

Culvert: n.a.

n.a.

Road: Chip & Seal

Good, steep shoulder at bridge

Rail: Steel W-shaped

Good

Load Rating: H20

PROPOSED IMPROVEMENTS

Description

Priority

Cost

Bank/Stream:

Safety-Signs: Place OM2s

3.3

\$38

Safety-GR:

Replace:

Road/Shld:

Other:

MISC INFORMATION

Inspected by: LJR

Inspection Date: 8/26/2008

Est Remain Life (yr): 30

Remarks: Steel Beams are railroad rails.

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>13</i>	<i>\$ 429,600</i>
<i>Bank / Stream</i>	<i>1</i>	<i>\$ 0</i>
<i>Safety / Guard Rail</i>	<i>2</i>	<i>\$ 3,600</i>
<i>Safety / Signs</i>	<i>59</i>	<i>\$ 2,669</i>
<i>Shoulder / Approach</i>	<i>5</i>	<i>\$ 610</i>
<i>Other</i>	<i>9</i>	<i>\$ 21,900</i>
<i>Grand Total</i>	<i>89</i>	<i>\$ 458,379</i>

REPLACE / REHABILITATE PRIORITIES

Delaware County - Culvert Inspection Report

<i>Priority</i>	<i>Culvert</i>	<i>Est Life Rating</i>	<i>Location</i>	<i>Culvert Type</i>	<i>Work Description</i>	<i>Cost</i>
2.0	0095	1 yr H05	C.R. 550 E - 700' NORTH OF EATON-ALBANY PIKE	Reinforced Concrete Slab	Replace structure	\$48,600
2.0	1434	3 yr H11	C.R. 650 S - 1400' WEST OF C.R. 461 E	Steel Beam, Encased	Replace structure	\$59,300
2.0	1547	1 yr H20	C.R. 650 S - 365' EAST OF C.R. 1000 W	Reinforced Concrete Slab	Replace structure	\$3,000
2.0	1740	8 yr H10	Gregory Road - 25' WEST OF C.R. 450 E	Steel Beam, Encased	Replace structure	\$32,900
3.0	0822	4 yr H10	Stanely Road - 1440' EAST of C.R. 700 E	Reinforced Concrete Slab	Replace structure	\$74,000
3.0	1140	5 yr H18	C.R. 150 N/JACKSON ST - JUST E OF JACKSON ST	Steel Beam Encased	Replace structure	\$23,600
3.0	1518	5 yr H10	C.R. 800 S - 650' EAST OF C.R. 300 E	Concrete Arch/Steel Beam	Replace shoulder beams	\$24,000
3.0	1532	3 yr H20	C.R. 700 W - 740' NORTH of S.R. 67	Multi Plate Pipe Arch	Replace structure	\$39,000
3.0	8010	4 yr H15	C.R. 800 E - 1840' SOUTH of C.R. 450 S	Steel Beam	Replace structure	\$24,000
4.0	0364	7 yr H17	C.R. 200 E - 2545' SOUTH OF C.R. 800 N	Steel Beam Encased	Replace structure	\$23,600
4.0	0878	8 yr H16	BURLINGTON DRIVE - 3380' W OF C.R. 400 E	Steel Beam Encased	Replace structure	\$25,000
4.0	1452	7 yr H19	C.R. 700 S - 115' EAST OF C.R. 875 E	Steel Beam Encased	Replace structure	\$23,600
4.0	2817	7 yr H15	C.R. 300 S - 610' EAST OF SR 3	Steel Beam Encased	Replace structure	\$29,000

REPLACE / REHABILITATE PRIORITIES

Delaware County - Culvert Inspection Report

<i>Priority</i>	<i>Culvert</i>	<i>Est Life</i> <i>Rating</i>	<i>Location</i>	<i>Culvert Type</i>	<i>Work Description</i>	<i>Cost</i>
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Sum: **\$429,600**

Count: **13**

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>
5.0	1490	C.R. 500 E - 240' NORTH of 800 S	Corrugated Metal Pipe Arch	clear stream debris	\$0
				Sum:	\$0
				Count:	1

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>
4.3	0878	BURLINGTON DRIVE - 3380' W OF C.R. 400 E	Steel Beam Encased	Replace south guard rail	\$1,800
4.5	2568	HOYT AVE - 1420' SOUTH OF WHITE RD	Aluminum Box Culvert	Replace guard rail	\$1,800

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: \$3,600

Count: 2

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	0095	C.R. 550 E - 700' NORTH OF EATON-ALBANY PIKE	Reinforced Concrete Slab	Post "5 Ton Weight Limit"	\$60
1.0	0822	Stanely Road - 1440' EAST of C.R. 700 E	Reinforced Concrete Slab	Post 10 Ton Weight Limit. Add 3 OM3s.	\$147
1.0	1434	C.R. 650 S - 1400' WEST OF C.R. 461 E	Steel Beam, Encased	Post "11 Ton Weight Limit".	\$60
1.0	1518	C.R. 800 S - 650' EAST OF C.R. 300 E	Concrete Arch/Steel Beam	Place barricades, close shoulders	\$100
1.0	1523	C.R. 400 S - 3940' WEST of C.R. 700 W	Multi Plate Pipe Arch	Place OM2s. Post "15 Ton".	\$98
1.0	1740	Gregory Road - 25' WEST OF C.R. 450 E	Steel Beam, Encased	Post "10 Ton Weight Limit"	\$60
1.0	2817	C.R. 300 S - 610' EAST OF SR 3	Steel Beam Encased	Place OM3s. Post 15 Ton.	\$118
1.0	8010	C.R. 800 E - 1840' SOUTH of C.R. 450 S	Steel Beam	Place OM3s. Post 15 Ton	\$56
3.2	0164	EDGEWATER RD - 1690' WEST OF STRONG RD	Steel Beam Encased	Remount loose OM3s	\$10
3.2	0230	C.R. 500 N - 1200' EAST OF C.R. 650 E	Steel Beam Encased	Place OM2s	\$38
3.2	0313	C.R. 200 W - 1850' SOUTH OF C.R. 1000 N	Reinforced Concrete Slab	Place OM2s	\$38
3.2	0364	C.R. 200 E - 2545' SOUTH OF C.R. 800 N	Steel Beam Encased	Add SE 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>
3.2	0665	MCGALLIARD RD - 610' EAST OF C.R. 333 E	Alum Box Culvert	Place OM2s.	\$38
3.2	0811	Smithfield Road - 510' EAST of 600 E	Multi Plate Pipe Arch	Place OM2s	\$38
3.2	1162	C.R. 100 N - 845' WEST OF C.R. 850 W	Concrete Box	Place OM2s	\$38
3.2	1173	DIVISION RD - 1730' WEST OF C.R. 725 W	Concrete	Place OM3s	\$56
3.2	1486	C.R. 300 E - 610' NORTH OF C.R. 800 S	Reinforced Concrete Slab	Place OM3s	\$56
3.3	0004	C.R. 400 N - 2995' EAST OF MORRISON RD	Reinforced Concrete Box	Place OM2s	\$38
3.3	0234	C.R. 500 N - 400' EAST OF REYNARD RD	Reinforced Concrete Slab	Place OM2s	\$38
3.3	0793	Smithfield Road - 400' EAST of 550 E	Corrugated Metal Pipe Arch	Add SW OM3	\$28
3.3	0878	BURLINGTON DRIVE - 3380' W OF C.R. 400 E	Steel Beam Encased	Add NW OM3	\$28
3.3	1087	C.R. 925 W - 1145' NORTH OF C.R. 300 N	Timber Box	Place OM2s	\$38
3.3	1377	C.R. 500 S - 290' WEST of C.R. 800 E	Aluminum Box Culvert	Place OM2s	\$38
3.3	2726	RIVERVALLEY - 275' EAST OF C.R. 725 W	Reinforced Concrete Slab	Place OM3s	\$56

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>
3.3	8020	C.R. 800 S - 625' WEST of CR 200 E	Steel Beam Encased	Place OM2s	\$38
3.4	0128	NORTHFORK RD - 160' WEST OF C.R. 369 E	Steel Beam Encased	Place OM2s	\$38
3.4	0170	C.R. 650 E - 2170' NORTH OF REYNARD	Steel Beam Encased	Place OM2s	\$38
3.4	0556	C.R. 500 N - 1995' N & E OF BETHEL	Reinforced Concrete Slab	Place OM2s	\$38
3.4	1006	C.R. 300 W - 1645' NORTH OF C.R. 700 S	Concrete Box	Add NW & SW OM3s	\$56
3.4	1056	C.R. 775 S - 1300' WEST OF OLD RD	Corrugated Metal Pipe Arch	Place 3 OM2s	\$57
3.4	1426	C.R. 600 E - 860' SOUTH OF C.R. 600 S	Steel Beam Encased	Place OM2s	\$38
3.4	1452	C.R. 700 S - 115' EAST OF C.R. 875 E	Steel Beam Encased	Place OM2s	\$38
3.4	8019	BELL CREEK ROAD - 1060' NORTH of C.R. 400 S	Steel Beam Encased	Place OM2s	\$38
3.5	0340	WALNUT ST - 390' NORTH OF CR 800 N	Multi Plate Pipe Arch	Place OM2s	\$38
3.5	0781	MEMORIAL DR - 3610' WEST OF C.R. 400 E	Aluminum Box Culvert	Place OM2s	\$38
3.5	0858	C.R. 750 E - 5060' NORTH of C.R. 400 S	Corrugated Metal Pipe	Place OM2s	\$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>
3.5	1487	C.R. 775 E - 1010' NORTH OF C.R. 800 S	Reinforced Concrete Slab	Replace OM2s	\$38
3.5	1532	C.R. 700 W - 740' NORTH of S.R. 67	Multi Plate Pipe Arch	Place SE OM2	\$19
3.5	2115	C.R. 200 W - 850' SOUTH OF C.R. 900 N	Alum Box Culvert	Place OM2s	\$38
3.5	2649	C.R. 775 S - 825' EAST OF SHORTCUT RD	Reinforced Concrete Box	Place OM2s	\$38
3.5	2653	NIXON ROAD - 1580' EAST of C.R. 500 W	Steel Beam Encased	Place OM2s	\$38
3.5	8002	C.R. 800 N - 1845' WEST of WALNUT	Steel Beam Encased	Place OM2s	\$38
3.6	0355	C.R. 800 N - 550' WEST OF WALNUT ST	Steel Beam Encased	Place OM2s	\$38
3.6	0445	C.R. 900 N - 3005' WEST OF WHEELING	Reinforced Concrete Slab	Place OM2s	\$38
3.6	8016	C.R. 400 S - 3470' EAST of C.R. 700 W	Steel Beam Encased	Place OM2s	\$38
3.6	8017	C.R. 400 W - 2750' SOUTH of C.R. 400 S	Steel Beam Encased	Place OM2s	\$38
3.7	0178	OLD GRANVILLE ROAD - 1620' NORTH OF SR 28	Reinforced Concrete Slab	Place OM2s	\$38
3.7	0363	C.R. 100 W - 1435' NORTH OF C.R. 750 N	Aluminum Box Culvert	Place OM2s.	\$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>
3.8	0231	C.R. 500 N - 780' EAST OF C.R. 650 E	Steel Beam	Place OM2s.	\$38
3.8	0321	C.R. 900 N - 260' WEST OF C.R. 300 W	Reinforced Concrete Slab	Place OM2s	\$38
3.8	0532	C.R. 675 W - 2320' SOUTH OF SR 28	Corrugated Metal Pipe	Place OM2s	\$38
3.8	0749	C.R. 400 E - 1220' SOUTH OF SR 32	Elliptical Corr Metal Pipe	Add NW OM3	\$28
3.8	0937	STICK CITY RD - 410' SOUTH OF WALNUT ST	Corrugated Metal Pipe	Place OM2s	\$38
3.8	1427	C.R. 300 E - 1890' NORTH OF C.R. 650 S	Concrete Box	Place OM2s	\$38
3.8	1680	C.R. 100 W - 1335' SOUTH OF C.R. 1000 N	Corrugated Metal Pipe Arch	Place OM2s	\$38
3.9	1370	C.R. 600 E - 1050' NORTH OF C.R. 500 S	Multi Plate Pipe Arch	Place OM2s	\$38
3.9	1412	C.R. 600 E - 150' NORTH of C.R. 600 S	Corrugated Metal Pipe	Place OM2s	\$38
3.9	1419	C.R. 600 S - 1850' EAST OF C.R. 560 E	Reinforced Concrete Slab	Place OM3s	\$56
4.8	0940	WALNUT ST. - 1200' NORTH OF OLD SR 3	Steel Beam Encased	Place 3 OM3s	\$57

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:	\$2,669
				Count:	59

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	0231	C.R. 500 N - 780' EAST OF C.R. 650 E	Steel Beam	Add fill at shoulders	\$240
2.0	1056	C.R. 775 S - 1300' WEST OF OLD RD	Corrugated Metal Pipe Arch	Fill NW shoulder	\$120
2.0	1230	C.R. 600 E - 3170' N OF C.R. 1200 N.	Reinforced Concrete Slab	Add fill at SW corner	\$120
2.0	1677	C.R. 400 E - 1715' SOUTH OF C.R. 1300 N (AT CREEK)	Corrugated Metal Pipe	Add shoulder fill on west side	\$120
3.0	0234	C.R. 500 N - 400' EAST OF REYNARD RD	Reinforced Concrete Slab	Fill sinkhole at SW corner	\$10
Sum:					\$610
Count:					5

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	0411	NEBO RD - 2630' SOUTH OF SR 28	Reinforced Concrete Slab	Clear vegetation	\$0
1.0	0793	Smithfield Road - 400' EAST of 550 E	Corrugated Metal Pipe Arch	Clear vegetation	\$0
1.0	0811	Smithfield Road - 510' EAST of 600 E	Multi Plate Pipe Arch	Clear vegetation	\$0
1.0	1042	C.R. 400 W - 1800' SOUTH of 700 S	Alum Multi Plate Pipe Arch	Clear vegetation	\$0
1.0	1518	C.R. 800 S - 650' EAST OF C.R. 300 E	Concrete Arch/Steel Beam	Clear vegetation	\$0
1.0	1523	C.R. 400 S - 3940' WEST of C.R. 700 W	Multi Plate Pipe Arch	Post 15 Ton or increase cover to 2.0 feet.	\$12,900
1.0	2568	HOYT AVE - 1420' SOUTH OF WHITE RD	Aluminum Box Culvert	Clear vegetation	\$0
2.0	2653	NIXON ROAD - 1580' EAST of C.R. 500 W	Steel Beam Encased	Underpin abutments	\$6,000
2.0	8019	BELL CREEK ROAD - 1060' NORTH of C.R. 400 S	Steel Beam Encased	Repair south abutment	\$3,000

Sum: \$21,900
Count: 9

WEIGHT LIMIT REPORT

Delaware County - Culvert Inspection Report

Rating	BR # Life-yrs	Road Name: Remarks:	Structure Type:	Work	Priority	\$	
H05	0095 1	C.R. 550 E - 700' NORTH OF EATON-ALBANY PIKE	Reinforced Concrete Slab	Replace structure	2.0	\$48,600	
				Recommend 12-month reinspection.	Post "5 Ton Weight Limit"	1.0	\$60
H10	1518 5	C.R. 800 S - 650' EAST OF C.R. 300 E	Concrete Arch/Steel Beam	Replace shoulder beams	3.0	\$24,000	
				Steel beams support bridge shoulders. Outside steel beams have failed. Posted 10 Ton. Two OM2s in place.	Clear vegetation	1.0	\$0
				Place barricades, close shoulders	1.0	\$100	
H10	0822 4	Stanely Road - 1440' EAST of C.R. 700 E	Reinforced Concrete Slab	Replace structure	3.0	\$74,000	
				1 OM3 in place. Recommend 24-month reinspection.	Post 10 Ton Weight Limit. Add 3 OM3s.	1.0	\$147
H10	1740 8	Gregory Road - 25' WEST OF C.R. 450 E	Steel Beam, Encased	Replace structure	2.0	\$32,900	
				3 beams are rusted through. Recommend 12 month reinspection. Rust is advancing. Road is posted "3 Ton".	Post "10 Ton Weight Limit"	1.0	\$60
H11	1434 3	C.R. 650 S - 1400' WEST OF C.R. 461 E	Steel Beam, Encased	Replace structure	2.0	\$59,300	
				Recommend 12-month reinspection. Corrosion is progressing.	Post "11 Ton Weight Limit".	1.0	\$60

WEIGHT LIMIT REPORT

Delaware County - Culvert Inspection Report

Rating	BR # Life-yrs	Road Name: Remarks:	Structure Type:	Work	Priority	\$
H15	2817 7	C.R. 300 S - 610' EAST OF SR 3	Steel Beam Encased	Replace structure	4.0	\$29,000
				East wall leaning 1". Recommend 24-month reinspection schedule.	Place OM3s. Post 15 Ton.	1.0
H15	8010 4	C.R. 800 E - 1840' SOUTH of C.R. 450 S	Steel Beam	Replace structure	3.0	\$24,000
				16.0' between rails. May want to post "One Lane". 2 damaged OM3s in place. Recommend 24-month reinspection schedule.	Place OM3s. Post 15 Ton	1.0
H15	1523 45	C.R. 400 S - 3940' WEST of C.R. 700 W	Multi Plate Pipe Arch	See small bridge # 1836.	Post 15 Ton or increase cover to 2.0 feet.	1.0 \$12,900
					Place OM2s. Post "15 Ton".	1.0 \$98
H16	0878 8	BURLINGTON DRIVE - 3380' W OF C.R. 400 E	Steel Beam Encased	Replace south guard rail	4.3	\$1,800
				Replace structure	4.0	\$25,000
				3 OM3s in place. Recommend 48-month reinspection schedule.	Add NW OM3	3.3 \$28
H16	8001 25	C.R. 800 N - 572' W OF 175 E	Steel Beam Encased			
		2 OM3s in place.				

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>				
H17	0364 7	C.R. 200 E - 2545' SOUTH OF C.R. 800 N	Steel Beam Encased	Replace structure	4.0	\$23,600
				1 OM3 in place.	Add SE OM2	3.2
H17	0231 10	C.R. 500 N - 780' EAST OF C.R. 650 E	Steel Beam	Add fill at shoulders	2.0	\$240
				Beams are under-sized.	Place OM2s.	3.8
H18	1140 5	C.R. 150 N/JACKSON ST - JUST E OF JACKSON ST	Steel Beam Encased	Replace structure	3.0	\$23,600
		Recommend 24-month inspection cycle.				
H18	0355 20	C.R. 800 N - 550' WEST OF WALNUT ST	Steel Beam Encased			
		1 delineator in place.		Place OM2s	3.6	\$38
H19	1452 7	C.R. 700 S - 115' EAST OF C.R. 875 E	Steel Beam Encased	Replace structure	4.0	\$23,600
					Place OM2s	3.4

REMAINING LIFE REPORT

Delaware County - Culvert Inspection Report

<i>Life-yrs</i>	<i>BR #</i> <i>Rating</i>	<i>Location</i> <i>Remarks</i>	<i>Structure Type</i>	<i>Work</i>	<i>Priority</i>	
1	0095 H05	C.R. 550 E - 700' NORTH OF EATON-ALBANY PIKE	Reinforced Concrete Slab	Replace structure	2.0	\$48,600
				Recommend 12-month reinspection.		
				Post "5 Ton Weight Limit"	1.0	\$60
1	1547 H20	C.R. 650 S - 365' EAST OF C.R. 1000 W	Reinforced Concrete Slab	Replace structure	2.0	\$3,000
				On dead-end road.		
3	1434 H11	C.R. 650 S - 1400' WEST OF C.R. 461 E	Steel Beam, Encased	Replace structure	2.0	\$59,300
				Recommend 12-month reinspection. Corrosion is progressing.		
				Post "11 Ton Weight Limit".	1.0	\$60
3	1532 H20	C.R. 700 W - 740' NORTH of S.R. 67	Multi Plate Pipe Arch	Replace structure	3.0	\$39,000
				NW OM2 in place. Posted "Road Narrows". 2 year reinspection schedule. 1' of silt in bottom.		
				Place SE OM2	3.5	\$19
4	0822 H10	Stanely Road - 1440' EAST of C.R. 700 E	Reinforced Concrete Slab	Replace structure	3.0	\$74,000
				1 OM3 in place. Recommend 24-month reinspection.		
				Post 10 Ton Weight Limit. Add 3 OM3s.	1.0	\$147

REMAINING LIFE REPORT

Delaware County - Culvert Inspection Report

<i>Life-yrs</i>	<i>BR #</i> <i>Rating</i>	<i>Location</i> <i>Remarks</i>	<i>Structure Type</i>	<i>Work</i>	<i>Priority</i>	
4	8010 H15	C.R. 800 E - 1840' SOUTH of C.R. 450 S	Steel Beam	Replace structure	3.0	\$24,000
				Place OM3s. Post 15 Ton	1.0	\$56
16.0' between rails. May want to post "One Lane". 2 damaged OM3s in place. Recommend 24-month reinspection schedule.						
5	1140 H18	C.R. 150 N/JACKSON ST - JUST E OF JACKSON ST	Steel Beam Encased	Replace structure	3.0	\$23,600
				Recommend 24-month inspection cycle.		
5	1518 H10	C.R. 800 S - 650' EAST OF C.R. 300 E	Concrete Arch/Steel Beam	Replace shoulder beams	3.0	\$24,000
				Clear vegetation	1.0	\$0
				Place barricades, close shoulders	1.0	\$100
Steel beams support bridge shoulders. Outside steel beams have failed. Posted 10 Ton. Two OM2s in place.						
7	0364 H17	C.R. 200 E - 2545' SOUTH OF C.R. 800 N	Steel Beam Encased	Replace structure	4.0	\$23,600
				Add SE OM2	3.2	\$19
1 OM3 in place.						
7	1452 H19	C.R. 700 S - 115' EAST OF C.R. 875 E	Steel Beam Encased	Replace structure	4.0	\$23,600
				Place OM2s	3.4	\$38

REMAINING LIFE REPORT

Delaware County - Culvert Inspection Report

<i>Life-yrs</i>	<i>BR #</i> <i>Rating</i>	<i>Location</i> <i>Remarks</i>	<i>Structure Type</i>	<i>Work</i>	<i>Priority</i>	
7	2817 H15	C.R. 300 S - 610' EAST OF SR 3 East wall leaning 1". Recommend 24-month reinspection schedule.	Steel Beam Encased	Replace structure	4.0	\$29,000
				Place OM3s. Post 15 Ton.	1.0	\$118
8	0878 H16	BURLINGTON DRIVE - 3380' W OF C.R. 400 E 3 OM3s in place. Recommend 48-month reinspection schedule.	Steel Beam Encased	Replace south guard rail	4.3	\$1,800
				Replace structure	4.0	\$25,000
				Add NW OM3	3.3	\$28
8	1740 H10	Gregory Road - 25' WEST OF C.R. 450 E 3 beams are rusted through. Recommend 12 month reinspection. Rust is advancing. Road is posted "3 Ton".	Steel Beam, Encased	Replace structure	2.0	\$32,900
				Post "10 Ton Weight Limit"	1.0	\$60
10	0231 H17	C.R. 500 N - 780' EAST OF C.R. 650 E Beams are under-sized.	Steel Beam	Add fill at shoulders	2.0	\$240
				Place OM2s.	3.8	\$38
10	1412 H20	C.R. 600 E - 150' NORTH of C.R. 600 S Existing repairs will extend life.	Corrugated Metal Pipe	Place OM2s	3.9	\$38

REMAINING LIFE REPORT

Delaware County - Culvert Inspection Report

<i>Life-yrs</i>	<i>BR #</i>	<i>Location</i>	<i>Structure Type</i>	<i>Work</i>	<i>Priority</i>	
	<i>Rating</i>	<i>Remarks</i>				
10	1419 H20	C.R. 600 S - 1850' EAST OF C.R. 560 E	Reinforced Concrete Slab			
		Shoulder area of bridge is a Steel Beam Encased Bridge in poor condition.		Place OM3s	3.9	\$56
10	1426 H20	C.R. 600 E - 860' SOUTH OF C.R. 600 S	Steel Beam Encased			
		Railroad rails used for beams.		Place OM2s	3.4	\$38
10	2653 H20	NIXON ROAD - 1580' EAST of C.R. 500 W	Steel Beam Encased			
		Beams are railroad rails. Delineators along south edge of road.		Underpin abutments	2.0	\$6,000
				Place OM2s	3.5	\$38
10	2726 H20	RIVERVALLEY - 275' EAST OF C.R 725 W	Reinforced Concrete Slab			
		Shoulder area is Steel Beam Encased Bridge in poor condition, heavy rust on 1 beam.		Place OM3s	3.3	\$56