

Stark County



BRIDGE INVENTORY REPORT - PHASE II - 2020





ENGINEERING

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INSPECTION

LAND SURVEYING

LAND ACQUISITION

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B. Keith Bryant, PE

Michael A. Rowe, PE

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Michael S. Oliphant, AICP

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Christopher J. Dyer, PE

Jeromy A. Richardson, PE

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Scott G. Minnich, PE

Michael D. Farrell, CPA

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Kelton S. Cunningham, PE

Braun S. Rodgers, PE

Chris J. Andrzejewski, PE

Eric S. Hamed, PE

Greg J. Broz, PE

Abigail I. Browder, PE

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Brian S. Haefliger, PE

Ricardo J. Paredes, PE

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Jeffrey E. Lazzell, PE

John D. SanGiorgio, PE

Ashley M. Leonard, CPA

February 28, 2021

The Board of County Commissioners
Starke County Indiana
53 E. Mound Street
440 Third St. Suite 201
Knox, IN 46534

RE: Starke County Bridge Inventory 2018-2021
Phase II, Final Report
Des. No.: 1592155

Dear Commissioners:

We are enclosing the Phase II, Bridge Inventory and Inspection Report for all fifty-seven (57) bridges in Starke County, Indiana, more than twenty feet in span length that are not on State or Federal Highways. This study was authorized under an Agreement dated August 20, 2018 between the Board of Starke County Commissioners and our firm.

This study has been compiled in order to provide you with a more current record of the condition of the bridges for which Starke County is responsible. The Federal Highway Administration, recognizing that Bridge Inspection should be a continuing program, has provided funding for 80 percent of the cost of this study.

The data contained in this report has been summarized for your use in managing your County Bridge System. An evaluation of signing and marking is contained in the Schedule of Safety Improvements. A Replacement Priority Schedule is included to assist the County in determining which bridges should be replaced or repaired first along with a recommended year of replacement and approximate structure costs. It is recommended that further study be performed to determine more accurate structure sizes and corresponding appropriate structural types before programming structures for repair or replacement. It should be noted that the estimated costs given in this report are based on current prices and may need to be adjusted as the economy changes.

We wish to express our appreciation for the cooperation extended to us by the Board of Commissioners – Charles Chesak, Mark Gourley, and Bryan Cavendar and by Rik Ritzler, Starke County Superintendent, and the Bridge Inspection Section, Indiana Department of Transportation.

If you have any questions or comments, please contact our office at your convenience.

Sincerely,

UNITED CONSULTING SEC



Joshua D Gonya, P.E.

Project Manager

c: Terry Minix
File 18-224

www.ucindy.com
8440 Allison Pointe Blvd., Suite 200, Indianapolis, IN 46250 (317) 895-2585

BRIDGE INVENTORY REPORT

Prepared for

STARKE COUNTY, INDIANA

Phase II – 2020

THE BOARD OF COUNTY COMMISSIONERS
STARKE COUNTY, INDIANA

Charles Chesak

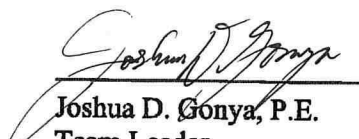
Mark Gourley

Brvan Cavender

Prepared by:



Approved by:
Starke County


Joshua D. Gonya, P.E.
Team Leader
IN000600-2026-ATL-F-LRE




Stephen Ritzler



Michael A. Rowe, P.E.
Transportation Director



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BRIDGE EVALUATION CRITERIA

Introduction

This report was prepared in accordance with the “**INDOT BRIDGE INSPECTION MANUAL, 2013**”, the AASHTO “**MANUAL FOR BRIDGE EVALUATION, THIRD EDITION, 2018**”, and the AASHTO “**STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 2002**”, and **ALL INTERIM SPECIFICATIONS**.

Scope

Included in this report is an appraisal for all public Highway Bridges with a total span of more than twenty feet in Starke County, Indiana, except those bridges maintained by the Indiana Department of Transportation. Bridges located on the north or west borders of Starke County are not included due to a statutory definition of responsibility, which gives the responsibility for these bridges to the adjoining county.

A total of fifty-seven (57) bridges are included in this report.

Bridge Numbering System

The bridge numbering system used in this report corresponds with the numbering system used in the Inventory of County Highway Bridges compiled by Indiana LTAP (Local Transportation Assistance Program).

Structural Inventory and Appraisal Sheet

The results of this bridge inspection are recorded on each bridge's individual "Structure Inventory and Appraisal Sheets." The inspection was completed in accordance with the Guidelines and Item Designation as set forth in the Federal Highway Administration Publication "Recording and Coding guide for the Structure Inventory and Appraisal of the Nation's Bridges," published December 1995 with 2001 Revisions and by the Indiana Department of Transportation Bridge Inspection Program “BRAGI Coding Guide, 2011”.

Field Survey

All bridges over twenty feet in span length were located, inspected, and documented on their "Structure Inventory and Appraisal Sheets." A field crew, using the previous reports to compare with the current conditions, inspected all bridges included in this report. New color photos were taken of all structures as well as individual structure items that had a changed condition.

Office Evaluation

After completion of the field inspection, the structures were reviewed in the office. The field data collected was evaluated and compared with the data from the previous Structural Inventory & Appraisals, and condition and appraisal ratings were revised to reflect present conditions.

The Design, Legal, and Permit Ratings were calculated based on structure data obtained during this inspection. During the field inspection, the conditions of structural steel, concrete, and timber were compared with new materials and a percentage of section loss was estimated reflecting the current degree of material deterioration. This estimated percentage loss was used in determining the new operating and inventory ratings.

Replacement Priorities and Repair Recommendations

All structures were evaluated for replacement priorities and repair recommendations. The following are among items, which are given important consideration when determining replacement priorities and repair recommendations:

The Average Daily Traffic on a structure measures the importance of a structure to the County transportation system. Therefore, structures which receive high traffic counts were given higher priorities for replacement or repair than those bridges which handle only a few vehicles per day.

The Structural Condition of a bridge helps estimate the length of time the structure can safely carry traffic at its present capacity. Many structures have deteriorated from age, weathering, or other factors to a condition where repairs are not economically feasible, and must eventually be replaced.

Bridge Alignment and Width is a major indicator of the safety of the structure to the traveling public. Factors included are horizontal and vertical alignment to the approaches in relationship to the bridge, bridge width, approach signing and marking, bridge rail, guard rail, and slope protection.

Legal Load Capacity indicates the safe load that can repeatedly travel over the bridge in its present structural condition. Structures with low load capacities were given higher replacement priorities than those with more adequate ratings.

Waterway Adequacy indicates if the waterway area under the structure is large enough to handle floodwaters. Existing channel alignment in relationship to the substructure is also analyzed.

Replacement Priorities and Repair Recommendations (continued)

Estimated Replacement Cost is important in setting repair recommendations or replacement priorities. Large structures cost a great deal to replace and were recommended for repairs whenever possible; likewise, many small structures were recommended for replacement. Since replacement costs were not that much greater than extensive repair costs, some of these small bridges can be replaced with pipes or pipe arches at a considerable savings over replacement with a conventional bridge. However, this can only be recommended after a complete hydraulic analysis has been completed.

Whenever practical, repair recommendations were given to structures where repairs could significantly increase their life and safety. In many cases, extensive repairs are not feasible since the structures would still be deficient in other aforementioned vital areas.

Rusting is a major problem on any bridge consisting of steel members. The rusting and resulting deterioration of members can greatly decrease a structure's future usable life. Cleaning and painting the steel as soon as possible is very important in insuring the longevity of these structures.

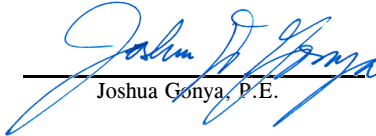
Signs and Markings

The recommended signing tabulated in this report is the minimum required by the "Manual on Uniform Traffic Control Devices for Streets and Highways" published by the Federal Highway Administration and the Indiana Department of Highways. An assessment should be made in the field for the possibility of extending the signing to include features such as intersections, curves, or other substandard conditions near the bridge.

LISTING OF BRIDGE INSPECTION PERSONNEL, TITLE, QUALIFICATIONS, AND RESPONSIBILITIES

Name/Title	Experience/ Qualifications	Attended NHI Class	Biennial Inspection	Fracture Critical	Under- water	Special Detail	Load Rating	Responsibilities/Duties
Jon Clodfelter, P.E. Bridge Department Manager IN000631-2028-ATL	B.S. - Civil Engineering Purdue University Indiana Professional Engineer #19800071 30 Years Experience in Bridge Design, Inspection, and Load Rating	X	-	-	-	-	-	General Project Supervision Inspection Team Leader
Joshua Gonya, P.E. Project Manager IN000600-2022-ATL-F-LRE	B.S. - Civil Engineering Purdue University Indiana Professional Engineer #11700606 13 Years Experience in Bridge Design, Inspection, and Load Rating	X	X	-	-	X	X	Project Manager Inspection Team Leader Field Inspection
Bradley Salpietro, E.I Design Engineer IN000718-2021-ATM	B.S. - Civil Engineering Purdue University Indiana Engineer Intern #ET31900150 2 Years Experience in Bridge Design, Inspection, and Load Rating	-	-	-	-	-	X	Team Member Report Preparation
Dave Zola CAD Designer	A.E.T. - Architectural Engineering Technology ITT AutoCAD Designer 26 Years Experience in Bridge Detailing	-	-	-	-	-	-	Team Member Report Preparation

The following Inspection Team Leaders were present and were actively involved in the Field Inspections of bridges in Starke County.


 Joshua Gonya, P.E.

PRIORITY SCHEDULE FOR COUNTY BRIDGES
(1) REPLACEMENT (2) REHABILITATION
(3) WIDENING (4) REPAIR (5) ELIMINATE

CATEGORY: 1

Bridge Number	Priority Number	Year of Work	Type of Work	Gross Tons	Sufficiency Rating	Estimated Costs (x \$1,000)		
						Bridge	Roadway	Total
00007	1	2021	31	21	36.6	833	190	1291
00059	2	2023	31	28	66.9	213	190	509
00013	3	2025	31	20	70.7	524	190	901
00137	4	2022	31	25	49.7	840	190	1300
00023	5	2024	31	18	54.5	221	190	519

Total Bridges for Category 1: 5

Estimated Costs for Replacement Projects = \$4,520,000

CATEGORY: 2

Bridge Number	Priority Number	Year of Work	Type of Work	Gross Tons	Sufficiency Rating	Estimated Costs (x \$1,000)		
						Bridge	Roadway	Total
00063	1	2021	35	28	73.9	118	190	373

Total Bridges for Category 2: 1

Estimated Costs for Rehabilitation Projects = \$373,000

PRIORITY SCHEDULE FOR COUNTY BRIDGES
(1) REPLACEMENT (2) REHABILITATION
(3) WIDENING (4) REPAIR (5) ELIMINATE

CATEGORY: 3

Bridge Number	Priority Number	Year of Work	Type of Work	Gross Tons	Sufficiency Rating	Estimated Costs (x \$1,000)		
						Bridge	Roadway	Total

NONE

Total Bridges for Category 3: 0

CATEGORY: 4

Bridge Number	Priority Number	Year of Work	Type of Work	Gross Tons	Sufficiency Rating	Estimated Costs (x \$1,000)		
						Bridge	Roadway	Total

NONE

Total Bridges for Category 4: 0

CATEGORY: 5

Bridge Number	Priority Number	Year of Work	Type of Work	Gross Tons	Sufficiency Rating	Estimated Costs (x \$1,000)		
						Bridge	Roadway	Total

NONE

Total Bridges for Category 5: 0

SUMMARY OF BRIDGES WITH
INCREASED FREQUENCY INSPECTIONS

Bridge Number	Designated Inspection Frequency	Fracture Critical Required	Fracture Critical Frequency	Fracture Critical Inspection Date	Underwater Required	Underwater Inspection Frequency	Underwater Inspection Date	Special Inspection Required	Special Inspection Frequency	Special Inspection Date
75-00007	12	N			N			N		
75-00023	12	N			N			N		
75-00059	12	N			N			Y	12	09/05/2019
75-00137	12	N			Y	24	09/26/2019	N		

Total Increased Frequency Inspections: 5

STARKE COUNTY
SCHEDULE OF RECOMMENDED MAINTENANCE ITEMS

Bridge Number	Facility Carried	Feature Intersected	Riprap Needed	Clear Vegetation Around Bridge	Clear Bridge Joints, Deck, Gutters, Drains	Regrade Approaches	Clear Debris in Channel	Damaged or Low Guardrail	Remarks
00001	CR 700N	ROBBINS DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.
00003	CR 500 NORTH	JAIN DITCH							RECOMMEND INSTALLING CURRENT APPROACH RAILING WITH END TREATMENTS AND NORTHEAST, SOUTHEAST AND SOUTHWEST BRIDGE END MARKERS.
00005	CR 400N	JAIN DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING AND APPROACH RAIL WITH END TREATMENTS.
00007	CR 1200 EAST	YELLOW RIVER							UNTIL REPLACEMENT, RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING WITH BRIDGE END MARKERS.
00009	CR 500 EAST	JAIN DITCH							NO MAINTENANCE NEEDED.
00010	CR 500 EAST	ROBBINS DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING WITH END TREATMENTS.
00013	CR 600E	ROBBINS DITCH							NO MAINTENANCE NEEDED.
00014	CR 600E	JAIN DITCH							NO MAINTENANCE NEEDED.
00015	CR 600N	JAIN DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.
00017	CR 925 EAST	ROBBINS DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.
00022	CR 700 EAST	ROBBINS DITCH							NO MAINTENANCE NEEDED.
00023	CR 800E	JAIN DITCH	✓						UNTIL REHABILITATION RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING AND ADDING RIPRAP TO ABUTMENTS AND EMBANKMENTS.
00025	CR 500E	YELLOW RIVER							NO MAINTENANCE NEEDED.
00027	CR 700 EAST	YELLOW RIVER							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.
00028	CR 700E	EAGLE CREEK							NO MAINTENANCE NEEDED.
00031	CR 800E	EAGLE CREEK							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.
00035	CR 25N	EAGLE CREEK							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.
00036	CR 25 NORTH	EAGLE CREEK							RECOMMEND INSTALLING CURRENT STANDARD APPROACH RAILING.
00038	CR 25N	EAGLE CREEK							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.
00039	CR 1100E	YELLOW RIVER							NO MAINTENANCE NEEDED.
00042	CR 900E	MORSE DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.
00043	CR 1000E	ROBBINS DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.
00046	CR 900E	OSBORN DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING WITH MISSING SOUTHEAST BRIDGE END MARKER.
00047	CR 625S	OSBORN DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.
00050	CR 1150E	OSBORN DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING WITH MISSING NORTHEAST AND SOUTHWEST BRIDGE END MARKERS.
00051	CR 850E	OSBORN DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.
00052	CR 850S	OSBORN DITCH							NO MAINTENANCE NEEDED.
00055	CR 900S	CASTLEMAN DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.
00058	CR 800 SOUTH	BOGUS RUN							RECOMMEND INSTALLING CURRENT STANDARD APPROACH RAILING W/ END TREATMENTS.
00059	CR 700 SOUTH	BOGUS RUN							UNTIL REPLACEMENT RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING WITH MISSING SOUTHWEST BRIDGE END MARKER.
00061	CR 500S	SMITH DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING WITH MISSING NORTHWEST BRIDGE END MARKER.
00062	CR 500S	SMITH DITCH							NO MAINTENANCE NEEDED.
00063	CR 500 SOUTH	BOGUS RUN							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.
00064	CR 400 SOUTH	BOGUS RUN							NO MAINTENANCE NEEDED.
00065	CR 400 SOUTH	SMITH DITCH							NO MAINTENANCE NEEDED.
00066	RANGE ROAD	SMITH DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.
00068	TOTO ROAD	BOGUS RUN							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.

STARKE COUNTY
SCHEDULE OF RECOMMENDED MAINTENANCE ITEMS

Bridge Number	Facility Carried	Feature Intersected	Riprap Needed	Clear Vegetation Around Bridge	Clear Bridge Joints, Deck, Gutters, Drains	Regrade Approaches	Clear Debris in Channel	Damaged or Low Guardrail	Remarks
00070	CR 50E	SMITH DITCH					✓		RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING. CLEAR DEBRIS FROM CHANNEL.
00071	CR 100E	SMITH DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.
00078	CR 250 WEST	BOGUS RUN							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING AND NORTHEAST, SOUTHEAST, AND SOUTHWEST BRIDGE END MARKERS.
00079	CR 450 SOUTH	SMITH DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.
00083	CR 350W	BOGUS RUN							RECOMMEND INSTALLING CURRENT BRIDGE AND APPROACH RAILING.
00086	CR 900S	BOGUS RUN							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.
00088	OLD SR 10	CEDAR LAKE DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.
00089	CR 650 WEST	KLINE ARM DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING , AND PLACING RODS THROUGH BEAMS AND TIGHTEN AT RAIL POST CONNECTIONS, AND PATCHING SPALLS IN COPING BEAMS,
00092	CR 850W	EAST ARM PAYNE DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING WITH MISSING SOUTHEAST BRIDGE END MARKER.
00115	CR 200 SOUTH	SMITH DITCH							NO MAINTENANCE NEEDED.
00117	CR 100W	COTTONWOOD DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.
00125	RANGE ROAD	YELLOW RIVER							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.
00126	CR 100W	YELLOW RIVER					✓		RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING AND CLEARING DEBRIS FROM CHANNEL.
00137	CR 300E	YELLOW RIVER							UNTIL REHABILITATION RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.
00140	CR 200E	ROBBINS DITCH							NONE
00146	OLD US 30	ROBBINS DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.
00151	CR 300E	ROBBINS DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.
00154	CR 100E	ROBBINS DITCH							RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.
00156	RANGE ROAD	ROBBINS DITCH							NO MAINTENANCE NEEDED.
00157	CR 850S	CASPER DITCH	✓						PLACING RIPRAP ALONG BOTH ABUTMENT FACES, AND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING WITH MISSING SOUTHEAST BRIDGE END MARKER.

LIST OF POSTED BRIDGES

Bridge Number	Facility Carried	Feature Intersected	Location	Tons Posted	Date Posted
75-00007	CR 1200 EAST	YELLOW RIVER	00.50 N CR 250 S	14	12/20/2011
75-00010	CR 500 EAST	ROBBINS DITCH	00.10 N CR 700 N	14	08/01/1996
75-00023	CR 800E	JAIN DITCH	00.20 S CR 500 N	39	11/30/2019

Total Bridges Posted: 3

LIST OF CLOSED BRIDGES

Bridge Number	Facility Carried	Feature Intersected	Location	Tons Posted	Date Posted
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Total Bridges Closed: 0



Starke County
List of Bridges That Must Be Posted

Bridge Number	Facility Carried	Feature Intersected	Current Posting (Tons)	EV Posting (Tons)	Legal Truck Posting (Tons)
75-00023	CR 800E	JAIN DITCH		39	

1 Total Bridges

LIST OF BRIDGES THAT MUST BE CLOSED

Bridge Number	Facility Carried	Feature Intersected	Location	Tons Posted	Date Posted
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Total Bridges That Must Be Closed: 0



Starke County
Summary of Posting Changes

Bridge Number	Facility Carried	Feature Intersected	Current Posting (Tons)	EV Posting (Tons)	Legal Truck Posting (Tons)
75-00154	CR 100E	ROBBINS DITCH	11	28	

1 Total Bridges

SUMMARY OF BRIDGES
(1) NEW AND (2) REHABILITATED

Bridge Number	NBI Number	Facility Carried	Feature Intersected	Location	Year of Work
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CATEGORY: 1

75-00036 B	7500100	CR 25 NORTH	EAGLE CREEK	00.10 W OF CR 600 E	2018
75-00140 B	7500103	CR 200E	ROBBINS DITCH	00.10 S OF CR 500 N	2020
75-00154 B	7500102	CR 100E	ROBBINS DITCH	00.40 N OF CR 400 N	2019

Total Bridges for Category 1 : 3

CATEGORY: 2

Total Bridges for Category 2 : 0

SUMMARY OF BRIDGES
(1) ADDED, (2) ARCHIVED/DELETED

Bridge Number	Facility Carried	Feature Intersected	Location	Year Built	NBI Number
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CATEGORY: 1

75-00154 B	CR 100E	ROBBINS DITCH	00.40 N OF CR 400 N	2019	7500102
75-00140 B	CR 200E	ROBBINS DITCH	00.10 S CR 500 N	2020	7500103

Total Bridges for Category 1 : 2

CATEGORY: 2

75-00001 archived	CR 700 NORTH	ROBBINS DITCH	00.30 WEST OF CR 500E	1975	7500001
75-00009 archived	CR 500 EAST	JAIN DITCH	00.00 INT of CR 700N	1960	7500006
75-00031 archived	CR 800 EAST	EAGLE CREEK	00.20 NORTH OF CR 50S	1930	7500019
75-00034 archived	CR 600 EAST	EAGLE CREEK	00.10 S of CR 25N	1920	7500020
75-00036 archived	CR 25 NORTH	EAGLE CREEK	00.10 W OF CR 600E	1960	7500022
75-00039 archived	CR 1100 EAST	YELLOW RIVER	00.50 SOUTH OF CR 150S	1992	7500025
75-00043 archived	CR 1000E	ROBBINS DITCH	00.10 NORTH OF CR 800N	1960	7500027
75-00046 archived	CR 900E	OSBORN DITCH	00.90 S SR10	1970	7500028
75-00047 archived	CR 625S	OSBORN DITCH	00.06 W CR 875E	1970	7500029
75-00050 archived	CR 1150E	OSBORN DITCH	01.00 S SR10	1970	7500031
75-00051 archived	CR 850E	OSBORN DITCH	00.00 INT of CR 700S	1968	7500032
75-00058 archived	CR 800 SOUTH	BOGUS RUN	00.02 E OF CR 200W	1960	7500037
75-00062 archived	CR 500 SOUTH	SMITH DITCH	00.04 W of RANGE RD	1965	7500040
75-00070 archived	CR 50 EAST	SMITH DITCH	00.10 SOUTH OF CR 500S	1965	7500046
75-00071 archived	CR 100E	SMITH DITCH	00.50 SOUTH OF CR 500S	1968	7500047
75-00078 archived	CR 250 WEST	BOGUS RUN	00.50 S OF TOTO ROAD	1960	7500049
75-00079 archived	CR 450 SOUTH	SMITH DITCH	00.20 WEST OF RANGE ROAD	1972	7500050
75-00086 archived	CR 900 SOUTH	BOGUS RUN	00.20 WEST OF CR 100W	1940	7500053
75-00096 archived	CR 900S	RYAN DITCH	00.50 W US 421	2016	7500061
75-00154 Archived	CR 100E	ROBBINS DITCH	00.40 N OF CR 400 N	1950	7500081
75-00156 archived	RANGE ROAD	ROBBINS DITCH	00.10 N of CR 400N	1930	7500082

Total Bridges for Category 2 : 21

SUMMARY OF STRUCTURE TYPES

NBI 43A Kind of Material and/or Design	NBI 43B Type of Design and/or Construction	Total
1 - Concrete	01 - Slab	6
1 - Concrete	02 - Stringer/Multi-beam or Girder	1
2 - Concrete continuous	01 - Slab	21
3 - Steel	02 - Stringer/Multi-beam or Girder	4
5 - Prestressed concrete	05 - Box Beam or Girders - Multiple	6
5 - Prestressed concrete	06 - Box Beam or Girders - Single or Spread	1
6 - Prestressed concrete continuous	05 - Box Beam or Girders - Multiple	1
6 - Prestressed concrete continuous	06 - Box Beam or Girders - Single or Spread	3
7 - Wood or Timber	01 - Slab	7
9 - Aluminum, Wrought Iron or Cast Iron	19 - Culvert (includes frame culverts)	7

57 Total Structures

LISTING OF BRIDGES WITH INVENTORY
ROUTES ON THE NATIONAL HIGHWAY SYSTEM

Bridge Number	Facility Carried	Feature Intersected	Location
------------------	------------------	---------------------	----------

Total Bridges On NHS: 0

LISTING OF HISTORICAL STRUCTURES
 (1) ON NATIONAL REGISTER OF HISTORIC PLACES
 (2) ELIGIBLE FOR NATIONAL REGISTER OF HISTORIC PLACES
 (3) POSSIBLY ELIGIBLE FOR NATIONAL REGISTER OF HISTORIC PLACES

Bridg No.	Year Built	NBI43A - Kind of Material and/or Design	NBI43B - Type of Design and/or Construction	Location	Features Intersected
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CATEGORY: 1

Total Bridges for Category 1 : 0

CATEGORY: 2

75-00013	1952	2 - Concrete continuous	01 - Slab	00.01 S OF CR 800 N	ROBBINS DITCH
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Total Bridges for Category 2 : 1

CATEGORY: 3

Total Bridges for Category 3 : 0

LISTING OF NAVIGABLE WATERWAYS

Bridge No.	Facility Intersected	Facility Carried	Vertical Clearance (ft)
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There are no bridges that qualify for Coast Guard Navigation Control.

SUMMARY OF CHANGES IN 91, 92A, 92B, AND 92C

Bridge Number	Routine		Fracture Critical		Underwater		Special	
	91 Old Value	91 New Value	92A Old Value	92A New Value	92B Old Value	92B New Value	92C Old Value	92C New Value

Total Bridges With Changes: 0

INSPECTION STATUS OF SCOUR CRITICAL BRIDGES

- 57 Bridges currently in STARKE County's Inventory.
- 55 Bridges over a waterway (Item #42B coded = 5,6,7,8,9 or 0)
 - 0 Bridges CLOSED due to scour problems
 - 7 Bridges considered SCOUR CRITICAL
 - 1 Bridges with designed and working scour counter measures in-place
 - 0 Bridges with Unknown foundation types

LIST OF "SCOUR CRITICAL BRIDGES":

Bridge No.	NBI Item #113 Code
75-00007	3
75-00025	3
75-00027	3
75-00039B	3
75-00125	3
75-00126	3
75-00137	3

LIST OF BRIDGES "WITH UNKNOWN FOUNDATION TYPES":

Bridge No.	NBI Item #113 Code
------------	--------------------

LOAD CAPACITY STATUS

57 Bridges currently in STARKE County's Inventory.

Method Used:

18	Field Evaluation and Documented Engineering Judgement	31.03%
3	Load Factor (LF) Method Used	5.17%
24	Allowable Stress (AS) Method Used	41.38%
12	Load and Resistance Factor (LRFD) Method Used	22.41%
0	Load Testing Method Used	0%
0	No Rating Analysis Performed	0%
0	Load Factor (LF) Rating Reported by Rating Factor (RF) Method Using MS18 Loading	0%
0	Allowable Stress (AS) Rating Reported By Rating Factor (RF) Method Using MS 18 Loading	0%
0	Load and Resistance Factor Rating (LRFR) Rating Reported By Rating Factor (RF) Method Using HL-93 Loadings	0%
0	Assigned Rating Based On Load Factor Design (LFD) Reported In Metric Tons	0%
0	Assigned Ratings Based On Allowable Stress Design (ASD) Reported In Metric Tons	0%
0	Assigned Ratings Based On Load And Resistance Factor Design (LRFD) Reported In Metric Tons	0%
0	Assigned Rating Based On Load Factor Design (LFD) Reported By Rating Factor Using MS18 Loading	0%
0	Assigned Ratings Based On Allowable Stress Design (ASD) Reported By Rating Factor Using MS18 Loadings	0%
0	Assigned Ratings Based On Load And Resistance Factor Design (LRFD) Reported By Rating Factor Using MS18 Loadings	0%

Bridge No.	Inventory Rating Method	Operating Rating Method	H Inventory Rating	HS Inventory Rating	HS Operating Rating
75-00001 B	3	3	20	36	60
75-00003	0	0	20	36	45
75-00005	0	0	20	36	45
75-00007	3	3	21	26	47
75-00009 B	2	2	20	36	45
75-00010	2	2	14	23	31
75-00013	2	2	16	28	36
75-00014	2	2	20	36	45
75-00015	0	0	20	36	45
75-00017	2	2	17	30	40
75-00022	2	2	20	36	45
75-00023	1	1	18	29	49
75-00025	2	2	20	36	45
75-00027	2	2	16	28	36
75-00028	2	2	20	36	45
75-00031 B	3	3	20	45	60
75-00035	0	0	16	27	36
75-00036 B	0	0	20	36	45

LOAD CAPACITY STATUS

Bridge No.	Inventory Rating Method	Operating Rating Method	H Inventory Rating	HS Inventory Rating	HS Operating Rating
75-00038	2	2	20	27	36
75-00039 B	0	0	20	36	45
75-00042	0	0	20	36	45
75-00043 B	1	1	20	45	60
75-00046 B	3	3	20	36	60
75-00047 B	3	3	20	36	60
75-00050 B	3	3	20	36	60
75-00051 B	2	2	20	36	60
75-00052	2	2	20	36	45
75-00055	2	2	18	27	36
75-00058 B	0	0	20	36	45
75-00059	3	3	28	32	50
75-00061	0	0	20	36	45
75-00062 B	2	2	20	36	45
75-00063	0	0	20	36	45
75-00064	2	2	20	36	45
75-00065	2	2	20	36	45
75-00066	2	2	16	27	36
75-00068	2	2	20	36	45
75-00070 B	0	0	20	36	60
75-00071 B	3	3	20	45	60
75-00078 B	3	3	20	36	60
75-00079 B	1	1	20	36	60
75-00083	2	2	20	36	45
75-00086 B	3	3	20	36	60
75-00088	0	0	20	36	45
75-00089	0	0	20	36	45
75-00092	2	2	20	36	45
75-00115	2	2	20	36	45
75-00117	0	0	20	36	45
75-00125	0	0	20	36	45
75-00126	0	0	20	36	45
75-00137	3	3	25	32	53
75-00140 B	0	0	20	36	45
75-00146	2	2	20	36	45
75-00151	2	2	20	36	45
75-00154 B	0	0	20	36	36
75-00156 B	3	3	20	36	60
75-00157	2	2	16	27	36

57 Total Structures

ROUTINE INSPECTION STATUS

57 Bridges currently in STARKE County's Inventory.
 57 Bridges inspected within Required Re-inspection Timeframe 100%
 0 Bridges inspected BEYOND Required Re-inspection Timeframe 0%

Bridge No.	New Inspection Date	Old Inspection Date	Months Between	Required Months Between Inspections	Number of Months Late
75-00001 B	10/28/2020	10/10/2018	24	24	0
75-00003	10/28/2020	10/09/2018	24	24	0
75-00005	10/28/2020	10/09/2018	24	24	0
75-00007	10/22/2020	09/30/2020	1	12	-11
75-00009 B	10/28/2020	10/10/2018	24	24	0
75-00010	10/28/2020	10/10/2018	24	24	0
75-00013	10/28/2020	10/10/2018	24	24	0
75-00014	10/28/2020	10/10/2018	24	24	0
75-00015	10/28/2020	10/09/2018	24	24	0
75-00017	10/28/2020	10/10/2018	24	24	0
75-00022	10/28/2020	10/10/2018	24	24	0
75-00023	10/28/2020	09/30/2020	1	12	-11
75-00025	10/22/2020	10/10/2018	24	24	0
75-00027	10/22/2020	10/11/2018	24	24	0
75-00028	10/22/2020	10/10/2018	24	24	0
75-00031 B	10/22/2020	10/10/2018	24	24	0
75-00035	10/22/2020	10/11/2018	24	24	0
75-00036 B	10/22/2020	10/11/2018	24	24	0
75-00038	10/22/2020	10/11/2018	24	24	0
75-00039 B	10/22/2020	10/10/2018	24	24	0
75-00042	10/28/2020	10/09/2018	24	24	0
75-00043 B	10/28/2020	10/10/2018	24	24	0
75-00046 B	10/05/2020	10/11/2018	24	24	0
75-00047 B	10/05/2020	10/11/2018	24	24	0
75-00050 B	10/05/2020	10/11/2018	24	24	0
75-00051 B	10/05/2020	10/11/2018	24	24	0
75-00052	10/05/2020	10/11/2018	24	24	0
75-00055	10/05/2020	10/11/2018	24	24	0
75-00058 B	10/05/2020	10/10/2018	24	24	0
75-00059	10/05/2020	09/30/2020	1	12	-11
75-00061	10/05/2020	10/10/2018	24	24	0
75-00062 B	10/05/2020	10/11/2018	24	24	0
75-00063	10/05/2020	10/09/2018	24	24	0
75-00064	10/05/2020	10/11/2018	24	24	0
75-00065	10/05/2020	10/11/2018	24	24	0
75-00066	10/05/2020	10/10/2018	24	24	0
75-00068	10/05/2020	10/09/2018	24	24	0
75-00070 B	10/05/2020	10/10/2018	24	24	0
75-00071 B	10/05/2020	10/10/2018	24	24	0
75-00078 B	10/05/2020	10/09/2018	24	24	0
75-00079 B	10/05/2020	10/10/2018	24	24	0

ROUTINE INSPECTION STATUS

Bridge No.	New Inspection Date	Old Inspection Date	Months Between	Required Months Between Inspections	Number of Months Late
75-00083	10/05/2020	10/09/2018	24	24	0
75-00086 B	10/05/2020	10/11/2018	24	24	0
75-00088	10/05/2020	10/10/2018	24	24	0
75-00089	10/22/2020	10/09/2018	24	24	0
75-00092	10/05/2020	10/09/2018	24	24	0
75-00115	10/22/2020	10/11/2018	24	24	0
75-00117	10/22/2020	10/11/2018	24	24	0
75-00125	10/22/2020	10/11/2018	24	24	0
75-00126	10/22/2020	10/11/2018	24	24	0
75-00137	10/22/2020	09/30/2020	1	12	-11
75-00140B	10/28/2020	09/30/2020	1	24	-23
75-00146	10/28/2020	10/09/2018	24	24	0
75-00151	10/28/2020	10/09/2018	24	24	0
75-00154 B	10/28/2020	09/30/2020	1	24	-23
75-00156 B	10/28/2020	10/11/2018	24	24	0
75-00157	10/05/2020	10/11/2018	24	24	0

57 Total Structures

INSPECTION STATUS OF FRACTURE CRITICAL BRIDGE INSPECTION

- 57 Bridges currently in STARKE County's Inventory.
- 0 Bridges coded "YES" in Item 92A (Non-Redundant)
- 0 Bridges inspected within Required Re-inspection Timeframe 0%
- 0 Bridges inspected BEYOND Required Re-inspection Timeframe 0%

Bridge No.	New Inspection Date	Old Inspection Date	Item #92A Coding	Months Between Inspection	Required Months Between Inspections	Number of Months Late
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0 Total Structures

INSPECTION STATUS OF UNDERWATER/IN-WATER INSPECTION

57 Bridges currently in STARKE County's Inventory.

1 Bridges coded "YES" in Item 92B

1 Bridges inspected within Required Re-inspection Timeframe 100%

0 Bridges inspected BEYOND Required Re-inspection Timeframe 0%

Bridge No.	New Inspection Date	Old Inspection Date	Item #92B Coding	Months Between Inspection	Required Months Between Inspections	Number of Months Late
75-00137	09/26/2019	09/29/2017	Y24	24	24	0

1 Total Structures

INSPECTION STATUS OF SPECIAL BRIDGE INSPECTION

- 57 Bridges currently in STARKE County's Inventory.
- 1 Bridges coded "YES" in Item 92C
- 1 Bridges inspected within Required Re-inspection Timeframe 100%
- 0 Bridges inspected BEYOND Required Re-inspection Timeframe 0%

Bridge No.	New Inspection Date	Old Inspection Date	Item #92C Coding	Months Between Inspection	Required Months Between Inspections	Number of Months Late
75-00059	09/05/2019	10/09/2018	Y12	11	12	-1

1 Total Structures

WORK PLAN FOR INSPECTIONS AND RE-INSPECTIONS

57 Bridges currently in STARKE County's Inventory.

53	Bridges with Biennial Re-Inspection Frequencies of 24 Months	91.38%
4	Bridges with Biennial Re-Inspection Frequencies of Less than 24 Months	8.62%

0 Bridges Require Item #92A Inspections: Non-Redundant Bridges

0	Bridges with 92A Re-Inspection Frequencies of 24 Months	N/A
0	Bridges with 92A Re-Inspection Frequencies of Less than 24 Months	N/A

1 Bridges Require Item #92B Inspections: Underwater Inspections

0	Bridges with 92B Re-Inspection Frequencies of 60 Months	0%
1	Bridges with 92B Re-Inspection Frequencies of Less than 60 Months	100%

1 Bridges Require Item #92C Inspections: Special Bridge Detail Inspections

0	Bridges with 92C Re-Inspection Frequencies of 24 Months	0%
1	Bridges with 92C Re-Inspection Frequencies of Less than 24 Months	100%

The County or assigned representative will monitor all of the bridges that have been recommended to be monitored in this Report by the Consultant.

MASTER LIST - LIST OF BRIDGES REQUIRING IN-DEPTH INSPECTIONS

Bridge No.	Fracture Critical / Non- Redundant Inspection	Underwater Inspection	Special Inspection
75-00059	N	N	Y12
75-00137	N	Y24	N

Total Bridges Requiring In-Depth Inspection: 2

BRIDGE INVENTORY REPORTS

FOR

STARKE COUNTY
INDIANA

PHASE II - 20**20**

Prepared For:

Starke County
Board of County
Commissioners



LOOKING WEST FROM ROADWAY



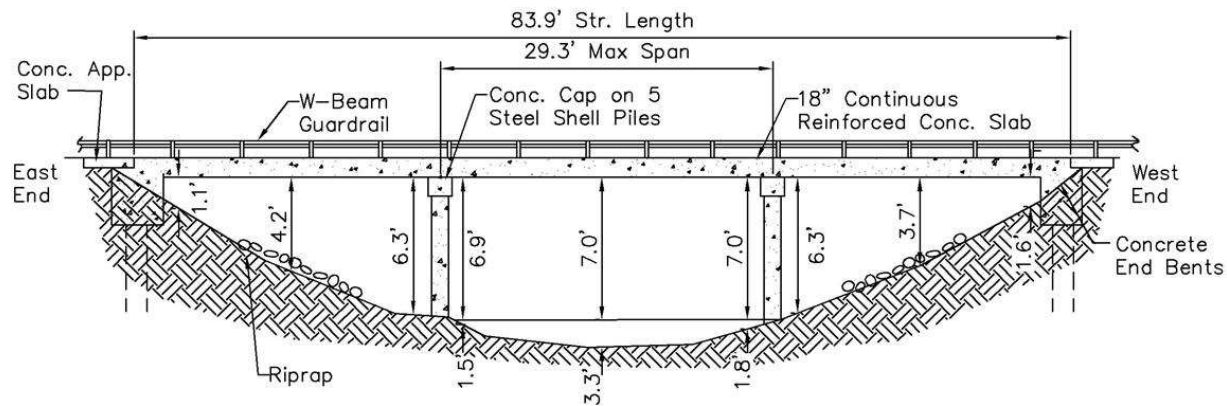
LOOKING EAST FROM ROADWAY



LOOKING SOUTH THROUGH CHANNEL



LOOKING NORTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00001 B
 CR 700N over ROBBINS DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500095
Facility Carried: CR 700N

Bridge Number: 75-00001 B
Feature(s) Intersected: ROBBINS DITCH

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	30708 (HAMLET)
8.	NBI Number:	7500095			
5.	Inventory Route On:	1-4-1- 70-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	ROBBINS DITCH	11.	Mile Point (over):	0
7.	Facility Carried:	CR 700N	16.	Latitude:	41.40411
9.	Location:	00.30 W CR 500 E	17.	Longitude:	-86.60611

STRUCTURE DATA

43A.	Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	01 (SLAB)	45.	Number of Spans - Main:	3
107.	Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46.	Number of Spans - Approach:	0
108A.	Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B.	Membrane:	N (N/A)
108C.	Protection	1 (EPOXY COATED REINFORCING)			

AGE OF SERVICE

27.	Year Built:	2016	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	515 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	725 VPD	115.	Future ADT Year:	2036
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	1 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	29.4 ft.	49.	Structure Length:	83.9 ft.
50A.	Sidewalk/Curb Left:	0.0 ft.	50B.	Sidewalk/Curb Right:	0.0 ft.
51.	Bridge Roadway Width:	25.5 ft.	52.	Deck Width (O-O)	26.1 ft.
32.	Approach Roadway Width:	20 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	45 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	25.5 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500095
Facility Carried: CR 700N

Bridge Number: 75-00001 B
Feature(s) Intersected: ROBBINS DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
59.	Superstructure:	Material: PRESTR. CONC. BOX BMS	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	A (HL 93)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500095
Facility Carried: CR 700N

Bridge Number: 75-00001 B
Feature(s) Intersected: ROBBINS DITCH

APPRAISAL

67.	Structural:	8
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - STRAIGHT, LEVEL
	Material:	CONCRETE
	Comments:	NEW CONCRETE DECK
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	NO SCOUR NOTED

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 91.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING EAST FROM ROADWAY



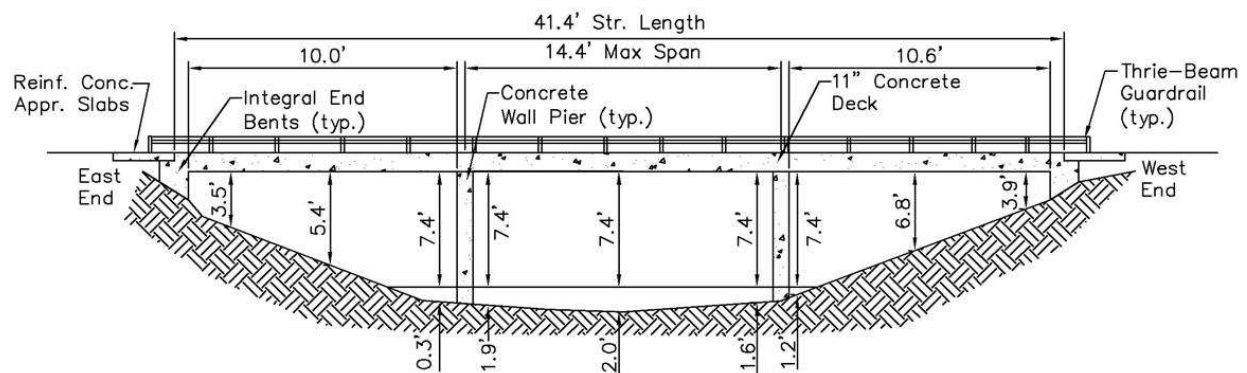
LOOKING WEST FROM ROADWAY



LOOKING NORTH THROUGH CHANNEL



LOOKING SOUTH UPSTREAM



STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500003
Facility Carried: CR 500 NORTH

Bridge Number: 75-00003
Feature(s) Intersected: JAIN DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500003		
5. Inventory Route On:	1-4-1- 470-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	JAIN DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 500 NORTH	16. Latitude:	41.37503
9. Location:	00.01 W OF CR 800 E	17. Longitude:	-86.543755

STRUCTURE DATA

43A. Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	N (N/A)
108C. Protection	1 (EPOXY COATED REINFORCING)		

AGE OF SERVICE

27. Year Built:	2003	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	515 VPD	30. ADT Year Over:	2016
114. Future ADT:	750 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	14.4 ft.	49. Structure Length:	41.4 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	30 ft.	52. Deck Width (O-O)	30.6 ft.
32. Approach Roadway Width:	21 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	30 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500003
Facility Carried: CR 500 NORTH

Bridge Number: 75-00003
Feature(s) Intersected: JAIN DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	7
	GOOD - MINOR CRACKS, EFFLORESCENCE			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	7
	GOOD - MINOR LONGITUDINAL CRACKS			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	7
	GOOD - CRACK, EFFLORESCENCE			
60.	Substructure:	Material: CONC. BENTS/PIERS	Rating:	7
	GOOD - MINOR CRACKS			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - SEDIMENTATION			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500003
Facility Carried: CR 500 NORTH

Bridge Number: 75-00003
Feature(s) Intersected: JAIN DITCH

APPRAISAL

67.	Structural:	7
68.	Geometry:	6
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	1 (MEETS ACCEPTABLE STANDARDS)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - STRAIGHT, LEVEL
	Material:	CONC. APPR SLAB/BIT.
	Comments:	TRANSVERSE CRACKS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	0

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT APPROACH RAILING WITH END TREATMENTS AND NORTHEAST, SOUTHEAST AND SOUTHWEST BRIDGE END MARKERS.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 98.9
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING WEST FROM ROADWAY



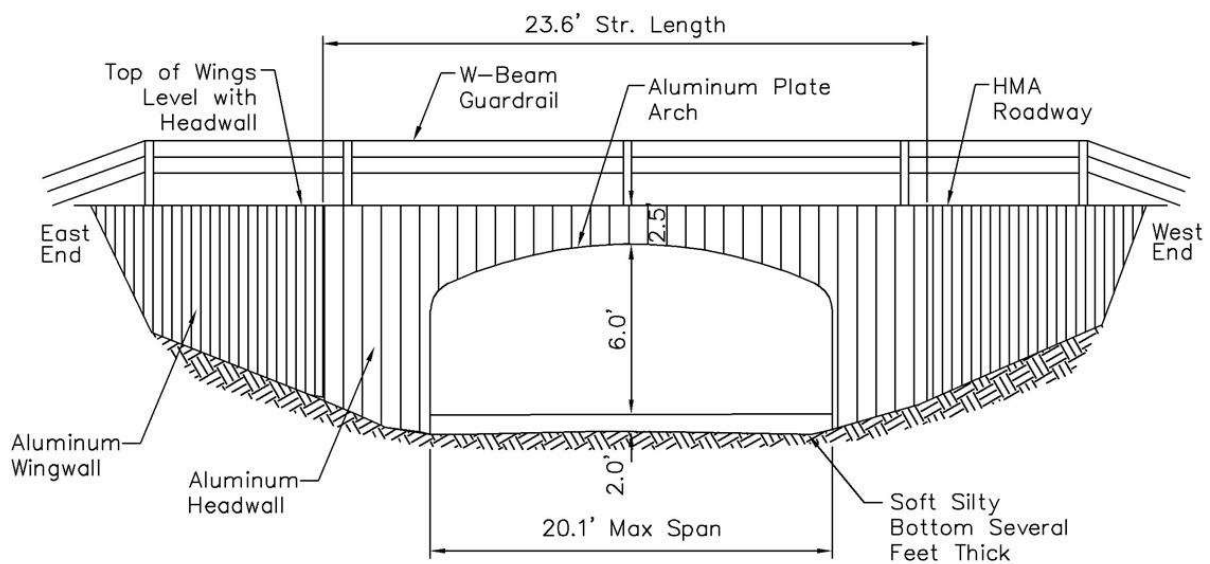
LOOKING EAST FROM ROADWAY



LOOKING NORTH THROUGH CHANNEL



LOOKING SOUTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00005
CR 400N over JAIN DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500004
Facility Carried: CR 400N

Bridge Number: 75-00005
Feature(s) Intersected: JAIN DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500004		
5. Inventory Route On:	1-4-1- 60-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	JAIN DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 400N	16. Latitude:	41.36049
9. Location:	00.50 E CR 800 E	17. Longitude:	-86.53389

STRUCTURE DATA

43A. Structure Type - Main Span:	9 (METAL)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	19 (CULVERT)	45. Number of Spans - Main:	1
107. Deck Structure Type:	N (N/A - UNDER FILL)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	N (N/A)
108C. Protection	N (N/A)		

AGE OF SERVICE

27. Year Built:	2005	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	400 VPD	30. ADT Year Over:	2016
114. Future ADT:	750 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	20.1 ft.	49. Structure Length:	23.6 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	28.6 ft.	52. Deck Width (O-O)	34.3 ft.
32. Approach Roadway Width:	20.5 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	28.6 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500004
Facility Carried: CR 400N

Bridge Number: 75-00005
Feature(s) Intersected: JAIN DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: N/A	Rating:	N
	N/A			
58.01.	Wearing Surface:	Material: CHIP & SEAL (4")	Rating:	7
	GOOD - MINOR CRACKS			
59.	Superstructure:	Material: N/A	Rating:	N
	N/A			
60.	Substructure:	Material: N/A	Rating:	N
	N/A			
61.	Channel:	Material: NATURAL	Rating:	6
	SATIS - 6" TO 36" SILTATION			
62.	Culvert/Ret:	Material: ALUMINUM MULTI-PLATE BOX	Rating:	6
	SATIS - 6" DEFLECTION TOP EAST CENTER			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	65	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	42	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	37 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500004
Facility Carried: CR 400N

Bridge Number: 75-00005
Feature(s) Intersected: JAIN DITCH

APPRAISAL

67.	Structural:	6
68.	Geometry:	6
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - STRAIGHT, LEVEL, DRIVES
	Material:	CHIP & SEAL
	Comments:	CRACKS
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED./)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING AND APPROACH RAIL WITH END TREATMENTS.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 96.9
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING SOUTH FROM ROADWAY



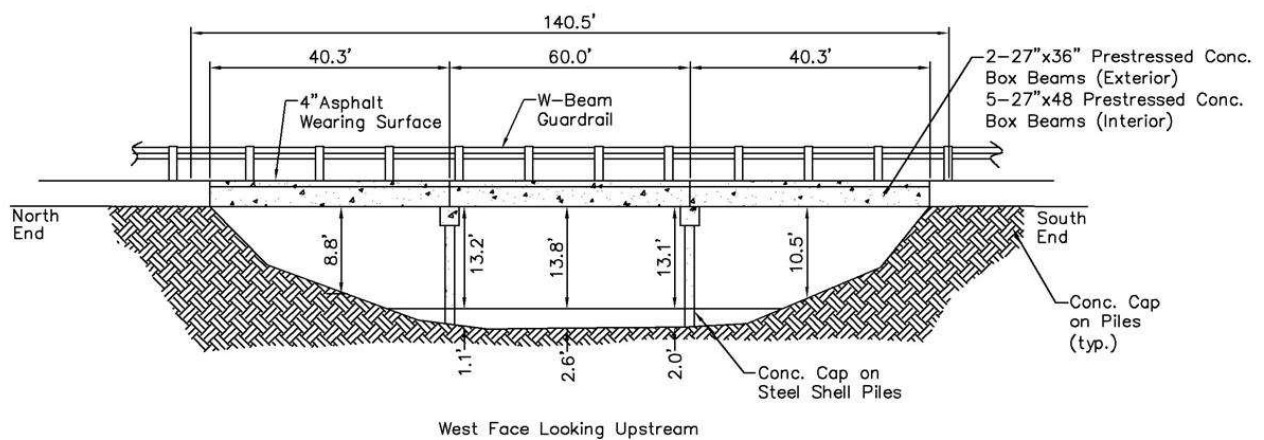
LOOKING NORTH FROM ROADWAY



LOOKING WEST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00007 CR 1200 EAST over YELLOW RIVER

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500005
Facility Carried: CR 1200 EAST

Bridge Number: 75-00007
Feature(s) Intersected: YELLOW RIVER

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500005		
5. Inventory Route On:	1-4-1- 91-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	YELLOW RIVER	11. Mile Point (over):	0
7. Facility Carried:	CR 1200 EAST	16. Latitude:	41.2715
9. Location:	00.50 N CR 250 S	17. Longitude:	-86.46655

STRUCTURE DATA

43A. Structure Type - Main Span:	5 (PRESTRESSED CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	05 (ADJACENT BOX BEAM)	45. Number of Spans - Main:	3
107. Deck Structure Type:	2 (CONCRETE PRECAST)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	0 (NONE)		

AGE OF SERVICE

27. Year Built:	1977	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	500 VPD	30. ADT Year Over:	2017
114. Future ADT:	750 VPD	115. Future ADT Year:	2037
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	60 ft.	49. Structure Length:	140.5 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	26.1 ft.	52. Deck Width (O-O)	26.1 ft.
32. Approach Roadway Width:	20 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	26.1 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500005
Facility Carried: CR 1200 EAST

Bridge Number: 75-00007
Feature(s) Intersected: YELLOW RIVER

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: PRESTR. CONC. BOX BMS	Rating:	3
	SERIOUS - SPALLS, SEEPAGE, EFFLORESCENCE			
58.01.	Wearing Surface:	Material: BITUMINOUS (4")	Rating:	5
	FAIR - EXCESSIVE CRACKING			
59.	Superstructure:	Material: PRESTR. CONC. BOX BMS	Rating:	3
	SERIOUS - SPALLS, BROKEN STRANDS			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	4
	POOR - FLAKING RUST, CRACKS, EFFLORESCENCE			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	5
	FAIR - BANK EROSION AT END BENT CAPS			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	0 (UNKNOWN)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	47	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	26	66C.	Tons Posted:	14 Tons
66B.	Gross Tons or H Rating:	21 Tons	66D.	Date Posted/Closed:	12/20/2011
41.	Open, Posted, or Closed:	P (POSTED FOR LOAD)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500005

Bridge Number: 75-00007

Facility Carried: CR 1200 EAST

Feature(s) Intersected: YELLOW RIVER

APPRAISAL

67.	Structural:	3
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	6
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	6 - SATISFACTORY, STRAIGHT, HILL TO SOUTH, DRIVES AT NORTH AND SOUTH ENDS
	Material:	BITUMINOUS
	Comments:	CRACKS, SETTLED
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	31 (RECOMMEND REPLACEMENT DUE TO SUPER AND SUB STRUCTURE DETERIORATION.)
75B.	Work Done By:	1 (CONTRACT)
76.	Improvement Length:	173 ft.
94.	Bridge Improvement Costs:	833 x 1000
95.	Roadway Improvement Costs:	190 x 1000
96.	Total Project Cost:	1291 x 1000
97.	Year of Cost Estimate:	2021

RECOMMENDED MAINTENANCE

UNTIL REPLACEMENT, RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING WITH BRIDGE END MARKERS.

INSPECTION DATA

90.	Date:	10/22/2020	91.	Des. Inspection Frequency:	12 Months
92.	Critical Feature Inspection:	A: N B: N C: N			
93.	Date:	A: B: C:			

Unofficial Sufficiency Rating: 36.6

Unofficial Structural and Functional Classification: 1 (STRUCTURALLY DEFICIENT)



LOOKING NORTH FROM ROADWAY



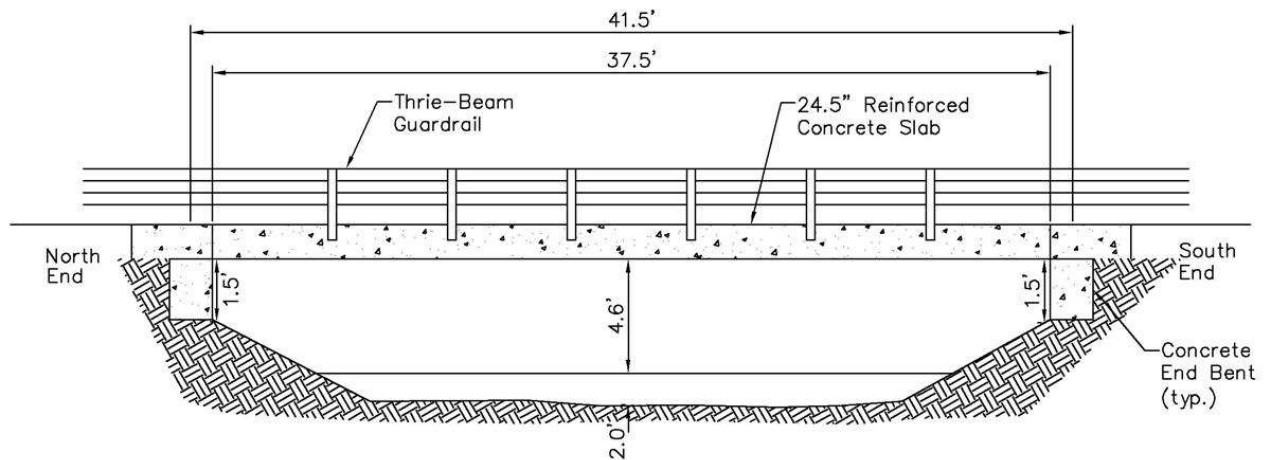
LOOKING SOUTH FROM ROADWAY



LOOKING WEST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00009 B
CR 500 EAST over JAIN DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500084
Facility Carried: CR 500 EAST

Bridge Number: 75-00009 B
Feature(s) Intersected: JAIN DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500084		
5. Inventory Route On:	1-4-1- 467-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	JAIN DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 500 EAST	16. Latitude:	41.40401
9. Location:	00.00 INT OF CR 700 N	17. Longitude:	-86.601501

STRUCTURE DATA

43A. Structure Type - Main Span:	1 (CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	1
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	N (N/A)
108C. Protection	1 (EPOXY COATED REINFORCING)		

AGE OF SERVICE

27. Year Built:	2012	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	200 VPD	30. ADT Year Over:	2016
114. Future ADT:	500 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	37.5 ft.	49. Structure Length:	41.5 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	23.9 ft.	52. Deck Width (O-O)	24.4 ft.
32. Approach Roadway Width:	21 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	23.9 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500084
Facility Carried: CR 500 EAST

Bridge Number: 75-00009 B
Feature(s) Intersected: JAIN DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	7
	GOOD - 8 TRANSVERSE CRACKS AT COPINGS			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	7
	GOOD - HAIRLINE TRANSVERSE CRACKS			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	7
	GOOD - HAIRLINE CRACKS			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
61.	Channel:	Material: RIPRAP/NATURAL	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500084
Facility Carried: CR 500 EAST

Bridge Number: 75-00009 B
Feature(s) Intersected: JAIN DITCH

APPRAISAL

67.	Structural:	7
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	1 (MEETS ACCEPTABLE STANDARDS)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	6 - STRAIGHT, NARROW, LEVEL, '+' INTERSECTION NORTH
	Material:	CHIP & SEAL
	Comments:	CRACKS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

NO MAINTENANCE NEEDED.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 94.5
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING SOUTH FROM ROADWAY



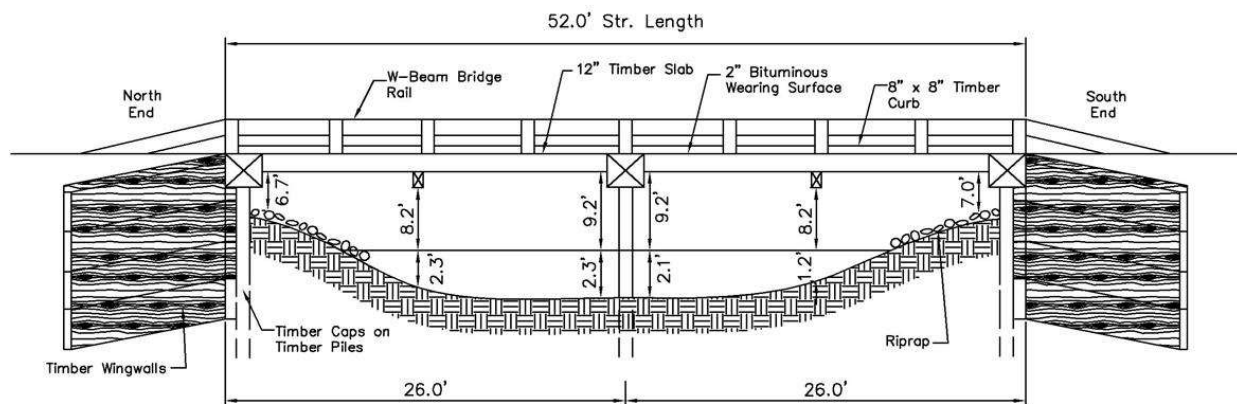
LOOKING NORTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00010
CR 500 EAST over ROBBINS DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500007
Facility Carried: CR 500 EAST

Bridge Number: 75-00010
Feature(s) Intersected: ROBBINS DITCH

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500007			
5.	Inventory Route On:	1-4-1- 467-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	ROBBINS DITCH	11.	Mile Point (over):	0
7.	Facility Carried:	CR 500 EAST	16.	Latitude:	41.40633
9.	Location:	00.10 N CR 700 N	17.	Longitude:	-86.601501

STRUCTURE DATA

43A.	Structure Type - Main Span:	7 (TIMBER)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	01 (SLAB)	45.	Number of Spans - Main:	2
107.	Deck Structure Type:	8 (WOOD OR TIMBER)	46.	Number of Spans - Approach:	0000
108A.	Wearing Surface:	6 (BITUMINOUS)	108B.	Membrane:	0 (NONE)
108C.	Protection	7 (INTERNALLY SEALED)			

AGE OF SERVICE

27.	Year Built:	1978	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	527 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	768 VPD	115.	Future ADT Year:	2036
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	26 ft.	49.	Structure Length:	52 ft.
50A.	Sidewalk/Curb Left:	0.7 ft.	50B.	Sidewalk/Curb Right:	0.7 ft.
51.	Bridge Roadway Width:	25.1 ft.	52.	Deck Width (O-O)	26.5 ft.
32.	Approach Roadway Width:	19 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	25 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	25.1 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500007
Facility Carried: CR 500 EAST

Bridge Number: 75-00010
Feature(s) Intersected: ROBBINS DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: TIMBER	Rating:	6
	SATIS - GAPS BETWEEN PLANKS AT COPINGS			
58.01.	Wearing Surface:	Material: BITUMINOUS (2")	Rating:	5
	FAIR - CRACKS, RAVELING, PATCHES			
59.	Superstructure:	Material: TIMBER SLAB	Rating:	6
	SATIS - GAPS BETWEEN SPREADER BEAMS			
60.	Substructure:	Material: TIMBER CAP ON PILES	Rating:	6
	SATIS - CHECKS			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	6
	SATIS - BANK SLOUGHING			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	80	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	60	66C.	Tons Posted:	14 Tons
66B.	Gross Tons or H Rating:	35 Tons	66D.	Date Posted/Closed:	8/1/1996
41.	Open, Posted, or Closed:	P (POSTED FOR LOAD)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500007
Facility Carried: CR 500 EAST

Bridge Number: 75-00010
Feature(s) Intersected: ROBBINS DITCH

APPRAISAL

67.	Structural:	6
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, BRIDGE SLIGHTLY ABOVE APPROACHES
	Material:	BITUMINOUS
	Comments:	SETTLED, RAVELING, CRACKS
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	0

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING WITH END TREATMENTS.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 88.9
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING NORTH FROM ROADWAY



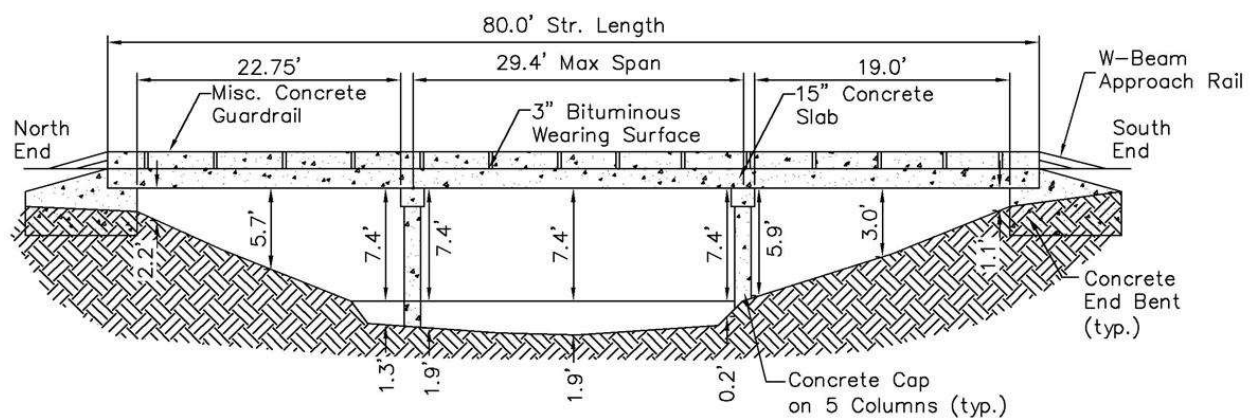
LOOKING SOUTH FROM ROADWAY



LOOKING WEST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00013
CR 600E over ROBBINS DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500008
Facility Carried: CR 600E

Bridge Number: 75-00013
Feature(s) Intersected: ROBBINS DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500008		
5. Inventory Route On:	1-4-1- 469-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	ROBBINS DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 600E	16. Latitude:	41.41792
9. Location:	00.01 S OF CR 800 N	17. Longitude:	-86.582275

STRUCTURE DATA

43A. Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	0 (NONE)		

AGE OF SERVICE

27. Year Built:	1952	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	862 VPD	30. ADT Year Over:	2016
114. Future ADT:	1256 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	29.4 ft.	49. Structure Length:	80 ft.
50A. Sidewalk/Curb Left:	1.2 ft.	50B. Sidewalk/Curb Right:	1.2 ft.
51. Bridge Roadway Width:	22.2 ft.	52. Deck Width (O-O)	26.3 ft.
32. Approach Roadway Width:	18 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	47 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	22.2 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500008
Facility Carried: CR 600E

Bridge Number: 75-00013
Feature(s) Intersected: ROBBINS DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	2 (ELIGIBLE FOR NATIONAL REGISTER)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	5
	FAIR - CRACKS, EFFLORESCENCE			
58.01.	Wearing Surface:	Material: BITUMINOUS (3")	Rating:	5
	FAIR - CRACKS, RAVELING			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	5
	FAIR - CRACKS, EFFLORESCENCE			
60.	Substructure:	Material: CONC. CAPS ON PILES	Rating:	5
	FAIR - CONCRETE COLUMN DETERIORATION, EXPOSED REINFORCING			
61.	Channel:	Material: NATURAL-RIPRAP	Rating:	6
	SATIS - BANK SLOUGHING, SEDIMENTATION			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	0 (UNKNOWN)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500008
Facility Carried: CR 600E

Bridge Number: 75-00013
Feature(s) Intersected: ROBBINS DITCH

APPRAISAL

67.	Structural:	5
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	1 (MEETS ACCEPTABLE STANDARDS)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL, INTERSECTION NORTH
	Material:	BITUMINOUS
	Comments:	CRACKS, SETTLED
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	31 (RECOMMEND REPLACEMENT DUE TO ADVANCING DETERIORATION, POOR DECK GEOMETRY, AND SUB-STRUCTURAL DETERIORATION.)
75B.	Work Done By:	1 (CONTRACT)
76.	Improvement Length:	108 ft.
94.	Bridge Improvement Costs:	524 x 1000
95.	Roadway Improvement Costs:	190 x 1000
96.	Total Project Cost:	901 x 1000
97.	Year of Cost Estimate:	2021

RECOMMENDED MAINTENANCE

NO MAINTENANCE NEEDED.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 70.7
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING NORTH FROM ROADWAY



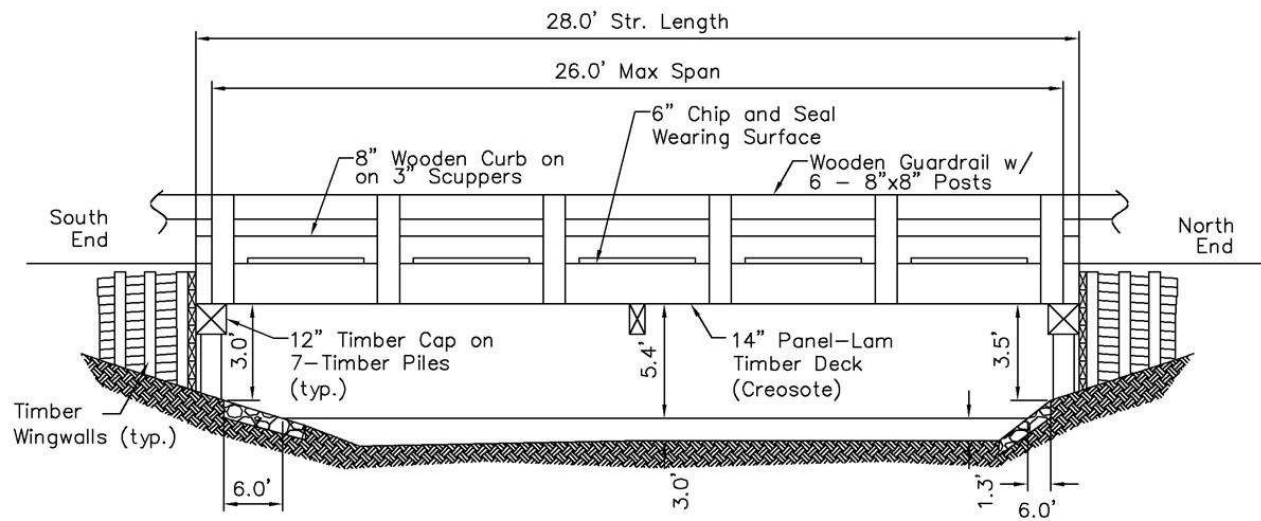
LOOKING SOUTH FROM ROADWAY



LOOKING WEST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00014 CR 600E over JAIN DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500009
Facility Carried: CR 600E

Bridge Number: 75-00014
Feature(s) Intersected: JAIN DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500009		
5. Inventory Route On:	1-4-1- 469-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	JAIN DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 600E	16. Latitude:	41.40182
9. Location:	00.20 S CR 700 N	17. Longitude:	-86.582253

STRUCTURE DATA

43A. Structure Type - Main Span:	7 (TIMBER)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	1
107. Deck Structure Type:	8 (WOOD OR TIMBER)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	7 (INTERNALLY SEALED)		

AGE OF SERVICE

27. Year Built:	1996	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	800 VPD	30. ADT Year Over:	2016
114. Future ADT:	1200 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48. Maximum Span Length:	26 ft.	49. Structure Length:	28 ft.
50A. Sidewalk/Curb Left:	0.7 ft.	50B. Sidewalk/Curb Right:	0.7 ft.
51. Bridge Roadway Width:	26.3 ft.	52. Deck Width (O-O)	27.7 ft.
32. Approach Roadway Width:	20 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	26.3 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500009
Facility Carried: CR 600E

Bridge Number: 75-00014
Feature(s) Intersected: JAIN DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: TIMBER	Rating:	7
	GOOD - MINOR CHECKS			
58.01.	Wearing Surface:	Material: CHIP & SEAL (6")	Rating:	6
	SATIS - CRACKED			
59.	Superstructure:	Material: TIMBER SLAB	Rating:	7
	GOOD - MINOR CHECKS			
60.	Substructure:	Material: TIMBER CAP ON PILES	Rating:	7
	GOOD - MINOR CHECKS			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - MINOR BANK EROSION			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	89	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	66	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	38 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500009
Facility Carried: CR 600E

Bridge Number: 75-00014
Feature(s) Intersected: JAIN DITCH

APPRAISAL

67.	Structural:	7
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	1 (MEETS ACCEPTABLE STANDARDS)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL
	Material:	CHIP & SEAL
	Comments:	CRACKS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

NO MAINTENANCE NEEDED.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 87.6
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING EAST FROM ROADWAY



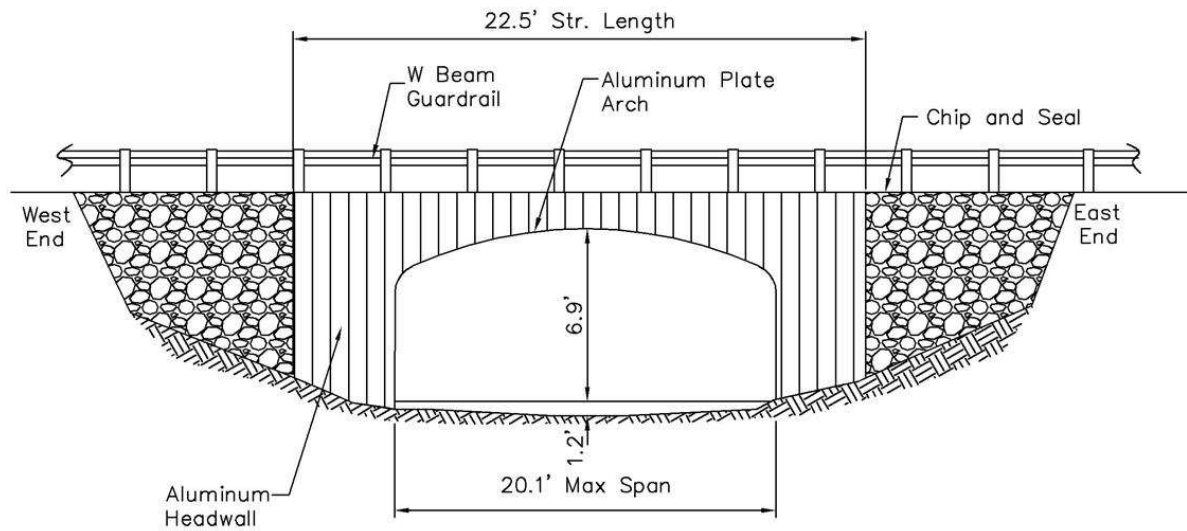
LOOKING WEST FROM ROADWAY



LOOKING NORTH THROUGH CHANNEL



LOOKING SOUTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00015 CR 600N over JAIN DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500010
Facility Carried: CR 600N

Bridge Number: 75-00015
Feature(s) Intersected: JAIN DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500010		
5. Inventory Route On:	1-4-1- 198-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	JAIN DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 600N	16. Latitude:	41.38954
9. Location:	00.10 E CR 800 E	17. Longitude:	-86.541084

STRUCTURE DATA

43A. Structure Type - Main Span:	9 (METAL)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	19 (CULVERT)	45. Number of Spans - Main:	1
107. Deck Structure Type:	N (N/A - UNDER FILL)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	N (N/A)
108C. Protection	N (N/A)		

AGE OF SERVICE

27. Year Built:	2007	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	500 VPD	30. ADT Year Over:	2016
114. Future ADT:	800 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48. Maximum Span Length:	20.1 ft.	49. Structure Length:	22.5 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	28 ft.	52. Deck Width (O-O)	34.5 ft.
32. Approach Roadway Width:	21 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	28 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500010
Facility Carried: CR 600N

Bridge Number: 75-00015
Feature(s) Intersected: JAIN DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: N/A	Rating:	N
	N/A			
58.01.	Wearing Surface:	Material: CHIP & SEAL (4")	Rating:	6
	SATIS - CRACKS			
59.	Superstructure:	Material: N/A	Rating:	N
	N/A			
60.	Substructure:	Material: N/A	Rating:	N
	N/A			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	6
	SATIS - BANK SLOUGHING, MINOR EROSION AT PIPE INLET			
62.	Culvert/Ret:	Material: ALUMINUM PLATE BOX	Rating:	6
	SATIS - MINOR SETTLEMENT AND DEFORMATIONS			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	47	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	31	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	27 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500010
Facility Carried: CR 600N

Bridge Number: 75-00015
Feature(s) Intersected: JAIN DITCH

APPRAISAL

67.	Structural:	6
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL
	Material:	CHIP & SEAL
	Comments:	CRACKS, SETTLED
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 95.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING NORTH FROM ROADWAY



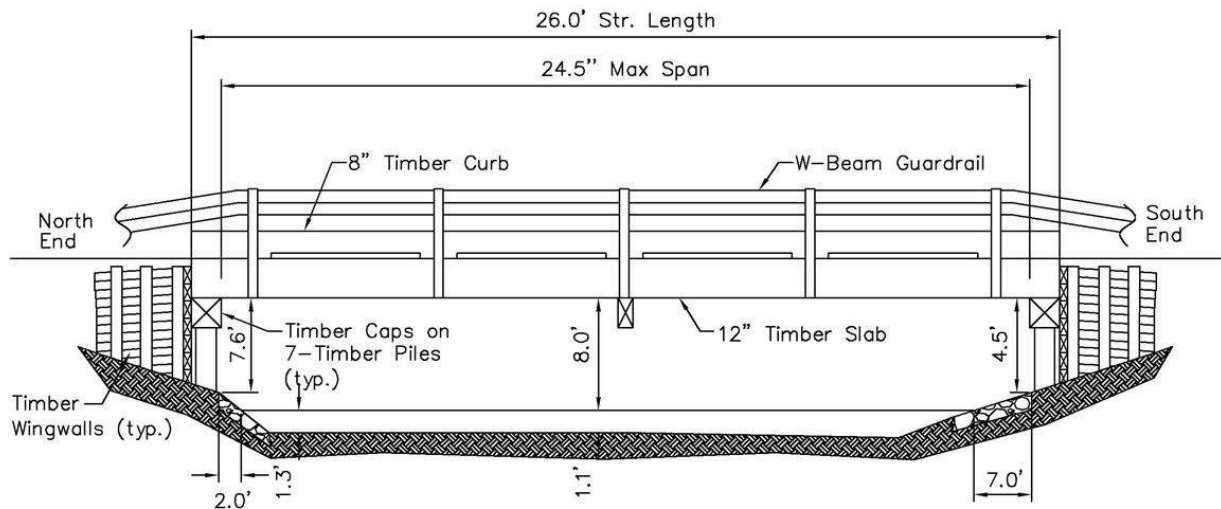
LOOKING SOUTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00017 CR 925 EAST over ROBBINS DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500011
Facility Carried: CR 925 EAST

Bridge Number: 75-00017
Feature(s) Intersected: ROBBINS DITCH

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500011			
5.	Inventory Route On:	1-4-1- 223-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	ROBBINS DITCH	11.	Mile Point (over):	0
7.	Facility Carried:	CR 925 EAST	16.	Latitude:	41.42905
9.	Location:	00.30 N CR 850 N	17.	Longitude:	-86.519775

STRUCTURE DATA

43A.	Structure Type - Main Span:	7 (TIMBER)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	01 (SLAB)	45.	Number of Spans - Main:	1
107.	Deck Structure Type:	8 (WOOD OR TIMBER)	46.	Number of Spans - Approach:	0000
108A.	Wearing Surface:	7 (WOOD OR TIMBER)	108B.	Membrane:	N (N/A)
108C.	Protection	7 (INTERNALLY SEALED)			

AGE OF SERVICE

27.	Year Built:	1981	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	200 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	325 VPD	115.	Future ADT Year:	2036
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	23.9 ft.	49.	Structure Length:	26 ft.
50A.	Sidewalk/Curb Left:	0.7 ft.	50B.	Sidewalk/Curb Right:	0.7 ft.
51.	Bridge Roadway Width:	24.8 ft.	52.	Deck Width (O-O)	26.2 ft.
32.	Approach Roadway Width:	16 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	15 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	24.8 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500011
Facility Carried: CR 925 EAST

Bridge Number: 75-00017
Feature(s) Intersected: ROBBINS DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: TIMBER	Rating:	6
	SATIS - IMPACT DAMAGE ON TOP			
58.01.	Wearing Surface:	Material: TIMBER	Rating:	5
	FAIR - IMPACT DAMAGE			
59.	Superstructure:	Material: TIMBER SLAB	Rating:	6
	SATIS - SEEPAGE			
60.	Substructure:	Material: TIMBER CAP ON PILES	Rating:	6
	SATIS - SEEPAGE, STAINED BACKING BOARDS			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	6
	SATIS - BANK SLOUGHING			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	92	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	68	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	38 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500011

Bridge Number: 75-00017

Facility Carried: CR 925 EAST

Feature(s) Intersected: ROBBINS DITCH

APPRAISAL

67.	Structural:	6
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, NARROW, NEARLY LEVEL
	Material:	GRAVEL
	Comments:	WASHBOARDED
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

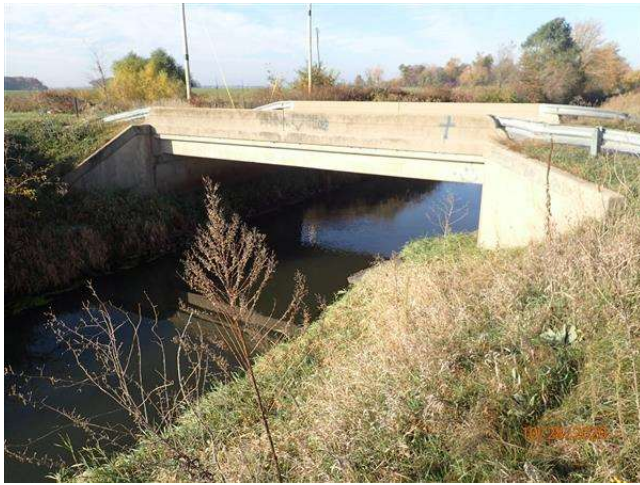
Unofficial Sufficiency Rating: 95.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING NORTH FROM ROADWAY



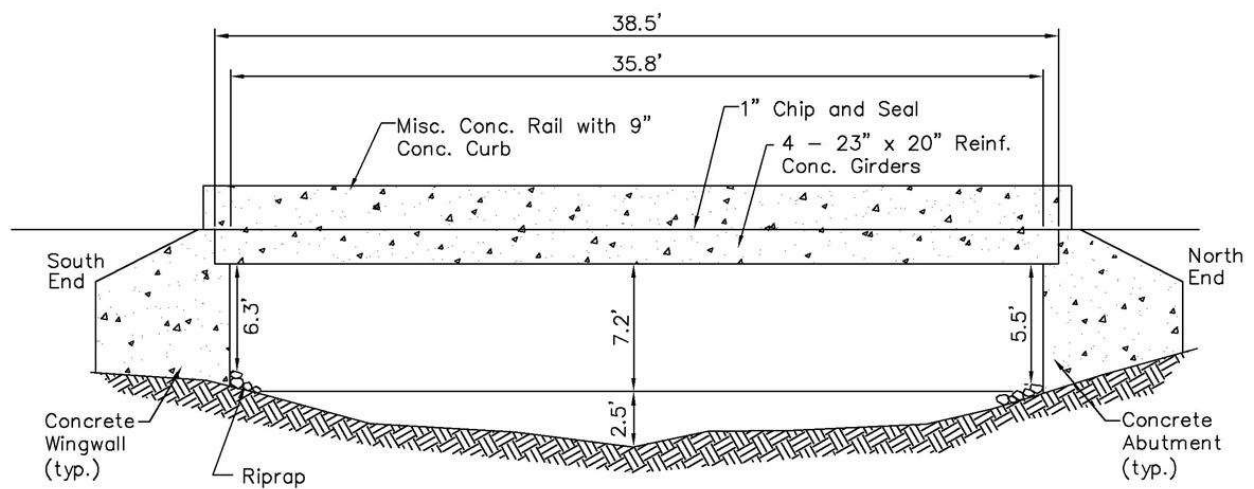
LOOKING SOUTH FROM ROADWAY



LOOKING WEST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00022 CR 700 EAST over ROBBINS DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500014
Facility Carried: CR 700 EAST

Bridge Number: 75-00022
Feature(s) Intersected: ROBBINS DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500014		
5. Inventory Route On:	1-4-1- 73-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	ROBBINS DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 700 EAST	16. Latitude:	41.42588
9. Location:	00.01 S OF ROBBINS ROAD	17. Longitude:	-86.563087

STRUCTURE DATA

43A. Structure Type - Main Span:	1 (CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	02 (GIRDER)	45. Number of Spans - Main:	1
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	0 (NONE)		

AGE OF SERVICE

27. Year Built:	1956	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	150 VPD	30. ADT Year Over:	2016
114. Future ADT:	225 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	4 mi.

GEOMETRIC DATA

48. Maximum Span Length:	35.8 ft.	49. Structure Length:	38.5 ft.
50A. Sidewalk/Curb Left:	1.0 ft.	50B. Sidewalk/Curb Right:	1.0 ft.
51. Bridge Roadway Width:	22 ft.	52. Deck Width (O-O)	25.8 ft.
32. Approach Roadway Width:	17 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	22 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500014
Facility Carried: CR 700 EAST

Bridge Number: 75-00022
Feature(s) Intersected: ROBBINS DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONC. GIRDERS	Rating:	7
	GOOD - MINOR CRACKS			
58.01.	Wearing Surface:	Material: CHIP & SEAL (1")	Rating:	7
	GOOD - MINOR CRACKS, NOT FULL WIDTH			
59.	Superstructure:	Material: CONC. GIRDERS	Rating:	6
	SATIS - HAIRLINE CRACKS, MINOR SPALLS			
60.	Substructure:	Material: CONC. ABUTMENTS	Rating:	7
	GOOD - HAIRLINE CRACKS			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - MINOR BANK SLOUGHING			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	0 (UNKNOWN)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500014
Facility Carried: CR 700 EAST

Bridge Number: 75-00022
Feature(s) Intersected: ROBBINS DITCH

APPRAISAL

67.	Structural:	6
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	1 (MEETS ACCEPTABLE STANDARDS)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, NARROW, LEVEL, '+' INTERSECTION NORTH
	Material:	CHIP & SEAL
	Comments:	CRACKS, SETTLED
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

NO MAINTENANCE NEEDED.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 89.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING NORTH FROM ROADWAY



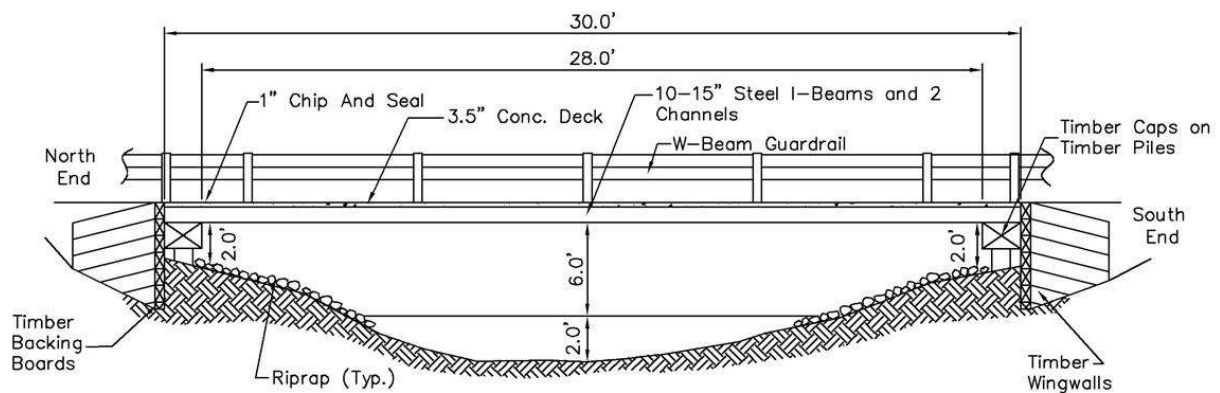
LOOKING SOUTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00023
CR 800E over JAIN DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500015
Facility Carried: CR 800E

Bridge Number: 75-00023
Feature(s) Intersected: JAIN DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500015		
5. Inventory Route On:	1-4-1- 81-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	JAIN DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 800E	16. Latitude:	41.37137
9. Location:	00.20 S CR 500 N	17. Longitude:	-86.543579

STRUCTURE DATA

43A. Structure Type - Main Span:	3 (STEEL)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	02 (GIRDER)	45. Number of Spans - Main:	1
107. Deck Structure Type:	6 (CORRUGATED STEEL)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	N (N/A)
108C. Protection	0 (NONE)		

AGE OF SERVICE

27. Year Built:	1950	106. Reconstructed:	1993
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	125 VPD	30. ADT Year Over:	2017
114. Future ADT:	200 VPD	115. Future ADT Year:	2037
109. Average Truck Traffic:	4 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	28 ft.	49. Structure Length:	30 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	21.5 ft.	52. Deck Width (O-O)	22.1 ft.
32. Approach Roadway Width:	16 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	21.5 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500015
Facility Carried: CR 800E

Bridge Number: 75-00023
Feature(s) Intersected: JAIN DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	6
	SATIS - SEEPAGE, SURFACE RUST			
58.01.	Wearing Surface:	Material: CHIP & SEAL	Rating:	5
	FAIR - CRACKS, SEEPAGE			
59.	Superstructure:	Material: STEEL BEAMS	Rating:	5
	FAIR - MINOR FLAKING RUST ON TOP FLANGES, 10% SECTION LOSS ON TOP AND BOTTOM FLANGE TYPICAL			
60.	Substructure:	Material: TIMBER CAP ON PILES	Rating:	4
	POOR - END BENT CAPS ROTTED AT NORTHEAST AND SOUTHWEST, CAPS SPLIT, MINOR SPLITTING AT NORTHWEST CORNER			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - SEDIMENTATION, EROSION AT BRIDGE CORNERS			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	0 (UNKNOWN)	63.	Oper Rating Method:	1 (LOAD FACTOR (LF))
64.	Operating Rating:	49	65.	Inv Rating Method:	1 (LOAD FACTOR (LF))
66.	Inventory Rating:	29	66C.	Tons Posted:	39 Tons
66B.	Gross Tons or H Rating:	18 Tons	66D.	Date Posted/Closed:	11/30/2019
41.	Open, Posted, or Closed:	P (POSTED FOR LOAD)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500015
Facility Carried: CR 800E

Bridge Number: 75-00023
Feature(s) Intersected: JAIN DITCH

APPRAISAL

67.	Structural:	4
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	6 - SATISFACTORY, STRAIGHT, BRIDGE SLIGHTLY ABOVE APPROACHES
	Material:	CHIP & SEAL
	Comments:	CRACKS, SETTLEMENT, PATCHED
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	Changed NBI113 number, did not change at last inspection. Shari Street 02/27/2020

PROPOSED IMPROVEMENTS

75A.	Type of Work:	31 (RECOMMEND REPLACEMENT DUE TO ADVANCING SUPER AND SUB STRUCTURE DETERIORATION.)
75B.	Work Done By:	1 (CONTRACT)
76.	Improvement Length:	30 ft.
94.	Bridge Improvement Costs:	221 x 1000
95.	Roadway Improvement Costs:	190 x 1000
96.	Total Project Cost:	519 x 1000
97.	Year of Cost Estimate:	2021

RECOMMENDED MAINTENANCE

UNTIL REHABILITATION RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING AND ADDING RIPRAP TO ABUTMENTS AND EMBANKMENTS.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	12 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 54.5
Unofficial Structural and Functional Classification: 1 (STRUCTURALLY DEFICIENT)



LOOKING SOUTH FROM ROADWAY



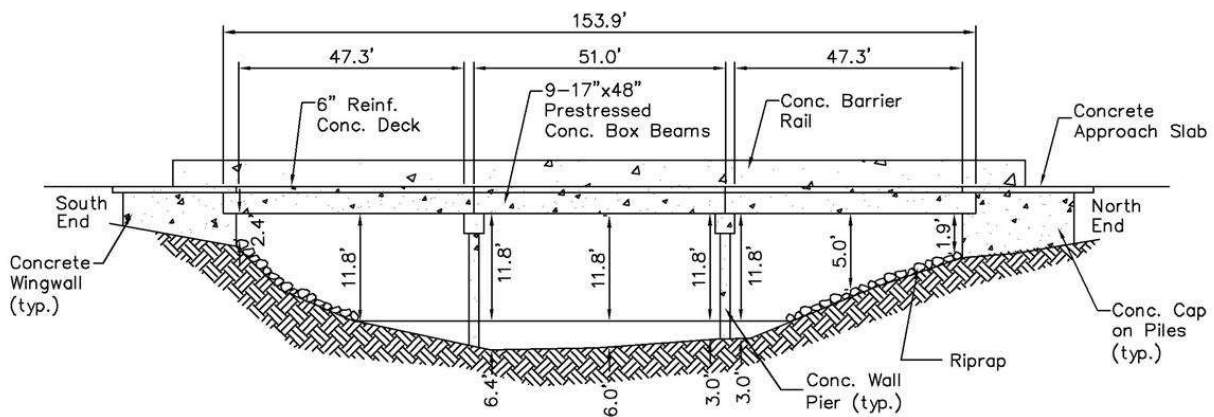
LOOKING NORTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00025 CR 500E over YELLOW RIVER

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500016
Facility Carried: CR 500E

Bridge Number: 75-00025
Feature(s) Intersected: YELLOW RIVER

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500016		
5. Inventory Route On:	1-4-1- 467-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	YELLOW RIVER	11. Mile Point (over):	0
7. Facility Carried:	CR 500E	16. Latitude:	41.30233
9. Location:	00.20 S CR 25 N	17. Longitude:	-86.601471

STRUCTURE DATA

43A. Structure Type - Main Span:	6 (CONT PRESTR CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	05 (ADJACENT BOX BEAM)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	N (N/A)
108C. Protection	1 (EPOXY COATED REINFORCING)		

AGE OF SERVICE

27. Year Built:	2001	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	1209 VPD	30. ADT Year Over:	2016
114. Future ADT:	1761 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48. Maximum Span Length:	51 ft.	49. Structure Length:	153.9 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	33.3 ft.	52. Deck Width (O-O)	36.4 ft.
32. Approach Roadway Width:	24 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	20 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	33.3 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500016
Facility Carried: CR 500E

Bridge Number: 75-00025
Feature(s) Intersected: YELLOW RIVER

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	7
	GOOD - MINOR CRACKS			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	7
	GOOD - MINOR CRACKS			
59.	Superstructure:	Material: PRESTR. CONC. BOX BMS	Rating:	6
	SATIS - MINOR SPALLS AT ANCHOR POINTS, RUST STAINING AT DRAIN HOLES			
60.	Substructure:	Material: CONC. BENTS/PIERS	Rating:	7
	GOOD - EFFLORESCENCE ON END BENT CAPS			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - MINOR BANK SLOUGHING			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	0 (UNKNOWN)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500016
Facility Carried: CR 500E

Bridge Number: 75-00025
Feature(s) Intersected: YELLOW RIVER

APPRAISAL

67.	Structural:	6
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	1 (MEETS ACCEPTABLE STANDARDS)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, BRIDGE SLIGHTLY ABOVE APPROACHES
	Material:	CONC. APPR SLAB/BIT.
	Comments:	MINOR CRACKS
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	0

RECOMMENDED MAINTENANCE

NO MAINTENANCE NEEDED.

INSPECTION DATA

90.	Date:	10/22/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 98.8
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING SOUTH FROM ROADWAY



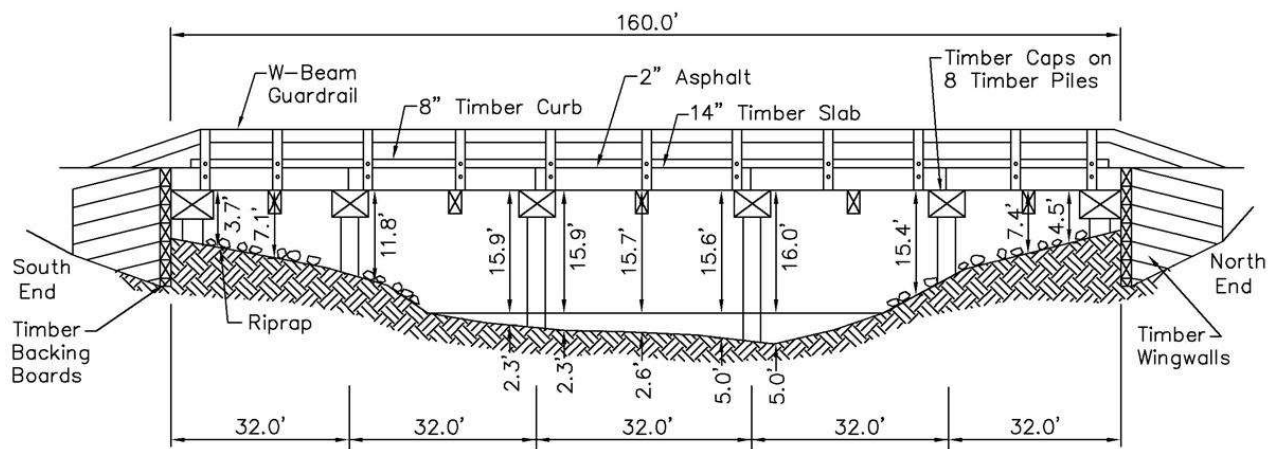
LOOKING NORTH FROM ROADWAY



LOOKING WEST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00027
CR 700 EAST over YELLOW RIVER

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500017
Facility Carried: CR 700 EAST

Bridge Number: 75-00027
Feature(s) Intersected: YELLOW RIVER

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500017			
5.	Inventory Route On:	1-4-1- 61-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	YELLOW RIVER	11.	Mile Point (over):	0
7.	Facility Carried:	CR 700 EAST	16.	Latitude:	41.28997
9.	Location:	00.10 N SR 8	17.	Longitude:	-86.562943

STRUCTURE DATA

43A.	Structure Type - Main Span:	7 (TIMBER)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	01 (SLAB)	45.	Number of Spans - Main:	5
107.	Deck Structure Type:	8 (WOOD OR TIMBER)	46.	Number of Spans - Approach:	0000
108A.	Wearing Surface:	6 (BITUMINOUS)	108B.	Membrane:	0 (NONE)
108C.	Protection	7 (INTERNALLY SEALED)			

AGE OF SERVICE

27.	Year Built:	1980	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	527 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	768 VPD	115.	Future ADT Year:	2036
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	32 ft.	49.	Structure Length:	160 ft.
50A.	Sidewalk/Curb Left:	0.7 ft.	50B.	Sidewalk/Curb Right:	0.7 ft.
51.	Bridge Roadway Width:	25.3 ft.	52.	Deck Width (O-O)	26.7 ft.
32.	Approach Roadway Width:	20 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	15 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	25.3 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500017
Facility Carried: CR 700 EAST

Bridge Number: 75-00027
Feature(s) Intersected: YELLOW RIVER

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: TIMBER	Rating:	5
	FAIR - GAPS BETWEEN PANEL PLANKS REPAIRED			
58.01.	Wearing Surface:	Material: BITUMINOUS (2")	Rating:	7
	GOOD - CRACKS IN WEARING SURFACE			
59.	Superstructure:	Material: TIMBER SLAB	Rating:	5
	FAIR - ADDED SPREADER BEAMS AND STEEL BEAM REPAIRS			
60.	Substructure:	Material: TIMBER CAP ON PILES	Rating:	5
	FAIR - DAMAGE, CHECKS			
61.	Channel:	Material: NATURAL	Rating:	7
	GOOD - SANDY SILT			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	61	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	45	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	30 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500017
Facility Carried: CR 700 EAST

Bridge Number: 75-00027
Feature(s) Intersected: YELLOW RIVER

APPRAISAL

67.	Structural:	5
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	7
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, BRIDGE ABOVE APPROACHES
	Material:	BITUMINOUS
	Comments:	CRACKS, SETTLEMENT
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	0

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.

INSPECTION DATA

90.	Date:	10/22/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 76.9
Unofficial Structural and Functional Classification: 0 (OK)



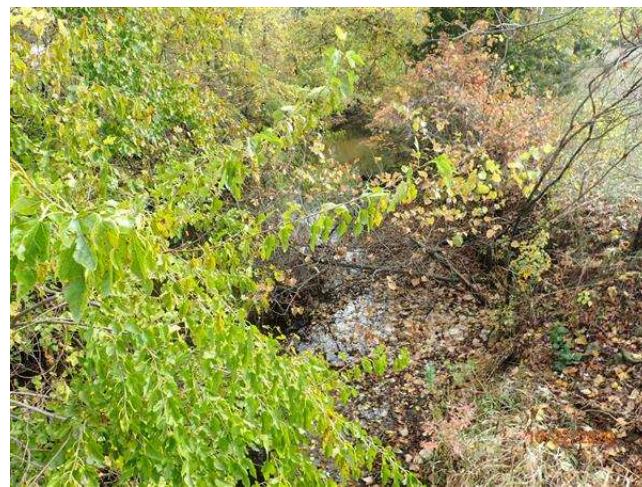
LOOKING SOUTH FROM ROADWAY



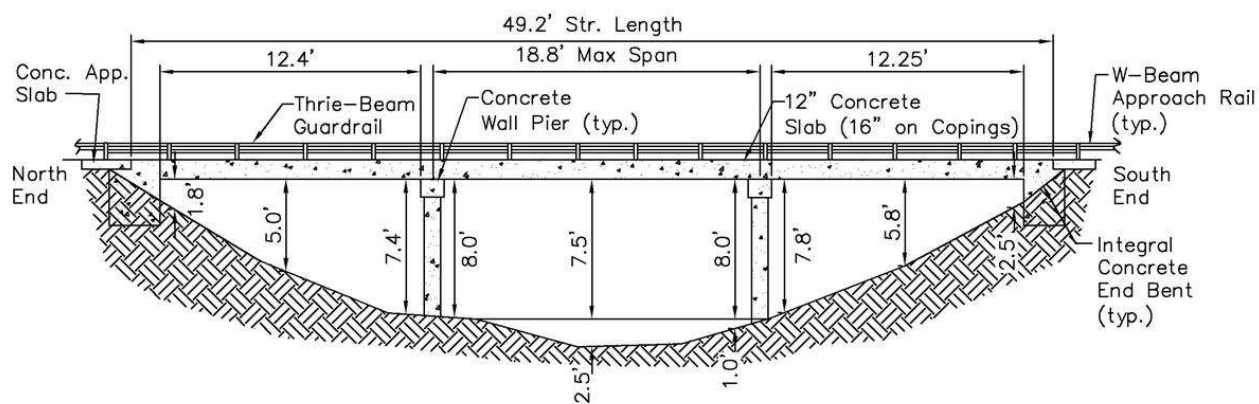
LOOKING NORTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00028
CR 700E over EAGLE CREEK

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500018
Facility Carried: CR 700E

Bridge Number: 75-00028
Feature(s) Intersected: EAGLE CREEK

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500018		
5. Inventory Route On:	1-4-1- 61-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	EAGLE CREEK	11. Mile Point (over):	0
7. Facility Carried:	CR 700E	16. Latitude:	41.30391
9. Location:	00.10 S CR 25 N	17. Longitude:	-86.562927

STRUCTURE DATA

43A. Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	N (N/A)
108C. Protection	1 (EPOXY COATED REINFORCING)		

AGE OF SERVICE

27. Year Built:	2003	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	527 VPD	30. ADT Year Over:	2016
114. Future ADT:	768 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	18.8 ft.	49. Structure Length:	49.2 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	26 ft.	52. Deck Width (O-O)	26.6 ft.
32. Approach Roadway Width:	20 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	10 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	26 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500018
Facility Carried: CR 700E

Bridge Number: 75-00028
Feature(s) Intersected: EAGLE CREEK

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	7
	GOOD - MINOR LONGITUDINAL CRACKS			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	7
	GOOD - MINOR LONGITUDINAL CRACKS			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	7
	GOOD - MINOR EFFLORESCENCE			
60.	Substructure:	Material: CONC. BENTS/PIERS	Rating:	7
	GOOD - HAIRLINE VERTICAL CRACKS			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - MINOR DOWNSTREAM BANK EROSION			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500018
Facility Carried: CR 700E

Bridge Number: 75-00028
Feature(s) Intersected: EAGLE CREEK

APPRAISAL

67.	Structural:	7
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	1 (MEETS ACCEPTABLE STANDARDS)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL
	Material:	CONC. APPR SLAB/BIT.
	Comments:	MINOR CRACKS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	0

RECOMMENDED MAINTENANCE

NO MAINTENANCE NEEDED.

INSPECTION DATA

90.	Date:	10/22/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 94.4
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING NORTH FROM ROADWAY



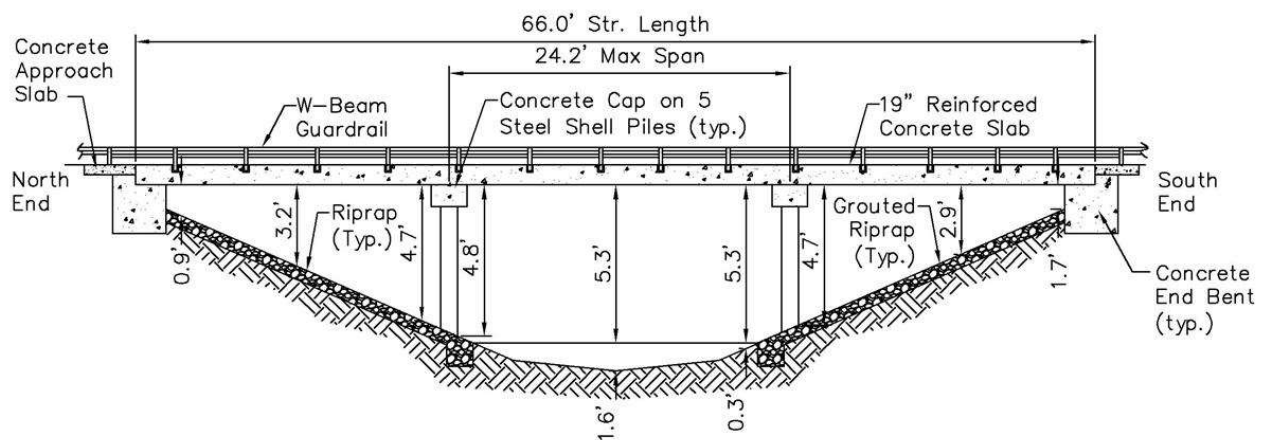
LOOKING SOUTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00031 B
CR 800E over EAGLE CREEK

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500088
Facility Carried: CR 800E

Bridge Number: 75-00031 B
Feature(s) Intersected: EAGLE CREEK

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500088		
5. Inventory Route On:	1-4-1- 81-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	EAGLE CREEK	11. Mile Point (over):	0
7. Facility Carried:	CR 800E	16. Latitude:	41.30126
9. Location:	00.20 N OF CR 50 S	17. Longitude:	-86.543678

STRUCTURE DATA

43A. Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	N (N/A)
108C. Protection	1 (EPOXY COATED REINFORCING)		

AGE OF SERVICE

27. Year Built:	2014	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	300 VPD	30. ADT Year Over:	2016
114. Future ADT:	450 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	24.2 ft.	49. Structure Length:	66 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	23.6 ft.	52. Deck Width (O-O)	24.1 ft.
32. Approach Roadway Width:	18 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	23.6 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500088
Facility Carried: CR 800E

Bridge Number: 75-00031 B
Feature(s) Intersected: EAGLE CREEK

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - NO DEFICIENCIES NOTED			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	A (HL 93)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500088
Facility Carried: CR 800E

Bridge Number: 75-00031 B
Feature(s) Intersected: EAGLE CREEK

APPRAISAL

67.	Structural:	8
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - STRAIGHT, NEARLY LEVEL
	Material:	CONCRETE
	Comments:	CRACKS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	0

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.

INSPECTION DATA

90.	Date:	10/22/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 86.4
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING EAST FROM ROADWAY



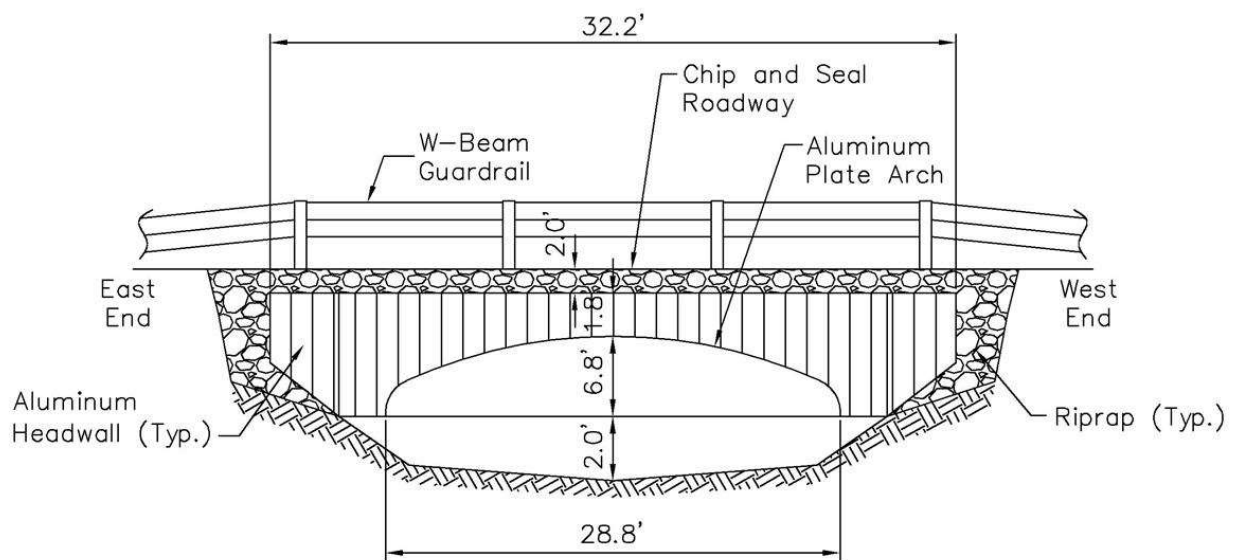
LOOKING WEST FROM ROADWAY



LOOKING SOUTH THROUGH CHANNEL



LOOKING NORTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00035 CR 25N over EAGLE CREEK

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500021
Facility Carried: CR 25N

Bridge Number: 75-00035
Feature(s) Intersected: EAGLE CREEK

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500021		
5. Inventory Route On:	1-4-1- 146-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	EAGLE CREEK	11. Mile Point (over):	0
7. Facility Carried:	CR 25N	16. Latitude:	41.30617
9. Location:	00.30 E CR 500 E	17. Longitude:	-86.592918

STRUCTURE DATA

43A. Structure Type - Main Span:	9 (METAL)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	19 (CULVERT)	45. Number of Spans - Main:	1
107. Deck Structure Type:	N (N/A - UNDER FILL)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	N (N/A)
108C. Protection	N (N/A)		

AGE OF SERVICE

27. Year Built:	2005	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	1325 VPD	30. ADT Year Over:	2016
114. Future ADT:	2000 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48. Maximum Span Length:	28.8 ft.	49. Structure Length:	32.2 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	26.1 ft.	52. Deck Width (O-O)	48 ft.
32. Approach Roadway Width:	19 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	30 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	26.1 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500021
Facility Carried: CR 25N

Bridge Number: 75-00035
Feature(s) Intersected: EAGLE CREEK

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: N/A	Rating:	N
	N/A			
58.01.	Wearing Surface:	Material: BITUMINOUS (6")	Rating:	8
	VERY GOOD - NEW BITUMINOUS OVERLAY			
59.	Superstructure:	Material: N/A	Rating:	N
	N/A			
60.	Substructure:	Material: N/A	Rating:	N
	N/A			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	6
	SATIS - SILTATION			
62.	Culvert/Ret:	Material: ALUMINUM MULTI-PLATE ARCH	Rating:	5
	FAIR - SETTLEMENT, DEFORMATIONS			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	53	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	34	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	31 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500021
Facility Carried: CR 25N

Bridge Number: 75-00035
Feature(s) Intersected: EAGLE CREEK

APPRAISAL

67.	Structural:	5
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	6
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL, DRIVES
	Material:	BITUMINOUS
	Comments:	NEW BITUMINOUS OVERLAY
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.

INSPECTION DATA

90.	Date:	10/22/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 71.8
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING EAST FROM ROADWAY



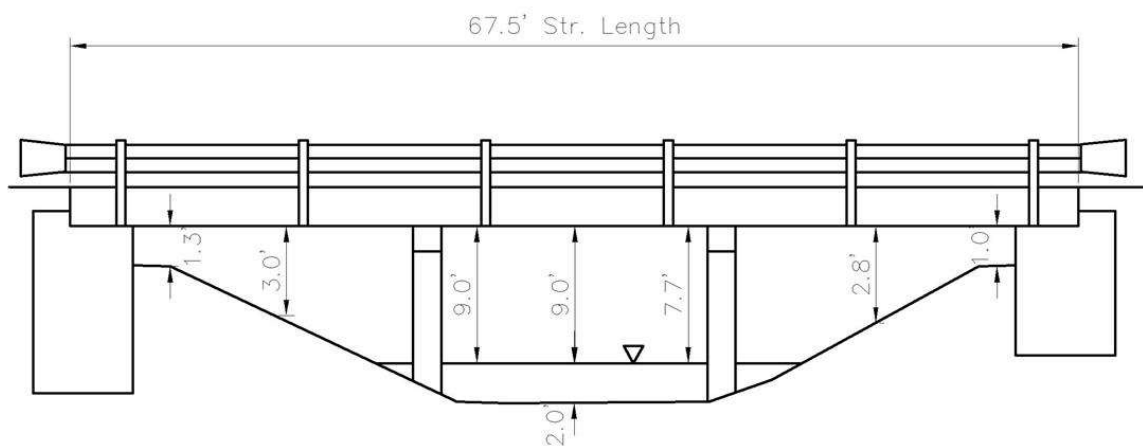
LOOKING WEST FROM ROADWAY



LOOKING NORTH THROUGH CHANNEL



LOOKING SOUTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00036 B
CR 25 NORTH over EAGLE CREEK

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500100
Facility Carried: CR 25 NORTH

Bridge Number: 75-00036 B
Feature(s) Intersected: EAGLE CREEK

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500100			
5.	Inventory Route On:	1-4-1- 146-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	EAGLE CREEK	11.	Mile Point (over):	0
7.	Facility Carried:	CR 25 NORTH	16.	Latitude:	41.30623
9.	Location:	00.10 W OF CR 600 E	17.	Longitude:	-86.58966

STRUCTURE DATA

43A.	Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	01 (SLAB)	45.	Number of Spans - Main:	3
107.	Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46.	Number of Spans - Approach:	0
108A.	Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B.	Membrane:	0 (NONE)
108C.	Protection	1 (EPOXY COATED REINFORCING)			

AGE OF SERVICE

27.	Year Built:	2018	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	1375 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	2080 VPD	115.	Future ADT Year:	2036
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	25 ft.	49.	Structure Length:	67.5 ft.
50A.	Sidewalk/Curb Left:	0.0 ft.	50B.	Sidewalk/Curb Right:	0.0 ft.
51.	Bridge Roadway Width:	27.5 ft.	52.	Deck Width (O-O)	28 ft.
32.	Approach Roadway Width:	19 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	30 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	27.5 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500100
Facility Carried: CR 25 NORTH

Bridge Number: 75-00036 B
Feature(s) Intersected: EAGLE CREEK

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONT. CONC. SLAB	Rating:	9
	EXCELLENT - NEW CONSTRUCTION			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	9
	EXCELLENT - NEW CONSTRUCTION			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	9
	EXCELLENT - NEW CONSTRUCTION			
60.	Substructure:	Material: CONC. SHELL PILE	Rating:	9
	EXCELLENT - NEW CONSTRUCTION			
61.	Channel:	Material: RIPRAP, CONCRETE CHUNKS, NATURAL	Rating:	8
	VERY GOOD - NEW RIP RAP			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	A (HL 93)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	80	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	59	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	38 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500100
Facility Carried: CR 25 NORTH

Bridge Number: 75-00036 B
Feature(s) Intersected: EAGLE CREEK

APPRAISAL

67.	Structural:	9
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	6
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	1 (MEETS ACCEPTABLE STANDARDS)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL
	Material:	BITUMINOUS
	Comments:	VERY GOOD
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	STABLE

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD APPROACH RAILING.

INSPECTION DATA

90.	Date:	10/22/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 88.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING EAST FROM ROADWAY



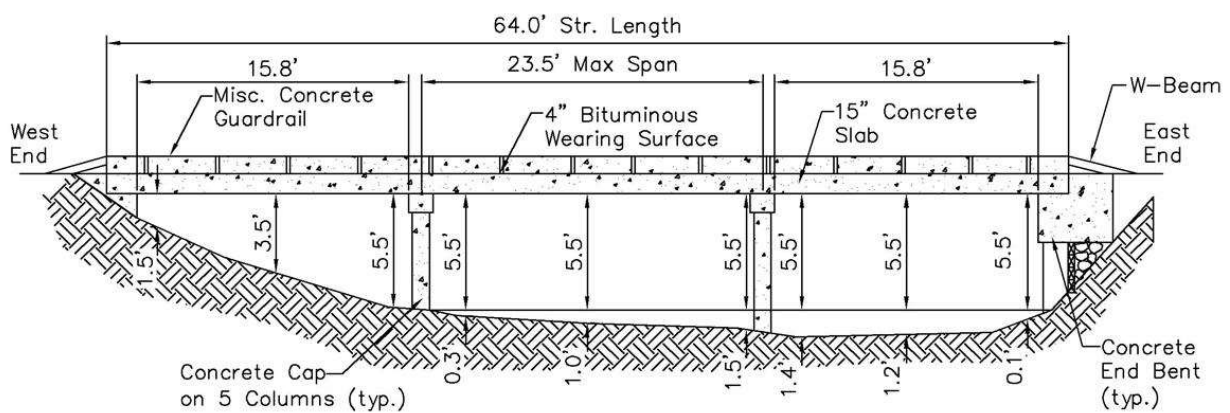
LOOKING WEST FROM ROADWAY



LOOKING NORTH THROUGH CHANNEL



LOOKING NORTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00038
CR 25N over EAGLE CREEK

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500024
Facility Carried: CR 25N

Bridge Number: 75-00038
Feature(s) Intersected: EAGLE CREEK

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500024		
5. Inventory Route On:	1-4-1- 48-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	EAGLE CREEK	11. Mile Point (over):	0
7. Facility Carried:	CR 25N	16. Latitude:	41.30611
9. Location:	00.10 E CR 800 E	17. Longitude:	-86.538071

STRUCTURE DATA

43A. Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	0 (NONE)		

AGE OF SERVICE

27. Year Built:	1953	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	694 VPD	30. ADT Year Over:	2016
114. Future ADT:	1011 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	23.5 ft.	49. Structure Length:	64 ft.
50A. Sidewalk/Curb Left:	1.0 ft.	50B. Sidewalk/Curb Right:	1.0 ft.
51. Bridge Roadway Width:	22 ft.	52. Deck Width (O-O)	26 ft.
32. Approach Roadway Width:	18 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	20 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	22 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500024
Facility Carried: CR 25N

Bridge Number: 75-00038
Feature(s) Intersected: EAGLE CREEK

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	5
	FAIR - CRACKS, EFFLORESCENCE			
58.01.	Wearing Surface:	Material: BITUMINOUS (4")	Rating:	5
	FAIR - CRACKS, NOT FULL WIDTH			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	5
	FAIR - COPING CRACKS, EFFLORESCENCE			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	5
	FAIR - PILES EXPOSED, LOSS OF BACKFILL, AT EAST END BENT, TIMBER MUD WALL IN PLACE, CONCRETE PILE ENCASEMENT DETERIORATING AT WATERLINE			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	6
	SATIS - POOR CHANNEL GEOMETRY			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500024
Facility Carried: CR 25N

Bridge Number: 75-00038
Feature(s) Intersected: EAGLE CREEK

APPRAISAL

67.	Structural:	5
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	5
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL
	Material:	
	Comments:	CRACKS, SETTLED, PATCHED
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	STABLE - WITHIN LIMITS - POOR CHANNEL GEOMETRY

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	0

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.

INSPECTION DATA

90.	Date:	10/22/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 68.3
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING NORTH FROM ROADWAY



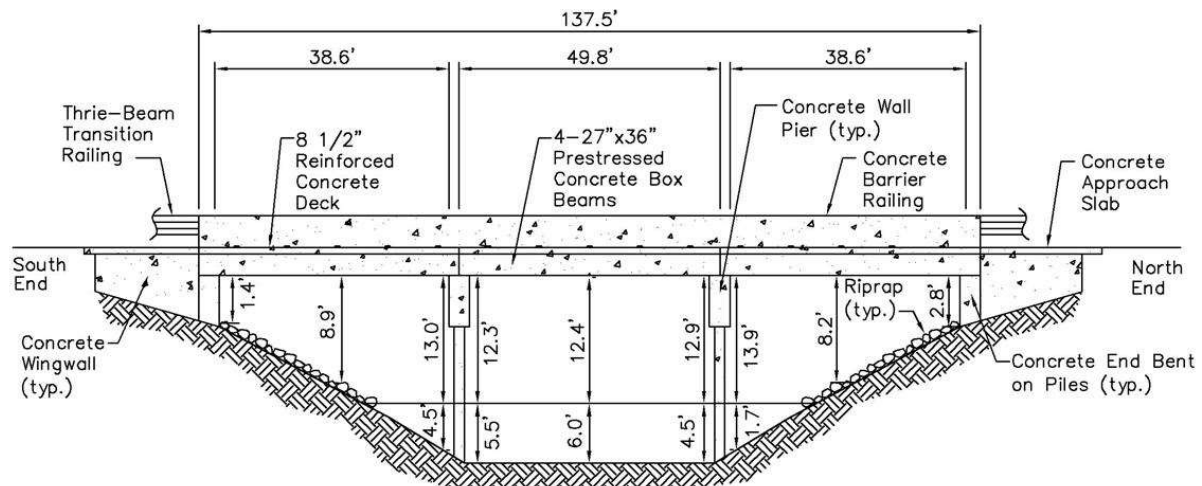
LOOKING SOUTH FROM ROADWAY



LOOKING WEST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00039 B
CR 1100E over YELLOW RIVER

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500089
Facility Carried: CR 1100E

Bridge Number: 75-00039 B
Feature(s) Intersected: YELLOW RIVER

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500089		
5. Inventory Route On:	1-4-1- 233-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	YELLOW RIVER	11. Mile Point (over):	0
7. Facility Carried:	CR 1100E	16. Latitude:	41.27324
9. Location:	00.50 S CR 150 S	17. Longitude:	-86.485802

STRUCTURE DATA

43A. Structure Type - Main Span:	6 (CONT PRESTR CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	06 (SPREAD BOX BEAM)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	N (N/A)
108C. Protection	0 (NONE)		

AGE OF SERVICE

27. Year Built:	1992	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	180 VPD	30. ADT Year Over:	2016
114. Future ADT:	275 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	49.8 ft.	49. Structure Length:	137.5 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	25.9 ft.	52. Deck Width (O-O)	28.9 ft.
32. Approach Roadway Width:	20 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	20 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	25.9 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500089
Facility Carried: CR 1100E

Bridge Number: 75-00039 B
Feature(s) Intersected: YELLOW RIVER

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	7
	GOOD - COPING CRACK			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	7
	GOOD - CRACKS, POPOUTS			
59.	Superstructure:	Material: PRESTR. CONC. BOX BMS	Rating:	7
	GOOD - HONEYCOMBS			
60.	Substructure:	Material: CONC. BENTS/PIERS	Rating:	7
	GOOD - HAIRLINE CRACKS			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	6
	SATIS - MINOR BANK SLOUGHING			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	73	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	53	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	38 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500089
Facility Carried: CR 1100E

Bridge Number: 75-00039 B
Feature(s) Intersected: YELLOW RIVER

APPRAISAL

67.	Structural:	7
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	1 (MEETS ACCEPTABLE STANDARDS)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL
	Material:	CONCRETE
	Comments:	CRACKS
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	0

RECOMMENDED MAINTENANCE

NO MAINTENANCE NEEDED.

INSPECTION DATA

90.	Date:	10/22/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 99.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING NORTH FROM ROADWAY



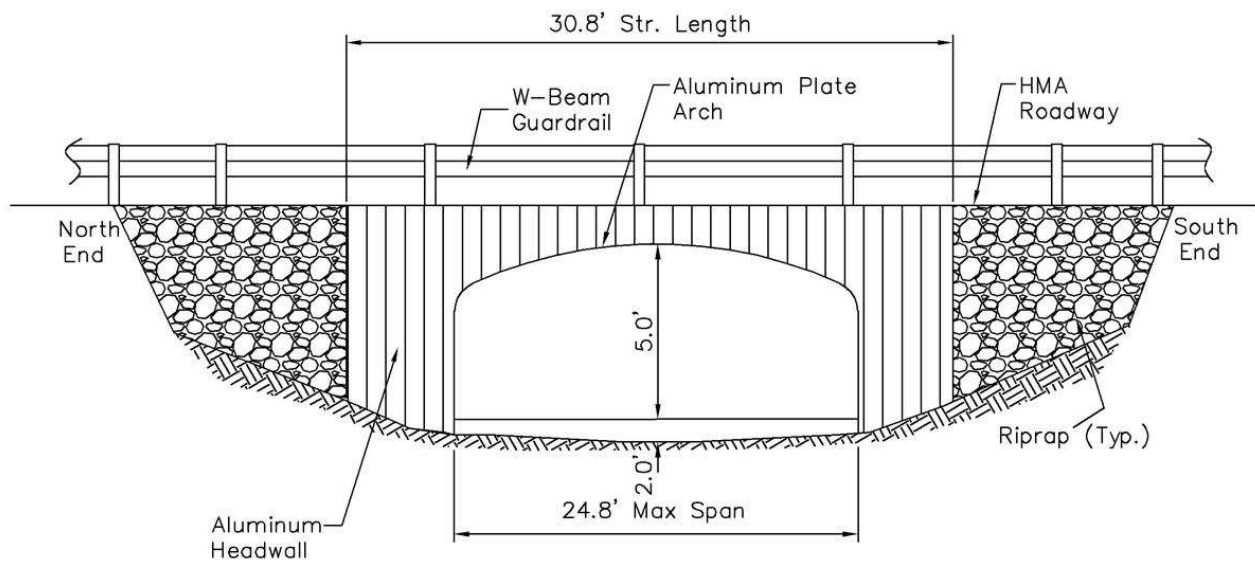
LOOKING SOUTH FROM ROADWAY



LOOKING WEST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00042 CR 900E over MORSE DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500026
Facility Carried: CR 900E

Bridge Number: 75-00042
Feature(s) Intersected: MORSE DITCH

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500026			
5.	Inventory Route On:	1-4-1- 219-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	MORSE DITCH	11.	Mile Point (over):	0
7.	Facility Carried:	CR 900E	16.	Latitude:	41.36929
9.	Location:	00.20 S CR 500 N	17.	Longitude:	-86.524277

STRUCTURE DATA

43A.	Structure Type - Main Span:	9 (METAL)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	19 (CULVERT)	45.	Number of Spans - Main:	1
107.	Deck Structure Type:	N (N/A - UNDER FILL)	46.	Number of Spans - Approach:	0000
108A.	Wearing Surface:	6 (BITUMINOUS)	108B.	Membrane:	N (N/A)
108C.	Protection	N (N/A)			

AGE OF SERVICE

27.	Year Built:	2007	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	375 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	500 VPD	115.	Future ADT Year:	2036
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	24.8 ft.	49.	Structure Length:	30.8 ft.
50A.	Sidewalk/Curb Left:	0.0 ft.	50B.	Sidewalk/Curb Right:	0.0 ft.
51.	Bridge Roadway Width:	28.5 ft.	52.	Deck Width (O-O)	35 ft.
32.	Approach Roadway Width:	22 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	0 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	28.5 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500026
Facility Carried: CR 900E

Bridge Number: 75-00042
Feature(s) Intersected: MORSE DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: N/A	Rating:	N
	N/A			
58.01.	Wearing Surface:	Material: CHIP & SEAL (3")	Rating:	5
	FAIR - CRACKS, PATCHED, RAVELING			
59.	Superstructure:	Material: N/A	Rating:	N
	N/A			
60.	Substructure:	Material: N/A	Rating:	N
	N/A			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - MINOR BANK SLOUGHING			
62.	Culvert/Ret:	Material: ALUMINUM BOX CULVERT	Rating:	7
	GOOD - NORTH END SETTLED, MISSING NUTS			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	52	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	33	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	30 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500026
Facility Carried: CR 900E

Bridge Number: 75-00042
Feature(s) Intersected: MORSE DITCH

APPRAISAL

67.	Structural:	7
68.	Geometry:	6
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL
	Material:	CHIP & SEAL
	Comments:	CRACKED, RAVELING, PATCHES
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	FULL FLOOR INSIDE CULVERT - SLOW FLOW

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 97.7
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING NORTH FROM ROADWAY



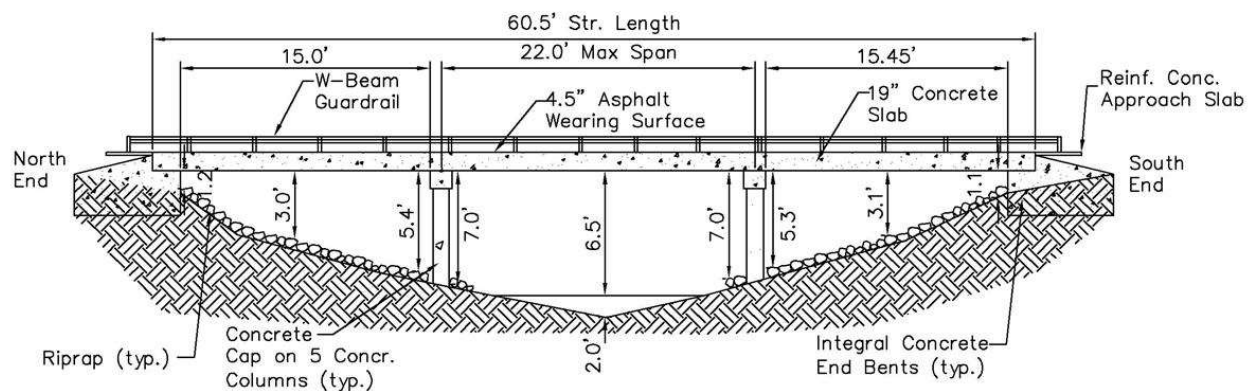
LOOKING SOUTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00043 B CR 1000E over ROBBINS DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500090
Facility Carried: CR 1000E

Bridge Number: 75-00043 B
Feature(s) Intersected: ROBBINS DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500090		
5. Inventory Route On:	1-4-1- 1000-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	ROBBINS DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 1000E	16. Latitude:	41.41933
9. Location:	00.10 N CR 800 N	17. Longitude:	-86.503738

STRUCTURE DATA

43A. Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	1 (EPOXY COATED REINFORCING)		

AGE OF SERVICE

27. Year Built:	2014	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	700 VPD	30. ADT Year Over:	2016
114. Future ADT:	1100 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	18.5 ft.	49. Structure Length:	50.5 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	26.2 ft.	52. Deck Width (O-O)	26.7 ft.
32. Approach Roadway Width:	24 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	26.2 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500090
Facility Carried: CR 1000E

Bridge Number: 75-00043 B
Feature(s) Intersected: ROBBINS DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
58.01.	Wearing Surface:	Material: BITUMINOUS (5")	Rating:	7
	GOOD - EXCESSIVE, CRACKED			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	8
	VERY GOOD - MINOR RUST STAINS			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	7
	GOOD - SURFACE RUST ON PILES			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - MINOR BANK SLOUGHING			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	A (HL 93)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500090
Facility Carried: CR 1000E

Bridge Number: 75-00043 B
Feature(s) Intersected: ROBBINS DITCH

APPRAISAL

67.	Structural:	7
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL
	Material:	BITUMINOUS
	Comments:	CRACKS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	0

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 93.3
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING SOUTH FROM ROADWAY



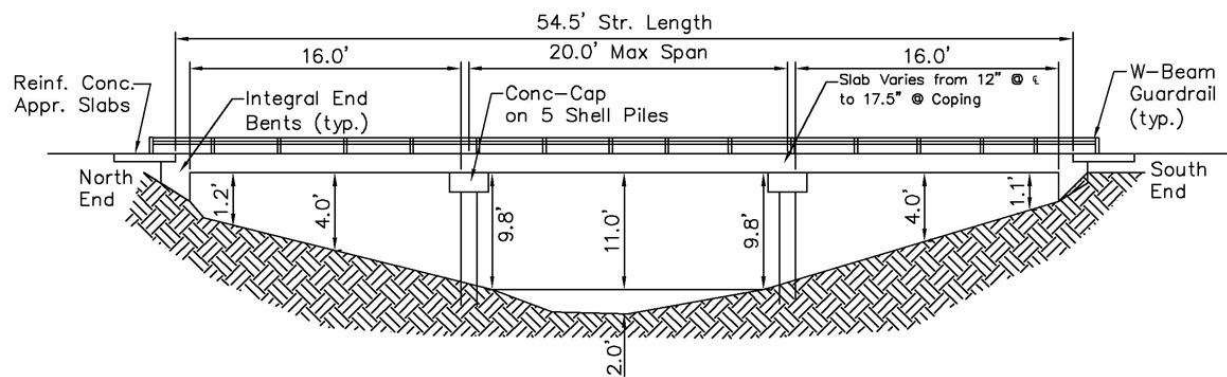
LOOKING NORTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00046 B CR 900E over OSBORN DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500097
Facility Carried: CR 900E

Bridge Number: 75-00046 B
Feature(s) Intersected: OSBORN DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500097		
5. Inventory Route On:	1-4-1- 215-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	OSBORN DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 900E	16. Latitude:	41.21607
9. Location:	00.90 S OF SR 10	17. Longitude:	-86.52459

STRUCTURE DATA

43A. Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	N (N/A)
108C. Protection	1 (EPOXY COATED REINFORCING)		

AGE OF SERVICE

27. Year Built:	2017	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	150 VPD	30. ADT Year Over:	2017
114. Future ADT:	225 VPD	115. Future ADT Year:	2017
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48. Maximum Span Length:	20 ft.	49. Structure Length:	54.5 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	27.4 ft.	52. Deck Width (O-O)	28 ft.
32. Approach Roadway Width:	24 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	12 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	27.4 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500097
Facility Carried: CR 900E

Bridge Number: 75-00046 B
Feature(s) Intersected: OSBORN DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	8
	VERY GOOD - MINOR STAINS AT BENT 2 CAP			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	8
	VERY GOOD - MINOR SHRINKAGE CRACKS ALONG COPINGS			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	8
	VERY GOOD - MINOR STAINS AT BENT 2 CAP			
60.	Substructure:	Material: STEEL CAP ON PILES	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - MINOR BANK SLOUGHING			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	A (HL 93)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500097
Facility Carried: CR 900E

Bridge Number: 75-00046 B
Feature(s) Intersected: OSBORN DITCH

APPRAISAL

67.	Structural:	8
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	6 - VERY GOOD, STRAIGHT, SLIGHTLY ROLLING, DRIVES
	Material:	CON. APPR SLAB/BIT.
	Comments:	NEWER BITUMINOUS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	STABLE - EXCELLENT CONDITION

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING WITH MISSING SOUTHEAST BRIDGE END MARKER.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 98.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING WEST FROM ROADWAY



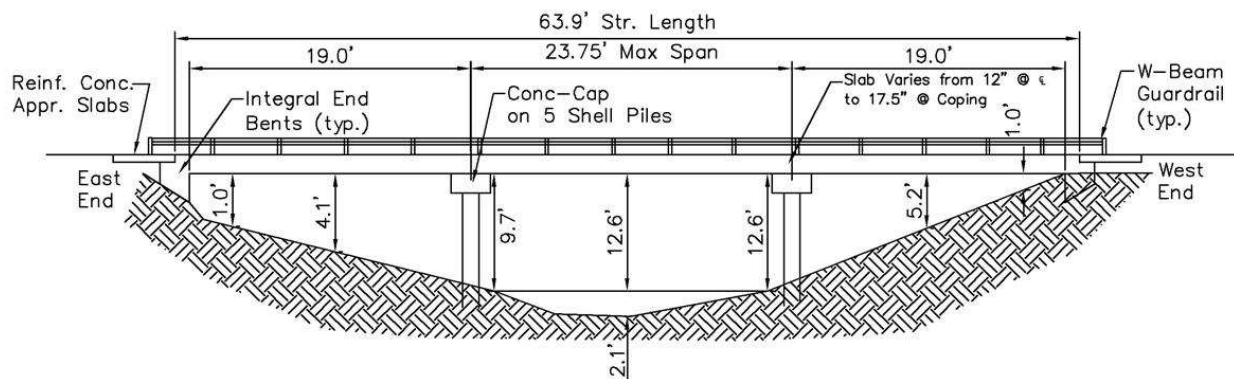
LOOKING EAST FROM ROADWAY



LOOKING NORTH THROUGH CHANNEL



LOOKING NORTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00047 B CR 625S over OSBORN DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500098
Facility Carried: CR 625S

Bridge Number: 75-00047 B
Feature(s) Intersected: OSBORN DITCH

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500098			
5.	Inventory Route On:	1-4-1- 100-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	OSBORN DITCH	11.	Mile Point (over):	0
7.	Facility Carried:	CR 625S	16.	Latitude:	41.21162
9.	Location:	00.06 W CR 875 E	17.	Longitude:	-86.530251

STRUCTURE DATA

43A.	Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	01 (SLAB)	45.	Number of Spans - Main:	3
107.	Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46.	Number of Spans - Approach:	0
108A.	Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B.	Membrane:	N (N/A)
108C.	Protection	1 (EPOXY COATED REINFORCING)			

AGE OF SERVICE

27.	Year Built:	2017	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	180 VPD	30.	ADT Year Over:	2017
114.	Future ADT:	250 VPD	115.	Future ADT Year:	2037
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	23.7 ft.	49.	Structure Length:	63.9 ft.
50A.	Sidewalk/Curb Left:	0.0 ft.	50B.	Sidewalk/Curb Right:	0.0 ft.
51.	Bridge Roadway Width:	27.4 ft.	52.	Deck Width (O-O)	28 ft.
32.	Approach Roadway Width:	24 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	10 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	27.4 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500098
Facility Carried: CR 625S

Bridge Number: 75-00047 B
Feature(s) Intersected: OSBORN DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	8
	VERY GOOD - MINOR SHRINKAGE CRACKS ALONG COPINGS			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - MINOR BANK SLOUGHING			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	A (HL 93)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500098
Facility Carried: CR 625S

Bridge Number: 75-00047 B
Feature(s) Intersected: OSBORN DITCH

APPRAISAL

67.	Structural:	8
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	6 - VERY GOOD, STRAIGHT, SLIGHTLY ROLLING, DRIVES
	Material:	CONC. APPR SLAB/BIT.
	Comments:	NEWER BITUMINOUS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	STABLE - EXCELLENT CONDITION

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 98.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING SOUTH FROM ROADWAY



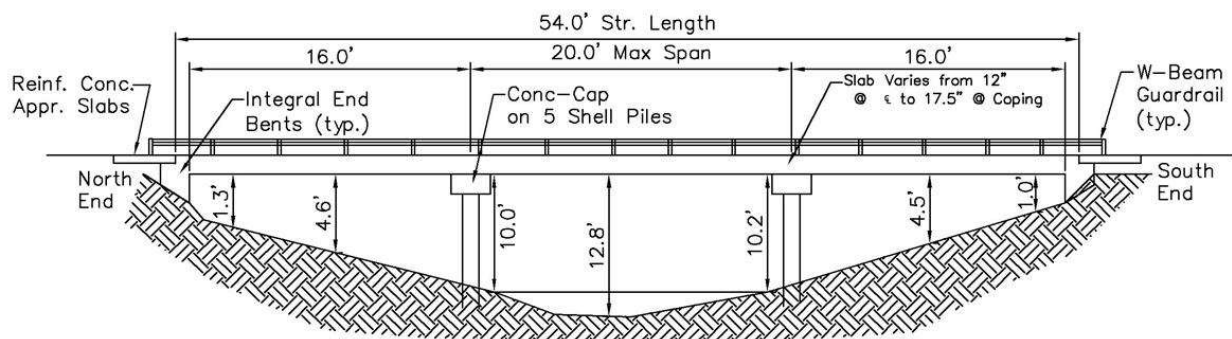
LOOKING NORTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00050 B CR 1150E over OSBORN DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500099
Facility Carried: CR 1150E

Bridge Number: 75-00050 B
Feature(s) Intersected: OSBORN DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500099		
5. Inventory Route On:	1-4-1- 87-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	OSBORN DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 1150E	16. Latitude:	41.21519
9. Location:	01.00 S SR10	17. Longitude:	-86.476524

STRUCTURE DATA

43A. Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	N (N/A)
108C. Protection	1 (EPOXY COATED REINFORCING)		

AGE OF SERVICE

27. Year Built:	2017	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	180 VPD	30. ADT Year Over:	2017
114. Future ADT:	250 VPD	115. Future ADT Year:	2037
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48. Maximum Span Length:	20 ft.	49. Structure Length:	54 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	28.2 ft.	52. Deck Width (O-O)	28.4 ft.
32. Approach Roadway Width:	24 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	10 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	28.2 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500099
Facility Carried: CR 1150E

Bridge Number: 75-00050 B
Feature(s) Intersected: OSBORN DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	8
	VERY GOOD - MINOR SHRINKAGE CRACKS ALONG COPINGS			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	7
	GOOD - PROPER PAINT AND EPOXY REPAIRS AT INTERIOR BENT CAPS			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - MINOR BANK SLOUGHING			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	A (HL 93)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500099
Facility Carried: CR 1150E

Bridge Number: 75-00050 B
Feature(s) Intersected: OSBORN DITCH

APPRAISAL

67.	Structural:	7
68.	Geometry:	6
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	6 - VERY GOOD, STRAIGHT, LEVEL, DRIVES
	Material:	BITUMINOUS
	Comments:	NEWER BITUMINOUS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	STABLE - EXCELLENT CONDITION

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING WITH MISSING NORTHEAST AND SOUTHWEST BRIDGE END MARKERS.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 99.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING SOUTH FROM ROADWAY



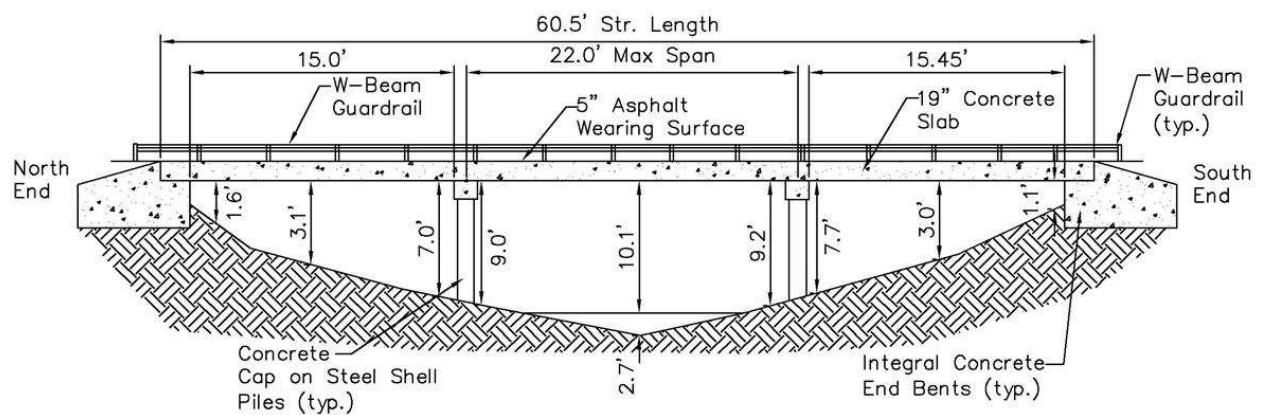
LOOKING NORTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00051 B CR 850E over OSBORN DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500085
Facility Carried: CR 850E

Bridge Number: 75-00051 B
Feature(s) Intersected: OSBORN DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500085		
5. Inventory Route On:	1-4-1- 77-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	OSBORN DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 850E	16. Latitude:	41.20131
9. Location:	00.01 S CR 700 S	17. Longitude:	-86.534264

STRUCTURE DATA

43A. Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	1 (EPOXY COATED REINFORCING)		

AGE OF SERVICE

27. Year Built:	2012	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	175 VPD	30. ADT Year Over:	2016
114. Future ADT:	275 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	1 mi.

GEOMETRIC DATA

48. Maximum Span Length:	22 ft.	49. Structure Length:	60.5 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	24.1 ft.	52. Deck Width (O-O)	24.6 ft.
32. Approach Roadway Width:	18 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	24.1 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500085
Facility Carried: CR 850E

Bridge Number: 75-00051 B
Feature(s) Intersected: OSBORN DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	7
	GOOD - HAIRLINE CRACKS IN END SPANS			
58.01.	Wearing Surface:	Material: BITUMINOUS (5")	Rating:	7
	GOOD - NO WATERPROOF MEMBRANE			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	7
	GOOD - HAIRLINE CRACKS			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	7
	GOOD - SURFACE RUST ON PILES			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - MINOR BANK SLOUGHING			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	A (HL 93)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500085
Facility Carried: CR 850E

Bridge Number: 75-00051 B
Feature(s) Intersected: OSBORN DITCH

APPRAISAL

67.	Structural:	7
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL, 'T' INTERSECTIONS AT EACH END
	Material:	CHIP & SEAL
	Comments:	CRACKS, SETTLED
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 93.5
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING WEST FROM ROADWAY



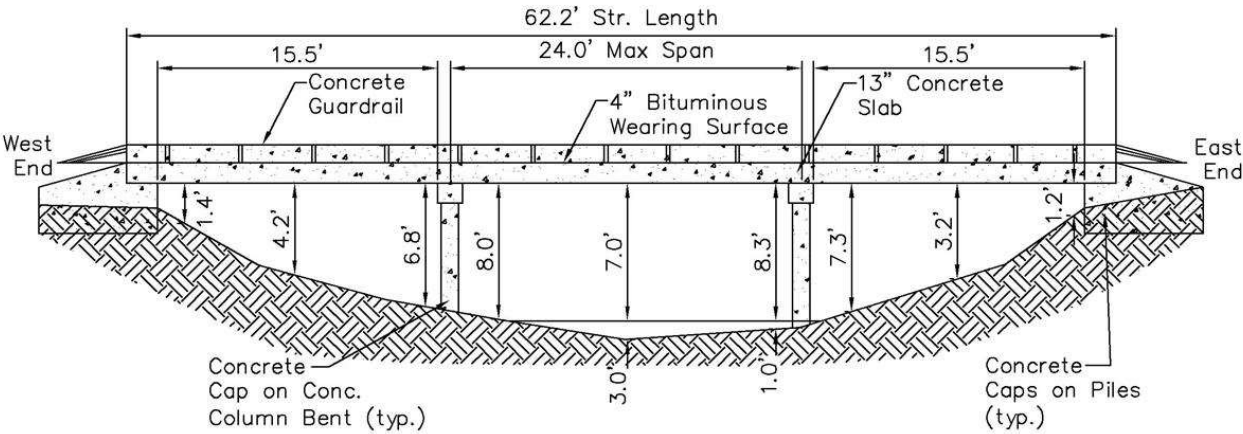
LOOKING EAST FROM ROADWAY



LOOKING SOUTH THROUGH CHANNEL



LOOKING NORTH UPSTREAM



STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500033
Facility Carried: CR 850S

Bridge Number: 75-00052
Feature(s) Intersected: OSBORN DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500033		
5. Inventory Route On:	1-4-1- 10-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	OSBORN DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 850S	16. Latitude:	41.17903
9. Location:	00.50 W CR 850 E	17. Longitude:	-86.540733

STRUCTURE DATA

43A. Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	0 (NONE)		

AGE OF SERVICE

27. Year Built:	1953	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	525 VPD	30. ADT Year Over:	2016
114. Future ADT:	775 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	4 mi.

GEOMETRIC DATA

48. Maximum Span Length:	24 ft.	49. Structure Length:	62.2 ft.
50A. Sidewalk/Curb Left:	1.0 ft.	50B. Sidewalk/Curb Right:	1.0 ft.
51. Bridge Roadway Width:	22 ft.	52. Deck Width (O-O)	26 ft.
32. Approach Roadway Width:	18 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	22 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500033
Facility Carried: CR 850S

Bridge Number: 75-00052
Feature(s) Intersected: OSBORN DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	5
	FAIR - CRACKS, EFFLORESCENCE AT CONSTRUCTION JOINTS			
58.01.	Wearing Surface:	Material: CHIP & SEAL (3")	Rating:	5
	FAIR - POTHoles, PATCHES, CRACKS			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	5
	FAIR - MINOR SPALLS WITH EXPOSED REINFORCING AT COPINGS, 1 LONGITUDINAL BAR WITH 100% SECTION LOSS NEAR PIER #2 SOUTH COPING			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	6
	SATIS - ABRASION DAMAGE ON BENT COLUMNS			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - MINOR DOWNSTREAM BANK EROSION			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500033
Facility Carried: CR 850S

Bridge Number: 75-00052
Feature(s) Intersected: OSBORN DITCH

APPRAISAL

67.	Structural:	5
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	1 (MEETS ACCEPTABLE STANDARDS)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL
	Material:	CHIP & SEAL
	Comments:	CRACKS, SETTLED
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

NO MAINTENANCE NEEDED.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 72.3
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING WEST FROM ROADWAY



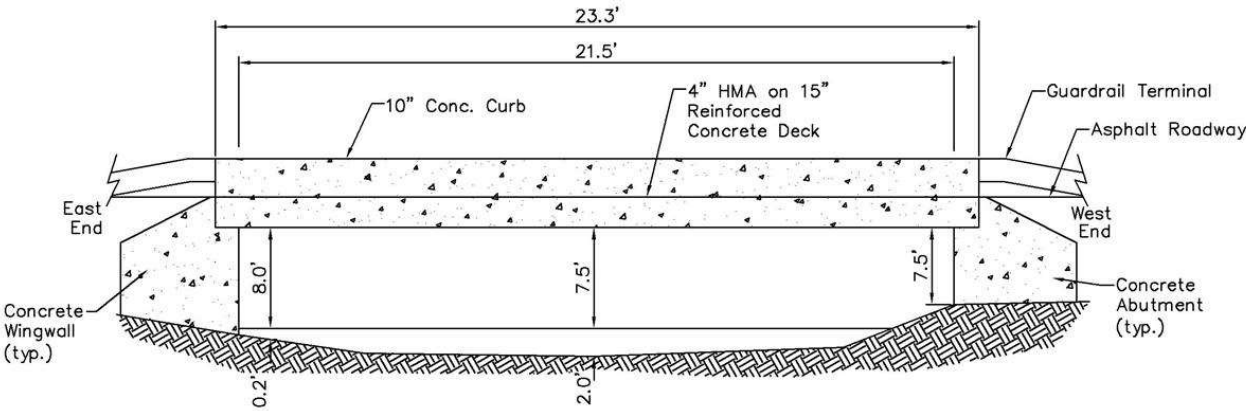
LOOKING EAST FROM ROADWAY



LOOKING SOUTH THROUGH CHANNEL



LOOKING NORTH UPSTREAM



STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500035
Facility Carried: CR 900S

Bridge Number: 75-00055
Feature(s) Intersected: CASTLEMAN DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500035		
5. Inventory Route On:	1-4-1- 4-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	CASTLEMAN DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 900S	16. Latitude:	41.17197
9. Location:	00.20 E CR 600 E	17. Longitude:	-86.580482

STRUCTURE DATA

43A. Structure Type - Main Span:	1 (CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	1
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	0 (NONE)		

AGE OF SERVICE

27. Year Built:	1953	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	625 VPD	30. ADT Year Over:	2016
114. Future ADT:	950 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48. Maximum Span Length:	21.5 ft.	49. Structure Length:	23.3 ft.
50A. Sidewalk/Curb Left:	1.0 ft.	50B. Sidewalk/Curb Right:	1.0 ft.
51. Bridge Roadway Width:	22.2 ft.	52. Deck Width (O-O)	26.2 ft.
32. Approach Roadway Width:	20 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	22.2 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500035
Facility Carried: CR 900S

Bridge Number: 75-00055
Feature(s) Intersected: CASTLEMAN DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	07 (RURAL - MAJOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	6
	SATIS - CRACKS, HONEYCOMBS			
58.01.	Wearing Surface:	Material: BITUMINOUS (4")	Rating:	5
	FAIR - NOT FULL WIDTH, RAVELING			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	6
	SATIS - CRACKS, SPALLS WITH EXPOSED RUSTED REINFORCING			
60.	Substructure:	Material: CONC. ABUTMENTS	Rating:	6
	SATIS - VERTICAL HAIRLINE CRACKS, EFFLORESCENCE			
61.	Channel:	Material: NATURAL	Rating:	7
	GOOD - MINOR EROSION			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500035
Facility Carried: CR 900S

Bridge Number: 75-00055
Feature(s) Intersected: CASTLEMAN DITCH

APPRAISAL

67.	Structural:	6
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	6 - SATISFACTORY, STRAIGHT, NARROW, SLIGHTLY ROLLING
	Material:	BITUMINOUS
	Comments:	CRACKED, SETTLED
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	FLOW AGAINST BOTH ABUTMENTS

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 81.4
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING WEST FROM ROADWAY



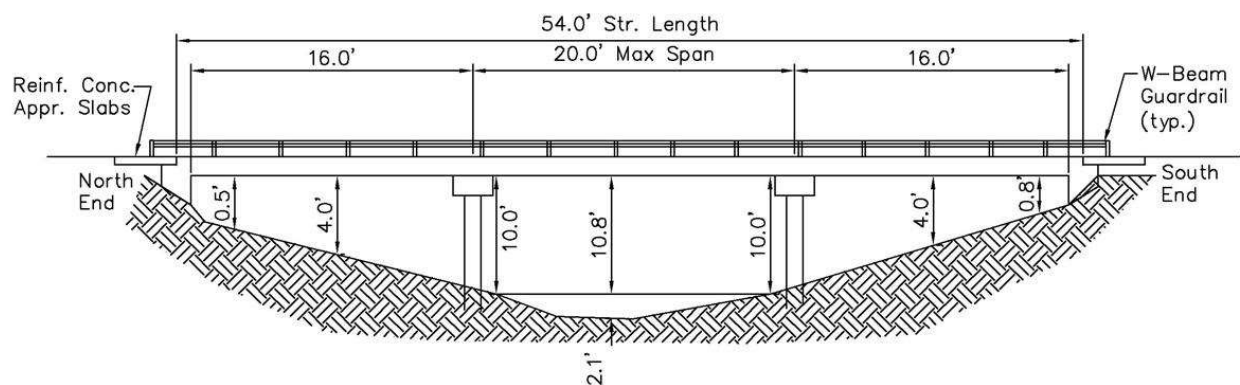
LOOKING EAST FROM ROADWAY



LOOKING NORTH THROUGH CHANNEL



LOOKING SOUTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00058 B CR 800 SOUTH over BOGUS RUN

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500101
Facility Carried: CR 800 SOUTH

Bridge Number: 75-00058 B
Feature(s) Intersected: BOGUS RUN

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500101		
5. Inventory Route On:	1-4-1- 6-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	BOGUS RUN	11. Mile Point (over):	0
7. Facility Carried:	CR 800 SOUTH	16. Latitude:	41.18646
9. Location:	00.02 E OF CR 200 W	17. Longitude:	-86.73661

STRUCTURE DATA

43A. Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	0 (NONE)
108C. Protection	1 (EPOXY COATED REINFORCING)		

AGE OF SERVICE

27. Year Built:	2017	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	850 VPD	30. ADT Year Over:	2016
114. Future ADT:	850 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48. Maximum Span Length:	20 ft.	49. Structure Length:	54 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	27.5 ft.	52. Deck Width (O-O)	28 ft.
32. Approach Roadway Width:	28 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	27.5 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500101
Facility Carried: CR 800 SOUTH

Bridge Number: 75-00058 B
Feature(s) Intersected: BOGUS RUN

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONT. CONC. SLAB	Rating:	8
	VERY GOOD - NEW CONSTRUCTION			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	8
	VERY GOOD - NEW CONSTRUCTION			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	8
	VERY GOOD - NEW CONSTRUCTION			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	8
	VERY GOOD - NEW CONSTRUCTION			
61.	Channel:	Material: RIPRAP, NATURAL	Rating:	8
	VERY GOOD - NO SCOUR			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	A (HL 93)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	84	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	63	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	38 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500101
Facility Carried: CR 800 SOUTH

Bridge Number: 75-00058 B
Feature(s) Intersected: BOGUS RUN

APPRAISAL

67.	Structural:	8
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	7
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	6 - SATISFACTORY, STRAIGHT, SLIGHTLY ROLLING, T INTERSECTION WEST
	Material:	CONC. APPR SLAB/BIT.
	Comments:	VERY GOOD
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD APPROACH RAILING W/ END TREATMENTS.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 88.1
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING WEST FROM ROADWAY



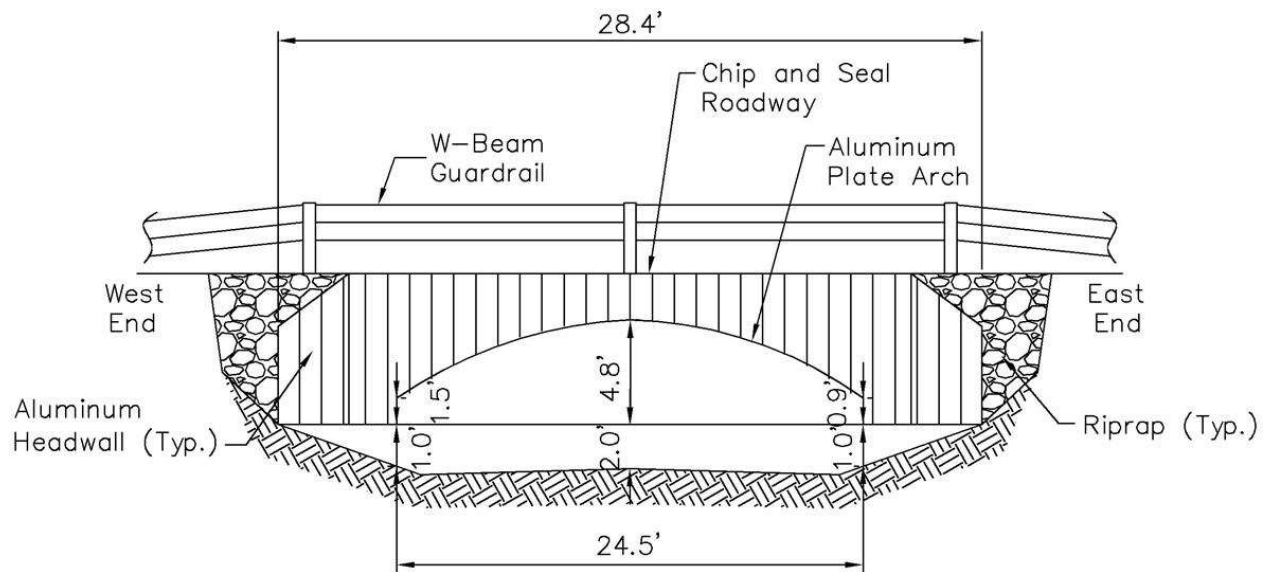
LOOKING EAST FROM ROADWAY



LOOKING NORTH THROUGH CHANNEL



LOOKING SOUTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00059 CR 700 SOUTH over BOGUS RUN

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500038
Facility Carried: CR 700 SOUTH

Bridge Number: 75-00059
Feature(s) Intersected: BOGUS RUN

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500038			
5.	Inventory Route On:	1-4-1- 18-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	BOGUS RUN	11.	Mile Point (over):	0
7.	Facility Carried:	CR 700 SOUTH	16.	Latitude:	41.20089
9.	Location:	00.20 E OF CR 200 W	17.	Longitude:	-86.731781

STRUCTURE DATA

43A.	Structure Type - Main Span:	9 (METAL)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	19 (CULVERT)	45.	Number of Spans - Main:	1
107.	Deck Structure Type:	N (N/A - UNDER FILL)	46.	Number of Spans - Approach:	0000
108A.	Wearing Surface:	6 (BITUMINOUS)	108B.	Membrane:	N (N/A)
108C.	Protection	N (N/A)			

AGE OF SERVICE

27.	Year Built:	2005	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	100 VPD	30.	ADT Year Over:	2017
114.	Future ADT:	150 VPD	115.	Future ADT Year:	2037
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	24.5 ft.	49.	Structure Length:	28.4 ft.
50A.	Sidewalk/Curb Left:	0.0 ft.	50B.	Sidewalk/Curb Right:	0.0 ft.
51.	Bridge Roadway Width:	22.2 ft.	52.	Deck Width (O-O)	34 ft.
32.	Approach Roadway Width:	19 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	15 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	22.2 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500038
Facility Carried: CR 700 SOUTH

Bridge Number: 75-00059
Feature(s) Intersected: BOGUS RUN

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: N/A	Rating:	N
	N/A			
58.01.	Wearing Surface:	Material: CHIP & SEAL	Rating:	7
	GOOD - NO DEFICIENCIES NOTED			
59.	Superstructure:	Material: N/A	Rating:	N
	N/A			
60.	Substructure:	Material: N/A	Rating:	N
	N/A			
61.	Channel:	Material: NATURAL	Rating:	5
	FAIR - MINIMAL RIPRAP, SILTING			
62.	Culvert/Ret:	Material: ALUMINUM ARCH	Rating:	4
	POOR - SOUTHEAST CORNER HAS SETTLED 2.0 FEET, DEFORMATIONS			

LOAD RATING AND POSTING

31.	Design Load:	0 (UNKNOWN)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	50	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	32	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	28 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500038
Facility Carried: CR 700 SOUTH

Bridge Number: 75-00059
Feature(s) Intersected: BOGUS RUN

APPRAISAL

67.	Structural:	4
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	6 - SATISFACTORY, STRAIGHT, IN SAG CURVE
	Material:	CHIP & SEAL
	Comments:	NEW CHIP & SEAL
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	Based on Scour Assessment by Gonya, Joshua 12-31-2018. Bill Dittrich 03/05/2019

PROPOSED IMPROVEMENTS

75A.	Type of Work:	31 (RECOMMEND REPLACEMENT DUE TO SETTLEMENT AND DETERIORATION.)
75B.	Work Done By:	1 (CONTRACT)
76.	Improvement Length:	50 ft.
94.	Bridge Improvement Costs:	213 x 1000
95.	Roadway Improvement Costs:	190 x 1000
96.	Total Project Cost:	509 x 1000
97.	Year of Cost Estimate:	2021

RECOMMENDED MAINTENANCE

UNTIL REPLACEMENT RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING WITH MISSING SOUTHWEST BRIDGE END MARKER.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	12 Months
92.	Critical Feature Inspection:	A: N	B: N	C: Y	12
93.	Date:	A:	B:	C:	9/5/2019

Unofficial Sufficiency Rating: 66.9
Unofficial Structural and Functional Classification: 1 (STRUCTURALLY DEFICIENT)



LOOKING WEST FROM ROADWAY



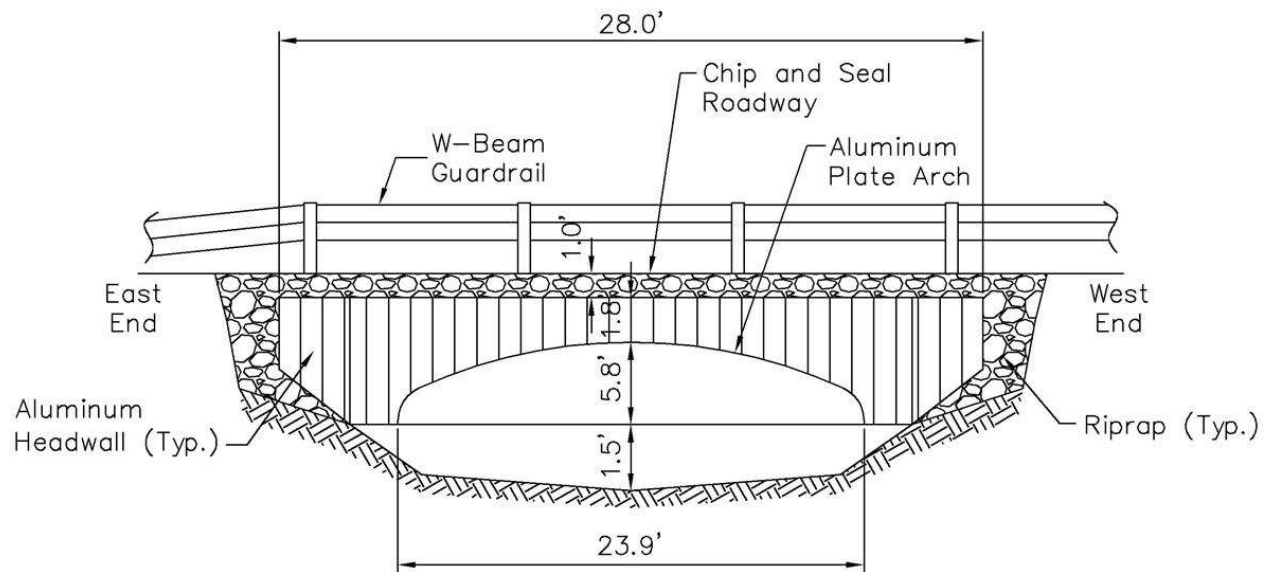
LOOKING EAST FROM ROADWAY



LOOKING NORTH THROUGH CHANNEL



LOOKING NORTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00061 CR 500S over SMITH DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500039
Facility Carried: CR 500S

Bridge Number: 75-00061
Feature(s) Intersected: SMITH DITCH

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500039			
5.	Inventory Route On:	1-4-1- 22-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	SMITH DITCH	11.	Mile Point (over):	0
7.	Facility Carried:	CR 500S	16.	Latitude:	41.22958
9.	Location:	01.00 W CR 300 E	17.	Longitude:	-86.659698

STRUCTURE DATA

43A.	Structure Type - Main Span:	9 (METAL)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	19 (CULVERT)	45.	Number of Spans - Main:	1
107.	Deck Structure Type:	N (N/A - UNDER FILL)	46.	Number of Spans - Approach:	0000
108A.	Wearing Surface:	6 (BITUMINOUS)	108B.	Membrane:	N (N/A)
108C.	Protection	N (N/A)			

AGE OF SERVICE

27.	Year Built:	2005	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	175 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	250 VPD	115.	Future ADT Year:	2036
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	23.9 ft.	49.	Structure Length:	28 ft.
50A.	Sidewalk/Curb Left:	0.0 ft.	50B.	Sidewalk/Curb Right:	0.0 ft.
51.	Bridge Roadway Width:	28.3 ft.	52.	Deck Width (O-O)	35.5 ft.
32.	Approach Roadway Width:	17 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	0 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	28.3 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500039
Facility Carried: CR 500S

Bridge Number: 75-00061
Feature(s) Intersected: SMITH DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: N/A	Rating:	N
	N/A			
58.01.	Wearing Surface:	Material: CHIP & SEAL	Rating:	7
	GOOD - NO DEFICIENCIES NOTED			
59.	Superstructure:	Material: N/A	Rating:	N
	N/A			
60.	Substructure:	Material: N/A	Rating:	N
	N/A			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - MINOR SILTATION			
62.	Culvert/Ret:	Material: ALUMINUM ARCH	Rating:	7
	GOOD - MINOR HEADWALL DEFLECTIONS, VEGETATION AT OPENINGS			

LOAD RATING AND POSTING

31.	Design Load:	0 (UNKNOWN)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	50	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	33	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	29 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500039
Facility Carried: CR 500S

Bridge Number: 75-00061
Feature(s) Intersected: SMITH DITCH

APPRAISAL

67.	Structural:	7
68.	Geometry:	6
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, SLIGHTLY ROLLING, NARROW
	Material:	
	Comments:	NEW CHIP & SEAL
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING WITH MISSING NORTHWEST BRIDGE END MARKER.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 95.7
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING WEST FROM ROADWAY



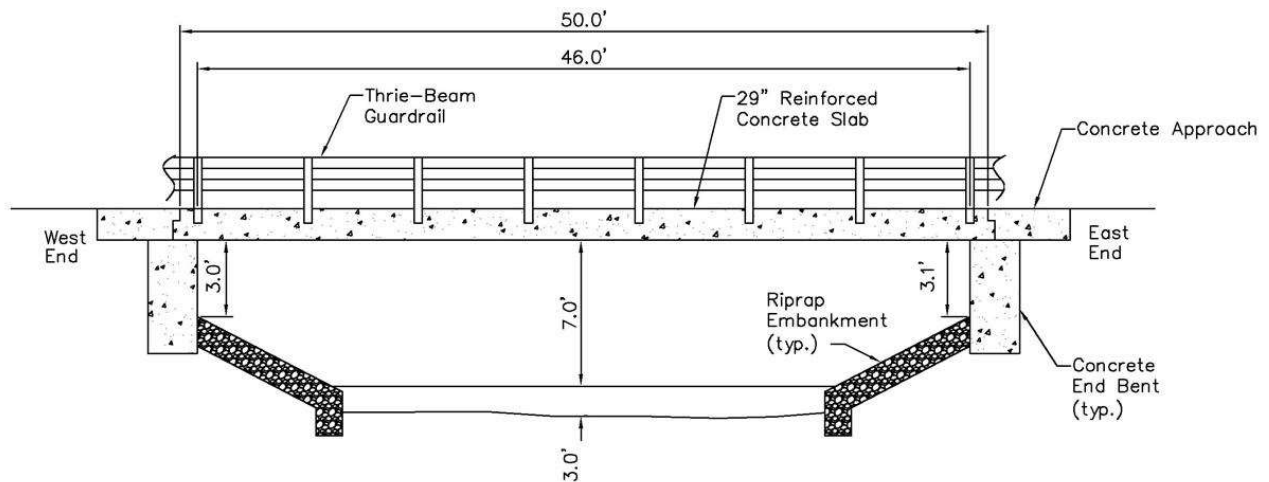
LOOKING EAST FROM ROADWAY



LOOKING NORTH THROUGH CHANNEL



LOOKING SOUTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00062 B CR 500S over SMITH DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500086
Facility Carried: CR 500S

Bridge Number: 75-00062 B
Feature(s) Intersected: SMITH DITCH

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500086			
5.	Inventory Route On:	1-4-1- 22-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	SMITH DITCH	11.	Mile Point (over):	0
7.	Facility Carried:	CR 500S	16.	Latitude:	41.23003
9.	Location:	00.04 W RANGE ROAD	17.	Longitude:	-86.699348

STRUCTURE DATA

43A.	Structure Type - Main Span:	1 (CONCRETE)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	01 (SLAB)	45.	Number of Spans - Main:	1
107.	Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46.	Number of Spans - Approach:	0000
108A.	Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B.	Membrane:	N (N/A)
108C.	Protection	1 (EPOXY COATED REINFORCING)			

AGE OF SERVICE

27.	Year Built:	2012	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	525 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	775 VPD	115.	Future ADT Year:	2036
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	1 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	46 ft.	49.	Structure Length:	50 ft.
50A.	Sidewalk/Curb Left:	0.0 ft.	50B.	Sidewalk/Curb Right:	0.0 ft.
51.	Bridge Roadway Width:	24 ft.	52.	Deck Width (O-O)	24.5 ft.
32.	Approach Roadway Width:	20 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	30 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	24 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500086
Facility Carried: CR 500S

Bridge Number: 75-00062 B
Feature(s) Intersected: SMITH DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	7
	GOOD - HAIRLINE CRACKS			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	7
	GOOD - HAIRLINE CRACKS			
59.	Superstructure:	Material: CONCRETE SLAB	Rating:	7
	GOOD - HAIRLINE CRACKS			
60.	Substructure:	Material: CONC. ABUTMENTS	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
61.	Channel:	Material: RIPRAP	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500086
Facility Carried: CR 500S

Bridge Number: 75-00062 B
Feature(s) Intersected: SMITH DITCH

APPRAISAL

67.	Structural:	7
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	1 (MEETS ACCEPTABLE STANDARDS)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	6 - VERY GOOD, STRAIGHT, '+' INTERSECTION EAST-RISE WEST
	Material:	CHIP & SEAL
	Comments:	SETTLEMENT
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

NO MAINTENANCE NEEDED.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 88.9
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING WEST FROM ROADWAY



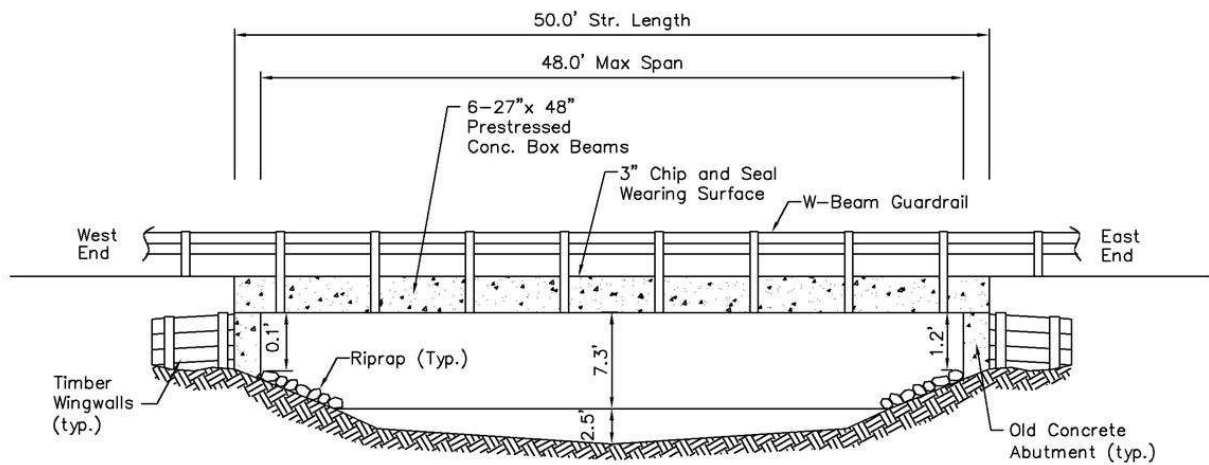
LOOKING EAST FROM ROADWAY



LOOKING SOUTH THROUGH CHANNEL



LOOKING SOUTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00063
CR 500 SOUTH over BOGUS RUN

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500041
Facility Carried: CR 500 SOUTH

Bridge Number: 75-00063
Feature(s) Intersected: BOGUS RUN

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500041		
5. Inventory Route On:	1-4-1- 22-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	BOGUS RUN	11. Mile Point (over):	0
7. Facility Carried:	CR 500 SOUTH	16. Latitude:	41.22964
9. Location:	00.20 W OF SR 39	17. Longitude:	-86.739746

STRUCTURE DATA

43A. Structure Type - Main Span:	5 (PRESTRESSED CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	05 (ADJACENT BOX BEAM)	45. Number of Spans - Main:	1
107. Deck Structure Type:	2 (CONCRETE PRECAST)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	0 (NONE)		

AGE OF SERVICE

27. Year Built:	1965	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	700 VPD	30. ADT Year Over:	2016
114. Future ADT:	1025 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	1 mi.

GEOMETRIC DATA

48. Maximum Span Length:	48 ft.	49. Structure Length:	50 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	23.8 ft.	52. Deck Width (O-O)	24.4 ft.
32. Approach Roadway Width:	19 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	23.8 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500041
Facility Carried: CR 500 SOUTH

Bridge Number: 75-00063
Feature(s) Intersected: BOGUS RUN

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: PRESTR. CONC. BOX BMS	Rating:	5
	FAIR - SEEPAGE, EFFLORESCENCE			
58.01.	Wearing Surface:	Material: CHIP & SEAL (3")	Rating:	6
	SATIS - RAVELING, NOT FULL WIDTH			
59.	Superstructure:	Material: PRESTR. CONC. BOX BMS	Rating:	5
	FAIR - SPALLS ON ALL BOX BEAMS, 2 STRANDS EXPOSED			
60.	Substructure:	Material: CONC. ABUTMENTS	Rating:	5
	FAIR - WINGWALLS BEGINNING TO FAIL			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - RIPRAP DAM, SCOUR HOLE DOWNSTREAM			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	0 (UNKNOWN)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	45	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	37	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	28 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500041

Bridge Number: 75-00063

Facility Carried: CR 500 SOUTH

Feature(s) Intersected: BOGUS RUN

APPRAISAL

67.	Structural:	5
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	6
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, SLIGHTLY ROLLING
	Material:	CHIP & SEAL
	Comments:	SETTLED
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	35 (RECOMMEND REHABILITATION DUE TO ADVANCING DETERIORATION.)
75B.	Work Done By:	1 (CONTRACT)
76.	Improvement Length:	50 ft.
94.	Bridge Improvement Costs:	118 x 1000
95.	Roadway Improvement Costs:	190 x 1000
96.	Total Project Cost:	373 x 1000
97.	Year of Cost Estimate:	2021

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 73.9
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING WEST FROM ROADWAY



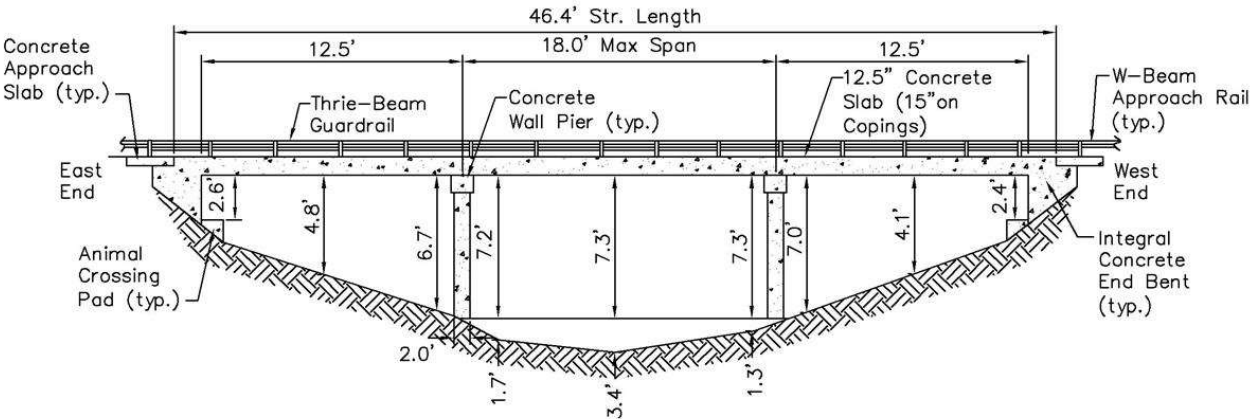
LOOKING EAST FROM ROADWAY



LOOKING SOUTH THROUGH CHANNEL



LOOKING SOUTH UPSTREAM



STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500042
Facility Carried: CR 400 SOUTH

Bridge Number: 75-00064
Feature(s) Intersected: BOGUS RUN

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500042		
5. Inventory Route On:	1-4-1- 24-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	BOGUS RUN	11. Mile Point (over):	0
7. Facility Carried:	CR 400 SOUTH	16. Latitude:	41.244
9. Location:	00.20 W OF SR 39	17. Longitude:	-86.740669

STRUCTURE DATA

43A. Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	N (N/A)
108C. Protection	1 (EPOXY COATED REINFORCING)		

AGE OF SERVICE

27. Year Built:	2003	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	550 VPD	30. ADT Year Over:	2016
114. Future ADT:	775 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	18 ft.	49. Structure Length:	46.4 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	26 ft.	52. Deck Width (O-O)	26.6 ft.
32. Approach Roadway Width:	22 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	26 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500042
Facility Carried: CR 400 SOUTH

Bridge Number: 75-00064
Feature(s) Intersected: BOGUS RUN

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	6
	SATIS - CRACKS, EFFLORESCENCE			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	6
	SATIS - CRACKS			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	6
	SATIS - CRACKS, EFFLORESCENCE			
60.	Substructure:	Material: CONC. BENTS/PIERS	Rating:	7
	GOOD - MINOR CRACKS, EFFLORESCENCE			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	5
	FAIR - DOWNSTREAM LOCALIZED SCOUR HOLE			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	0 (UNKNOWN)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500042
Facility Carried: CR 400 SOUTH

Bridge Number: 75-00064
Feature(s) Intersected: BOGUS RUN

APPRAISAL

67.	Structural:	6
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, IN SAG CURVE
	Material:	CONC./CHIP & SEAL
	Comments:	CRACKS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

NO MAINTENANCE NEEDED.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 94.4
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING WEST FROM ROADWAY



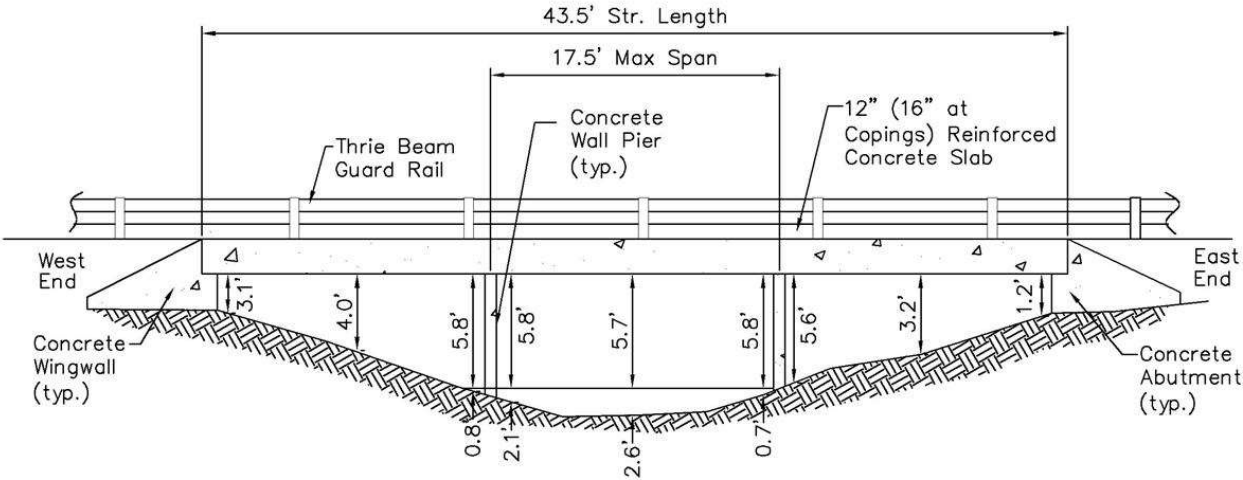
LOOKING EAST FROM ROADWAY



LOOKING SOUTH THROUGH CHANNEL



LOOKING SOUTH UPSTREAM



STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500043
Facility Carried: CR 400 SOUTH

Bridge Number: 75-00065
Feature(s) Intersected: SMITH DITCH

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500043			
5.	Inventory Route On:	1-4-1- 24-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	SMITH DITCH	11.	Mile Point (over):	0
7.	Facility Carried:	CR 400 SOUTH	16.	Latitude:	41.24437
9.	Location:	00.40 W OF RANGE ROAD	17.	Longitude:	-86.706352

STRUCTURE DATA

43A.	Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	01 (SLAB)	45.	Number of Spans - Main:	3
107.	Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46.	Number of Spans - Approach:	0000
108A.	Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B.	Membrane:	N (N/A)
108C.	Protection	1 (EPOXY COATED REINFORCING)			

AGE OF SERVICE

27.	Year Built:	2003	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	180 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	275 VPD	115.	Future ADT Year:	2036
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	17.5 ft.	49.	Structure Length:	43.5 ft.
50A.	Sidewalk/Curb Left:	0.0 ft.	50B.	Sidewalk/Curb Right:	0.0 ft.
51.	Bridge Roadway Width:	26 ft.	52.	Deck Width (O-O)	26.7 ft.
32.	Approach Roadway Width:	20 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	25 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	26 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500043
Facility Carried: CR 400 SOUTH

Bridge Number: 75-00065
Feature(s) Intersected: SMITH DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	6
	SATIS - THRU CRACKS WITH EFFLORESCENCE			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	6
	SATIS - CRACKS			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	6
	SATIS -THRU CRACKS WITH EFFLORESCENCE			
60.	Substructure:	Material: CONC. BENTS/PIERS	Rating:	7
	GOOD - MINOR CRACKS WITH EFFLORESCENCE			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - MINOR DOWNSTREAM BANK EROSION			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500043
Facility Carried: CR 400 SOUTH

Bridge Number: 75-00065
Feature(s) Intersected: SMITH DITCH

APPRAISAL

67.	Structural:	6
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	1 (MEETS ACCEPTABLE STANDARDS)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - GOOD, STRAIGHT, HILL WEST
	Material:	CONC./CHIP & SEAL
	Comments:	CRACKS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

NO MAINTENANCE NEEDED.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 99.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING SOUTH FROM ROADWAY



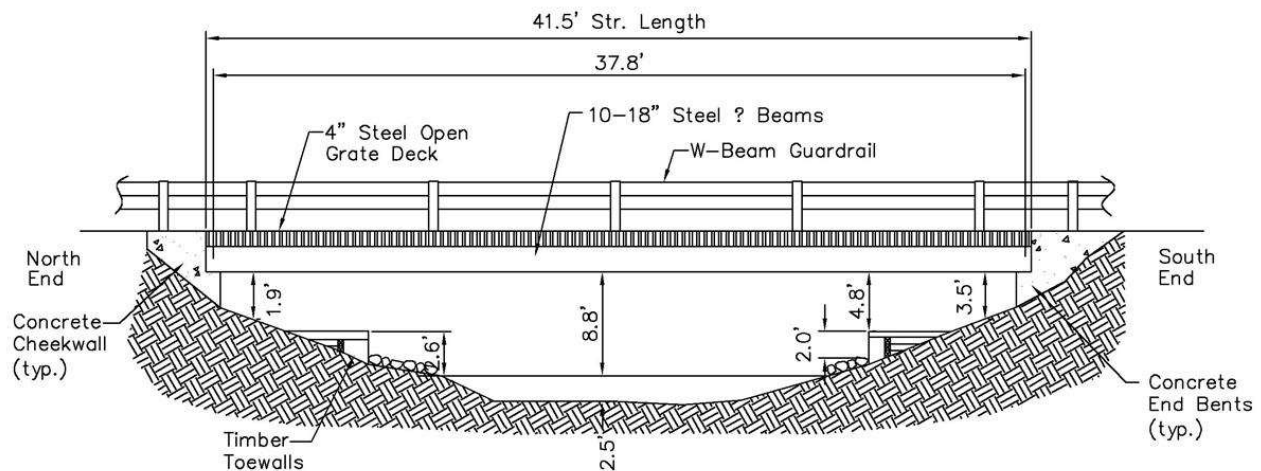
LOOKING NORTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00066
 RANGE ROAD over SMITH DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500044
Facility Carried: RANGE ROAD

Bridge Number: 75-00066
Feature(s) Intersected: SMITH DITCH

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500044			
5.	Inventory Route On:	1-4-1- 0-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	SMITH DITCH	11.	Mile Point (over):	0
7.	Facility Carried:	RANGE ROAD	16.	Latitude:	41.22992
9.	Location:	00.01 S CR 500 S	17.	Longitude:	-86.698364

STRUCTURE DATA

43A.	Structure Type - Main Span:	3 (STEEL)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	02 (GIRDER)	45.	Number of Spans - Main:	1
107.	Deck Structure Type:	3 (OPEN GRATING)	46.	Number of Spans - Approach:	0000
108A.	Wearing Surface:	9 (OTHER)	108B.	Membrane:	0 (NONE)
108C.	Protection	0 (NONE)			

AGE OF SERVICE

27.	Year Built:	1999	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	875 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	1250 VPD	115.	Future ADT Year:	2036
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	37.8 ft.	49.	Structure Length:	41.5 ft.
50A.	Sidewalk/Curb Left:	0.0 ft.	50B.	Sidewalk/Curb Right:	0.0 ft.
51.	Bridge Roadway Width:	27 ft.	52.	Deck Width (O-O)	27 ft.
32.	Approach Roadway Width:	22 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	0 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	27 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500044
Facility Carried: RANGE ROAD

Bridge Number: 75-00066
Feature(s) Intersected: SMITH DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: STEEL GRID DECK	Rating:	5
	FAIR - SURFACE RUST, DAMAGE			
58.01.	Wearing Surface:	Material: STEEL GRID DECK	Rating:	5
	FAIR - SURFACE RUST, DAMAGE			
59.	Superstructure:	Material: STEEL BEAMS	Rating:	6
	SATIS - FLAKING RUST			
60.	Substructure:	Material: CONC. ABUTMENTS	Rating:	6
	SATIS - UNDERCUT REPAIRED AT SOUTHWEST CORNER, POURED CONCRETE			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	6
	SATIS - MINOR BANK SLOUGHING			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	0 (UNKNOWN)	63.	Oper Rating Method:	1 (LOAD FACTOR (LF))
64.	Operating Rating:	62	65.	Inv Rating Method:	1 (LOAD FACTOR (LF))
66.	Inventory Rating:	37	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	26 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500044

Bridge Number: 75-00066

Facility Carried: RANGE ROAD

Feature(s) Intersected: SMITH DITCH

APPRAISAL

67.	Structural:	6
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	6 - SATISFACTORY, STRAIGHT, IN SAG CURVE, AT '+' INTERSECTION
	Material:	CONC./CHIP & SEAL
	Comments:	SETTLED, CRACKED
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 84.9
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING WEST FROM ROADWAY



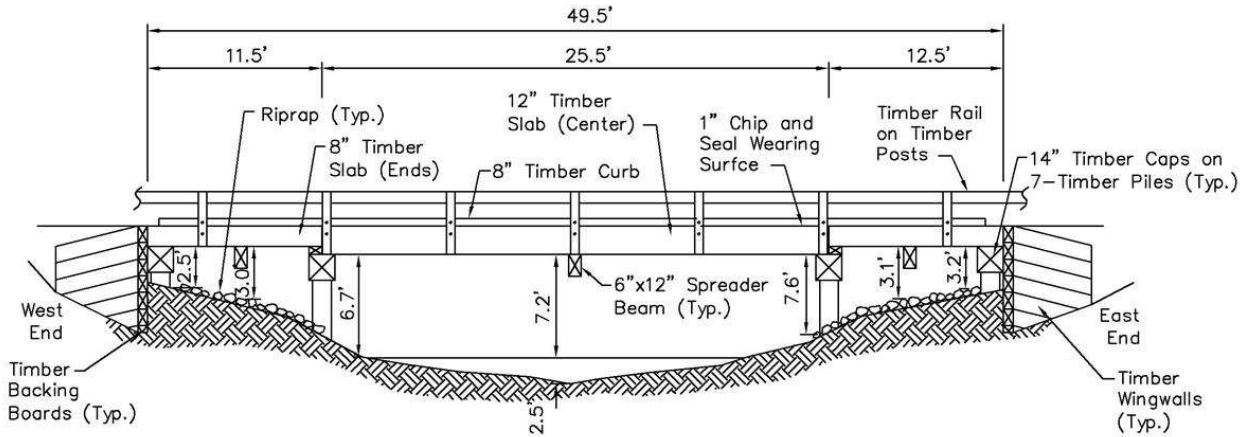
LOOKING EAST FROM ROADWAY



LOOKING SOUTH THROUGH CHANNEL



LOOKING SOUTH UPSTREAM



STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500045
Facility Carried: TOTO ROAD

Bridge Number: 75-00068
Feature(s) Intersected: BOGUS RUN

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500045		
5. Inventory Route On:	1-4-1- 0-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	BOGUS RUN	11. Mile Point (over):	0
7. Facility Carried:	TOTO ROAD	16. Latitude:	41.25906
9. Location:	00.50 W OF CR 400 W	17. Longitude:	-86.776688

STRUCTURE DATA

43A. Structure Type - Main Span:	7 (TIMBER)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	8 (WOOD OR TIMBER)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	7 (INTERNALLY SEALED)		

AGE OF SERVICE

27. Year Built:	1996	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	700 VPD	30. ADT Year Over:	2016
114. Future ADT:	1025 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	25.5 ft.	49. Structure Length:	49.5 ft.
50A. Sidewalk/Curb Left:	0.7 ft.	50B. Sidewalk/Curb Right:	0.7 ft.
51. Bridge Roadway Width:	26.4 ft.	52. Deck Width (O-O)	27.8 ft.
32. Approach Roadway Width:	21 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	45 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	26.4 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500045
Facility Carried: TOTO ROAD

Bridge Number: 75-00068
Feature(s) Intersected: BOGUS RUN

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: TIMBER	Rating:	7
	GOOD - MINOR CHECKS AND GAPS			
58.01.	Wearing Surface:	Material: CHIP & SEAL (1")	Rating:	5
	FAIR - CRACKED, NOT FULL WIDTH, RAVELING			
59.	Superstructure:	Material: TIMBER SLAB	Rating:	7
	GOOD - MINOR CHECKS			
60.	Substructure:	Material: TIMBER CAP ON PILES	Rating:	7
	GOOD - MINOR CHECKS AND SPLITS			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	6
	SATIS - SILTATION			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	0 (UNKNOWN)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	97	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	72	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	42 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500045
Facility Carried: TOTO ROAD

Bridge Number: 75-00068
Feature(s) Intersected: BOGUS RUN

APPRAISAL

67.	Structural:	7
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, NARROW, FAIRLY LEVEL
	Material:	CHIP & SEAL
	Comments:	SETTLED, CRACKED, ROUGH
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 94.3
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING SOUTH FROM ROADWAY



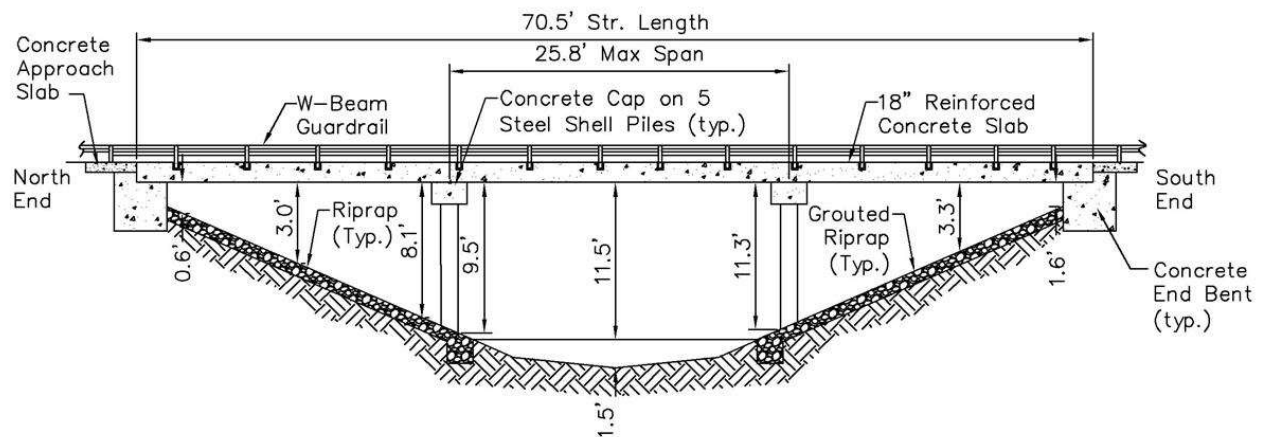
LOOKING NORTH FROM ROADWAY



LOOKING WEST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00070 B
CR 50E over SMITH DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500091
Facility Carried: CR 50E

Bridge Number: 75-00070 B
Feature(s) Intersected: SMITH DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500091		
5. Inventory Route On:	1-4-1- 137-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	SMITH DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 50E	16. Latitude:	41.22861
9. Location:	00.10 S CR 500 S	17. Longitude:	-86.688568

STRUCTURE DATA

43A. Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	N (N/A)
108C. Protection	1 (EPOXY COATED REINFORCING)		

AGE OF SERVICE

27. Year Built:	2015	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	180 VPD	30. ADT Year Over:	2016
114. Future ADT:	275 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	1 mi.

GEOMETRIC DATA

48. Maximum Span Length:	25.8 ft.	49. Structure Length:	70.5 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	23.5 ft.	52. Deck Width (O-O)	24 ft.
32. Approach Roadway Width:	18 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	30 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	23.5 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500091
Facility Carried: CR 50E

Bridge Number: 75-00070 B
Feature(s) Intersected: SMITH DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	9
	EXCELLENT - NO DEFICIENCIES NOTED			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	9
	EXCELLENT - NO DEFICIENCIES NOTED			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	9
	EXCELLENT - NO DEFICIENCIES NOTED			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	8
	VERY GOOD - LIGHT SURFACE RUST ON PIER PILES			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	8
	VERY GOOD - NO SCOUR			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	A (HL 93)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500091
Facility Carried: CR 50E

Bridge Number: 75-00070 B
Feature(s) Intersected: SMITH DITCH

APPRAISAL

67.	Structural:	8
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, IN SAG CURVE
	Material:	CONC. APPR SLAB/BIT.
	Comments:	MINOR CRACKS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING. CLEAR DEBRIS FROM CHANNEL.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 89.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING SOUTH FROM ROADWAY



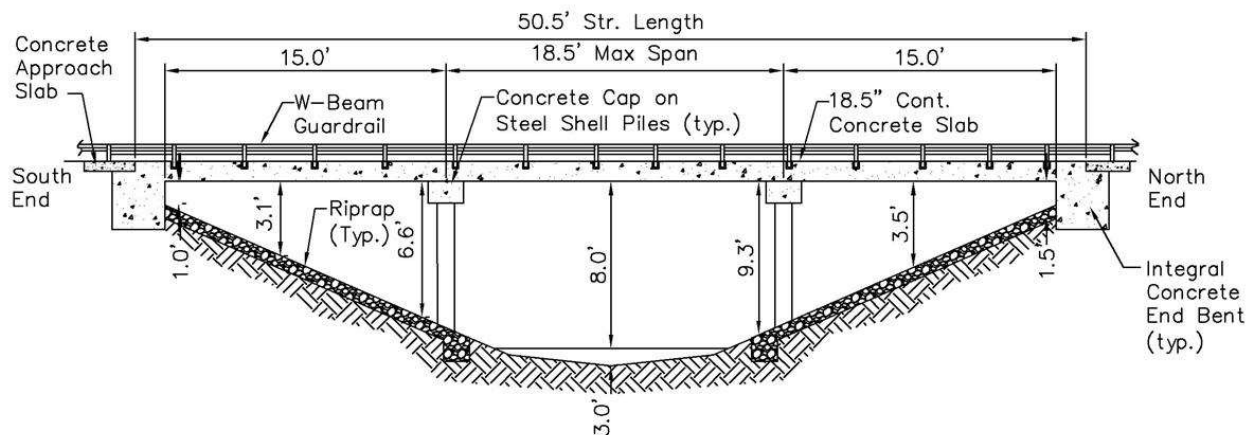
LOOKING NORTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00071 B
CR 100E over SMITH DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500094
Facility Carried: CR 100E

Bridge Number: 75-00071 B
Feature(s) Intersected: SMITH DITCH

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500094			
5.	Inventory Route On:	1-4-1- 100-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	SMITH DITCH	11.	Mile Point (over):	0
7.	Facility Carried:	CR 100E	16.	Latitude:	41.22216
9.	Location:	00.50 S OF CR 500 S	17.	Longitude:	-86.679008

STRUCTURE DATA

43A.	Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	01 (SLAB)	45.	Number of Spans - Main:	3
107.	Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46.	Number of Spans - Approach:	0
108A.	Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B.	Membrane:	N (N/A)
108C.	Protection	1 (EPOXY COATED REINFORCING)			

AGE OF SERVICE

27.	Year Built:	2015	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	375 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	500 VPD	115.	Future ADT Year:	2036
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	18.5 ft.	49.	Structure Length:	50.5 ft.
50A.	Sidewalk/Curb Left:	0.0 ft.	50B.	Sidewalk/Curb Right:	0.0 ft.
51.	Bridge Roadway Width:	25.4 ft.	52.	Deck Width (O-O)	26 ft.
32.	Approach Roadway Width:	22 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	30 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	25.4 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500094
Facility Carried: CR 100E

Bridge Number: 75-00071 B
Feature(s) Intersected: SMITH DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	7
	GOOD - LIGHT SURFACE RUST ON PILES, NOT COATED			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	A (HL 93)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500094
Facility Carried: CR 100E

Bridge Number: 75-00071 B
Feature(s) Intersected: SMITH DITCH

APPRAISAL

67.	Structural:	7
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL, DRIVE AT SOUTHWEST CORNER
	Material:	CONC. APPR SLAB/BIT.
	Comments:	NO DEFICIENCIES NOTED
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 89.9
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING SOUTH FROM ROADWAY



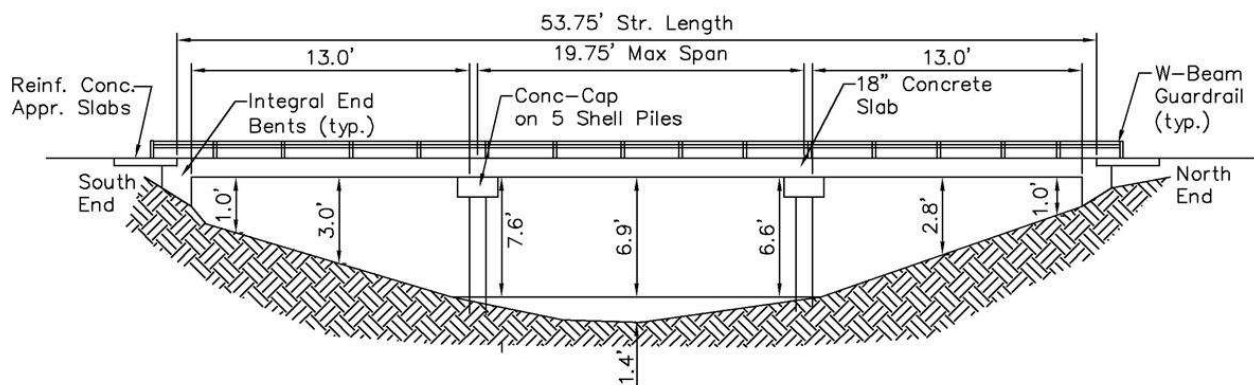
LOOKING NORTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00078 B CR 250 WEST over BOGUS RUN

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500096
Facility Carried: CR 250 WEST

Bridge Number: 75-00078 B
Feature(s) Intersected: BOGUS RUN

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500096		
5. Inventory Route On:	1-4-1- 117-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	BOGUS RUN	11. Mile Point (over):	0
7. Facility Carried:	CR 250 WEST	16. Latitude:	41.25248
9. Location:	00.50 S OF TOTO ROAD	17. Longitude:	-86.746971

STRUCTURE DATA

43A. Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	N (N/A)
108C. Protection	1 (EPOXY COATED REINFORCING)		

AGE OF SERVICE

27. Year Built:	2016	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	225 VPD	30. ADT Year Over:	2017
114. Future ADT:	300 VPD	115. Future ADT Year:	2037
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48. Maximum Span Length:	20 ft.	49. Structure Length:	54 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	27.3 ft.	52. Deck Width (O-O)	28.1 ft.
32. Approach Roadway Width:	20 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	7 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	27.3 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500096
Facility Carried: CR 250 WEST

Bridge Number: 75-00078 B
Feature(s) Intersected: BOGUS RUN

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	A (HL 93)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500096
Facility Carried: CR 250 WEST

Bridge Number: 75-00078 B
Feature(s) Intersected: BOGUS RUN

APPRAISAL

67.	Structural:	8
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - STRAIGHT, LEVEL, IN FLAT SAG CURVE
	Material:	CONC. APPR SLAB/BIT.
	Comments:	NEW BITUMINOUS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING AND NORTHEAST, SOUTHEAST, AND SOUTHWEST BRIDGE END MARKERS.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 98.0
Unofficial Structural and Functional Classification: 0 (OK)



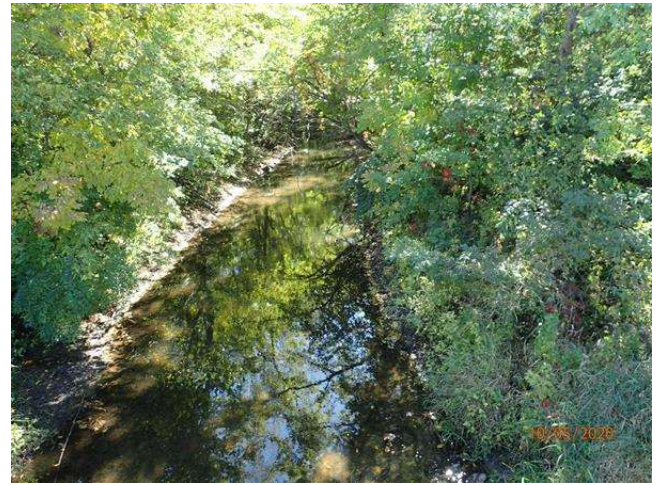
LOOKING WEST FROM ROADWAY



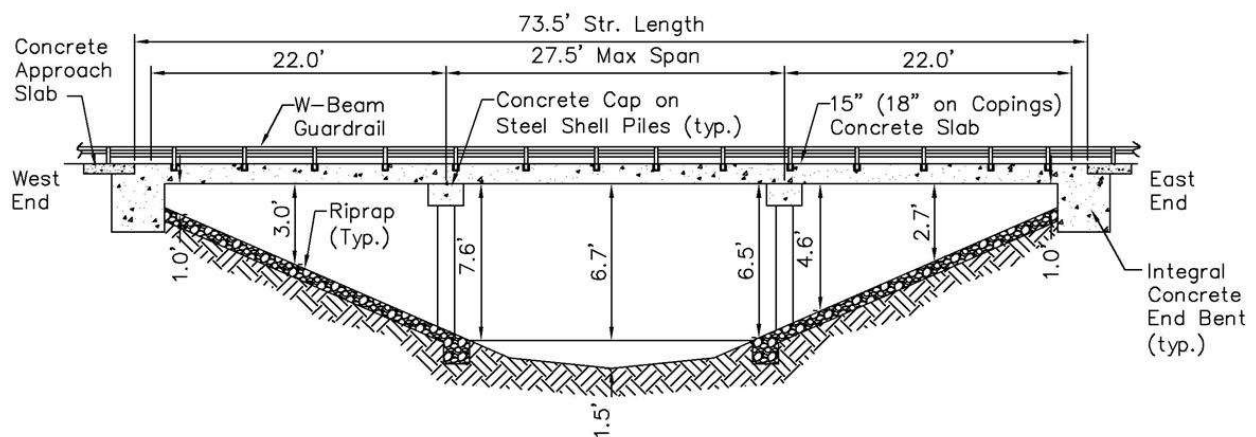
LOOKING EAST FROM ROADWAY



LOOKING SOUTH THOUGH CHANNEL



LOOKING SOUTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00079 B
CR 450 SOUTH over SMITH DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500092
Facility Carried: CR 450 SOUTH

Bridge Number: 75-00079 B
Feature(s) Intersected: SMITH DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500092		
5. Inventory Route On:	1-4-1- 26-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	SMITH DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 450 SOUTH	16. Latitude:	41.2372
9. Location:	00.20 W OF RANGE ROAD	17. Longitude:	-86.703873

STRUCTURE DATA

43A. Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	N (N/A)
108C. Protection	1 (EPOXY COATED REINFORCING)		

AGE OF SERVICE

27. Year Built:	2015	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	100 VPD	30. ADT Year Over:	2016
114. Future ADT:	175 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	1 mi.

GEOMETRIC DATA

48. Maximum Span Length:	27.5 ft.	49. Structure Length:	73.5 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	23.5 ft.	52. Deck Width (O-O)	24 ft.
32. Approach Roadway Width:	20 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	23.5 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500092
Facility Carried: CR 450 SOUTH

Bridge Number: 75-00079 B
Feature(s) Intersected: SMITH DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	8
	VERY GOOD - LIGHT RUST ON PIER PILES			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - NO DEFICIENCIES NOTED			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	A (HL 93)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500092
Facility Carried: CR 450 SOUTH

Bridge Number: 75-00079 B
Feature(s) Intersected: SMITH DITCH

APPRAISAL

67.	Structural:	8
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - STRAIGHT, LEVEL
	Material:	CONC. APPR SLAB/BIT.
	Comments:	NEW BITUMINOUS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 96.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING SOUTH FROM ROADWAY



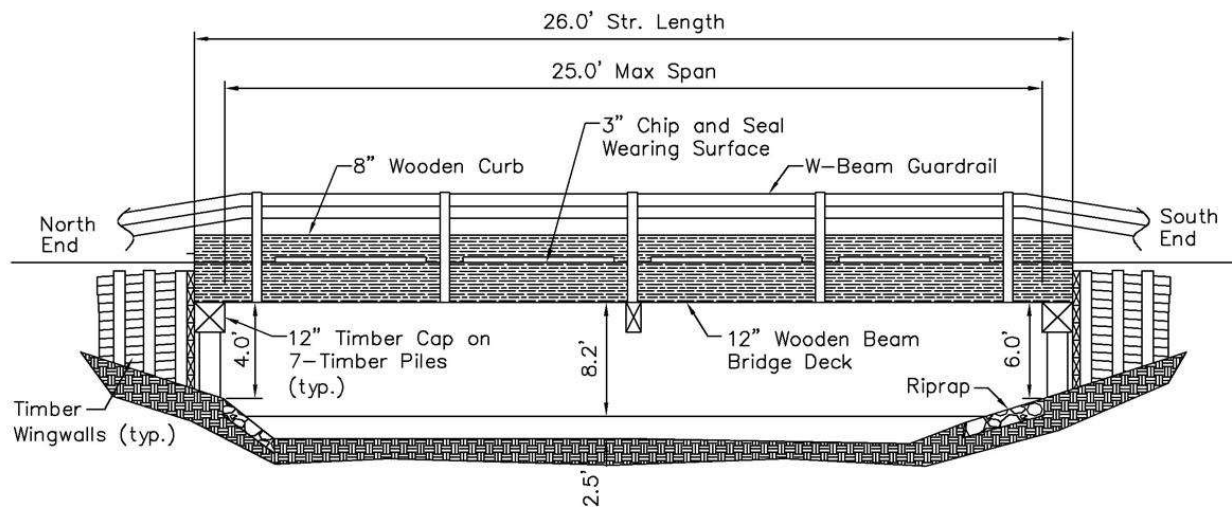
LOOKING NORTH FROM ROADWAY



LOOKING WEST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500051
Facility Carried: CR 350W

Bridge Number: 75-00083
Feature(s) Intersected: BOGUS RUN

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500051			
5.	Inventory Route On:	1-4-1- 113-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	BOGUS RUN	11.	Mile Point (over):	0
7.	Facility Carried:	CR 350W	16.	Latitude:	41.25379
9.	Location:	00.40 S CR 300 S	17.	Longitude:	-86.76632

STRUCTURE DATA

43A.	Structure Type - Main Span:	7 (TIMBER)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	01 (SLAB)	45.	Number of Spans - Main:	1
107.	Deck Structure Type:	8 (WOOD OR TIMBER)	46.	Number of Spans - Approach:	0000
108A.	Wearing Surface:	6 (BITUMINOUS)	108B.	Membrane:	0 (NONE)
108C.	Protection	7 (INTERNALLY SEALED)			

AGE OF SERVICE

27.	Year Built:	1978	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	875 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	1250 VPD	115.	Future ADT Year:	2036
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	25 ft.	49.	Structure Length:	26 ft.
50A.	Sidewalk/Curb Left:	0.7 ft.	50B.	Sidewalk/Curb Right:	0.7 ft.
51.	Bridge Roadway Width:	24.6 ft.	52.	Deck Width (O-O)	26 ft.
32.	Approach Roadway Width:	21 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	12 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	24.6 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500051
Facility Carried: CR 350W

Bridge Number: 75-00083
Feature(s) Intersected: BOGUS RUN

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: TIMBER	Rating:	7
	GOOD - SLAB PANEL GAPS			
58.01.	Wearing Surface:	Material: CHIP & SEAL (3")	Rating:	6
	SATIS - CRACKS			
59.	Superstructure:	Material: TIMBER SLAB	Rating:	7
	GOOD - MINOR CHECKS			
60.	Substructure:	Material: TIMBER CAP ON PILES	Rating:	6
	SATIS - MINOR PILE DETERIORATION AT EAST BENT #2, PILE #4, ROTTING WITH 25% SECTION LOSS			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	6
	SATIS - MINOR UPSTREAM BANK EROSION			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	80	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	59	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	33 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500051
Facility Carried: CR 350W

Bridge Number: 75-00083
Feature(s) Intersected: BOGUS RUN

APPRAISAL

67.	Structural:	6
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, DRIVES
	Material:	CHIP & SEAL
	Comments:	CRACKS, RAVELING
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT BRIDGE AND APPROACH RAILING.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 81.1
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING WEST FROM ROADWAY



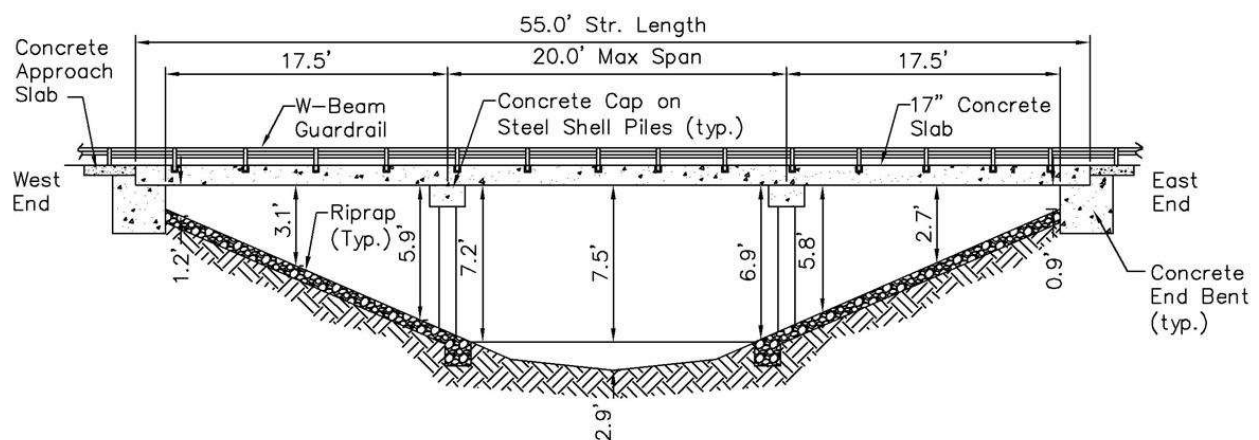
LOOKING EAST FROM ROADWAY



LOOKING NORTH THROUGH CHANNEL



LOOKING SOUTH UPSTREAM



STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500093
Facility Carried: CR 900S

Bridge Number: 75-00086 B
Feature(s) Intersected: BOGUS RUN

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500093			
5.	Inventory Route On:	1-4-1- 4-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	BOGUS RUN	11.	Mile Point (over):	0
7.	Facility Carried:	CR 900S	16.	Latitude:	41.17205
9.	Location:	00.20 W OF CR 100 W	17.	Longitude:	-86.723068

STRUCTURE DATA

43A.	Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	01 (SLAB)	45.	Number of Spans - Main:	3
107.	Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46.	Number of Spans - Approach:	0
108A.	Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B.	Membrane:	N (N/A)
108C.	Protection	1 (EPOXY COATED REINFORCING)			

AGE OF SERVICE

27.	Year Built:	2014	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	100 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	175 VPD	115.	Future ADT Year:	2036
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	20 ft.	49.	Structure Length:	55 ft.
50A.	Sidewalk/Curb Left:	0.0 ft.	50B.	Sidewalk/Curb Right:	0.0 ft.
51.	Bridge Roadway Width:	19.5 ft.	52.	Deck Width (O-O)	20 ft.
32.	Approach Roadway Width:	16 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	40 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	19.5 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500093
Facility Carried: CR 900S

Bridge Number: 75-00086 B
Feature(s) Intersected: BOGUS RUN

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
59.	Superstructure:	Material: CONT. CONC. SLAB	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	8
	VERY GOOD - NO PROTECTIVE COATING ON PILES			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - UP AND DOWNSTREAM BANK SLOUGHING			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	A (HL 93)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500093
Facility Carried: CR 900S

Bridge Number: 75-00086 B
Feature(s) Intersected: BOGUS RUN

APPRAISAL

67.	Structural:	8
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL
	Material:	CONCRETE/GRAVEL
	Comments:	RUTTED
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 97.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING WEST FROM ROADWAY



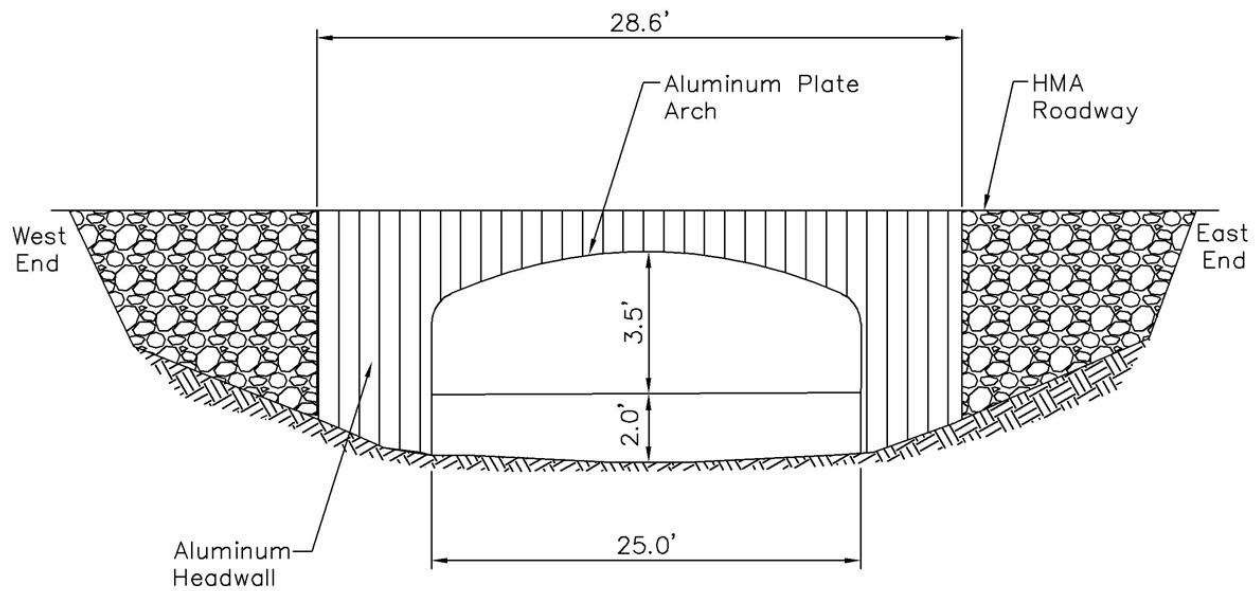
LOOKING EAST FROM ROADWAY



LOOKING NORTH THROUGH CHANNEL



LOOKING NORTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00088 OLD SR 10 over CEDAR LAKE DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500055
Facility Carried: OLD SR 10

Bridge Number: 75-00088
Feature(s) Intersected: CEDAR LAKE DITCH

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500055			
5.	Inventory Route On:	1-4-1- 10-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	CEDAR LAKE DITCH	11.	Mile Point (over):	0
7.	Facility Carried:	OLD SR 10	16.	Latitude:	41.21533
9.	Location:	00.30 E SR 35	17.	Longitude:	-86.61706

STRUCTURE DATA

43A.	Structure Type - Main Span:	9 (METAL)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	19 (CULVERT)	45.	Number of Spans - Main:	1
107.	Deck Structure Type:	N (N/A - UNDER FILL)	46.	Number of Spans - Approach:	0000
108A.	Wearing Surface:	6 (BITUMINOUS)	108B.	Membrane:	N (N/A)
108C.	Protection	N (N/A)			

AGE OF SERVICE

27.	Year Built:	2005	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	1725 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	2525 VPD	115.	Future ADT Year:	2036
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	1 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	27.1 ft.	49.	Structure Length:	28.1 ft.
50A.	Sidewalk/Curb Left:	0.0 ft.	50B.	Sidewalk/Curb Right:	0.0 ft.
51.	Bridge Roadway Width:	29.3 ft.	52.	Deck Width (O-O)	45 ft.
32.	Approach Roadway Width:	23.5 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	20 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	29.3 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500055
Facility Carried: OLD SR 10

Bridge Number: 75-00088
Feature(s) Intersected: CEDAR LAKE DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: N/A	Rating:	N
	N/A			
58.01.	Wearing Surface:	Material: CHIP & SEAL (5")	Rating:	5
	FAIR - SETTLED, CRACKED			
59.	Superstructure:	Material: N/A	Rating:	N
	N/A			
60.	Substructure:	Material: N/A	Rating:	N
	N/A			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	6
	SATIS - CHANNEL PONDED, SILTATION, DRIFT			
62.	Culvert/Ret:	Material: ALUMINUM ARCH	Rating:	5
	FAIR - DEFORMATIONS, DISCOLORATION BELOW ORDINARY HIGH WATER MARK			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	54	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	35	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	31 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500055
Facility Carried: OLD SR 10

Bridge Number: 75-00088
Feature(s) Intersected: CEDAR LAKE DITCH

APPRAISAL

67.	Structural:	5
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	4
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - STRAIGHT, LEVEL
	Material:	CHIP & SEAL
	Comments:	CRACKS, SETTLEMENT
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 77.6
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING SOUTH FROM ROADWAY



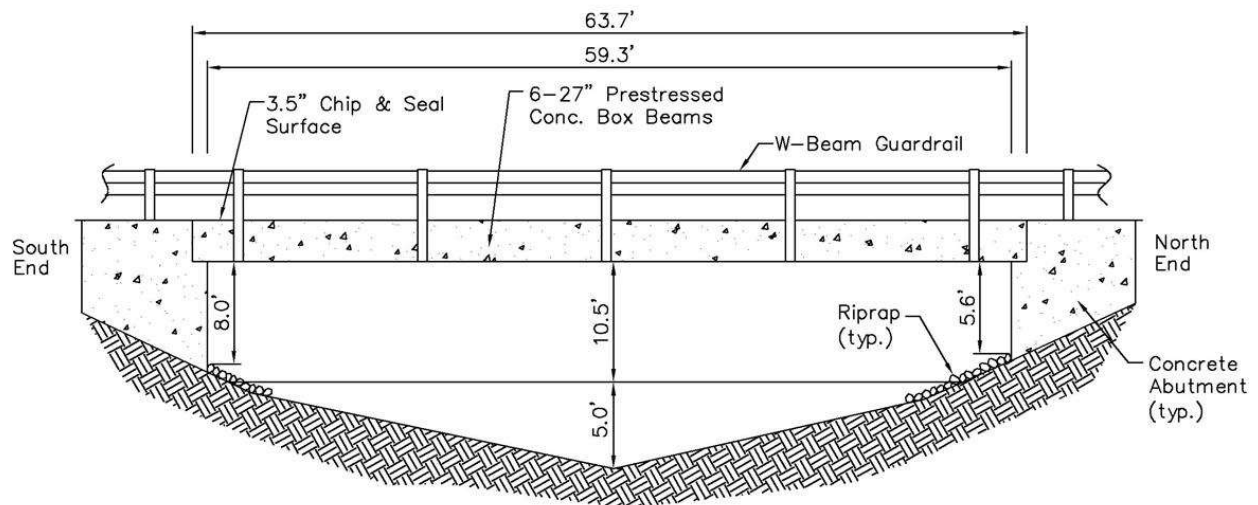
LOOKING NORTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00089
CR 650 WEST over KLINE ARM DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500056
Facility Carried: CR 650 WEST

Bridge Number: 75-00089
Feature(s) Intersected: KLINE ARM DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500056		
5. Inventory Route On:	1-4-1- 15-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	KLINE ARM DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 650 WEST	16. Latitude:	41.27087
9. Location:	00.50 N CR 250 S	17. Longitude:	-86.823631

STRUCTURE DATA

43A. Structure Type - Main Span:	5 (PRESTRESSED CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	05 (ADJACENT BOX BEAM)	45. Number of Spans - Main:	1
107. Deck Structure Type:	2 (CONCRETE PRECAST)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	0 (NONE)		

AGE OF SERVICE

27. Year Built:	1974	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	525 VPD	30. ADT Year Over:	2016
114. Future ADT:	775 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	9 mi.

GEOMETRIC DATA

48. Maximum Span Length:	61.7 ft.	49. Structure Length:	63.7 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	23.9 ft.	52. Deck Width (O-O)	24.5 ft.
32. Approach Roadway Width:	21 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	23.9 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500056
Facility Carried: CR 650 WEST

Bridge Number: 75-00089
Feature(s) Intersected: KLINE ARM DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	6
	SATIS - SEEPAGE, EFFLORESCENCE			
58.01.	Wearing Surface:	Material: BITUMINOUS (4")	Rating:	6
	SATIS - SEEPAGE			
59.	Superstructure:	Material: PRESTR. CONC. BOX BMS	Rating:	6
	SATIS - RUST STAINS, HAIRLINE CRACK, MINOR SHALLOW SPALLS AND DELAMINATIONS ON BOTTOMS EXPOSING METAL TRANSVERSE STRAPS, NOTED NO REINFORCING EXPOSED			
60.	Substructure:	Material: CONC. ABUTMENTS	Rating:	7
	GOOD - SEEPAGE			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	6
	SATIS - HEAVY TIMBER DRIFT UPSTREAM			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	49	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	33	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	27 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500056

Bridge Number: 75-00089

Facility Carried: CR 650 WEST

Feature(s) Intersected: KLINE ARM DITCH

APPRAISAL

67.	Structural:	6
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL, DRIVES
	Material:	CHIP & SEAL/BIT.
	Comments:	CRACKED
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING , AND PLACING RODS THROUGH BEAMS AND TIGHTEN AT RAIL POST CONNECTIONS, AND PATCHING SPALLS IN COPING BEAMS,

INSPECTION DATA

90.	Date:	10/22/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 84.3
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING SOUTH FROM ROADWAY



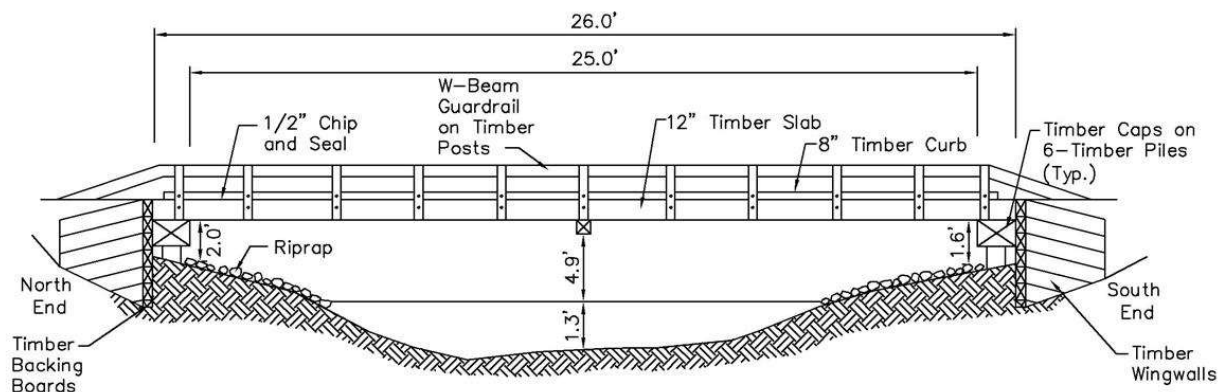
LOOKING NORTH FROM ROADWAY



LOOKING WEST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00092
CR 850W over EAST ARM PAYNE DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500058
Facility Carried: CR 850W

Bridge Number: 75-00092
Feature(s) Intersected: EAST ARM PAYNE DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500058		
5. Inventory Route On:	1-4-1- 7-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	EAST ARM PAYNE DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 850W	16. Latitude:	41.22824
9. Location:	00.10 S CR 500 S	17. Longitude:	-86.862198

STRUCTURE DATA

43A. Structure Type - Main Span:	7 (TIMBER)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	1
107. Deck Structure Type:	8 (WOOD OR TIMBER)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	7 (INTERNALLY SEALED)		

AGE OF SERVICE

27. Year Built:	1980	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	100 VPD	30. ADT Year Over:	2016
114. Future ADT:	175 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48. Maximum Span Length:	25 ft.	49. Structure Length:	26 ft.
50A. Sidewalk/Curb Left:	0.6 ft.	50B. Sidewalk/Curb Right:	0.7 ft.
51. Bridge Roadway Width:	24.8 ft.	52. Deck Width (O-O)	26.1 ft.
32. Approach Roadway Width:	16 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	24.8 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500058
Facility Carried: CR 850W

Bridge Number: 75-00092
Feature(s) Intersected: EAST ARM PAYNE DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: TIMBER	Rating:	6
	SATIS - SEEPAGE			
58.01.	Wearing Surface:	Material: CHIP & SEAL (0.5")	Rating:	5
	FAIR - RAVELING			
59.	Superstructure:	Material: TIMBER SLAB	Rating:	6
	SATIS - SEEPAGE			
60.	Substructure:	Material: TIMBER CAP ON PILES	Rating:	7
	GOOD - MINOR CHECKS			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	6
	SATIS - MINOR BANK SLOUGHING			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	83	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	62	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	35 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500058

Bridge Number: 75-00092

Facility Carried: CR 850W

Feature(s) Intersected: EAST ARM PAYNE DITCH

APPRAISAL

67.	Structural:	6
68.	Geometry:	6
69.	Underclearance:	N
71.	Waterway Adequacy:	6
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	6 - SATISFACTORY, STRAIGHT, LEVEL
	Material:	GRAVEL
	Comments:	MINOR RUTS
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING WITH MISSING SOUTHEAST BRIDGE END MARKER.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 97.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING EAST FROM ROADWAY



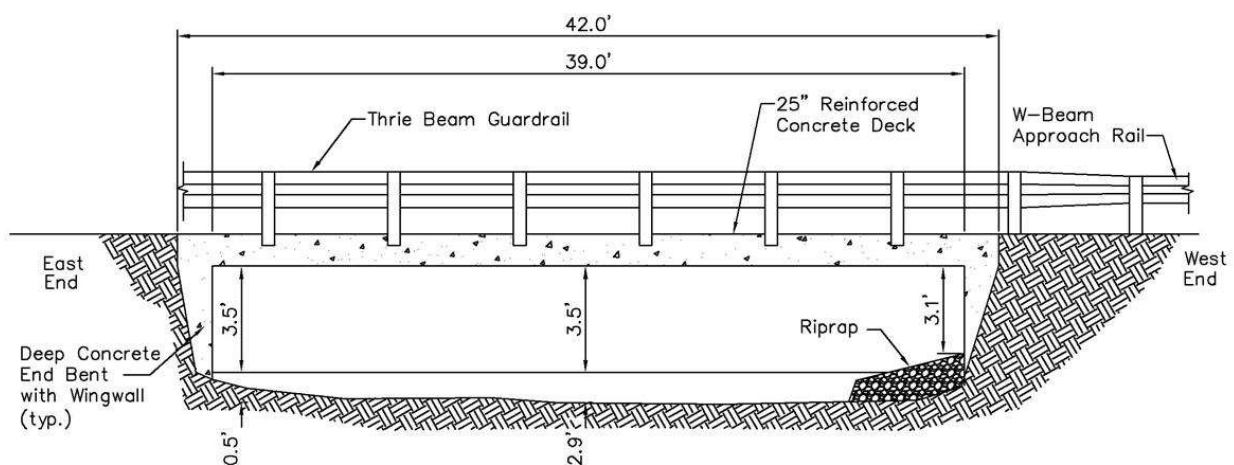
LOOKING WEST FROM ROADWAY



LOOKING NORTH THROUGH CHANNEL



LOOKING SOUTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00115 CR 200 SOUTH over SMITH DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500066
Facility Carried: CR 200 SOUTH

Bridge Number: 75-00115
Feature(s) Intersected: SMITH DITCH

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500066			
5.	Inventory Route On:	1-4-1- 34-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	SMITH DITCH	11.	Mile Point (over):	0
7.	Facility Carried:	CR 200 SOUTH	16.	Latitude:	41.2736
9.	Location:	00.01 W OF RANGE ROAD	17.	Longitude:	-86.698486

STRUCTURE DATA

43A.	Structure Type - Main Span:	1 (CONCRETE)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	01 (SLAB)	45.	Number of Spans - Main:	1
107.	Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46.	Number of Spans - Approach:	0000
108A.	Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B.	Membrane:	N (N/A)
108C.	Protection	1 (EPOXY COATED REINFORCING)			

AGE OF SERVICE

27.	Year Built:	2005	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	375 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	525 VPD	115.	Future ADT Year:	2036
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	39 ft.	49.	Structure Length:	42 ft.
50A.	Sidewalk/Curb Left:	0.0 ft.	50B.	Sidewalk/Curb Right:	0.0 ft.
51.	Bridge Roadway Width:	34.1 ft.	52.	Deck Width (O-O)	34.5 ft.
32.	Approach Roadway Width:	20 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	0 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	34.1 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500066
Facility Carried: CR 200 SOUTH

Bridge Number: 75-00115
Feature(s) Intersected: SMITH DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	7
	GOOD - MINOR SLAB CRACKS			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	7
	GOOD - MINOR DECK CRACKS			
59.	Superstructure:	Material: CONCRETE SLAB	Rating:	7
	GOOD - MINOR SLAB CRACKS			
60.	Substructure:	Material: CONC. ABUTMENTS	Rating:	8
	VERY GOOD - NO ISSUES NOTED			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	6
	SATIS - SILTATION			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500066
Facility Carried: CR 200 SOUTH

Bridge Number: 75-00115
Feature(s) Intersected: SMITH DITCH

APPRAISAL

67.	Structural:	7
68.	Geometry:	7
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	1 (MEETS ACCEPTABLE STANDARDS)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	6 - SATISFACTORY, STRAIGHT, LEVEL, '+' INTERSECTION EAST
	Material:	BITUMINOUS
	Comments:	CRACKS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

NO MAINTENANCE NEEDED.

INSPECTION DATA

90.	Date:	10/22/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 100.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING SOUTH FROM ROADWAY



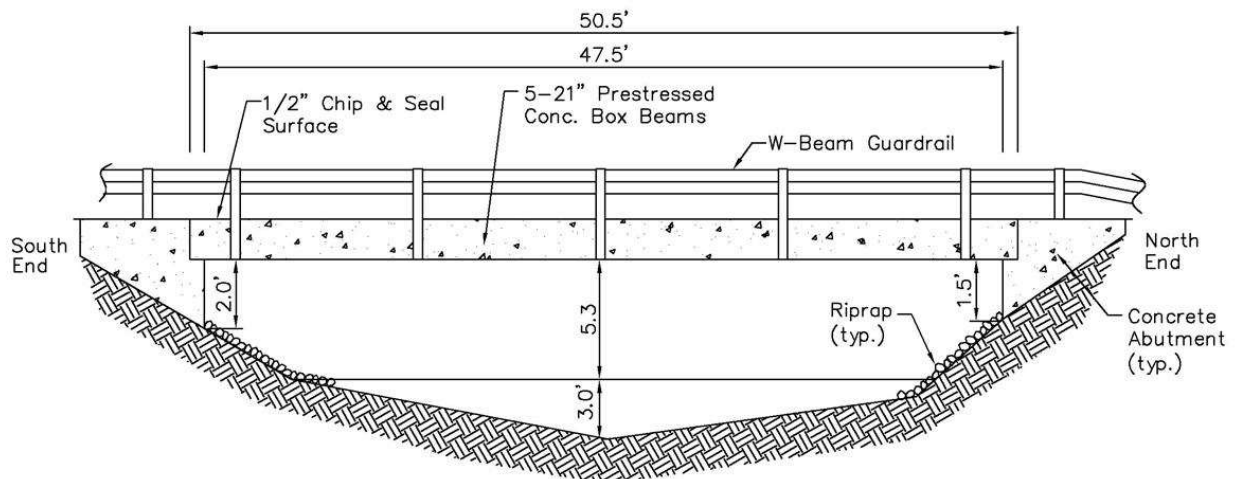
LOOKING NORTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00117
CR 100W over COTTONWOOD DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500067
Facility Carried: CR 100W

Bridge Number: 75-00117
Feature(s) Intersected: COTTONWOOD DITCH

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500067			
5.	Inventory Route On:	1-4-1- 100-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	COTTONWOOD DITCH	11.	Mile Point (over):	0
7.	Facility Carried:	CR 100W	16.	Latitude:	41.28812
9.	Location:	00.50 N OF CR 150 S	17.	Longitude:	-86.717743

STRUCTURE DATA

43A.	Structure Type - Main Span:	5 (PRESTRESSED CONCRETE)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	05 (ADJACENT BOX BEAM)	45.	Number of Spans - Main:	1
107.	Deck Structure Type:	2 (CONCRETE PRECAST)	46.	Number of Spans - Approach:	0000
108A.	Wearing Surface:	6 (BITUMINOUS)	108B.	Membrane:	0 (NONE)
108C.	Protection	0 (NONE)			

AGE OF SERVICE

27.	Year Built:	1935	106.	Reconstructed:	1981
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	180 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	275 VPD	115.	Future ADT Year:	2036
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	47.5 ft.	49.	Structure Length:	50.5 ft.
50A.	Sidewalk/Curb Left:	0.0 ft.	50B.	Sidewalk/Curb Right:	0.0 ft.
51.	Bridge Roadway Width:	19.7 ft.	52.	Deck Width (O-O)	20.3 ft.
32.	Approach Roadway Width:	16 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	0 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	19.7 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500067
Facility Carried: CR 100W

Bridge Number: 75-00117
Feature(s) Intersected: COTTONWOOD DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: PRESTR. CONC. BOX BMS	Rating:	6
	SATIS - SEEPAGE			
58.01.	Wearing Surface:	Material: CHIP & SEAL (0.5")	Rating:	5
	FAIR - RAVELING			
59.	Superstructure:	Material: PRESTR. CONC. BOX BMS	Rating:	6
	SATIS - EFFLORESCENCE			
60.	Substructure:	Material: CONC. ABUTMENTS	Rating:	5
	FAIR - CRACKS, DELAMINATIONS			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	5
	FAIR - SILTED, EROSION AT NORTH ABUTMENT			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	54	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	38	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	29 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500067
Facility Carried: CR 100W

Bridge Number: 75-00117
Feature(s) Intersected: COTTONWOOD DITCH

APPRAISAL

67.	Structural:	5
68.	Geometry:	3
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, BRIDGE SLIGHTLY ABOVE APPROACHES
	Material:	CHIP & SEAL
	Comments:	CRACKS, SETTLED
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.

INSPECTION DATA

90.	Date:	10/22/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 67.0

Unofficial Structural and Functional Classification: 2 (FUNCTIONALLY OBSOLETE)



LOOKING NORTH FROM ROADWAY



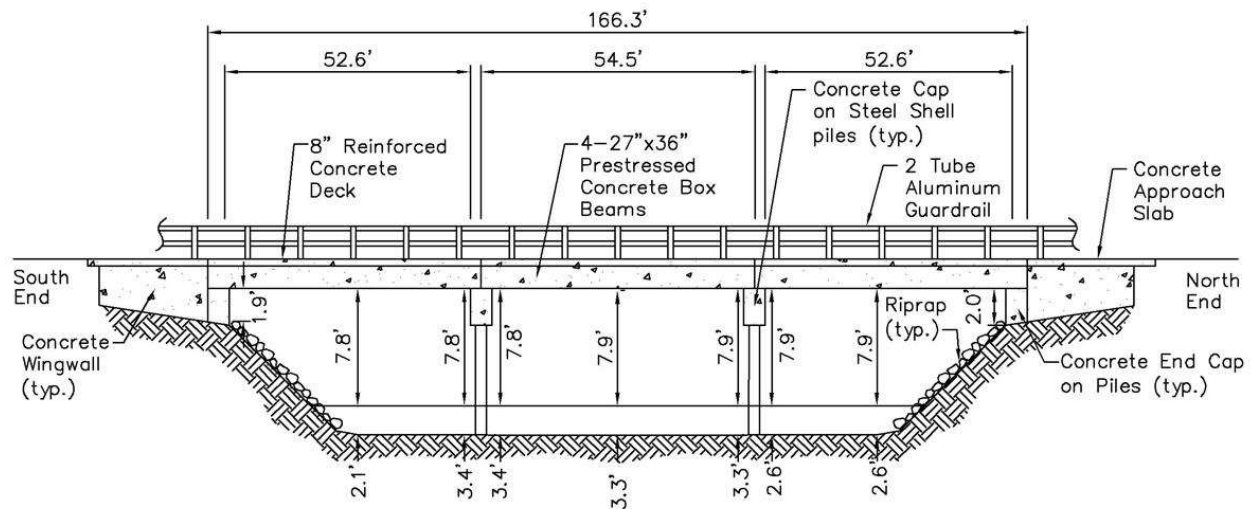
LOOKING SOUTH FROM ROADWAY



LOOKING WEST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00125 RANGE ROAD over YELLOW RIVER

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500070
Facility Carried: RANGE ROAD

Bridge Number: 75-00125
Feature(s) Intersected: YELLOW RIVER

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500070		
5. Inventory Route On:	1-4-1- 0-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	YELLOW RIVER	11. Mile Point (over):	0
7. Facility Carried:	RANGE ROAD	16. Latitude:	41.30623
9. Location:	00.80 S OF SR 8	17. Longitude:	-86.698509

STRUCTURE DATA

43A. Structure Type - Main Span:	6 (CONT PRESTR CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	06 (SPREAD BOX BEAM)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	N (N/A)
108C. Protection	0 (NONE)		

AGE OF SERVICE

27. Year Built:	1984	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	875 VPD	30. ADT Year Over:	2016
114. Future ADT:	1250 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	54.5 ft.	49. Structure Length:	166.3 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	28.3 ft.	52. Deck Width (O-O)	30.5 ft.
32. Approach Roadway Width:	22 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	28.3 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500070
Facility Carried: RANGE ROAD

Bridge Number: 75-00125
Feature(s) Intersected: YELLOW RIVER

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	7
	GOOD - MINOR TRANSVERSE CRACKS			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	6
	SATIS - CRACKS, EFFLORESCENCE			
59.	Superstructure:	Material: PRESTR. CONC. BOX BMS	Rating:	7
	GOOD - DIAPHRAGM SPALLS, BACKWALL SPALLS			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	7
	GOOD - SURFACE RUST, NORTHEAST WING DAMAGE			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	7
	GOOD - MINOR BANK SLOUGHING, DRIFT AT PIERS			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	68	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	39	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	30 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500070

Bridge Number: 75-00125

Facility Carried: RANGE ROAD

Feature(s) Intersected: YELLOW RIVER

APPRAISAL

67.	Structural:	7
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	6 - SATISFACTORY, STRAIGHT, BRIDGE ABOVE APPROACHES
	Material:	CHIP & SEAL
	Comments:	CRACKS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.

INSPECTION DATA

90.	Date:	10/22/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 90.3
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING NORTH FROM ROADWAY



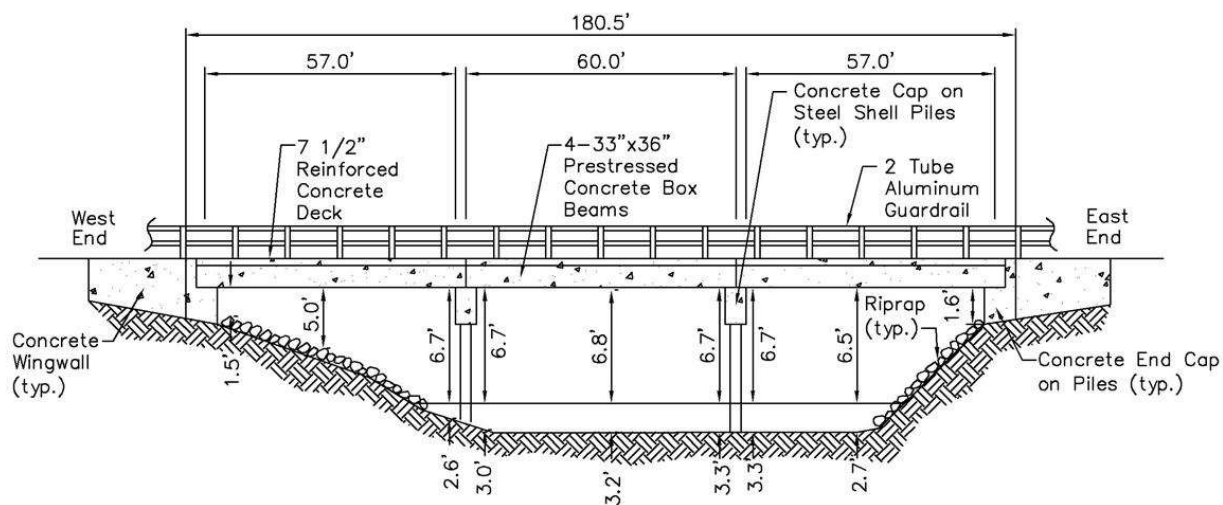
LOOKING SOUTH FROM ROADWAY



LOOKING WEST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500071
Facility Carried: CR 100W

Bridge Number: 75-00126
Feature(s) Intersected: YELLOW RIVER

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500071		
5. Inventory Route On:	1-4-1- 100-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	YELLOW RIVER	11. Mile Point (over):	0
7. Facility Carried:	CR 100W	16. Latitude:	41.30634
9. Location:	00.80 S OF SR 8	17. Longitude:	-86.717842

STRUCTURE DATA

43A. Structure Type - Main Span:	6 (CONT PRESTR CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	06 (SPREAD BOX BEAM)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	N (N/A)
108C. Protection	0 (NONE)		

AGE OF SERVICE

27. Year Built:	1984	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	200 VPD	30. ADT Year Over:	2016
114. Future ADT:	275 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	60 ft.	49. Structure Length:	180.5 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	26.2 ft.	52. Deck Width (O-O)	28.5 ft.
32. Approach Roadway Width:	22.5 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	5 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	26.2 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500071
Facility Carried: CR 100W

Bridge Number: 75-00126
Feature(s) Intersected: YELLOW RIVER

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	6
	SATIS - CRACKS, POPOUTS			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	6
	SATIS - CRACKS, WEAR			
59.	Superstructure:	Material: PRESTR. CONC. BOX BMS	Rating:	7
	GOOD - MINOR CRACKS AT BEAM ENDS			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	7
	GOOD - SURFACE RUST			
61.	Channel:	Material: NATURAL/RIPRAP	Rating:	6
	SATIS - MINOR BANK SLOUGHING, DEBRIS IN CHANNEL			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500071
Facility Carried: CR 100W

Bridge Number: 75-00126
Feature(s) Intersected: YELLOW RIVER

APPRAISAL

67.	Structural:	7
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	6 - SATISFACTORY, STRAIGHT, BRIDGE ABOVE APPROACHES
	Material:	CHIP & SEAL
	Comments:	CRACKED, SETTLED
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING AND CLEARING DEBRIS FROM CHANNEL.

INSPECTION DATA

90.	Date:	10/22/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 98.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING NORTH FROM ROADWAY



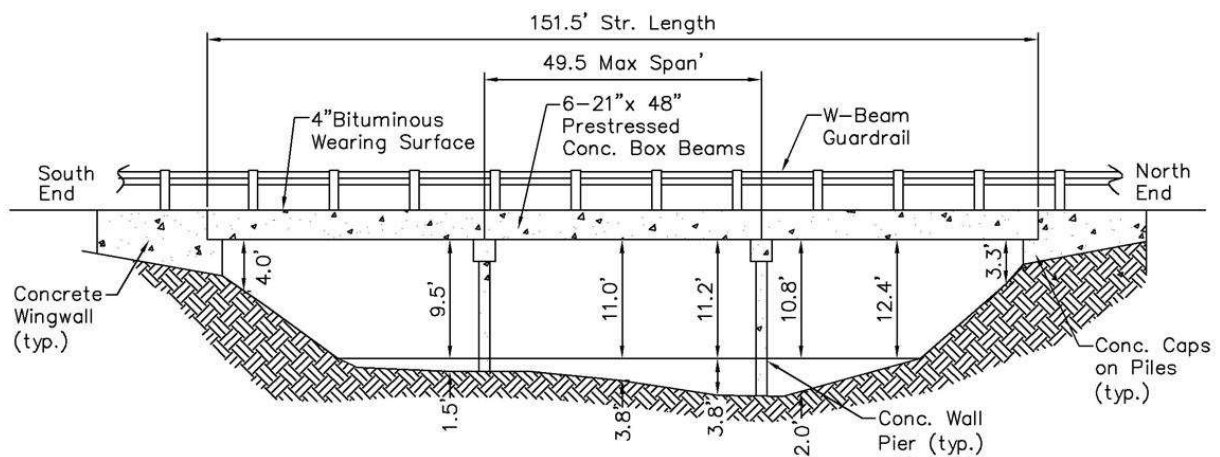
LOOKING SOUTH FROM ROADWAY



LOOKING WEST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00137 CR 300E over YELLOW RIVER

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500074
Facility Carried: CR 300E

Bridge Number: 75-00137
Feature(s) Intersected: YELLOW RIVER

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500074		
5. Inventory Route On:	1-4-1- 47-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	YELLOW RIVER	11. Mile Point (over):	0
7. Facility Carried:	CR 300E	16. Latitude:	41.30626
9. Location:	00.10 S CR 50 N	17. Longitude:	-86.639862

STRUCTURE DATA

43A. Structure Type - Main Span:	5 (PRESTRESSED CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	05 (ADJACENT BOX BEAM)	45. Number of Spans - Main:	3
107. Deck Structure Type:	2 (CONCRETE PRECAST)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	0 (NONE)		

AGE OF SERVICE

27. Year Built:	1965	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	875 VPD	30. ADT Year Over:	2017
114. Future ADT:	1200 VPD	115. Future ADT Year:	2037
109. Average Truck Traffic:	40 %Trucks	19. Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48. Maximum Span Length:	49.5 ft.	49. Structure Length:	151.5 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	24 ft.	52. Deck Width (O-O)	24.4 ft.
32. Approach Roadway Width:	20 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	24 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500074
Facility Carried: CR 300E

Bridge Number: 75-00137
Feature(s) Intersected: YELLOW RIVER

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	07 (RURAL - MAJOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: PRESTR. CONC. BOX BMS	Rating:	5
	FAIR - SEEPAGE, RUST STAINED BEAM DRAINS			
58.01.	Wearing Surface:	Material: BITUMINOUS (2")	Rating:	7
	GOOD - NEW BITUMINOUS OVERLAY, TRANSVERSE CRACKS AT PIERS AND END OF BRIDGE			
59.	Superstructure:	Material: PRESTR. CONC. BOX BMS	Rating:	5
	FAIR - BENT #4 SPALLS, BEAMS HAVE HAIRLINE LONGITUDINAL CRACKS, HAIRLINE HORIZONTAL CRACKS IN EAST COPING BEAM IN SOUTH SPAN AT THROUGH BOLT LOCATION, HAIRLINE HORIZONTAL CRACKS IN WEST COPING BEAM IN NORTH SPAN, AND CENTER SPAN AT THROUGH BOLT LOCATION, TYPICAL			
60.	Substructure:	Material: CONC. BENTS/PIERS	Rating:	4
	POOR - CONCRETE DETERIORATION, RUSTED REINFORCING, 5 PILES EXPOSED IN NORTH PIER, 3 PILES EXPOSED IN SOUTH PIER			
61.	Channel:	Material: NATURAL	Rating:	6
	SATIS - TIMBER DRIFT, SCOUR AT UPSTREAM NORTH AND SOUTH PIERS			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	0 (UNKNOWN)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	53	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	32	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	25 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500074
Facility Carried: CR 300E

Bridge Number: 75-00137
Feature(s) Intersected: YELLOW RIVER

APPRAISAL

67.	Structural:	4
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, BRIDGE SLIGHTLY ABOVE APPROACHES
	Material:	
	Comments:	NEW BITUMINOUS OVERLAY
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	STABLE WITH PILES EXPOSED OF INTERIOR WALL PIERS

PROPOSED IMPROVEMENTS

75A.	Type of Work:	31 (RECOMMEND REPLACEMENT WITH WIDENING DUE TO SUB-STRUCTURAL DETERIORATION.)
75B.	Work Done By:	1 (CONTRACT)
76.	Improvement Length:	152 ft.
94.	Bridge Improvement Costs:	840 x 1000
95.	Roadway Improvement Costs:	190 x 1000
96.	Total Project Cost:	1300 x 1000
97.	Year of Cost Estimate:	2021

RECOMMENDED MAINTENANCE

UNTIL REHABILITATION RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.

INSPECTION DATA

90.	Date:	10/22/2020	91.	Des. Inspection Frequency:	12 Months
92.	Critical Feature Inspection:	A: N	B: Y	24	C: N
93.	Date:	A:	B: 9/26/2019	C:	

Unofficial Sufficiency Rating: 49.7
Unofficial Structural and Functional Classification: 1 (STRUCTURALLY DEFICIENT)



LOOKING SOUTH FROM ROADWAY



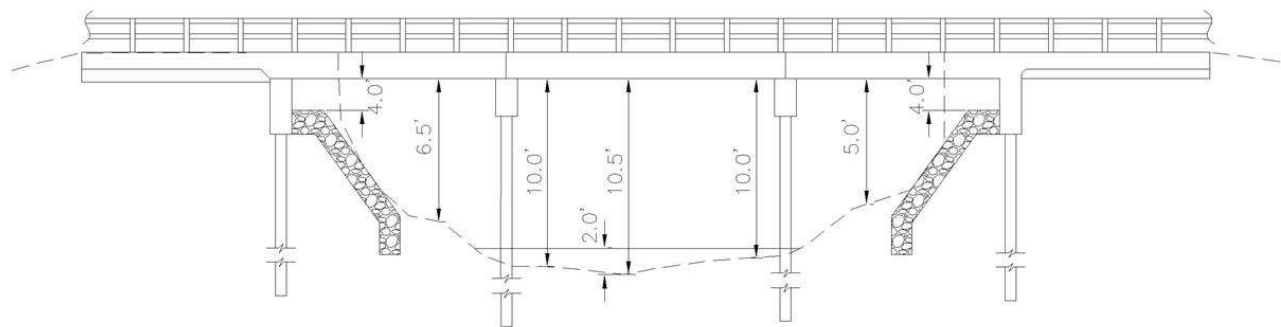
LOOKING NORTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00140 B
CR 200E over ROBBINS DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500103
Facility Carried: CR 200E

Bridge Number: 75-00140 B
Feature(s) Intersected: ROBBINS DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500103		
5. Inventory Route On:	1-4-1- 43-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	ROBBINS DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 200E	16. Latitude:	41.3738
9. Location:	00.10 S CR 500 N	17. Longitude:	-86.65933

STRUCTURE DATA

43A. Structure Type - Main Span:	2 (CONTINUOUS CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	3
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	0 (NONE)
108C. Protection	1 (EPOXY COATED REINFORCING)		

AGE OF SERVICE

27. Year Built:	2020	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	375 VPD	30. ADT Year Over:	2016
114. Future ADT:	525 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	ft.	49. Structure Length:	ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	ft.	52. Deck Width (O-O)	ft.
32. Approach Roadway Width:	ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500103
Facility Carried: CR 200E

Bridge Number: 75-00140 B
Feature(s) Intersected: ROBBINS DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE SLAB	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
58.01.	Wearing Surface:	Material: CHIP & SEAL (3")	Rating:	8
	VERY GOOD - OPEN JOINT BETWEEN BEAMS 1 AND 2			
59.	Superstructure:	Material: CONCRETE SLAB	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
60.	Substructure:	Material: CONC CAP ON PILES	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
61.	Channel:	Material: NATURAL	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
62.	Culvert/Ret:	Material: #Type!	Rating:	N
	#Type!			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	45	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500103
Facility Carried: CR 200E

Bridge Number: 75-00140 B
Feature(s) Intersected: ROBBINS DITCH

APPRAISAL

67. Structural: N

68. Geometry:

69. Underclearance: N

71. Waterway Adequacy:

36A. Traffic Safety Features (Bridge Railings): 1 (MEETS ACCEPTABLE STANDARDS)

36B. Traffic Safety Features (Transitions): 1 (MEETS ACCEPTABLE STANDARDS)

36C. Traffic Safety Features (Approach Guardrail): 1 (MEETS ACCEPTABLE STANDARDS)

36D. Traffic Safety Features (Approach Guardrail Ends): 1 (MEETS ACCEPTABLE STANDARDS)

72. Roadway Alignment: #Type!

Material: #Type!

Comments: #Type!

113. Scour Critical Bridges: ()

Comments:

PROPOSED IMPROVEMENTS

75A. Type of Work: ()

75B. Work Done By: ()

76. Improvement Length: 0 ft.

94. Bridge Improvement Costs: 0 x 1000

95. Roadway Improvement Costs: 0 x 1000

96. Total Project Cost: 0 x 1000

97. Year of Cost Estimate:

RECOMMENDED MAINTENANCE

NO NEW WORK NEEDED AT THIS TIME

INSPECTION DATA

90. Date: 10/28/2020 91. Des. Inspection Frequency: 24 Months

92. Critical Feature Inspection: A: N B: N C: N

93. Date: A: B: C:

Unofficial Sufficiency Rating:

Unofficial Structural and Functional Classification: ()



LOOKING EAST FROM ROADWAY



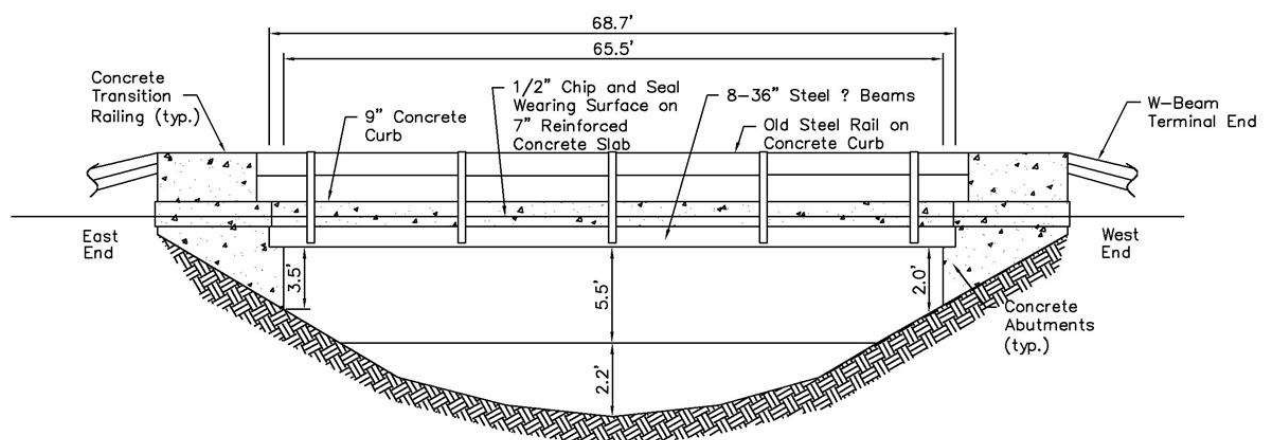
LOOKING WEST FROM ROADWAY



LOOKING SOUTH THROUGH CHANNEL



LOOKING NORTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00146
 OLD US 30 over ROBBINS DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500078
Facility Carried: OLD US 30

Bridge Number: 75-00146
Feature(s) Intersected: ROBBINS DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500078		
5. Inventory Route On:	1-4-1- 30-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	ROBBINS DITCH	11. Mile Point (over):	0
7. Facility Carried:	OLD US 30	16. Latitude:	41.39005
9. Location:	00.50 E OF CR 300 E	17. Longitude:	-86.634865

STRUCTURE DATA

43A. Structure Type - Main Span:	3 (STEEL)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	02 (GIRDER)	45. Number of Spans - Main:	1
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	0 (NONE)		

AGE OF SERVICE

27. Year Built:	1960	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	150 VPD	30. ADT Year Over:	2016
114. Future ADT:	225 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	2 mi.

GEOMETRIC DATA

48. Maximum Span Length:	65.5 ft.	49. Structure Length:	68.6 ft.
50A. Sidewalk/Curb Left:	0.8 ft.	50B. Sidewalk/Curb Right:	0.9 ft.
51. Bridge Roadway Width:	39 ft.	52. Deck Width (O-O)	40.8 ft.
32. Approach Roadway Width:	23 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	30 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	39 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500078
Facility Carried: OLD US 30

Bridge Number: 75-00146
Feature(s) Intersected: ROBBINS DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	6
	SATIS - CRACKS, DELAMINATIONS			
58.01.	Wearing Surface:	Material: CHIP & SEAL (0.5")	Rating:	5
	FAIR - RAVELING			
59.	Superstructure:	Material: STEEL BEAMS	Rating:	7
	GOOD - MINOR SURFACE RUST			
60.	Substructure:	Material: CONC. ABUTMENTS	Rating:	6
	SATIS - FLAKING RUST ON BEARING ASSEMBLIES, SPALLS			
61.	Channel:	Material: NATURAL	Rating:	6
	SATIS - MINOR DRIFT, SILTATION			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	0 (UNKNOWN)	63.	Oper Rating Method:	3 (LOAD RESISTANCE FACTOR (LRFR))
64.	Operating Rating:	43	65.	Inv Rating Method:	3 (LOAD AND RESISTANCE FACTOR (LRFR))
66.	Inventory Rating:	40	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	33 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500078
Facility Carried: OLD US 30

Bridge Number: 75-00146
Feature(s) Intersected: ROBBINS DITCH

APPRAISAL

67.	Structural:	6
68.	Geometry:	9
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL
	Material:	BITUMINOUS
	Comments:	CRACKED, SETTLED
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 97.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING NORTH FROM ROADWAY



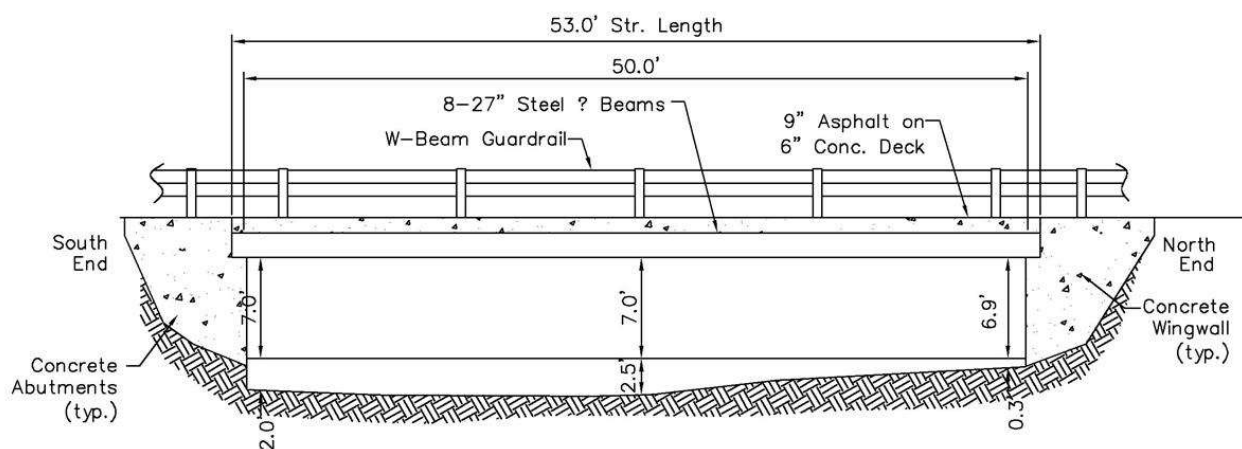
LOOKING SOUTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00151
CR 300E over ROBBINS DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500079
Facility Carried: CR 300E

Bridge Number: 75-00151
Feature(s) Intersected: ROBBINS DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500079		
5. Inventory Route On:	1-4-1- 49-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	ROBBINS DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 300E	16. Latitude:	41.38611
9. Location:	00.30 S CR 600 N	17. Longitude:	-86.640045

STRUCTURE DATA

43A. Structure Type - Main Span:	3 (STEEL)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	02 (GIRDER)	45. Number of Spans - Main:	1
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	0 (NONE)		

AGE OF SERVICE

27. Year Built:	1950	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	525 VPD	30. ADT Year Over:	2016
114. Future ADT:	775 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	50 ft.	49. Structure Length:	53 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	22.6 ft.	52. Deck Width (O-O)	22.8 ft.
32. Approach Roadway Width:	20 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	40 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	22.6 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500079
Facility Carried: CR 300E

Bridge Number: 75-00151
Feature(s) Intersected: ROBBINS DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	5
	FAIR - COPING CRACKS, SPALLS, BROKEN SOUTHWEST CORNER			
58.01.	Wearing Surface:	Material: CHIP & SEAL (9")	Rating:	5
	FAIR - EXCESSIVE, NOT FULL WIDTH			
59.	Superstructure:	Material: STEEL BEAMS	Rating:	6
	SATIS - SURFACE RUST, PITTING, CORROSION ON BEARINGS			
60.	Substructure:	Material: CONC. ABUTMENTS	Rating:	6
	SATIS - MINOR SPALL WITH REINFORCING			
61.	Channel:	Material: NATURAL	Rating:	5
	FAIR - SILT, SEDIMENTATION			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	0 (UNKNOWN)	63.	Oper Rating Method:	1 (LOAD FACTOR (LF))
64.	Operating Rating:	60	65.	Inv Rating Method:	1 (LOAD FACTOR (LF))
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	28 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500079
Facility Carried: CR 300E

Bridge Number: 75-00151
Feature(s) Intersected: ROBBINS DITCH

APPRAISAL

67.	Structural:	6
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, LEVEL
	Material:	CHIP & SEAL
	Comments:	CRACKS, SETTLED
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	FLOW AGAINST BOTH ABUTMENTS

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 83.9
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING NORTH FROM ROADWAY



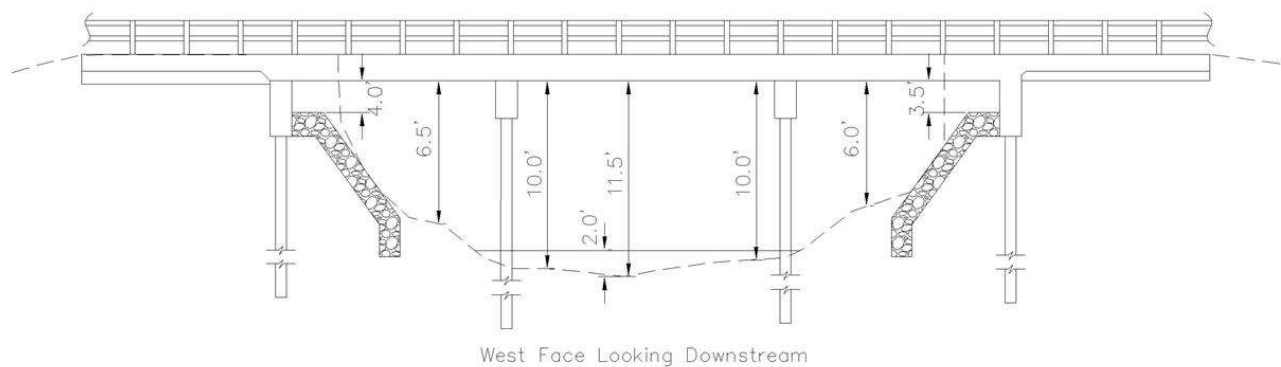
LOOKING SOUTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00154 B CR 100E over ROBBINS DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500102
Facility Carried: CR 100E

Bridge Number: 75-00154 B
Feature(s) Intersected: ROBBINS DITCH

IDENTIFICATION

1.	State:	185 (INDIANA)	4.	City/Town:	00000 ()
8.	NBI Number:	7500102			
5.	Inventory Route On:	1-4-1- 100-0	98.	Border Bridge:	
2.	District:	04 (LAPORTE)	99.	Border Bridge Number:	
3.	County:	075 (STARKE)			
6.	Feat Intersected:	ROBBINS DITCH	11.	Mile Point (over):	0
7.	Facility Carried:	CR 100E	16.	Latitude:	41.36706
9.	Location:	00.40 N OF CR 400 N	17.	Longitude:	-86.67865

STRUCTURE DATA

43A.	Structure Type - Main Span:	1 (CONCRETE)	44.	Structure Type - Approach:	000
43B.	Structure Type - Main Span - Const.	01 (SLAB)	45.	Number of Spans - Main:	3
107.	Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46.	Number of Spans - Approach:	0
108A.	Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B.	Membrane:	0 (NONE)
108C.	Protection	1 (EPOXY COATED REINFORCING)			

AGE OF SERVICE

27.	Year Built:	2019	106.	Reconstructed:	0
42A.	Type of Service Over:	1 (HIGHWAY)	42B.	Type of Service Under:	5 (WATERWAY)
28A.	Lanes on Structure:	2	28B.	Lanes Under Structure:	0
29.	ADT - Over:	175 VPD	30.	ADT Year Over:	2016
114.	Future ADT:	275 VPD	115.	Future ADT Year:	2037
109.	Average Truck Traffic:	5 %Trucks	19.	Bypass Detour Length:	0 mi.

GEOMETRIC DATA

48.	Maximum Span Length:	30 ft.	49.	Structure Length:	80.3 ft.
50A.	Sidewalk/Curb Left:	0.0 ft.	50B.	Sidewalk/Curb Right:	0.0 ft.
51.	Bridge Roadway Width:	28 ft.	52.	Deck Width (O-O)	28 ft.
32.	Approach Roadway Width:	22 ft.	33.	Bridge Median:	0 (NO MEDIAN)
34.	Skew:	27 Degree(s)	35.	Structure Flared:	0 (NO FLARE)
10.	Defense Vertical Clearance:	99.99	53.	Vertical Clearance/Deck:	99.99 ft.
47.	Total Horiz. Clearance:	28 ft.	54A.	Min Vert Clear Code:	N
55A.	Min Latr. Cl. Right - Code:	N	54B.	Underclearance:	0 ft.
55B.	Lateral Right:	0 ft.	56.	Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500102
Facility Carried: CR 100E

Bridge Number: 75-00154 B
Feature(s) Intersected: ROBBINS DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	0 ft.
111.	Pier/Abutment Protection:	1			

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	09 (RURAL - LOCAL)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	9
	EXCELLENT - NO DEFICIENCIES NOTED			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	9
	EXCELLENT - NO DEFICIENCIES NOTED			
59.	Superstructure:	Material: CONCRETE	Rating:	9
	EXCELLENT - NO DEFICIENCIES NOTED			
60.	Substructure:	Material: CONC CAP ON PILES	Rating:	9
	EXCELLENT - NO DEFICIENCIES NOTED			
61.	Channel:	Material: RIPRAP	Rating:	7
	GOOD - MINOR RIPRAP WASHING			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	0 (UNKNOWN)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500102
Facility Carried: CR 100E

Bridge Number: 75-00154 B
Feature(s) Intersected: ROBBINS DITCH

APPRAISAL

67.	Structural:	9
68.	Geometry:	6
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36B.	Traffic Safety Features (Transitions):	1 (MEETS ACCEPTABLE STANDARDS)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - SATISFACTORY, STRAIGHT, BRIDGE SLIGHTLY ABOVE APPROACHES AND DRIVES
	Material:	BITUMINOUS
	Comments:	NEW BRIDGE
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	2019

RECOMMENDED MAINTENANCE

RECOMMEND INSTALLING CURRENT STANDARD BRIDGE RAILING.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 100.0
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING NORTH FROM ROADWAY



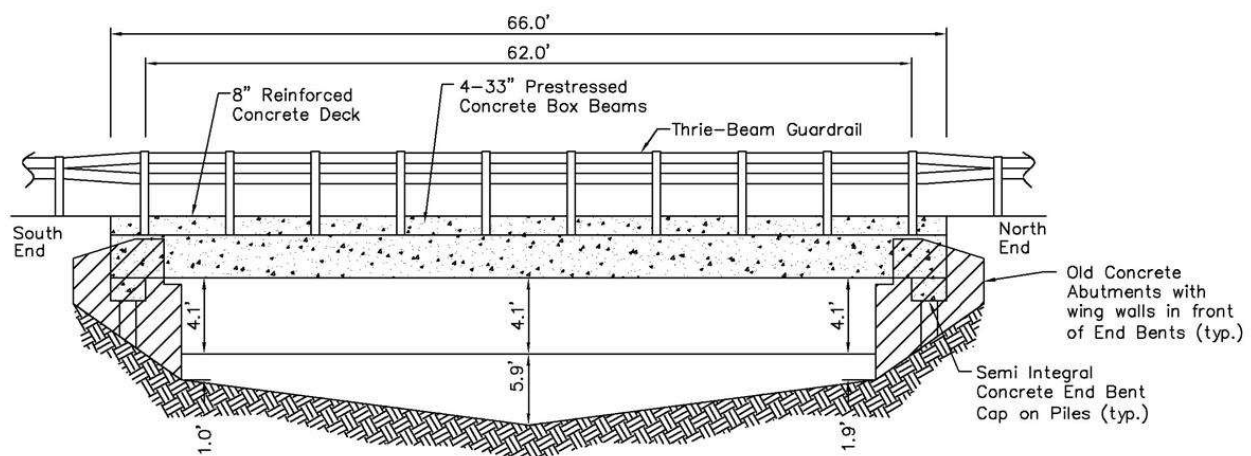
LOOKING SOUTH FROM ROADWAY



LOOKING EAST THROUGH CHANNEL



LOOKING EAST UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00156 B
 RANGE ROAD over ROBBINS DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500087
Facility Carried: RANGE ROAD

Bridge Number: 75-00156 B
Feature(s) Intersected: ROBBINS DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500087		
5. Inventory Route On:	1-4-1- 0-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	ROBBINS DITCH	11. Mile Point (over):	0
7. Facility Carried:	RANGE ROAD	16. Latitude:	41.36299
9. Location:	00.10 N OF CR 400 N	17. Longitude:	-86.69857

STRUCTURE DATA

43A. Structure Type - Main Span:	5 (PRESTRESSED CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	06 (SPREAD BOX BEAM)	45. Number of Spans - Main:	1
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	1 (MONOLITHIC CONCRETE)	108B. Membrane:	N (N/A)
108C. Protection	1 (EPOXY COATED REINFORCING)		

AGE OF SERVICE

27. Year Built:	2012	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	375 VPD	30. ADT Year Over:	2016
114. Future ADT:	525 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	3 mi.

GEOMETRIC DATA

48. Maximum Span Length:	62 ft.	49. Structure Length:	66 ft.
50A. Sidewalk/Curb Left:	0.0 ft.	50B. Sidewalk/Curb Right:	0.0 ft.
51. Bridge Roadway Width:	24.2 ft.	52. Deck Width (O-O)	24.7 ft.
32. Approach Roadway Width:	17 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	0 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	24.2 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500087
Facility Carried: RANGE ROAD

Bridge Number: 75-00156 B
Feature(s) Intersected: ROBBINS DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	7
	GOOD - CRACKS			
58.01.	Wearing Surface:	Material: CONCRETE	Rating:	7
	GOOD - CRACKS, WEAR			
59.	Superstructure:	Material: PRESTR. CONC. BOX BMS	Rating:	8
	VERY GOOD - NO DEFICIENCIES NOTED			
60.	Substructure:	Material: CONC. CAP ON PILES	Rating:	7
	GOOD - NO DEFICIENCIES NOTED, MINOR SPALL WITH EXPOSED STEEL NORTH ABUTMENT			
61.	Channel:	Material: CONC. ABUTMENTS	Rating:	7
	GOOD - NO SCOUR OR EROSION			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	A (HL 93)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500087
Facility Carried: RANGE ROAD

Bridge Number: 75-00156 B
Feature(s) Intersected: ROBBINS DITCH

APPRAISAL

67.	Structural:	7
68.	Geometry:	5
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	1 (MEETS ACCEPTABLE STANDARDS)
36C.	Traffic Safety Features (Approach Guardrail):	1 (MEETS ACCEPTABLE STANDARDS)
36D.	Traffic Safety Features (Approach Guardrail Ends):	1 (MEETS ACCEPTABLE STANDARDS)
72.	Roadway Alignment:	8 - SATISFACTORY, STRAIGHT, DRIVES, BRIDGE SLIGHTLY ABOVE APPROACHES
	Material:	BITUMINOUS
	Comments:	CRACKS
113.	Scour Critical Bridges:	8 (STABLE - EXCELLENT CONDITION)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

NO MAINTENANCE NEEDED.

INSPECTION DATA

90.	Date:	10/28/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 89.9
Unofficial Structural and Functional Classification: 0 (OK)



LOOKING WEST FROM ROADWAY



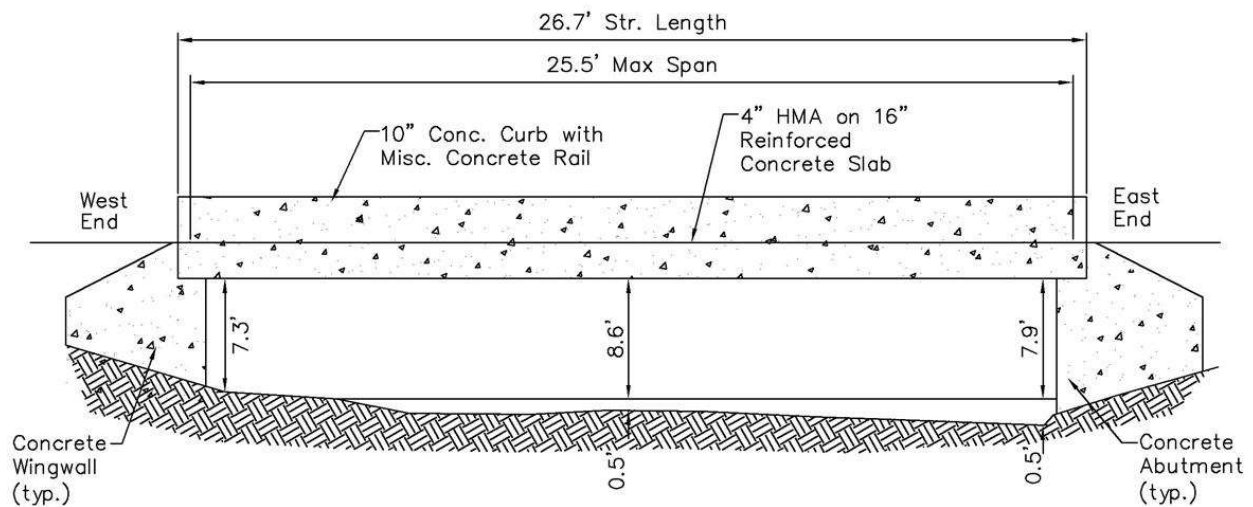
LOOKING EAST FROM ROADWAY



LOOKING SOUTH THROUGH CHANNEL



LOOKING NORTH UPSTREAM



STARKE COUNTY - BRIDGE NO. 75-00157 CR 850S over CASPER DITCH

STRUCTURE INVENTORY AND APPRAISAL REPORT - 1

NBI Number: 7500083
Facility Carried: CR 850S

Bridge Number: 75-00157
Feature(s) Intersected: CASPER DITCH

IDENTIFICATION

1. State:	185 (INDIANA)	4. City/Town:	00000 ()
8. NBI Number:	7500083		
5. Inventory Route On:	1-4-1- 10-0	98. Border Bridge:	
2. District:	04 (LAPORTE)	99. Border Bridge Number:	
3. County:	075 (STARKE)		
6. Feat Intersected:	CASPER DITCH	11. Mile Point (over):	0
7. Facility Carried:	CR 850S	16. Latitude:	41.17991
9. Location:	00.20 E CR 850 E	17. Longitude:	-86.529228

STRUCTURE DATA

43A. Structure Type - Main Span:	1 (CONCRETE)	44. Structure Type - Approach:	000
43B. Structure Type - Main Span - Const.	01 (SLAB)	45. Number of Spans - Main:	1
107. Deck Structure Type:	1 (CONCRETE CAST-IN-PLACE)	46. Number of Spans - Approach:	0000
108A. Wearing Surface:	6 (BITUMINOUS)	108B. Membrane:	0 (NONE)
108C. Protection	0 (NONE)		

AGE OF SERVICE

27. Year Built:	1953	106. Reconstructed:	0
42A. Type of Service Over:	1 (HIGHWAY)	42B. Type of Service Under:	5 (WATERWAY)
28A. Lanes on Structure:	2	28B. Lanes Under Structure:	0
29. ADT - Over:	350 VPD	30. ADT Year Over:	2016
114. Future ADT:	525 VPD	115. Future ADT Year:	2036
109. Average Truck Traffic:	5 %Trucks	19. Bypass Detour Length:	4 mi.

GEOMETRIC DATA

48. Maximum Span Length:	25.5 ft.	49. Structure Length:	26.7 ft.
50A. Sidewalk/Curb Left:	1.0 ft.	50B. Sidewalk/Curb Right:	1.0 ft.
51. Bridge Roadway Width:	22.2 ft.	52. Deck Width (O-O)	26.2 ft.
32. Approach Roadway Width:	18 ft.	33. Bridge Median:	0 (NO MEDIAN)
34. Skew:	20 Degree(s)	35. Structure Flared:	0 (NO FLARE)
10. Defense Vertical Clearance:	99.99	53. Vertical Clearance/Deck:	99.99 ft.
47. Total Horiz. Clearance:	22.2 ft.	54A. Min Vert Clear Code:	N
55A. Min Latr. Cl. Right - Code:	N	54B. Underclearance:	0 ft.
55B. Lateral Right:	0 ft.	56. Lateral Left:	0 ft.

STRUCTURE INVENTORY AND APPRAISAL REPORT - 2

NBI Number: 7500083
Facility Carried: CR 850S

Bridge Number: 75-00157
Feature(s) Intersected: CASPER DITCH

NAVIGATION

38.	Navigational Control:	0	40.	Navigational Horizontal Clearance:	0 ft.
39.	Navigational Vertical Clearance:	0 ft.	116.	Vertical Clearance - Lift Bridge:	ft.
111.	Pier/Abutment Protection:				

CLASSIFICATION

112.	NBIS Bridge Length:	Y	12.	Base Highway Network:	0
104.	Highway System - Over:	0 (NOT ON NHS)	13A.	LRS Inventory Route:	
26.	Func. Class - Over:	08 (RURAL - MINOR COLLECTOR)	13B.	LRS Inventory Subroute:	
100.	Defense Highway Des:	0	101.	Parallel Structure Des:	N
102.	Direction of Traffic:	2 (2-WAY TRAFFIC)	103.	Temporary Structure Des:	
110.	Des. Nat. Network:	0	20.	Toll:	3 (ON FREE ROAD-NO TOLL)
21.	Maint. Responsibility:	02 (COUNTY HIGHWAY AGENCY)	22.	Owner:	02 (COUNTY HIGHWAY AGENCY)
37.	Historical Significance:	5 (NOT ELIGIBLE)			

CONDITION

58.	Deck:	Material: CONCRETE	Rating:	6
	SATIS - CRACKS ON BOTTOM OF SLAB			
58.01.	Wearing Surface:	Material: CHIP & SEAL (4")	Rating:	5
	FAIR - CRACKED, RAVELING			
59.	Superstructure:	Material: CONCRETE SLAB	Rating:	6
	SATIS - EFFLORESCENCE AT CONSTRUCTION JOINT			
60.	Substructure:	Material: CONC. ABUTMENTS	Rating:	6
	SATIS - ABRASION DAMAGE ON ABUTMENT 2			
61.	Channel:	Material: NATURAL	Rating:	6
	SATIS - CHANNEL FLOWS AT AND ALONG ABUTMENT 2			
62.	Culvert/Ret:	Material: N/A	Rating:	N
	N/A			

LOAD RATING AND POSTING

31.	Design Load:	5 (HS 20)	63.	Oper Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
64.	Operating Rating:	36	65.	Inv Rating Method:	0 (FIELD EVAL AND ENG JUDGEMENT)
66.	Inventory Rating:	36	66C.	Tons Posted:	Tons
66B.	Gross Tons or H Rating:	20 Tons	66D.	Date Posted/Closed:	
41.	Open, Posted, or Closed:	A (OPEN)	70.	Bridge Posting:	5 (EQUAL TO OR ABOVE LEGAL LOADS)

STRUCTURE INVENTORY AND APPRAISAL REPORT - 3

NBI Number: 7500083
Facility Carried: CR 850S

Bridge Number: 75-00157
Feature(s) Intersected: CASPER DITCH

APPRAISAL

67.	Structural:	6
68.	Geometry:	4
69.	Underclearance:	N
71.	Waterway Adequacy:	8
36A.	Traffic Safety Features (Bridge Railings):	1 (MEETS ACCEPTABLE STANDARDS)
36B.	Traffic Safety Features (Transitions):	1 (MEETS ACCEPTABLE STANDARDS)
36C.	Traffic Safety Features (Approach Guardrail):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
36D.	Traffic Safety Features (Approach Guardrail Ends):	0 (DOES NOT MEET ACCEPTABLE STANDARDS/SAFETY FEATURE IS REQUIRED)
72.	Roadway Alignment:	8 - VERY GOOD, STRAIGHT, NARROW, RISE EAST
	Material:	CHIP & SEAL
	Comments:	CRACKS, SETTLEMENT
113.	Scour Critical Bridges:	5 (STABLE - WITHIN LIMITS)
	Comments:	

PROPOSED IMPROVEMENTS

75A.	Type of Work:	(NO MAJOR WORK NEEDED.)
75B.	Work Done By:	()
76.	Improvement Length:	0 ft.
94.	Bridge Improvement Costs:	0 x 1000
95.	Roadway Improvement Costs:	0 x 1000
96.	Total Project Cost:	0 x 1000
97.	Year of Cost Estimate:	

RECOMMENDED MAINTENANCE

PLACING RIPRAP ALONG BOTH ABUTMENT FACES, AND INSTALLING CURRENT STANDARD BRIDGE AND APPROACH RAILING WITH MISSING SOUTHEAST BRIDGE END MARKER.

INSPECTION DATA

90.	Date:	10/5/2020	91.	Des. Inspection Frequency:	24 Months
92.	Critical Feature Inspection:	A: N	B: N	C: N	
93.	Date:	A:	B:	C:	

Unofficial Sufficiency Rating: 83.4
Unofficial Structural and Functional Classification: 0 (OK)

***APPENDIX A
DESCRIPTION OF
ITEMS AND
GLOSSARY***

**DESCRIPTION OF ITEMS
STRUCTURE INVENTORY AND APPRAISAL SHEET**

1. **State:** "Indiana" (185) for all bridges.
2. **Hwy. District:** INDOT* highway district number in which the bridge is located.
3. **County:** County code and name.
4. **City/Town:** City and town code and name are listed. Bridges are listed as being in an urban area rather than within actual corporation limits. This item is coded all "zeros" for bridges in rural locations.
5. **Inventory Route:** This is the road inventory route number used by Indiana LTAP** and INDOT.
6. **Features Intersected:** This is the stream, road, railroad and/or other features under the bridge.
7. **Facility Carried:** This is the name of the local road as named by the county.
8. **NBI Number:** This is the bridge number which, in general, follows Indiana LTAP bridge numbering system.
9. **Location:** The location of the bridge using local road designations, county lines, other locally recognized features, or map boundary location codes.
10. **Defense Vert. Clear:** This is the minimum vertical clearance for a 10-foot width of the pavement or traveled part of the inventory route roadway where the clearance is the greatest. A code of 9999 means unlimited.
11. **Milepoint:** Zeroes for all bridges.
16. **Latitude:** The latitude found on USGS/ESRI maps.
17. **Longitude:** The longitude found on USGS/ESRI maps.
19. **Bypass Length:** This is the total additional travel, to the nearest mile, for a vehicle which would result from closing of the bridge.
20. **Toll:** All of the bridges under county jurisdiction are toll free and carry a toll free highway. This item is "On Free Road" (30 for all of these bridges).
21. **Maintenance Responsibility:** County for most or all bridges.
22. **Owner:** County for most or all bridges.

* the Indiana Department of Transportation

** formerly Highway Extension and Research Project for Indiana Counties & Cities (HERPICC)

26. **Functional Classification:** Functional classification of the road over the bridge as determined by information from INDOT.

<u>Code</u>	<u>Description</u>
01	Principal Arterial – Interstate - Rural
02	Principal Arterial – Other
06	Minor Arterial – Rural
07	Major Collector – Rural
08	Minor Collector – rural
09	Local – Rural
11	Principal Arterial – Interstate – Urban
12	Principal Arterial – Other Freeways or Expressways
14	Other Principal Arterial – Urban
16	Minor Arterial – Urban
17	Collector – Urban
19	Local - Urban

27. **Year Built:** Year (or approximate year) the bridge was built.
28. **Lanes on Str.:** Lanes of highway traffic carried on the structure and lanes of highway traffic under the bridge.
29. **ADT:** Current average daily traffic count on bridge to the nearest ten vehicles. These were estimated where recent counts were not available.
30. **Year of ADT:** Year traffic count was taken or estimated.
31. **Design Load:** The live load which the bridge was originally designed to carry. Except for recent bridges where construction plans are available, this value is unknown.
32. **Approach Roadway Width/Shldr.:** Shoulder-to-shoulder width of the approach roadway.
33. **Bridge Median:** Describes the median on a bridge, whether none, open or closed.
34. **Skew:** The angle of bridge skew to the nearest degree.
35. **Structure Flared:** Describes whether or not the bridge varies in width. Minor flares such as flared wings are ignored. "Yes" (1) or "No" (0).
- 36A. **Traffic Safety Features:** 4 digits telling whether the bridge railing, transitions, approach guardrail, and approach guardrail terminal ends "meet" (1) or "do not meet" (0) currently acceptable standards.
37. **Historical Significance:** This item indicates that a bridge may be a particularly unique example of the history of engineering; the crossing itself might be significant; the bridge may be associated with a historical property or area; or the bridge may be associated with significant events or circumstances. One of the following 1-digit codes is used as applicable:

<u>Code</u>	<u>Description</u>
1	Bridge is on the National Register of Historic Places.
2	Bridge is eligible for the National Register of Historic Places.
3	Bridge is possibly eligible for the National Register of Historic Places or bridge is on a State or Local historic register. (Requires further investigation before determination can be made.)
4	Historical significance is not determinable at this time.
5	Bridge is not eligible for the National Register of Historic Places.

38. **Navigation Control:** Describes whether or not navigation control exists on navigable streams. "Yes" (1) or "No" (0).
39. **Navigation Vertical Clearance:** Minimum navigation vertical clearance in feet as shown on the navigation permit issued by the controlling agency, for Item 38 coded "Yes" (1). Otherwise, code all "zeros" (N.A.; not applicable).
40. **Navigation Horizontal Clearance:** Minimum navigation horizontal clearance in feet as shown on the navigation permit issued by the controlling agency, for Item 38 coded "Yes" (1). Otherwise, code all "zeros" (N.A.; not applicable).
41. **Open, Posted or Closed:** This item indicates the operational status of the bridge: "K" = closed to all traffic, "P" = open to traffic with load posted, "A" = open to traffic without load posted, "B" = open; posting recommended, "G" = new bridge; not yet open.
42. **Type Service:** Describes the function of the bridge. This is usually highway or highway-pedestrian.
43. **Structure Type-Main:** The structural type of bridge for the main spans of the bridge.
44. **Structure Type-Approach:** The structural type for the approach spans, if they are a different material or construction type than the main spans.
45. **Number of Spans-Main:** The number of spans in the main units of the bridge.
46. **Number of Spans-Approach:** The number of spans in the approach units of the bridge.
47. **Total Horizontal Clearance:** The distance to the nearest tenth of a foot between the most restrictive features limiting the roadway. Where no such features existed, the deck width was used. When two clearances are recorded after this item, the second clearance is the distance between the most restrictive features limiting the use of the highway or railroad under the bridge. This is recorded only when the bridge is over a highway or railroad.
48. **Maximum Span Length:** The length to the nearest tenth of a foot of the longest span.
49. **Structure Length:** The total length of bridge from backwall to backwall to the nearest foot.
50. **Sidewalk/Curb Width: (Left) (Right):** The width of sidewalks on the bridge to the nearest tenth of a foot. Narrow curbs (less than 2'-0") are not considered sidewalks, but are still reported.

51. **Bridge Roadway Width (Curb-Curb):** The distance between curbs on the bridge to the nearest tenth of a foot. Where curbs do not exist, the distance between parapets, railings or guardrails is used.
52. **Deck Width (Out-Out):** The total width of the bridge roadway to the nearest tenth of a foot.
53. **Vert. Clear over Deck:** The minimum vertical clearance over the bridge roadway to the nearest inch. A code of 9999 means unlimited vertical clearance.
54. **Vertical Underclearance:** The minimum vertical clearance beneath the structure measured from the roadway or railroad track to the underside of the superstructure, in feet and inches. Coded all "zeros" (N.A.; not applicable) for structures over any other feature.
55. **Lateral Underclearance Right:** The minimum lateral under-clearance to the nearest tenth of a foot on the right for roads and railroads under a bridge measured from the edge of roadway or centerline of railroad track to the nearest substructure unit. Right is with respect to the direction of travel.
56. **Lateral Underclearance Left:** The minimum lateral underclearance to the nearest tenth of a foot on the left for one-way roads under a bridge measured from the edge of roadway to the nearest substructure unit. Left is with respect to the direction of travel.
58. **Deck:** Describes the material and condition of the bridge floor, expansion joints, curbs, railings, deck drains and other associated items.
- 58.01. **Wearing Surface:** Describes the material and condition of the wearing surface.
59. **Superstructure:** Describes the material and condition of the deck supporting members, their connections and bearings.
60. **Substructure:** Describes the material and condition of the superstructure supporting elements such as abutments, piers, bents, piles and others.
61. **Channel & Channel Protection:** Describes the channel, its protections and any problems associated with the channel.
62. **Culvert & Retaining Wall:** Describes primarily bridge wingwalls, retaining walls and culverts associated with the bridge. Lists material, condition and erosion problems.
64. **Operating Rating:** Operating rating is the maximum live load that can be occasionally carried by a bridge. See Item 66, Inventory Rating.
66. **Inventory Rating:** Inventory rating is the maximum live load that can safely utilize an existing structure for an indefinite period of time. The range of loading above the inventory rating up to the operating rating should be allowed only by written permit from the County.
67. **Structural Condition:** Describes major structural deficiencies.
68. **Deck Geometry:** Describes deficiencies in deck width.
69. **Underclearance:** Describes deficiencies in the vertical and lateral underclearances of a roadway or railroad under the bridge.

70. **Bridge Posting:** Describes the load capacity, relative to the legal load allowed, to show when posting is required.
71. **Waterway Adequacy:** Describes deficiencies in the waterway, the bridge opening and slope protection at the bridge. The waterway opening under the bridge was judged to be adequate or inadequate from drift and other signs and without a hydraulic analysis.
72. **Approach Roadway Alignment:** Describes the deficiencies of the approach alignment, pavement width, shoulder width, signs, delineators, sight distances and other features relating to safety.
75. **Type of Work:** Describes the type of work recommended as repair, widening, replacement or construction of a new bridge at the same or another location or for a new type of service.

<u>Code</u>	<u>Description</u>
31	Replacement – Load/Geometry
32	Replacement – Relocation
33	Widening – No Deck Rehab.
34	Widening – With Deck Rehab.
35	Rehabilitation – Deterioration
36	Deck Rehabilitation – Some Widening
37	Deck Replacement – Some Widening
38	Other Structural Work
01	Contract
02	Local Forces

76. **Improvement Length:** The length of the proposed improvement.
90. **Inspection Date:** The date the structure was inspected.
91. **Designated Inspection Frequency:** The designated inspection interval, in months, for each bridge in the inventory. Bridges will require special non-scheduled inspections after unusual physical traumas.
92. **Critical Feature Inspection:** Critical features, which need special inspections or special emphasis during inspections, are identified, along with the designated inspection interval as follows:

<u>Code</u>	<u>Description</u>
92A	Fracture Critical Details
92B	Underwater Inspection
92C	Other Special Inspection

93. **Critical Feature Inspection Date:** The date of last inspection of the critical feature(s) identified in Item 92.
94. **Bridge Improvement Cost:** Only bridge construction costs are included. No bridge maintenance costs are included.

95. **Roadway Improvement Cost:** Only roadway construction costs are included. No roadway maintenance costs are included.
96. **Total Project Cost:** All costs normally associated with the proposed bridge improvement project, including right-of-way, detour, preliminary engineering, construction inspection and other incidental costs are included. No maintenance costs are included.
97. **Year of Improvement Cost Estimate:** The base year of the improvement costs provided in Items 94 through 96, with cost data provided to be no more than 8 years old.
98. **Border Bridge:** Indicates if a bridge is located on a borderline between two neighboring states. Many states split maintenance responsibilities and costs for any replacement or rehabilitation work.
99. **Border Bridge Structure Number:** Indicates the neighboring state's NBI structure number, for a structure noted in Item 98.
100. **Defense Highway Designation:** Identifies a bridge on the designated defense highway network, including minor off-system roads. None exist in this county, since only State bridges are presently on defense highways.
101. **Parallel Structure Designation:** Indicates situations where separate structures carry the inventory route in opposite directions of travel over the same feature.
102. **Direction of Traffic:** Provides information as follows:

<u>Code</u>	<u>Description</u>
0	Highway traffic not carried
1	1-way traffic
2	2-way traffic
3	One-lane bridge for 2-way traffic

103. **Temporary Structure Designation:** Identifies temporary structure(s) or conditions, which are required to facilitate traffic flow.
104. **Highway System:** Indicates the highway system for the inventory route, identified in Item 5, as follows:

<u>Code</u>	<u>Description</u>
0	Non NHS (National Highway System)
1	NHS

106. **Year Reconstructed:** Indicates the year of reconstruction or rehabilitation of the structure, where applicable.

For a bridge to be defined as reconstructed, the type of work performed, whether or not it meets current minimum standards, must have been eligible for funding under any of the Federal-aid funding categories. The eligibility criteria would apply to the work performed regardless of whether all state or local funds or Federal-aid funds were used.

107. **Deck Structure Type:** Describes the type of deck system on the bridge. If more than one type of deck system is on the bridge, the most predominant is indicated.

108. **Wearing Surface/Protective System:** Indicates information on the wearing surface and protective system of the bridge deck, as follows:

<u>Code</u>	<u>Description</u>
108A	Type of Wearing Surface
108B	Type of Membrane
108C	Deck Protection

109. **Average Daily Truck Traffic:** Indicates the percentage of Item 29 - Average Daily Traffic that is truck traffic, not including vans, pickup trucks and other light delivery trucks.

*The percentage of truck traffic is only recorded when Item 29 - Average Daily Traffic is greater than 100 vehicles.

110. **Designated National Network:** Indicates any roads on the designated national network for trucks identified in the code of Federal Regulations (23 CFR 658). No county roads are so designated.

111. **Pier or Abutment Protection (for Navigation):** Applies only to bridges over navigable channels (See Item 38 - Navigation Control).

112. **NBIS Bridge Length:** Indicates a bridge that meets or exceeds the minimum length (more than 20 feet) specified to be designated as a bridge for National Bridge Inspection Standards purposes.

113. **Scour Critical Bridges:** Identifies the current status of the bridge regarding its vulnerability to scour, as follows:

N = The bridge is not over a waterway and the scour rating is thus not applicable.

9= Bridge foundations, including piles, are on dry land well above flood elevations.

8= Bridge foundations are determined to be stable because scour is above top of footing by qualitative assessment, by quantitative assessment (calculation), or by virtue of properly designed countermeasures.

7= Countermeasures have been installed to mitigate an existing scour problem, or a plan of action has been implemented to reduce risk to the public that might result from a bridge failure during or immediately after a flood event.

6= No scour evaluation has yet been made; this should not be the case for most bridges, but might occur with the jurisdictional transfer of an old bridge or due to other unusual circumstances.

5= Bridge foundations are determined to be stable because scour is within the limits of footing or piles by qualitative assessment, by quantitative assessment (calculation), or by virtue of properly designed countermeasures.

4= Bridge foundations were determined to be stable by qualitative assessment or quantitative assessment (calculation), but field review indicates action is required to protect exposed foundations.

- 3= Bridge foundations are determined to be unstable because qualitative assessment or quantitative assessment (calculation) indicates scour is within limits of footing or piles, or assessment indicates scour is below spread footing base or pile tips.
- 2= Field review indicates extensive scour has occurred; bridge foundations are unstable because observed scour is below calculated acceptable limits, or because of observed scour conditions reported in item 60 (thus affecting substructure stability).
- 1= Bridge is closed to traffic; field review indicates failure of piers or abutments is imminent because observed scour is below calculated acceptable limits, or because of observed scour conditions reported in item 60 (thus affecting substructure stability).
- 0= Bridge has failed and is closed to traffic.
- U= Bridge foundations are unknown and not yet evaluated for scour; POA is required.
114. **Future Average Daily Traffic:** Indicates the forecasted average daily traffic (ADT) for the inventory route identified in Item 5. This has been projected at least 17 years but no more than 22 years from the year data was submitted to the NBI, to provide a basis for a 20-year forecast. Where planning data was not available, the best estimate based on site familiarity was used.
115. **Year of Future Average Daily Traffic:** Indicates the year represented by the future ADT in Item 114. The projected year of future ADT is at least 17 years but no more than 22 years from the year data was submitted to the NBI.
116. **Minimum Navigation Vertical Clearance**
Vertical Lift Bridge: Record to the nearest foot (rounding down) the minimum vertical clearance (in the dropped or closed position) imposed at the site as measured above a datum that is specified on a navigation permit issued by a control agency.

Items 58 through 62 and Item 65 are given a numerical "CONDITION" rating as follows:

<u>Rating</u>	<u>Description</u>
N	Not Applicable.
9	New Condition.
8	Very Good Condition: No repairs needed.
7	Good Condition: Some minor problems.
6	Satisfactory Condition: Potential exists for "major maintenance" with major items in need of repair by maintenance forces.
5	Fair Condition: Potential exists for "minor rehabilitation" with major repair by contract needed.

4	Poor Condition: Potential exists for "major rehabilitation" with minimum adequacy to tolerate present traffic; immediate rehabilitation necessary to keep open.
3	Serious Condition: Repair or rehabilitation required immediately with inadequacy to tolerate present heavy load; "warrants closing bridge to trucks."
2	Critical Condition: The need for repair or rehabilitation is urgent. The facility should be closed until the indicated repair is complete with inadequacy to tolerate any live load; "warrants closing bridge to all traffic."
1	Imminent Failure Condition: The "facility is closed." Study should determine the feasibility of the bridge being repairable, if desirable to reopen to traffic.
0	Failed Condition: The "facility is closed" and the bridge conditions are beyond repair; "danger of immediate collapse."

Items 67 through 72 are given a numerical "APPRAISAL" rating as follows:

<u>Rating</u>	<u>Description</u>
N	Not Applicable.
9	Superior to present desirable criteria.
8	Equal to present desirable criteria.
7	Better than present minimum criteria.
6	Equal to present minimum criteria.
5	Somewhat better than minimum adequacy to tolerate being left in place as is.
4	Meets minimum tolerable limits to be left in place as is.
3	Basically intolerable condition requiring high priority of repair.
2	Basically intolerable condition requiring high priority of replacement.
0	Closed, immediate replacement necessary to put back in service.

APPENDIX B
SUPPLEMENTAL
PHOTOS



TYPICAL CRACKING AT COPINGS



OPEN JOINTS AND FAILED FILL



WEARING SURFACE POPOUTS



P-1 CAP SPALLING AND EXPOSED STEEL



SPAN 1 BEAM SPALL



B-1 SPAN 2 2 SEVERED STRANDS



B-6 SPAN 2 2 EXPOSED STRANDS

STARKE COUNTY - BRIDGE NO. 75-00007
CR 1200 EAST over YELLOW RIVER



CRACK IN EAST COPING



WEARING SURFACE CRACKING



EXPOSED PILES TYPICAL



CRACKING WITH EFFLORESCENCE IN DECK



CRACK IN NORTH ABUTMENT



NORTHWEST ABUTMENT CAP SPLIT



SOUTHEAST ABUTMENT CAP SPLIT



EFFLORESCENCE AT ABUTMENTS



BROKEN SPREADER AND RETROFIT SPAN 1



STEEL RETROFIT



PIPE PILE MID SPAN



SAG IN WEST SIDE OF PIPE



BROKEN CURB



EFFLORESCENCE ON BEAMS



SPALLING AND EXPOSED STEEL ALL PILES



CRACKING WITH EFFLORESCENCE ON COPINGS



SPALL WITH EXPOSED REINFORCING SPAN #3



EFFLORESCENCE AT OUTSIDE SECTIONS OF DECK



EFFLORESCENCE AT COPINGS, SPALL N. PIER #3



EFFLORESCENCE ON DECK



SPALLING AT SOUTH COPING RAILING CONNECTIONS



SPALLING AT SOUTH COPING RAILING CONNECTIONS



TYP. SPALLING WITH EXPOSED REIN. ALL BEAMS



TYP. SPALLING WITH EXPOSED REIN. ALL BEAMS



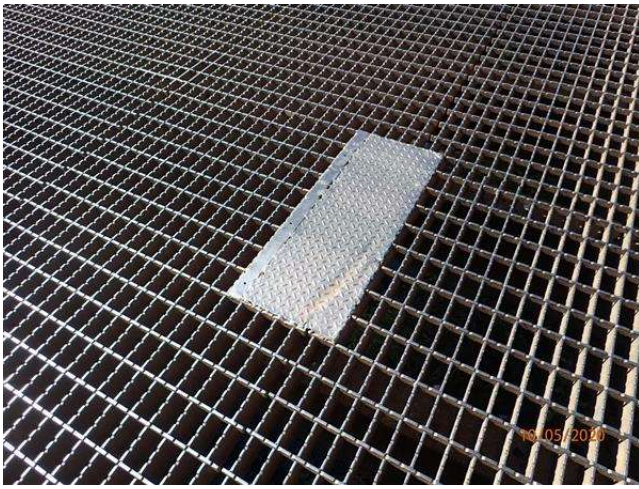
LONGITUDINAL CRACK IN TOP OF DECK



LONGITUDINAL CRACK IN BOTTOM OF DECK



CRACKS WITH EFFLORESCENCE ON WEST ABUTMENT



DECK PLATE PATCHING



BEAVER DAM UNDER BRIDGE



BEAVER DAM UNDER BRIDGE



PILE #4 AT NORTH ABUTMENT WITH 25% SECTION LOSS



NORTH ABUTMENT WALL SEPARATING



HOLE IN WEARING SURFACE POSSIBLY INTO BOX



SEEPAGE AND EFFLORESCENCE IN SUPERSTRUCTURE



EXPOSED STRANDS BEAM 4



WEARING ON TOP OF DECK



BEAVER DAM UNDER BRIDGE



EROSION NORTH ABUTMENT



CRACKS AND EFFLORESCENCE IN DECK



SPALLING AT CONTINUITY DIAPHRAGM



NORTHEAST WING DAMAGE



POPOUT MID DECK



TYPICAL SUPERSTRUCTURE AND PIER



SCOUR PIER 3



SPALLING WEST COPING



CORRODED BEARING



BROKEN DECK SOUTHWEST CORNER



CORRODED BEARING TYPICAL



SPALL AND EXPOSED STEEL NORTH ABUTMENT



EFFLORESCENCE ON BOTTOM OF DECK

APPENDIX C MASTER LIST AND ADDITIONAL INFORMATION

- In-Depth Inspection List***
- Special Feature Report***
- Scour Plans of Action***

MASTER LIST - LIST OF BRIDGES REQUIRING IN-DEPTH INSPECTIONS

Bridge No.	Fracture Critical / Non- Redundant Inspection	Underwater Inspection	Special Inspection
75-00059	N	N	Y12
75-00137	N	Y24	N

Total Bridges Requiring In-Depth Inspection: 2

STARKE COUNTY

SPECIAL FEATURE INSPECTION REPORT

STARKE COUNTY BRIDGE NUMBER 59 COUNTY ROAD 700 SOUTH OVER BOGUS RUN **PHASE II**



8440 ALLISON POINT BLVD.
INDIANAPOLIS, INDIANA 46250
PHONE: 317-895-2585
FAX: 317-895-2596 WEB: WWW.UCINDY.COM

SPECIAL FEATURE INSPECTION REPORT

STARKE COUNTY BRIDGE NUMBER 59
COUNTY ROAD 700 SOUTH OVER BOGUS RUN

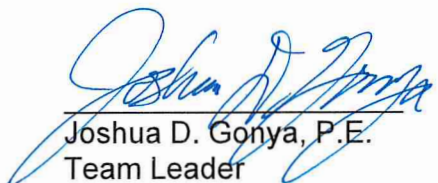
N.B.I. NUMBER- 7500038

PREPARED FOR: STARKE COUNTY COMMISSIONERS

PREPARED BY:



Certified:


Joshua D. Gonya, P.E.
Team Leader
IN000600-2026-ATL-F-LRE



County Highway Superintendent: Stephen Ritzler

Prepared By:

Blayne Risk

SPECIAL FEATURE INSPECTION REPORT

STARKE COUNTY BRIDGE NUMBER 59
COUNTY ROAD 700 SOUTH OVER BOGUS RUN
N.B.I. NUMBER - 7500038
ROUTINE INSPECTION DATE: October 5, 2020
SPECIAL FEATURE INSPECTION DATE: October 5, 2020

I. LOCATION AND DESCRIPTION

Bridge No. 59 carries County Road 700 South over Bogus Run, 0.20 miles east of County Road 200 West. The bridge is located at latitude 41° 12' 3.2" north and longitude 86° 43' 54.4" west. See appendix A for location map. The bridge is a single-span, aluminum arch culvert, with a structure length of 28.4 feet and a maximum span of 24.5 feet. The structure has a clear roadway of 22.2 feet and the average daily traffic was listed as 100 vehicles per day in 2017. The structure was built in 2005.

II. PURPOSE AND SCOPE

The purpose of this inspection was to monitor the settlement of the structure. This report includes a description of the structure, inspection procedures used, summary of the findings, an evaluation of the findings, and any recommendations based on these findings.

III. FIELD INVESTIGATION

The special feature inspection consisted of measuring the height of two bolts from a given benchmark in order to determine the amount of settlement that has occurred since the previous inspection. There has been no additional movement since the previous inspection on September 5, 2019.

IV. INSPECTION PLAN

A. REQUIRED EQUIPMENT

- Hard Hat
- Safety Glasses
- Plumb Bob
- Level
- Camera
- Survey Equipment
- Tape Measure

B. ACCESS LOCATIONS

- Parking is available along the side of the road at each corner of the structure.

C. MAINTENANCE OF TRAFFIC

- Due to low traffic volume, no maintenance of traffic was required during the time of inspection.

D. PLAN OF ACTION

- Two bolts were previously marked with paint to be used for measurements. The height of both the east and west bolts were measured with respect to the given benchmark, a railroad spike which was driven into a utility pole located northeast of the structure.

V. EXISTING CONDITIONS

At the time of the inspection, the weather was 60 degrees and clear. The bridge is in overall poor condition. There are large spalls, heavy scaling, wide cracks and the southeast corner has settled 2 feet.

VI. SUMMARY OF RECOMMENDATIONS

Recommend replacement due to settlement and displacement.

VII. NBIS CODED INFORMATION

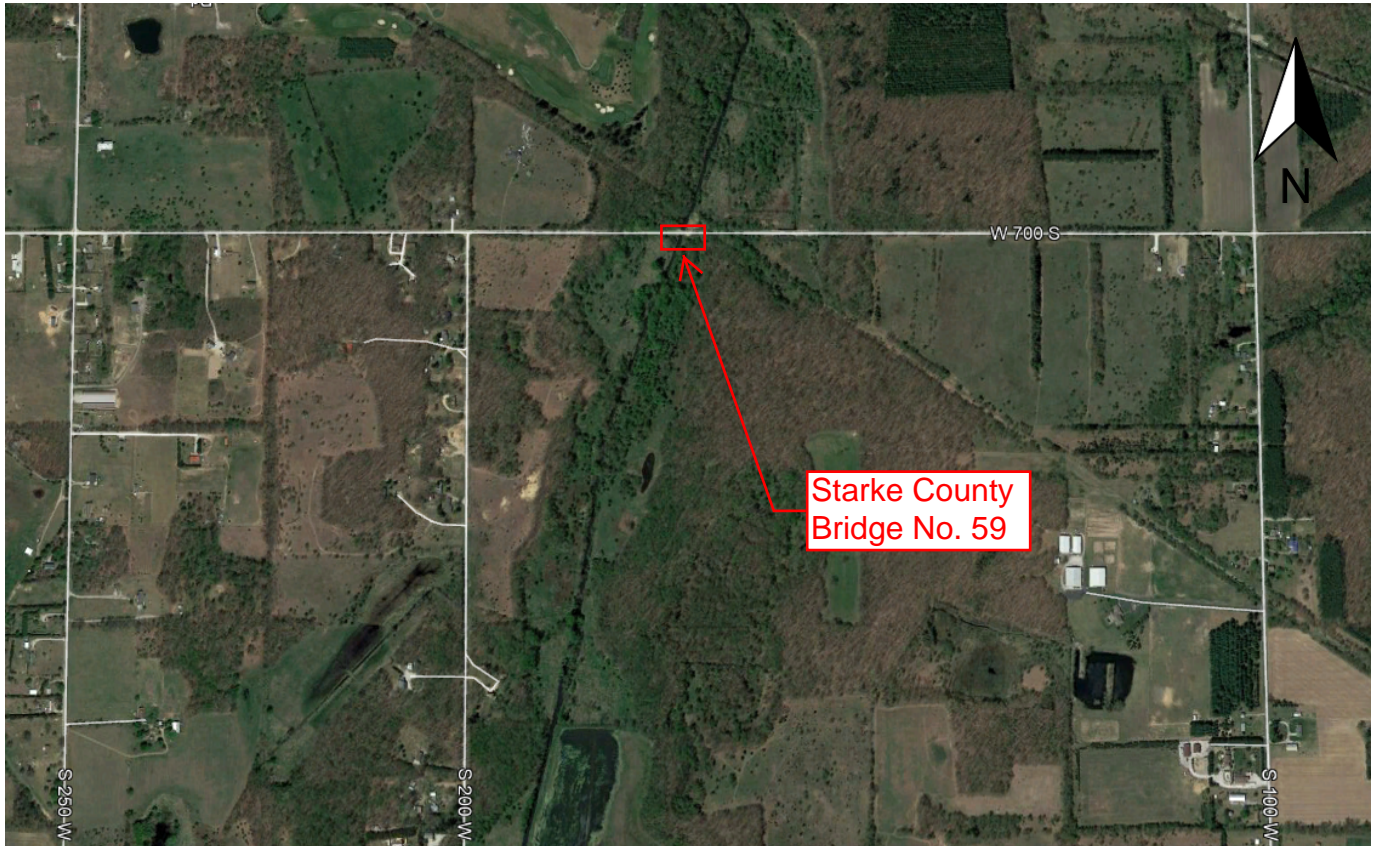
ITEM	CODE	DESCRIPTION
92C: Special Inspection	Y 12	Special Inspection every 12 months
93C: Special Inspection Date	10/05/2020	October 5, 2020

APPENDIX A

FIGURES

FIELD NOTES

Starke County Bridge Number 59



LOCATION MAP

Starke County Bridge No. 59

County Road 700 South over Bogus Run

Starke County Bridge #59

Date	East Bolt Height (ft)	East Bolt Total Settlement (ft)	West Bolt Height (ft)	West Bolt Total Settlement (ft)
Mar-12	8.08	-	6.15	-
May-15	8.14	0.06	6.13	-0.02
Sep-16	8.96	0.88	6.78	0.63
Oct-18	8.97	0.89	6.9	0.75
Oct-19	8.97	0.89	6.9	0.75
Oct-20	8.97	0.89	6.9	0.75

SCOUR AND FOUNDATION EVALUATION FORM

NBI Number: **7500005**
 Facility Carried: **CR 1200 E**

Bridge Number: **75-00007**
 Feature(s) Intersected: **Yellow River**

Date of Last Review or Update: **10/22/2020**

(113A) NBI Scour Evaluation: **5**

Foundation Data	Code	Comments
-----------------	------	----------

Abutment Foundation Type	O	
--------------------------	---	--

Int. Pier Foundation Type	U	
---------------------------	---	--

Soils Information	SOILS INFORMATION IS UNKNOWN. NO PLANS AVAILABLE.	
-------------------	---	--

Design Plans:	NO PLANS AVAILABLE.	
---------------	---------------------	--

Scour Monitoring Data

Is Bridge on a District Monitoring Program?

NO

Reason for Monitoring

BRIDGE IS CONSIDERED MODERATE RISK BECAUSE OF YELLOW RIVER

Who Monitors the Bridge?

STARKE COUNTY

Long Term Scour Solution

DESIGN SCOUR COUNTERMEASURES SHOULD BE DEVELOPED TO REPAIR ANY SCOUR PROBLEMS.

Streambed Material

GRANULAR SOFT SOIL

Stream Alignment

GOOD - NO MAJOR DEFECTS

Scour Countermeasures

RIPRAP

Bank Erosion

BANK EROSION AT END BENT CAPS

Other Scour Related Findings

N/A

SCOUR AND FOUNDATION EVALUATION FORM			
NBI Number: 7500005		Bridge Number: 75-00007	
Facility Carried CR 1200 E		Feature(s) Intersected: Yellow River	
1. Triggering Event: List the events for when to monitor			
Q100 STORM EVENT PER NOAA: 3.0 INCHES OF RAIN IN THE WATERSHED WITHIN 1 HOUR OR 6.32 INCHES OF RAIN WITHIN 24 HOURS.			
2. Monitoring Frequency: List how often to monitor after the triggering event			
MONITOR THE BRIDGE WITHIN 24 HOURS OF THE TRIGGERING EVENT AND THEN 7 DAYS AFTERWARDS.			
3. Monitoring Plan: List substructure units to monitor and specific signs indicating a problem			
MONITOR ABUTMENTS AND PIERS			
4. Monitoring Responsibilities: List who monitors			
COUNTY BRIDGE PROGRAM ERC - RIK RITZLER PHONE # 574-772-3011 WILL MONITOR THE BRIDGE AFTER THE TRIGGERED EVENT. COUNTY INSPECTION CONSULTANT - UNITED CONSULTING PHONE # 317-895-2585 DURING BIENNIAL INSPECTIONS. THE COUNTY WILL CLOSE BRIDGE AND CONTACT THE INSPECTION CONSULTANT IF BRIDGE STABILITY IS IN QUESTION AFTER TRIGGER EVENT.			
5. Closure Plan: List triggers for closure			
WATER OVERTOPPING BRIDGE AND/OR APPROACHES. SIGNS OF BRIDGE INSTABILITY AS LISTED IN THE MONITORING PLAN.			
6. Closure Notification and Procedures:			
COUNTY ERC, RIK RITZLER WILL NOTIFY COUNTY DISPATCH. PLACE BARRICADES AND ROAD CLOSURE SIGNS AT APPROACHES AT BOTH ENDS OF THE BRIDGE. A DETOUR ROUTE WILL NOT BE POSTED SHOULD THIS BRIDGE BE CLOSED. PRIOR TO REOPENING, THE BRIDGE MUST BE INSPECTED BY A CERTIFIED BRIDGE INSPECTION TEAM LEADER.			
7. Reopening Inspection Requirements:			
UPON THE FLOOD WATERS RECEDING, THE COUNTY INSPECTION CONSULTANT SHALL PERFORM AN INSPECTION OF THE PIERS, ABUTMENTS, WINGWALLS, AND ROAD APPROACHES PRIOR TO REOPENING THE BRIDGE.			
8. Monitoring Log: Complete during each triggering event			
Monitoring Date	Water Level	Cause of Highwater	Comments
9. Drawings Available: General Plan; Layout; Cross Sections; Pier/Abutment Soundings			
NONE			

SCOUR AND FOUNDATION EVALUATION FORM		
NBI Number:	7500016	Bridge Number: 75-00025
Facility Carried:	CR 500E	Feature(s) Intersected: Yellow River
Date of Last Review or Update: 10/22/2020		
(113A) NBI Scour Evaluation: 5		
Foundation Data	Code	Comments
Abutment Foundation Type	O	
Int. Pier Foundation Type	U	
Soils Information	SOILS INFORMATION IS UNKNOWN. NO PLANS AVAILABLE.	
Design Plans:	NO PLANS AVAILABLE.	
Scour Monitoring Data		
Is Bridge on a District Monitoring Program?	NO	
Reason for Monitoring	BRIDGE IS CONSIDERED MODERATE RISK BECAUSE OF YELLOW RIVER	
Who Monitors the Bridge?	STARKE COUNTY	
Long Term Scour Solution	DESIGN SCOUR COUNTERMEASURES SHOULD BE DEVELOPED TO REPAIR ANY SCOUR PROBLEMS.	
Streambed Material	STIFF CLAY	
Stream Alignment	GOOD - NO MAJOR DEFECTS	
Scour Countermeasures	RIPRAP	
Bank Erosion	MINOR SLOUGHING	
Other Scour Related Findings	N/A	

SCOUR AND FOUNDATION EVALUATION FORM			
NBI Number: 7500016		Bridge Number: 75-00025	
Facility Carried CR 500E		Feature(s) Intersected: Yellow River	
1. Triggering Event: List the events for when to monitor			
Q100 STORM EVENT PER NOAA: 3.0 INCHES OF RAIN IN THE WATERSHED WITHIN 1 HOUR OR 6.32 INCHES OF RAIN WITHIN 24 HOURS.			
2. Monitoring Frequency: List how often to monitor after the triggering event			
MONITOR THE BRIDGE WITHIN 24 HOURS OF THE TRIGGERING EVENT AND THEN 7 DAYS AFTERWARDS.			
3. Monitoring Plan: List substructure units to monitor and specific signs indicating a problem			
MONITOR ABUTMENTS AND PIERS			
4. Monitoring Responsibilities: List who monitors			
COUNTY BRIDGE PROGRAM ERC - RIK RITZLER PHONE # 574-772-3011 WILL MONITOR THE BRIDGE AFTER THE TRIGGERED EVENT. COUNTY INSPECTION CONSULTANT - UNITED CONSULTING PHONE # 317-895-2585 DURING BIENNIAL INSPECTIONS. THE COUNTY WILL CLOSE BRIDGE AND CONTACT THE INSPECTION CONSULTANT IF BRIDGE STABILITY IS IN QUESTION AFTER TRIGGER EVENT.			
5. Closure Plan: List triggers for closure			
WATER OVERTOPPING BRIDGE AND/OR APPROACHES. SIGNS OF BRIDGE INSTABILITY AS LISTED IN THE MONITORING PLAN.			
6. Closure Notification and Procedures:			
COUNTY ERC, RIK RITZLER WILL NOTIFY COUNTY DISPATCH. PLACE BARRICADES AND ROAD CLOSURE SIGNS AT APPROACHES AT BOTH ENDS OF THE BRIDGE. A DETOUR ROUTE WILL NOT BE POSTED SHOULD THIS BRIDGE BE CLOSED. PRIOR TO REOPENING, THE BRIDGE MUST BE INSPECTED BY A CERTIFIED BRIDGE INSPECTION TEAM LEADER.			
7. Reopening Inspection Requirements:			
UPON THE FLOOD WATERS RECEDING, THE COUNTY INSPECTION CONSULTANT SHALL PERFORM AN INSPECTION OF THE PIERS, ABUTMENTS, WINGWALLS, AND ROAD APPROACHES PRIOR TO REOPENING THE BRIDGE.			
8. Monitoring Log: Complete during each triggering event			
Monitoring Date	Water Level	Cause of Highwater	Comments
9. Drawings Available: General Plan; Layout; Cross Sections; Pier/Abutment Soundings			
SOUNDINGS ALONG EXPOSED PIER FOOTINGS.			

SCOUR AND FOUNDATION EVALUATION FORMNBI Number: **7500017**Bridge Number: **75-00027**Facility Carried: **CR 700E**Feature(s) Intersected: **Yellow River**Date of Last Review or Update: **10/22/2020**(113A) NBI Scour Evaluation: **5****Foundation Data****Code****Comments**

Abutment Foundation Type

O

Int. Pier Foundation Type

U

Soils Information

SOILS INFORMATION IS UNKNOWN. NO PLANS AVAILABLE.

Design Plans:

NO PLANS AVAILABLE.

Scour Monitoring Data

Is Bridge on a District Monitoring Program?

NO

Reason for Monitoring

BRIDGE IS CONSIDERED MODERATE RISK BECAUSE OF YELLOW RIVER

Who Monitors the Bridge?

STARKE COUNTY

Long Term Scour Solution

DESIGN SCOUR COUNTERMEASURES SHOULD BE DEVELOPED TO REPAIR ANY SCOUR PROBLEMS.

Streambed Material

GRANULAR SOFT SOIL

Stream Alignment

GOOD - NO MAJOR DEFECTS

Scour Countermeasures

NONE

Bank Erosion

NONE

Other Scour Related Findings

N/A

SCOUR AND FOUNDATION EVALUATION FORMNBI Number: **7500017**
Facility Carried **CR 700E**Bridge Number: **75-00027**
Feature(s) Intersected: **Yellow River**

1. Triggering Event: List the events for when to monitor

Q100 STORM EVENT PER NOAA: 3.0 INCHES OF RAIN IN THE WATERSHED WITHIN 1 HOUR OR 6.32 INCHES OF RAIN WITHIN 24 HOURS.

2. Monitoring Frequency: List how often to monitor after the triggering event

MONITOR THE BRIDGE WITHIN 24 HOURS OF THE TRIGGERING EVENT AND THEN 7 DAYS AFTERWARDS.

3. Monitoring Plan: List substructure units to monitor and specific signs indicating a problem

MONITOR ABUTMENTS AND PIERS

4. Monitoring Responsibilities: List who monitors

COUNTY BRIDGE PROGRAM ERC - RIK RITZLER PHONE # 574-772-3011 WILL MONITOR THE BRIDGE AFTER THE TRIGGERED EVENT.

COUNTY INSPECTION CONSULTANT - UNITED CONSULTING PHONE # 317-895-2585 DURING BIENNIAL INSPECTIONS. THE COUNTY WILL CLOSE BRIDGE AND CONTACT THE INSPECTION CONSULTANT IF BRIDGE STABILITY IS IN QUESTION AFTER TRIGGER EVENT.

5. Closure Plan: List triggers for closure

WATER OVERTOPPING BRIDGE AND/OR APPROACHES. SIGNS OF BRIDGE INSTABILITY AS LISTED IN THE MONITORING PLAN.

6. Closure Notification and Procedures:

COUNTY ERC, RIK RITZLER WILL NOTIFY COUNTY DISPATCH. PLACE BARRICADES AND ROAD CLOSURE SIGNS AT APPROACHES AT BOTH ENDS OF THE BRIDGE. A DETOUR ROUTE WILL NOT BE POSTED SHOULD THIS BRIDGE BE CLOSED. PRIOR TO REOPENING, THE BRIDGE MUST BE INSPECTED BY A CERTIFIED BRIDGE INSPECTION TEAM LEADER.

7. Reopening Inspection Requirements:

UPON THE FLOOD WATERS RECEDING, THE COUNTY INSPECTION CONSULTANT SHALL PERFORM AN INSPECTION OF THE PIERS, ABUTMENTS, WINGWALLS, AND ROAD APPROACHES PRIOR TO REOPENING THE BRIDGE.

8. Monitoring Log: Complete during each triggering event

Monitoring Date	Water Level	Cause of Highwater	Comments

9. Drawings Available: General Plan; Layout; Cross Sections; Pier/Abutment Soundings

NONE

SCOUR AND FOUNDATION EVALUATION FORM		
NBI Number:	7500089	Bridge Number: 75-00039 B
Facility Carried:	CR 1100E	Feature(s) Intersected: Yellow River
Date of Last Review or Update: 10/22/2020		
(113A) NBI Scour Evaluation: 5		
Foundation Data	Code	Comments
Abutment Foundation Type	O	
Int. Pier Foundation Type	U	
Soils Information	SOILS INFORMATION IS UNKNOWN. NO PLANS AVAILABLE.	
Design Plans:	NO PLANS AVAILABLE.	
Scour Monitoring Data		
Is Bridge on a District Monitoring Program?	NO	
Reason for Monitoring	BRIDGE IS CONSIDERED MODERATE RISK BECAUSE OF YELLOW RIVER	
Who Monitors the Bridge?	STARKE COUNTY	
Long Term Scour Solution	DESIGN SCOUR COUNTERMEASURES SHOULD BE DEVELOPED TO REPAIR ANY SCOUR PROBLEMS.	
Streambed Material	STIFF CLAY	
Stream Alignment	GOOD - NO MAJOR DEFECTS	
Scour Countermeasures	RIPRAP	
Bank Erosion	NONE	
Other Scour Related Findings	N/A	

SCOUR AND FOUNDATION EVALUATION FORM			
NBI Number: 7500089		Bridge Number: 75-00039 B	
Facility Carried CR 1100E		Feature(s) Intersected: Yellow River	
1. Triggering Event: List the events for when to monitor			
Q100 STORM EVENT PER NOAA: 3.0 INCHES OF RAIN IN THE WATERSHED WITHIN 1 HOUR OR 6.32 INCHES OF RAIN WITHIN 24 HOURS.			
2. Monitoring Frequency: List how often to monitor after the triggering event			
MONITOR THE BRIDGE WITHIN 24 HOURS OF THE TRIGGERING EVENT AND THEN 7 DAYS AFTERWARDS.			
3. Monitoring Plan: List substructure units to monitor and specific signs indicating a problem			
MONITOR ABUTMENTS AND PIERS			
4. Monitoring Responsibilities: List who monitors			
COUNTY BRIDGE PROGRAM ERC - RIK RITZLER PHONE # 574-772-3011 WILL MONITOR THE BRIDGE AFTER THE TRIGGERED EVENT. COUNTY INSPECTION CONSULTANT - UNITED CONSULTING PHONE # 317-895-2585 DURING BIENNIAL INSPECTIONS. THE COUNTY WILL CLOSE BRIDGE AND CONTACT THE INSPECTION CONSULTANT IF BRIDGE STABILITY IS IN QUESTION AFTER TRIGGER EVENT.			
5. Closure Plan: List triggers for closure			
WATER OVERTOPPING BRIDGE AND/OR APPROACHES. SIGNS OF BRIDGE INSTABILITY AS LISTED IN THE MONITORING PLAN.			
6. Closure Notification and Procedures:			
COUNTY ERC, RIK RITZLER WILL NOTIFY COUNTY DISPATCH. PLACE BARRICADES AND ROAD CLOSURE SIGNS AT APPROACHES AT BOTH ENDS OF THE BRIDGE. A DETOUR ROUTE WILL NOT BE POSTED SHOULD THIS BRIDGE BE CLOSED. PRIOR TO REOPENING, THE BRIDGE MUST BE INSPECTED BY A CERTIFIED BRIDGE INSPECTION TEAM LEADER.			
7. Reopening Inspection Requirements:			
UPON THE FLOOD WATERS RECEDING, THE COUNTY INSPECTION CONSULTANT SHALL PERFORM AN INSPECTION OF THE PIERS, ABUTMENTS, WINGWALLS, AND ROAD APPROACHES PRIOR TO REOPENING THE BRIDGE.			
8. Monitoring Log: Complete during each triggering event			
Monitoring Date	Water Level	Cause of Highwater	Comments
9. Drawings Available: General Plan; Layout; Cross Sections; Pier/Abutment Soundings			
SOUNDINGS ALONG EXPOSED PIER FOOTINGS.			

SCOUR AND FOUNDATION EVALUATION FORM		
NBI Number:	7500070	Bridge Number: 75-00125
Facility Carried:	RANGE RD	Feature(s) Intersected: Yellow River
Date of Last Review or Update: 10/22/2020		
(113A) NBI Scour Evaluation: 5		
Foundation Data	Code	Comments
Abutment Foundation Type	O	
Int. Pier Foundation Type	U	
Soils Information	SOILS INFORMATION IS UNKNOWN. NO PLANS AVAILABLE.	
Design Plans:	NO PLANS AVAILABLE.	
Scour Monitoring Data		
Is Bridge on a District Monitoring Program?	NO	
Reason for Monitoring	BRIDGE IS CONSIDERED MODERATE RISK BECAUSE OF YELLOW RIVER	
Who Monitors the Bridge?	STARKE COUNTY	
Long Term Scour Solution	DESIGN SCOUR COUNTERMEASURES SHOULD BE DEVELOPED TO REPAIR ANY SCOUR PROBLEMS.	
Streambed Material	STIFF CLAY	
Stream Alignment	GOOD - NO MAJOR DEFECTS	
Scour Countermeasures	RIPRAP	
Bank Erosion	MINOR SLOUGHING	
Other Scour Related Findings	N/A	

SCOUR AND FOUNDATION EVALUATION FORM			
NBI Number: 7500070		Bridge Number: 75-00125	
Facility Carried RANGE RD		Feature(s) Intersected: Yellow River	
1. Triggering Event: List the events for when to monitor			
Q100 STORM EVENT PER NOAA: 3.0 INCHES OF RAIN IN THE WATERSHED WITHIN 1 HOUR OR 6.32 INCHES OF RAIN WITHIN 24 HOURS.			
2. Monitoring Frequency: List how often to monitor after the triggering event			
MONITOR THE BRIDGE WITHIN 24 HOURS OF THE TRIGGERING EVENT AND THEN 7 DAYS AFTERWARDS.			
3. Monitoring Plan: List substructure units to monitor and specific signs indicating a problem			
MONITOR ABUTMENTS AND PIERS			
4. Monitoring Responsibilities: List who monitors			
COUNTY BRIDGE PROGRAM ERC - RIK RITZLER PHONE # 574-772-3011 WILL MONITOR THE BRIDGE AFTER THE TRIGGERED EVENT. COUNTY INSPECTION CONSULTANT - UNITED CONSULTING PHONE # 317-895-2585 DURING BIENNIAL INSPECTIONS. THE COUNTY WILL CLOSE BRIDGE AND CONTACT THE INSPECTION CONSULTANT IF BRIDGE STABILITY IS IN QUESTION AFTER TRIGGER EVENT.			
5. Closure Plan: List triggers for closure			
WATER OVERTOPPING BRIDGE AND/OR APPROACHES. SIGNS OF BRIDGE INSTABILITY AS LISTED IN THE MONITORING PLAN.			
6. Closure Notification and Procedures:			
COUNTY ERC, RIK RITZLER WILL NOTIFY COUNTY DISPATCH. PLACE BARRICADES AND ROAD CLOSURE SIGNS AT APPROACHES AT BOTH ENDS OF THE BRIDGE. A DETOUR ROUTE WILL NOT BE POSTED SHOULD THIS BRIDGE BE CLOSED. PRIOR TO REOPENING, THE BRIDGE MUST BE INSPECTED BY A CERTIFIED BRIDGE INSPECTION TEAM LEADER.			
7. Reopening Inspection Requirements:			
UPON THE FLOOD WATERS RECEDING, THE COUNTY INSPECTION CONSULTANT SHALL PERFORM AN INSPECTION OF THE PIERS, ABUTMENTS, WINGWALLS, AND ROAD APPROACHES PRIOR TO REOPENING THE BRIDGE.			
8. Monitoring Log: Complete during each triggering event			
Monitoring Date	Water Level	Cause of Highwater	Comments
9. Drawings Available: General Plan; Layout; Cross Sections; Pier/Abutment Soundings			
SOUNDINGS ALONG EXPOSED ABUTMENTS			

SCOUR AND FOUNDATION EVALUATION FORM		
NBI Number:	7500071	Bridge Number: 75-00126
Facility Carried:	CR 100W	Feature(s) Intersected: Yellow River
Date of Last Review or Update: 10/22/2020		
(113A) NBI Scour Evaluation: 5		
Foundation Data	Code	Comments
Abutment Foundation Type	O	
Int. Pier Foundation Type	U	
Soils Information	SOILS INFORMATION IS UNKNOWN. NO PLANS AVAILABLE.	
Design Plans:	NO PLANS AVAILABLE.	
Scour Monitoring Data		
Is Bridge on a District Monitoring Program?	NO	
Reason for Monitoring	BRIDGE IS CONSIDERED MODERATE RISK BECAUSE OF YELLOW RIVER	
Who Monitors the Bridge?	STARKE COUNTY	
Long Term Scour Solution	DESIGN SCOUR COUNTERMEASURES SHOULD BE DEVELOPED TO REPAIR ANY SCOUR PROBLEMS.	
Streambed Material	STIFF CLAY	
Stream Alignment	GOOD - NO MAJOR DEFECTS	
Scour Countermeasures	RIPRAP	
Bank Erosion	MINOR BANK SLOUGHING	
Other Scour Related Findings	N/A	

SCOUR AND FOUNDATION EVALUATION FORM			
NBI Number: 7500071		Bridge Number: 75-00126	
Facility Carried CR 100W		Feature(s) Intersected: Yellow River	
1. Triggering Event: List the events for when to monitor			
Q100 STORM EVENT PER NOAA: 3.0 INCHES OF RAIN IN THE WATERSHED WITHIN 1 HOUR OR 6.32 INCHES OF RAIN WITHIN 24 HOURS.			
2. Monitoring Frequency: List how often to monitor after the triggering event			
MONITOR THE BRIDGE WITHIN 24 HOURS OF THE TRIGGERING EVENT AND THEN 7 DAYS AFTERWARDS.			
3. Monitoring Plan: List substructure units to monitor and specific signs indicating a problem			
MONITOR ABUTMENTS AND PIERS			
4. Monitoring Responsibilities: List who monitors			
COUNTY BRIDGE PROGRAM ERC - RIK RITZLER PHONE # 574-772-3011 WILL MONITOR THE BRIDGE AFTER THE TRIGGERED EVENT. COUNTY INSPECTION CONSULTANT - UNITED CONSULTING PHONE # 317-895-2585 DURING BIENNIAL INSPECTIONS. THE COUNTY WILL CLOSE BRIDGE AND CONTACT THE INSPECTION CONSULTANT IF BRIDGE STABILITY IS IN QUESTION AFTER TRIGGER EVENT.			
5. Closure Plan: List triggers for closure			
WATER OVERTOPPING BRIDGE AND/OR APPROACHES. SIGNS OF BRIDGE INSTABILITY AS LISTED IN THE MONITORING PLAN.			
6. Closure Notification and Procedures:			
COUNTY ERC, RIK RITZLER WILL NOTIFY COUNTY DISPATCH. PLACE BARRICADES AND ROAD CLOSURE SIGNS AT APPROACHES AT BOTH ENDS OF THE BRIDGE. A DETOUR ROUTE WILL NOT BE POSTED SHOULD THIS BRIDGE BE CLOSED. PRIOR TO REOPENING, THE BRIDGE MUST BE INSPECTED BY A CERTIFIED BRIDGE INSPECTION TEAM LEADER.			
7. Reopening Inspection Requirements:			
UPON THE FLOOD WATERS RECEDING, THE COUNTY INSPECTION CONSULTANT SHALL PERFORM AN INSPECTION OF THE PIERS, ABUTMENTS, WINGWALLS, AND ROAD APPROACHES PRIOR TO REOPENING THE BRIDGE.			
8. Monitoring Log: Complete during each triggering event			
Monitoring Date	Water Level	Cause of Highwater	Comments
9. Drawings Available: General Plan; Layout; Cross Sections; Pier/Abutment Soundings			
SOUNDINGS ALONG EXPOSED ABUTMENTS			

SCOUR AND FOUNDATION EVALUATION FORM

NBI Number: **7500074**
 Facility Carried: **CR 300E**

Bridge Number: **75-00137**
 Feature(s) Intersected: **Yellow River**

Date of Last Review or Update: **10/22/2020**

(113A) NBI Scour Evaluation: **4**

Foundation Data

Abutment Foundation Type

O

Int. Pier Foundation Type

U

Soils Information

SOILS INFORMATION IS UNKNOWN. NO PLANS AVAILABLE.

Design Plans:

NO PLANS AVAILABLE.

Scour Monitoring Data

Is Bridge on a District Monitoring Program?

NO

Reason for Monitoring

BRIDGE IS CONSIDERED MODERATE RISK BECAUSE OF YELLOW RIVER

Who Monitors the Bridge?

STARKE COUNTY

Long Term Scour Solution

DESIGN SCOUR COUNTERMEASURES SHOULD BE DEVELOPED TO REPAIR ANY SCOUR PROBLEMS.

Streambed Material

GRANULAR SOFT SOIL

Stream Alignment

GOOD - NO MAJOR DEFECTS

Scour Countermeasures

RIPRAP

Bank Erosion

NONE

Other Scour Related Findings

N/A

SCOUR AND FOUNDATION EVALUATION FORM

NBI Number: **7500074**
Facility Carried **CR 300E**

Bridge Number: **75-00137**
Feature(s) Intersected: **Yellow River**

1. Triggering Event: List the events for when to monitor

Q100 STORM EVENT PER NOAA: 3.0 INCHES OF RAIN IN THE WATERSHED WITHIN 1 HOUR OR 6.32 INCHES OF RAIN WITHIN 24 HOURS.

2. Monitoring Frequency: List how often to monitor after the triggering event

MONITOR THE BRIDGE WITHIN 24 HOURS OF THE TRIGGERING EVENT AND THEN 7 DAYS AFTERWARDS.

3. Monitoring Plan: List substructure units to monitor and specific signs indicating a problem

MONITOR ABUTMENTS AND PIERS

4. Monitoring Responsibilities: List who monitors

COUNTY BRIDGE PROGRAM ERC - RIK RITZLER PHONE # 574-772-3011 WILL MONITOR THE BRIDGE AFTER THE TRIGGERED EVENT.

COUNTY INSPECTION CONSULTANT - UNITED CONSULTING PHONE # 317-895-2585 DURING BIENNIAL INSPECTIONS. THE COUNTY WILL CLOSE BRIDGE AND CONTACT THE INSPECTION CONSULTANT IF BRIDGE STABILITY IS IN QUESTION AFTER TRIGGER EVENT.

5. Closure Plan: List triggers for closure

WATER OVERTOPPING BRIDGE AND/OR APPROACHES. SIGNS OF BRIDGE INSTABILITY AS LISTED IN THE MONITORING PLAN.

6. Closure Notification and Procedures:

COUNTY ERC, RIK RITZLER WILL NOTIFY COUNTY DISPATCH. PLACE BARRICADES AND ROAD CLOSURE SIGNS AT APPROACHES AT BOTH ENDS OF THE BRIDGE. A DETOUR ROUTE WILL NOT BE POSTED SHOULD THIS BRIDGE BE CLOSED. PRIOR TO REOPENING, THE BRIDGE MUST BE INSPECTED BY A CERTIFIED BRIDGE INSPECTION TEAM LEADER.

7. Reopening Inspection Requirements:

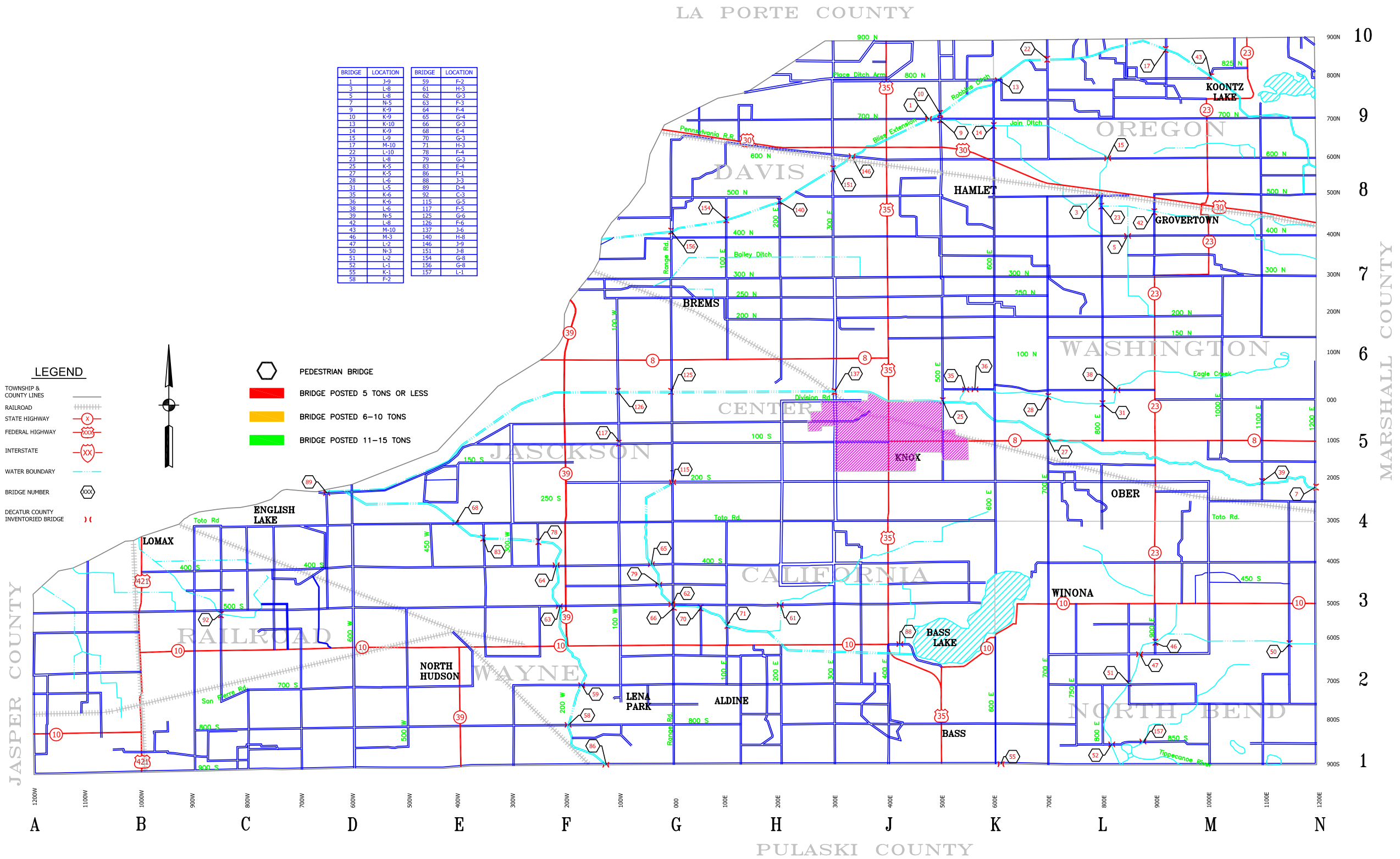
UPON THE FLOOD WATERS RECEDING, THE COUNTY INSPECTION CONSULTANT SHALL PERFORM AN INSPECTION OF THE PIERS, ABUTMENTS, WINGWALLS, AND ROAD APPROACHES PRIOR TO REOPENING THE BRIDGE.

8. Monitoring Log: Complete during each triggering event

Monitoring Date	Water Level	Cause of Highwater	Comments

9. Drawings Available: General Plan; Layout; Cross Sections; Pier/Abutment Soundings

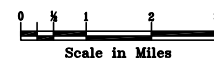
NONE



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www.ucindy.com

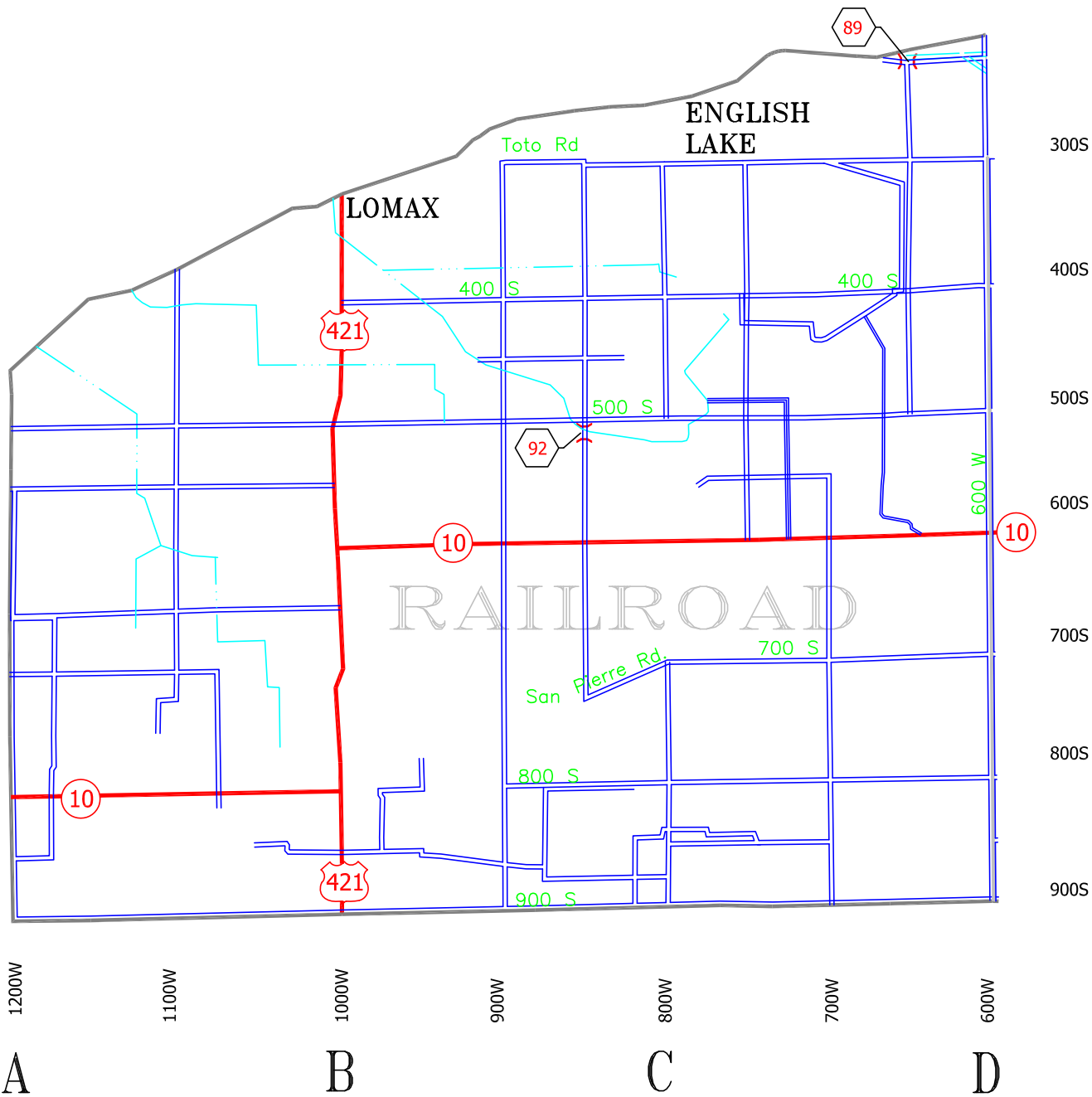
COUNTY COMMISSIONERS
DONNIE BINKLEY
KATHY NOREM
CHARLES CHESAK

COUNTY HIGHWAY SUPERINTENDENT
STEPHEN RITZLER



STARKE COUNTY
BRIDGE INVENTORY
KEY MAP
PHASE I - 2019

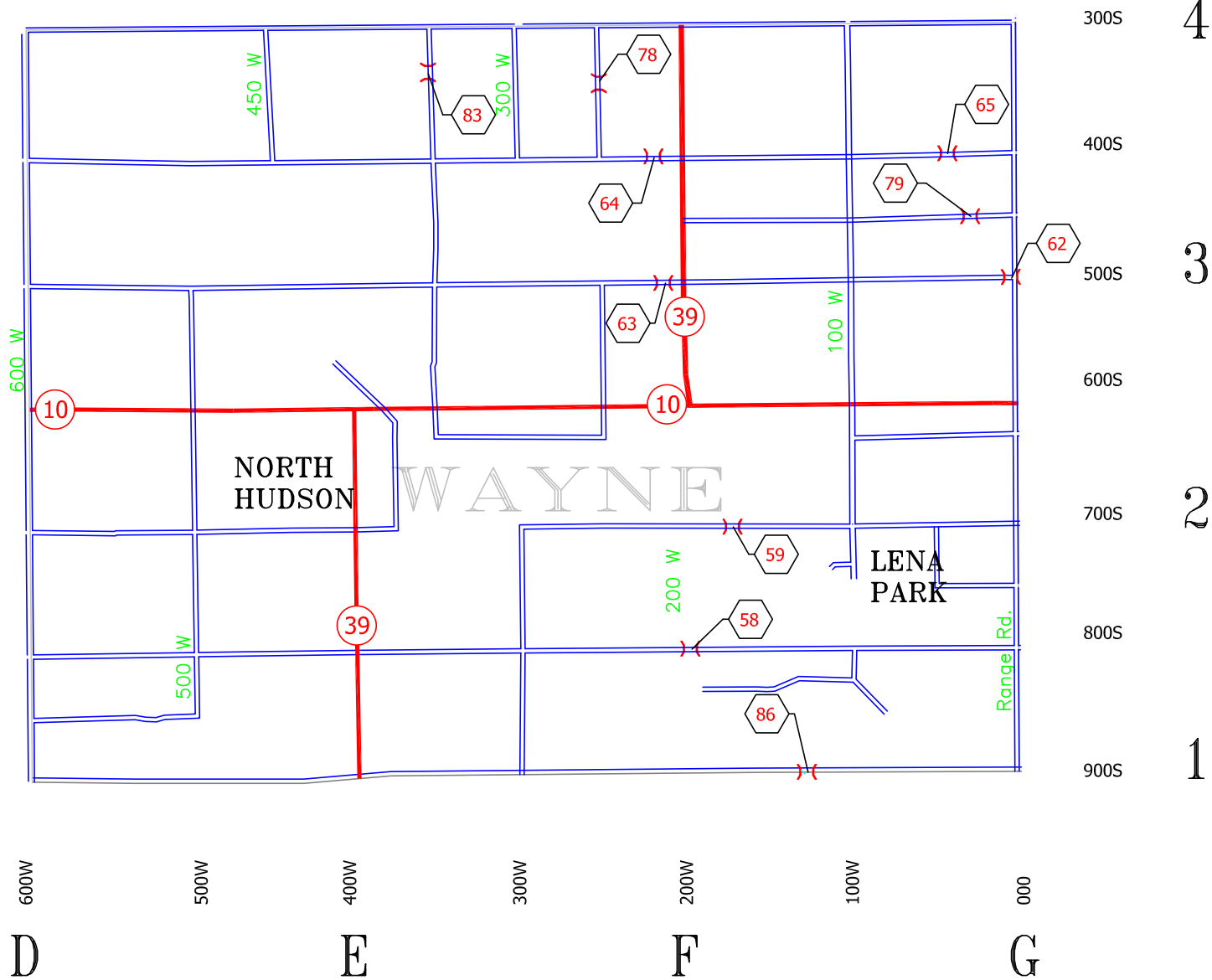
JASPER COUNTY



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STARKE COUNTY BRIDGE INVENTORY

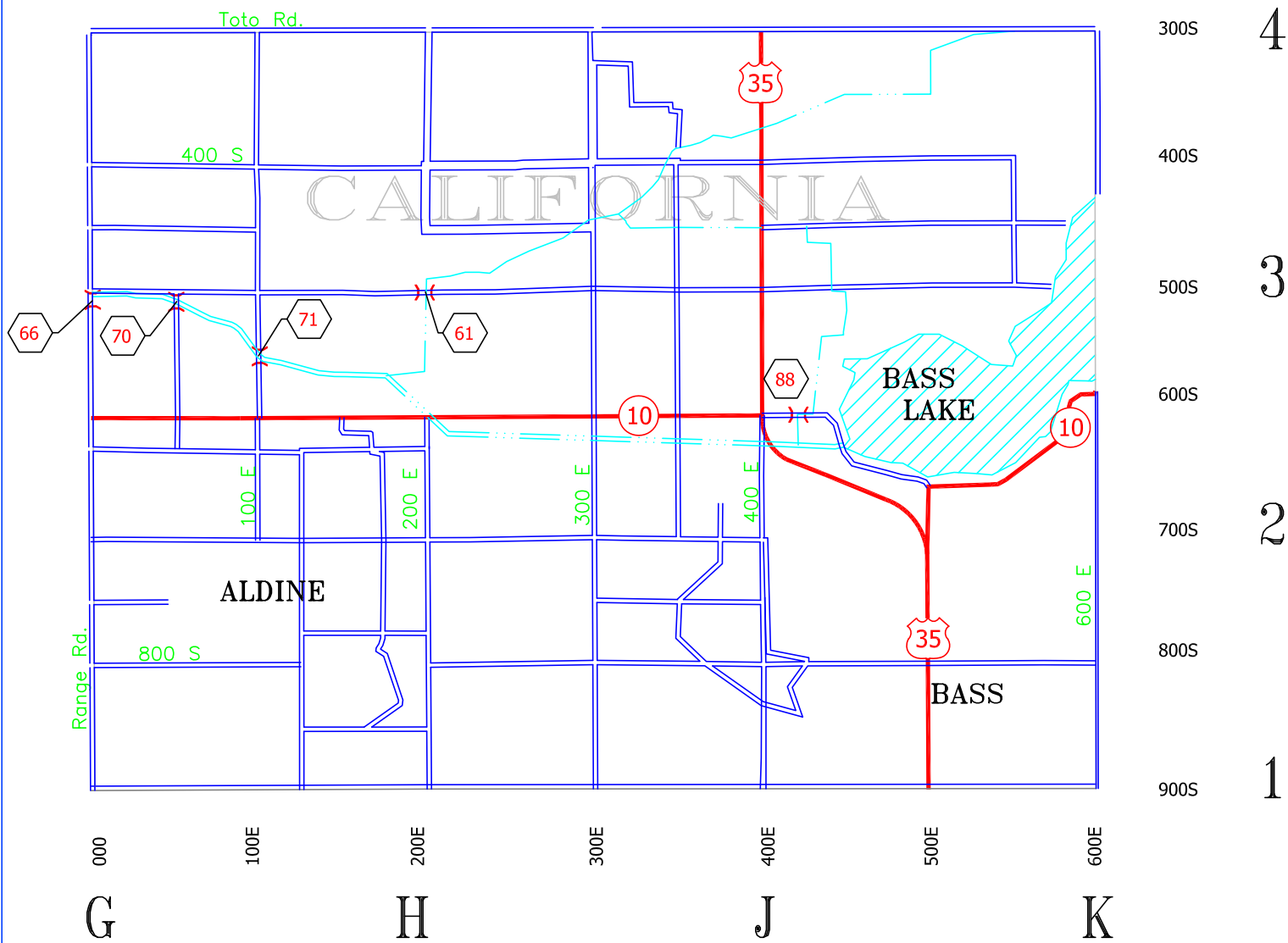
RAILROAD TOWNSHIP



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STARKE COUNTY BRIDGE INVENTORY

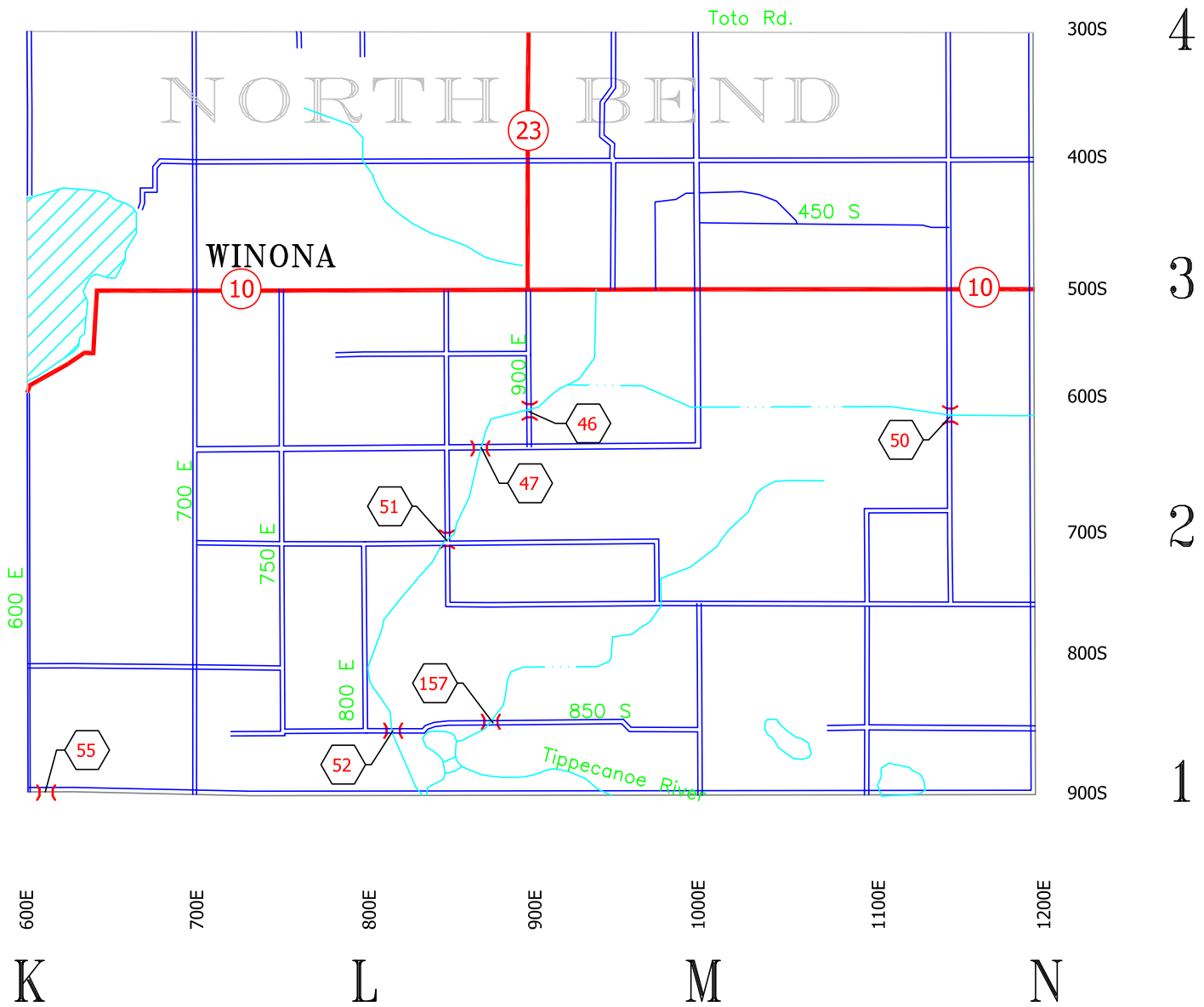
WAYNE TOWNSHIP



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STARKE COUNTY BRIDGE INVENTORY

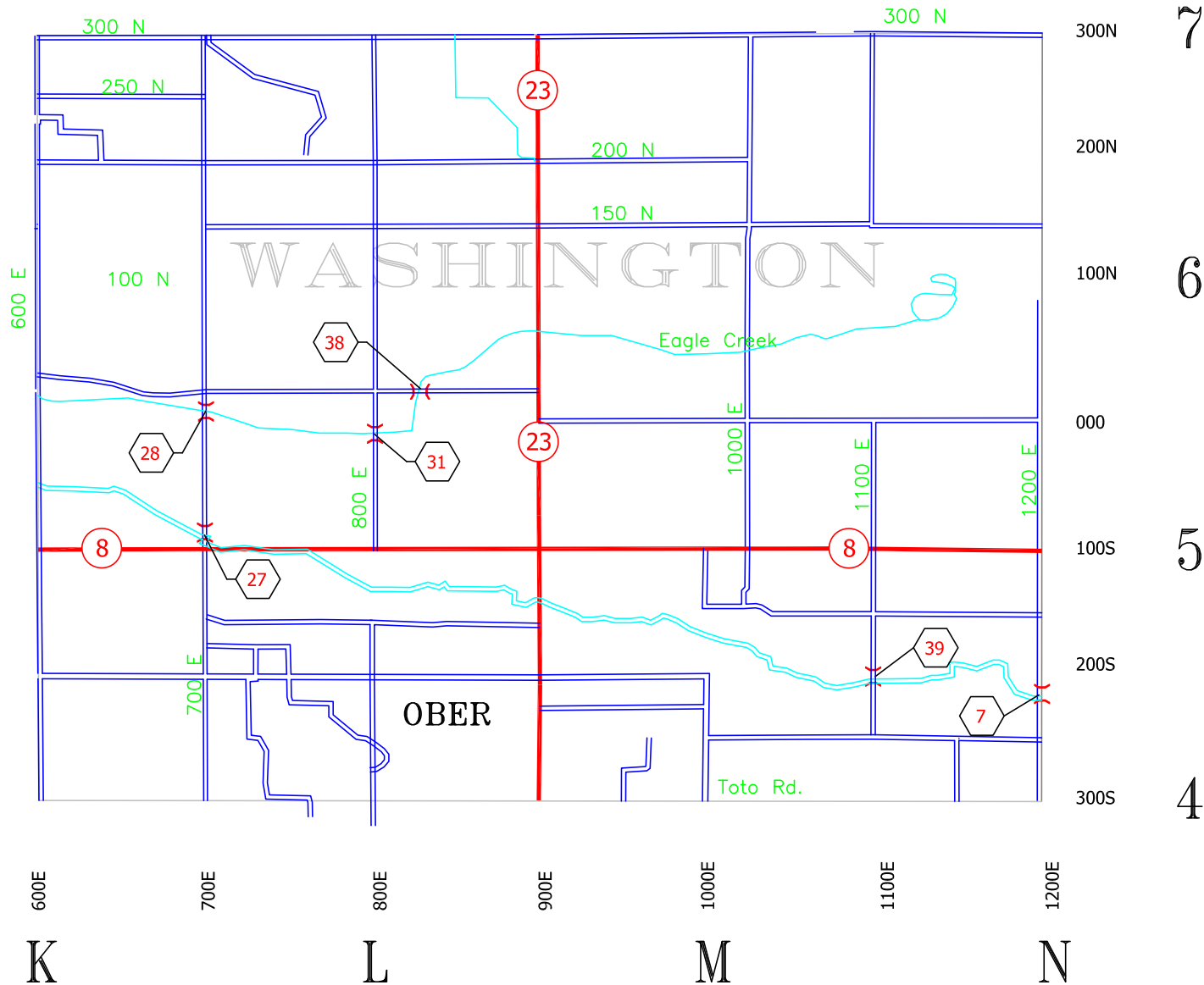
CALIFORNIA TOWNSHIP



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STARKE COUNTY BRIDGE INVENTORY

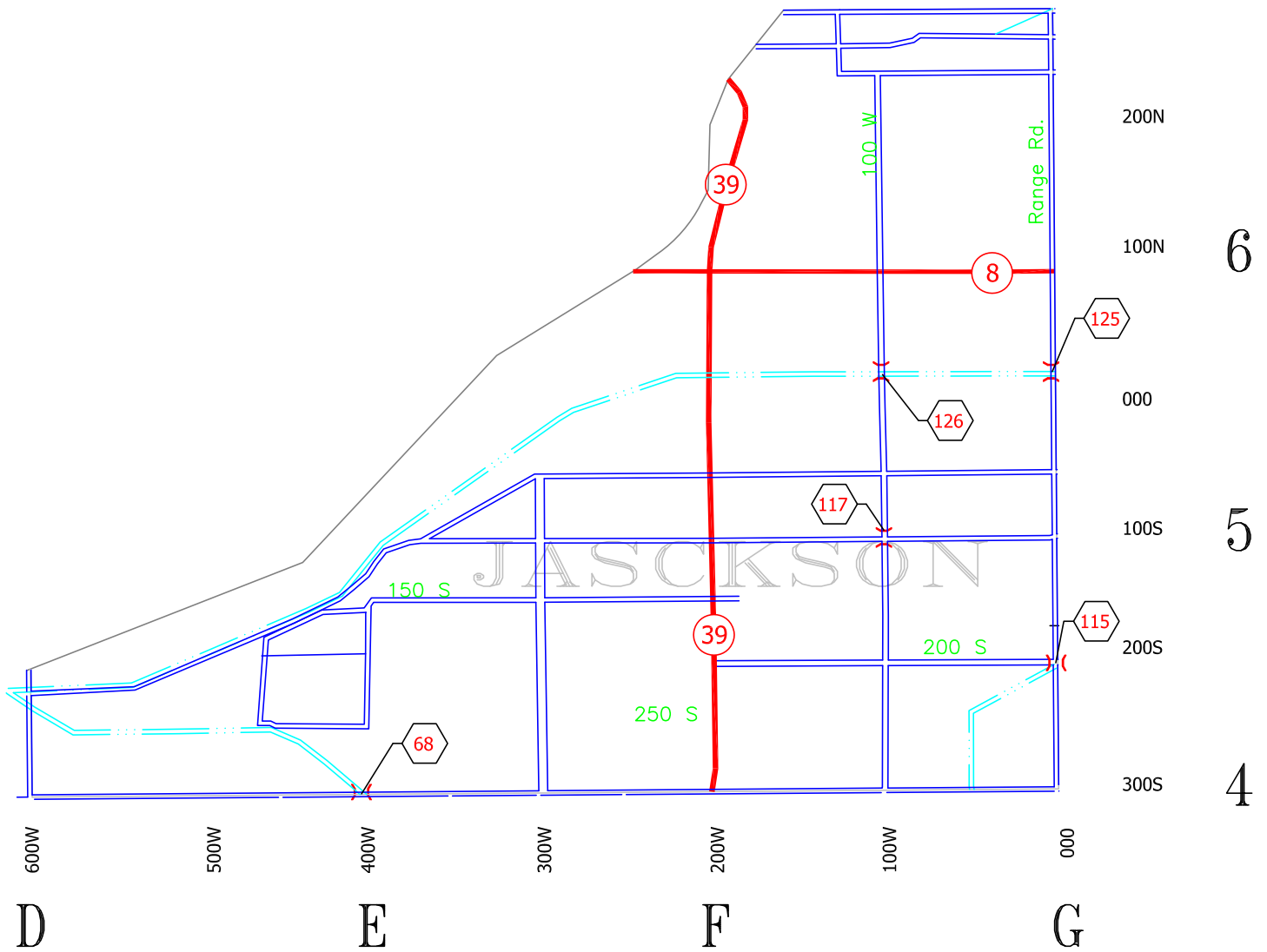
NORTH BEND TOWNSHIP



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STARKE COUNTY BRIDGE INVENTORY

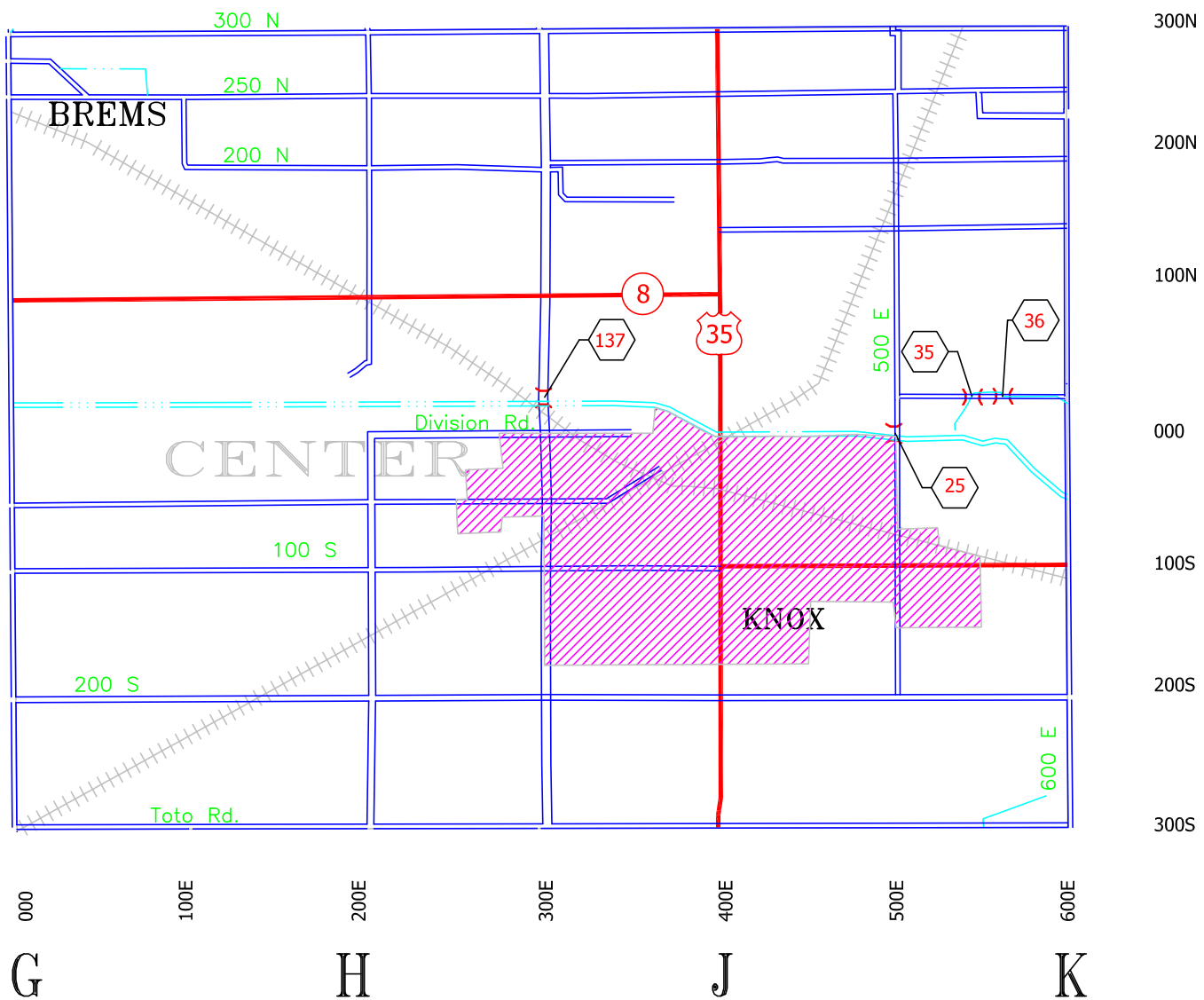
WASHINGTON TOWNSHIP



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STARKE COUNTY BRIDGE INVENTORY

JACKSON TOWNSHIP

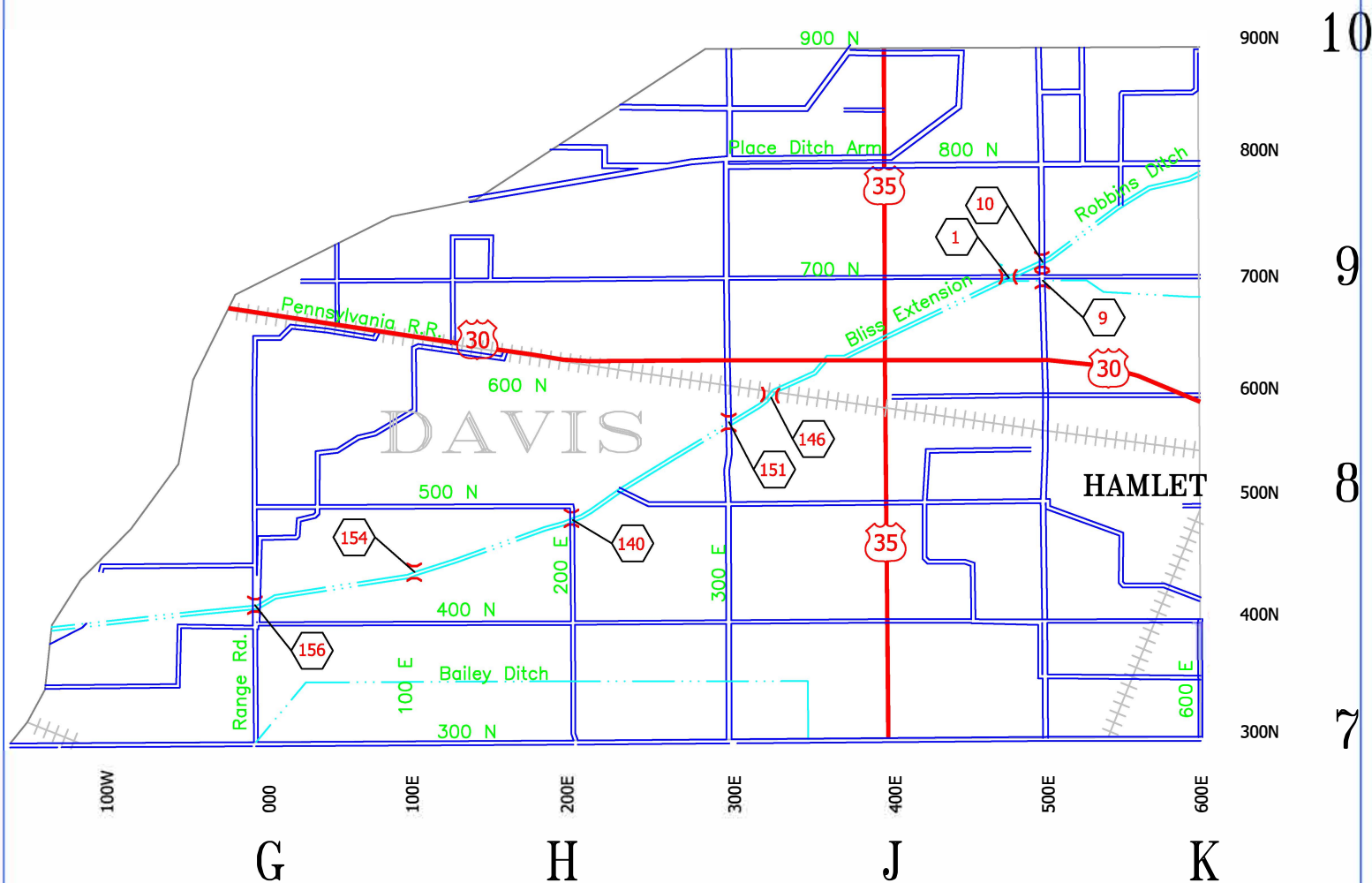


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STARKE COUNTY BRIDGE INVENTORY

CENTER TOWNSHIP

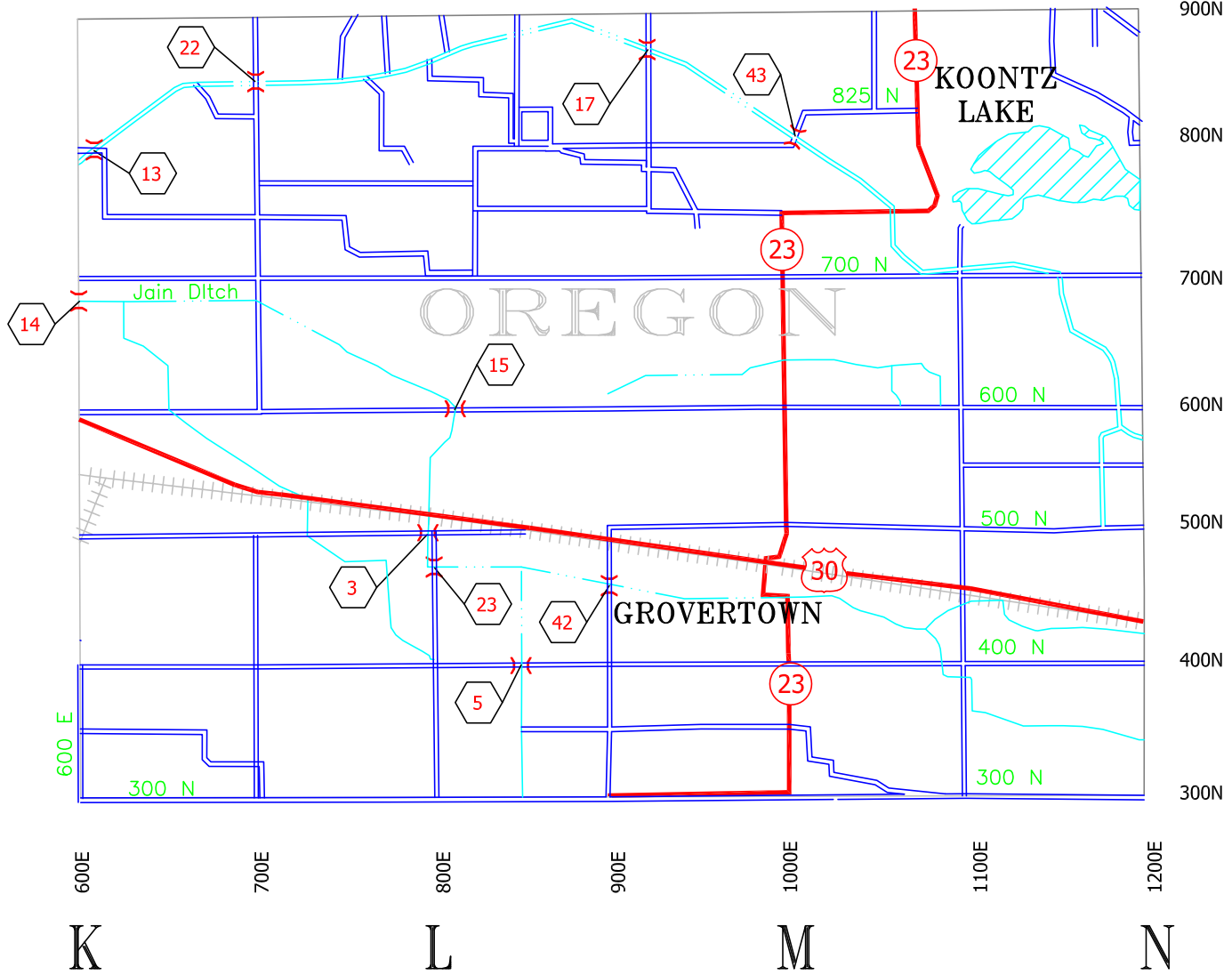
LA PORTE COUNTY



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STARKE COUNTY BRIDGE INVENTORY

DAVIS TOWNSHIP



10

9

8

7



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STARKE COUNTY BRIDGE INVENTORY

OREGON TOWNSHIP