


Bridge No. 506
Elm Street over the White River

2005
Delaware County Bridge Inventory
Phase II - Bridges 1 to 701

	<p>Floyd E. Burroughs and Associates 14701 Cumberland Road, Suite 200 Noblesville, Indiana 46060-8712 Phone: (317) 849-9722 Toll Free: (866) 359-6800 Fax: (317) 849-9475</p>
---	---

**DELAWARE COUNTY
BRIDGE INSPECTION REPORT
PHASE II
PROJECT NO.: BR-NBIS(498)**

Prepared for

THE DELAWARE COUNTY BOARD OF COMMISSIONERS

**Larry L. Crouch
Tom L. Bennington
John H. Brooke**

and

Michael R. Denton - County Highway Engineer



A handwritten signature in black ink that reads "Robert M. Gray".

8/9/05

Robert M. Gray, P.E.

Date

A handwritten signature in black ink that reads "Gregory G. Ubelhor".

8/9/05

Gregory G. Ubelhor, Inspection Leader

Date

**By
FLOYD E. BURROUGHS & ASSOCIATES, INC.
Consulting Engineers
14701 Cumberland Road, Suite 200
Noblesville, Indiana 46060**

July, 2005

Table of Contents

<u>Section</u>	<u>Page</u>
Introduction and Scope	1-2
Personnel Listing	3
Bridge Inventory Additions	4-6
Bridge Inventory Deletions	7
Summary of New, Rehabilitated, and Repaired Bridges	8-10
Listing of Posted and Closed Bridges	11-12
Listing of Bridges on Federal Aid Routes	13
Listing of Historical Structures	14
List of Bridges That Must Be Posted	15
List of Bridges That Must Be Closed	15
List of Bridges Requiring Posting Changes	15
List of Bridges Requiring Posted Sign Removal	15
Schedule of Safety Improvements	16-20
Bridges Requiring In-Depth Inspections	21-81
Summary of Bridge Types	82
Priority Schedule for Bridge Replacement, Rehabilitation, Widening, Repair, or Elimination	83-88
Listing of Bridges on Navigable Waterways	89
Structure Inventory & Appraisal (SI&A) Reports	194 Bridges
Appendix A - Description of Items on SI&A Reports	A1-A12
Appendix B - Abbreviations	B1
Appendix C – Additional Photographs	

INTRODUCTION AND SCOPE OF THE BRIDGE INSPECTION REPORT

The purpose of this report is to identify, locate, and provide a condition analysis for all Delaware County vehicular bridges of greater than 20 feet in length. Bridges owned by the Indiana Department of Transportation, railroad companies, park boards, private individuals, and footbridges have not been included. Bridges located on the west and north county lines are also not included due to a statute that places the responsibility for these bridges with the adjoining county.

This inventory and inspection of Delaware County bridges was conducted under the authority and requirements of the National Bridge Inspection Standards, established by the 1968 Federal-Aid Highway Act. The Bridge Inspection Report was prepared in accordance with criteria set out by the aforementioned AASHTO "Manual for Maintenance Inspection of Bridges", the Federal Highway Administration "Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges", the Indiana Department of Transportation, and the Delaware County Highway Department.

The previous Delaware County Bridge Inspection was completed in 2003. It is anticipated that this report will provide valuable assistance to Delaware County in recognizing and systematically addressing county bridge needs. The schedules that follow identify existing deficiencies, recommend corrective action, establish priorities, and project fiscal needs. Individual Structure Inventory and Appraisal (SI&A) reports with photographs of each bridge have been provided. In addition, a comprehensive Bridge Replacement and Rehabilitation Priority Schedule has been included to provide at-a-glance information for any of the Delaware County Bridges.

For the County's budgeting purposes, cost estimates are provided for all repair/replacement recommendations. The estimates are approximate 2005 costs which have been projected to the year the work is needed using a 5% inflation factor. Detailed financing recommendations are not within the scope of this report.

The scope of this study has limited the inspection findings to relatively evident deficiencies and has placed a great deal of emphasis on the judgment of the Engineer in responsible charge of the study. The Delaware County bridge inspection was conducted and the report prepared under the direction of a Registered Professional Engineer by a qualified inspector certified by the National Highway Institute and every effort was made to exercise a high level of professional judgment, but there is no guarantee that concealed or less apparent deficiencies were discovered in all cases. Ongoing observation and maintenance, especially of the low capacity or problem structures, is encouraged to detect and correct any pending failure conditions due to abuse from overloading or progressive deterioration.

Field notes, computation data, and other materials used in conducting this study are too voluminous to include within the pages of this report. All information is on file in the office of the Consulting Engineer, and copies of pertinent data for specific structures will be furnished upon request.

As mandated by Federal law, the inspection findings and recommendations for all bridges have been forwarded to the Indiana Department of Transportation.

It is our hope to be of assistance to Delaware County in implementing the recommendations contained in this report. The resolution of the problems outlined herein will have a major and direct bearing on the growth of Delaware County, both directly and indirectly, and on every citizen of Delaware County.

PERSONNEL LISTING

NAME/TITLE	QUALIFICATIONS	RESPONSIBILITIES
Robert M. Gray, P.E. Project Engineer/Manager	Previous experience as Project Engineer of other county bridge inspections.	Engineer-in-charge. Responsible for final evaluations, ratings, and recommendations. Also, final reviewer for report.
Gregory G. Ubelhor Team Leader/Inspector	Successfully completed the National Highway Institute Bridge Inspection Training Program and has completed training in Fracture Critical Inspection Techniques for Steel Bridges. Over 20 years experience in construction and bridge inspection. Engineering Intern, State of Indiana	Performed all on-site inspections. Made evaluations, collected and input data under the supervision of the Project Manager.
Marshall B. Weber	Over 20 years experience in drafting and detailing.	Updated maps.
Stacey L. Dietzen	Clerical experience.	Clerical.
Kelly C. Hawkins	Clerical experience.	Clerical.

BRIDGE INVENTORY ADDITIONS

Bridge 196 has been added to the inventory. It is an existing multi-plate arch underfill structure and carries County Road 200 West over No Name Creek. This bridge is similar in design and construction to Bridge 194 just to the south; the year built is based on the year-built indicated for Bridge 194.

INFORMATION FORM FOR BRIDGES ADDED TO FILE

BASIC INFORMATION

Bridge Number	196
Feature Intersected	No Name Creek
Inventory Route Number	41
Facility Carried (Name of Road)	County Road 200 West
County	Delaware

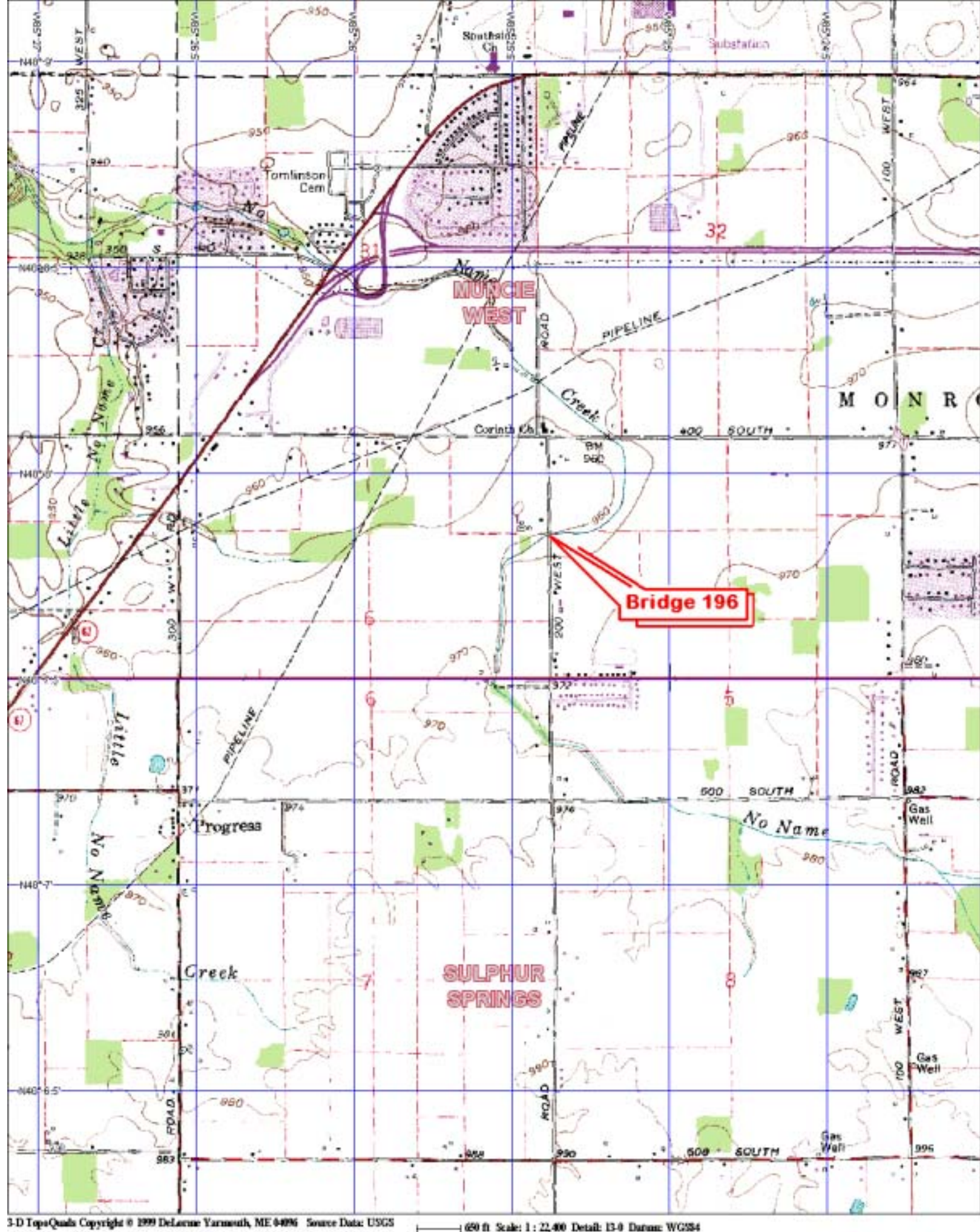
DETAILED INFORMATION

The location of the bridge relative to the nearest intersections:

0.2 mile northerly to Inventory Route Number 24, County Road 400 South

Bridge length: 20.3'

0.7 mile southerly to Inventory Route Number 18, County Road 500 South



BRIDGE INVENTORY DELETIONS

No Bridges Deleted

SUMMARY OF BRIDGES
(1) NEW, (2) REHABILITATED AND (3) REPAIRED

Category	Bridge #	Facility Carried	Feature Intersected	Location	Map
----------	----------	------------------	---------------------	----------	-----

1

00009	RD 1000 N	PIPE CREEK	1000N 800W	B-10
-------	-----------	------------	------------	------

Type of Work: A TIMBER SLAB BRIDGE HAS REPLACED THE SIMPLE STEEL BEAM BRIDGE SINCE THE LAST INSPECTION. THERE IS A FIELD ENTRANCE AT THE SOUTHWEST CORNER.

00038	RD 1100 N	REES DITCH	1100N 440E	H-11
-------	-----------	------------	------------	------

Type of Work: A TIMBER SLAB BRIDGE HAS REPLACED THE STEEL PONY TRUSS SINCE THE LAST INSPECTION. THERE ARE SOME CRACKS IN THE WEARING SURFACE. THE WATERPROOFING ON EXPOSED TIMBERS IS PALE COMPARED TO THAT ON SIMILAR BRIDGES.

00076	NORTH CENTER ROAD	MUD CREEK	610N 00E	F-8
-------	-------------------	-----------	----------	-----

Type of Work: A TIMBER SLAB BRIDGE WAS BUILT TO REPLACE THE ENCASED STEEL BEAM BRIDGE SINCE THE LAST INSPECTION. THE TIMBER RAIL IS SOMEWHAT HIGH AND NON-STANDARD. THERE IS A HEAVY BUILDUP OF CORNSTALKS AT THE NORTH BANK - UP TO 2' THICK.

Total Bridges for Category 1 : 3

2

00026	RD 1000 N	STUDEBAKER DI	1000N 180W	E-10
-------	-----------	---------------	------------	------

Type of Work: THE SUPERSTRUCTURE BEAMS HAVE STEEL BEARINGS WHICH DO NOT APPEAR TO BE ANCHORED TO THE SUBSTRUCTURE. THREE OF FOUR END MARKERS ARE MISSING. THERE IS CONDUIT ON THE NORTH COPING. THE TIMBER DECK HAS BEEN REPLACED WITH A CORRUGATED STEEL DECK WITH AN ASPHALT WEARING SURFACE SINCE THE LAST INSPECTION.

SUMMARY OF BRIDGES
(1) NEW, (2) REHABILITATED AND (3) REPAIRED

Category	Bridge #	Facility Carried	Feature Intersected	Location	Map
	00160	RD 566 E	PRAIRIE CREEK R	380S 566E	J-3
Type of Work:	THE OLD ABUTMENTS WERE REPLACED BY ENDBENTS, THE INTERIOR BENT CAP WAS REBUILT, AND THE CONTINUOUS REINFORCED CONCRETE SLAB SUPERSTRUCTURE WAS REPLACED BY MULTIPLE CONCRETE BOX BEAMS SINCE THE LAST INSPECTION. THE APPROACH RAIL IS LOW (22" TO 24") AND THE WOOD POSTS ARE SPACED AT 12' - 6". A FEW POSTS ARE ROTTED. THERE IS AN OPEN JOINT OVER THE INTERIOR BENT. THERE IS AN ASPHALT WEARING SURFACE ON THE BRIDGE DECK AND OVER THE CONCRETE APPROACH PADS. NO END MARKERS ARE POSTED. THE UNDERWATER INSPECTION IS NO LONGER REQUIRED FOR THE ENDBENTS; AN UNDERWATER INSPECTION IS STILL REQUIRED FOR THE INTERIOR BENT.				
	00172	RD 550 E	PRAIRIE CREEK R	510S 550E	J-2
Type of Work:	THE OLD ABUTMENTS WERE REPLACED BY ENDBENTS, THE INTERIOR BENT CAP WAS REBUILT, AND THE CONTINUOUS REINFORCED CONCRETE SLAB SUPERSTRUCTURE WAS REPLACED BY MULTIPLE CONCRETE BOX BEAMS SINCE THE LAST INSPECTION. THE APPROACH RAIL IS LOW (22" TO 24") AND THE WOOD POSTS ARE SPACED AT 12' - 6". THERE IS A JOINT OVER THE INTERIOR BENT. NO END MARKERS ARE POSTED. THE UNDERWATER INSPECTION IS NO LONGER REQUIRED FOR THE ENDBENTS; AN UNDERWATER INSPECTION IS STILL REQUIRED FOR THE INTERIOR BENT. AN ASPHALT WEARING SURFACE WAS PLACED IN LATE APRIL 2005; THERE ARE SOME AREAS WHERE THE SHOULDER IS LOW BETWEEN THE PAVEMENT AND THE APPROACH RAIL.				
	00510	WALNUT STREET	WHITE RIVER	75N 00E	F-4
Type of Work:	THE ABUTMENTS WERE WIDENED AND REBUILT, NEW PIERS WERE BUILT, AND A NEW SUPERSTRUCTURE WAS BUILT SINCE THE LAST INSPECTION. A 6" THICK CONCRETE SURFACE WAS CONSTRUCTED OVER EACH OF THE OLD ABUTMENTS FACES. THE PIERS ARE KEYED INTO ROCK. THE WEARING SURFACE HAS HAIRLINE TO NARROW TRANSVERSE CRACKS. THE SOUTH MUDWALL IS SPALLED. THE BRIDGE IS FLARED AT THE NORTH END. THE WEST SIDEWALK FEATURES A DECORATIVE PEDESTRIAN RAIL. THE BRIDGE ROADWAY WIDTH (ITEM 51) WAS PREVIOUSLY LISTED AS 68.9 FEET; THE WIDTH IS NOW LISTED AS 50.7 FEET, WHICH IS THE MORE RESTRICTIVE WIDTH AT THE SOUTH END OF THE BRIDGE.				
	00512	HIGH STREET	WHITE RIVER	30N 10W	F-5
Type of Work:	THE OLD SIMPLE STEEL BEAM SUPERSTRUCTURE IS BEING REPLACED WITH A COMPOSITE CONTINUOUS STEEL BEAM SUPERSTRUCTURE. THE BRIDGE IS BEING WIDENED IN ORDER TO PROVIDE TURN LANES. THE FOUNDATIONS FOR THE NEW PIER EXTENSIONS AND ABUTMENT EXTENSIONS ARE SPREAD FOOTINGS ON H-PILES. PAST INVENTORIES LISTED THE OLD FOUNDATIONS AS SPREAD FOOTINGS WITH NO PILES. THE PLANNED RAILS ARE A COMBINATION OF TEXAS RAIL AND A MODIFIED TYPE PS RAIL. AN ADDITIONAL 7.9' PEDESTRIAN WALK WILL BE PROVIDED ON THE LEFT SIDE OUTSIDE THE MODIFIED TYPE PS RAIL. A DECORATIVE PEDESTRIAN RAIL IS TO BE PROVIDED AT THE UPSTREAM COPING. ALL CONDITION RATINGS ASSUME GOOD WORKMANSHIP.				

Total Bridges for Category 2 : 5

SUMMARY OF BRIDGES
(1) NEW, (2) REHABILITATED AND (3) REPAIRED

Category	Bridge #	Facility Carried	Feature Intersected	Location	Map
	00085	RD 800 E	MISSISSINEWA RI	690N 800E	K-8
Type of Work: CRITICAL FEATURE INSPECTION IS REQUIRED ON FLOOR BEAMS, STRINGERS, AND TRUSS. THE BRIDGE RATTLES LOUDLY UNDER TRAFFIC. REPAIRS AND RETROFITTING HAVE BEEN DONE SINCE THE LAST INSPECTION. THREE END MARKERS ARE IN PLACE - ONLY ONE IS GOOD. SEE THE CRITICAL FEATURE INSPECTION REPORT FOR ADDITIONAL INFORMATION. LOAD RATING HAS BEEN CHANGED FROM 15 TONS DUE TO CONTINUED DETERIORATION AT HANGERS AND PRIMARY MEMBERS DESPITE REPAIRS.					

Total Bridges for Category 3 : 1

LISTING OF POSTED AND CLOSED BRIDGES

(K) CLOSED (P) POSTED

Category	Bridge #	Facility Carried	Feature Intersected	Location	Map	# Tons	Date Posted or Closed
----------	----------	------------------	---------------------	----------	-----	--------	-----------------------

K

00107	RD 700 N	MISSISSINEWA RIVER	700N 380E	H-9	00	12/ 03
00134	ABANDONED RD 750 W	WHITE RIVER	190S 750W	B-4	00	01/ 01

Total bridges in Category K : 2

P

00013	RD 1200 N	PIKE CREEK	1190N 375W	D-11	12	07/ 03
00016	RD 1275 N	BIG LICK CREEK	1275N 315W	D-11	10	07/ 03
00030	RD 1000 N	REES DITCH	1000N 290E	G-10	15	03/ 99
00035	RD 600 E	BOSMAN DITCH	1030N 600E	J-10	10	07/ 03
00040	RD 350 E	REES DITCH	1000N 350E	H-10	10	07/ 03
00045	RD 850 N	MISSISSINEWA RIVER	840N 440E	H-5	03	06/ 03
00049	RD 300 N	DRY BR KILLBUCK CREE	300N 960W	A-6	10	07/ 03
00064	RD 850 W	PLEASANT RUN CREEK	210N 850W	B-6	10	10/ 96
00085	RD 800 E	MISSISSINEWA RIVER	690N 800E	K-8	07	06/ 05
00087	RD 850 E	CAMPBELL CREEK	250N 850E	K-6	10	10/ 96
00088	RD 850 E	MUD CREEK	490N 850E	K-8	08	03/ 99
00103	RD 500 N	MUD CREEK	500N 840E	K-8	10	07/ 03
00108	RD 500 W	WILLIAMS CREEK	615S 500W	C-2	05	07/ 84
00112	RD 600 S	WILLIAMS CREEK	600S 360W	D-2	14	10/ 96
00118	RD 700 S	BELL CREEK	700S 555W	C-1	13	07/ 03
00127	RD 600 W	YORK PRAIRIE CREEK	25N 600W	C-5	10	10/ 96
00130	RD 300 S	WHITE RIVER	300S 870W	B-3	03	07/ 03
00137	RD 750 W	WHITE RIVER OVERFLO	200S 750W	B-4	10	07/ 03
00156	RD 625 E	BRANCH WHITE RIVER	120S 625E	J-4	10	08/ 84
00158	RD 120 S	MUD CREEK	110S 535E	J-4	10	08/ 84
00159	RD 300 S	PRAIRIE CREEK	300S 485E	H-3	10	07/ 03

Category	Bridge #	Facility Carried	Feature Intersected	Location	Map	# Tons	Date Posted or Closed
	00161	RD 170 S	WHITE RIVER	170S 615E	J-4	08	03/ 99
	00190	RD 200 W	NO NAME CREEK	385S 200W	E-3	10	07/ 03
	00191	RD 400 S	NO NAME CREEK	400S 180W	E-3	10	07/ 03
	00199	RD 700 S	MACEDONIA CREEK	700S 150E	G-1	10	07/ 03
	00204	RD 200 W	WILLIAMS CREEK	790S 200W	E-1	08	07/ 03
	00207	OLD STATE ROAD 3	LTL BUCK CREEK	790S 50E	F-1	10	07/ 03
	00226	RD 450 E	RELIEF	665S 450E	H-1	05	07/ 03
	00269	FLOYD DRIVE	NO NAME CREEK	340S 285W	E-3	10	07/ 03
	00503	MEEK AVENUE	WHITE RIVER	15N 25W	F-5	15	07/ 03
	00507	WAID AVENUE	MUNCIE CREEK	130N 60E	F-6	15	07/ 03
	00513	JACKSON STREET	WHITE RIVER	00N 65W	F-5	15	03/ 89
	00701	WATER STREET	HALFWAY CREEK	735N 800E	K-9	15	07/ 03

Total bridges in Category P : 33

LISTING OF BRIDGES ON FEDERAL AID ROUTES

No Records Found

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

Category	Bridge #	Year Built	Structure Type	Location	Map	Feature Intersected
3	00045	1902	310B	840N 440E	H-5	MISSISSINEWA RIVER
	00085	1905	310B	690N 800E	K-8	MISSISSINEWA RIVER
	00107	1925	310A	700N 380E	H-9	MISSISSINEWA RIVER
	00108	1920	310A	615S 500W	C-2	WILLIAMS CREEK
	00130	1902	310B	300S 870W	B-3	WHITE RIVER
	00161	1902	310B	170S 615E	J-4	WHITE RIVER

LIST OF BRIDGES THAT MUST BE POSTED

No Records Found

LIST OF BRIDGES THAT MUST BE CLOSED

No Records Found

LIST OF BRIDGES REQUIRING POSTING CHANGES

No Records Found

LIST OF BRIDGES REQUIRING POSTED SIGN REMOVAL

No Records Found

SCHEDULE OF SAFETY IMPROVEMENTS

BRIDGE NUMBER	ONE LANE	NARROW BRIDGE	GUARD RAIL	APPROACH RAIL	BRIDGE END MARKERS	SPEED LIMIT	CURVE SIGNS	ADV. WARNING, LOAD LIMIT SIGNS	NO TRUCKS	OTHER
00001				X	X					ADD CURB TRANSITIONS
00002			X	X	X					
00003			X	X	X					ADD CURB TRANSITIONS
00005			X	X	X					REPLACE BURIED END POST
00006			X	X	X					
00008			X	X	X					REPLACE TERMINAL RAIL POSTS
00009			X	X	X					
00012				X	X					ADD POSTS & CURB TRANSITIONS
00013			X	X	X					
00014										
00015				X						
00016			X	X	X					
00017				X	X					
00018				X	X					ADD CURB TRANSITIONS
00020				X	X					
00021				X	X					ADD RAIL & CURB TRANSITIONS
00022			X	X						
00026				X	X					
00027					X					
00029					X					REPAIR THE RAIL
00030					X					
00031				X	X					ADJUST APPR RAIL HT, ADD POSTS
00032				X						
00033			X	X	X					ADD POSTS & CURB TRANSITIONS
00034			X	X	X					
00035			X	X	X					
00037					X					ADD END TREATMENTS
00038			X	X	X					
00039					X					ADD END TREATMENTS, TRANSITIONS
00040			X	X	X					
00041										
00042				X	X					
00043			X	X						
00044					X					
00045			X	X	X					REPAIR RAIL POSTS
00046			X	X	X					
00047			X	X	X					REPLACE ROTTED POSTS; ADD RAIL
00048			X	X	X					
00049				X	X					
00050				X	X					
00051				X	X					
00052					X					
00053				X	X					ADD APPR POSTS, SHLDR MATERIAL
00054				X						ADD CURB TRANSITIONS
00055				X						ADD CURB TRANSITIONS
00056			X	X						ADD CURB TRANSITIONS

SCHEDULE OF SAFETY IMPROVEMENTS

BRIDGE NUMBER	ONE LANE	NARROW BRIDGE	GUARD RAIL	APPROACH RAIL	BRIDGE END MARKERS	SPEED LIMIT	CURVE SIGNS	ADV. WARNING, LOAD LIMIT SIGNS	NO TRUCKS	OTHER
00057			X	X	X					REPLACE BOLTS IN RAIL
00058			X	X						WIDEN APPROACH SHOULDERS
00059				X	X					
00061			X	X	X					UPDATE TRANSITIONS, ADD POSTS
00062					X					
00063			X	X	X					ADJUST RAIL HEIGHT, ADD POSTS
00064			X	X	X					WIDEN APPROACHES
00065			X	X	X					ADD CURB TRANSITIONS
00066										
00067					X					
00068				X						
00069				X						WIDEN DECK
00070					X					ADD POSTS AT CORNERS
00072										ADD POSTS AT CORNERS
00073			X	X	X					
00074			X	X	X					REPLACE NUTS ON RAIL POSTS
00075				X	X					ADD CURB TRANSITIONS
00076			X	X	X					
00082				X	X					ADD CURB TRANSITIONS
00084				X	X					ADD APPR POSTS AND TRANSITIONS
00085			X	X						
00086			X	X						
00087				X	X					
00088			X	X						
00089				X	X					UPDATE TRANSITIONS
00090					X					
00091				X	X					WIDEN APPROACHES
00092				X	X					ADD CURB TRANSITIONS
00093				X	X					
00095					X					REPLACE LENGTH OF DAMAGED RAIL
00097			X	X	X					ADD BOTTOM RAIL OR ADJUST HT
00098					X					
00099				X						ADD CURB TRANSITIONS
00100				X						ADD RAIL AND CURB TRANSITIONS
00101					X					ADD SOUTHWEST RAIL COUPLING
00103			X	X						
00105				X	X					TRANSITION FROM RAIL TO CONC
00106			X	X	X					TRANSITIONS, END TREATMENTS
00107			X	X						
00108										
00109			X	X	X					REPAIR WEST BRIDGE RAIL
00110				X	X					ADD CURB TRANSITIONS
00111				X	X					
00112			X	X	X					
00113					X					
00115				X	X					ADD CURB TRANSITIONS

SCHEDULE OF SAFETY IMPROVEMENTS

BRIDGE NUMBER	ONE LANE	NARROW BRIDGE	GUARD RAIL	APPROACH RAIL	BRIDGE END MARKERS	SPEED LIMIT	CURVE SIGNS	ADV. WARNING, LOAD LIMIT SIGNS	NO TRUCKS	OTHER
00118			X	X						
00120				X	X					ADD CURB TRANSITIONS;ADD POSTS
00121					X					ADD RAIL POST AT EACH CORNER
00122			X							
00123				X	X					
00124					X					ADD TRANSITION ALUM-CONC
00125				X	X					WIDEN APPROACH SHOULDERS
00126			X	X	X					ADD NW END TREATMENT
00127				X	X					
00128			X	X	X	X				ADD APPROACH RAIL POSTS
00129			X	X	X					REPLACE NUTS IN SW RAIL
00130			X	X						
00131					X					
00132				X	X					
00133				X	X					ADD CURB TRANSITIONS
00134			X	X						REFLECTIVE TAPE AT BARRICADES
00135				X	X					
00137			X	X	X					
00138				X	X					ADD CURB TRANSITIONS
00139					X					
00140			X	X						
00141				X	X					
00143				X	X					
00144										ADD EARTHEN CURB TRANSITIONS
00146					X					CONSIDER CONCRETE BRIDGE RAIL
00148										
00149			X		X					REPAIR BRIDGE RAIL
00152					X					
00153			X	X	X					
00156				X						
00158			X	X	X					
00159			X	X						
00160				X						ADD POSTS AT TRANSITIONS
00161				X	X					
00163					X					
00164				X	X					TRANSITION-STEEL TO CONC RAIL
00165				X						ADD CURB TRANSITIONS
00167			X	X	X					
00168										
00169					X					
00170				X	X					ADD CURB TRANSITIONS
00171				X	X					ADD CURB TRANSITIONS
00172				X	X					ADD POSTS AT TRANSITIONS
00177					X					
00179				X	X					
00180										

SCHEDULE OF SAFETY IMPROVEMENTS

BRIDGE NUMBER	ONE LANE	NARROW BRIDGE	GUARD RAIL	APPROACH RAIL	BRIDGE END MARKERS	SPEED LIMIT	CURVE SIGNS	ADV. WARNING, LOAD LIMIT SIGNS	NO TRUCKS	OTHER
00183				X	X					
00187										
00189										
00190			X	X	X					
00191			X	X	X					
00192					X					
00193					X					ADD LANE MARKINGS
00194			X	X	X					
00195					X					
00196			X	X	X					
00197					X					
00198			X	X	X					ADD CURB TRANSITIONS
00199			X	X	X					
00200					X					
00201			X	X	X					
00202			X	X	X					INSTALL RAIL BLOCKOUTS
00204			X	X	X					
00205				X	X					ADD CURB TRANSITIONS
00207			X	X						
00209					X					TRANS POSTS AND 2 END T'MENTS
00210			X	X	X					REPLACE ROTTED POSTS
00213			X	X	X					ADD POSTS, REMOUNT RAIL
00224					X					UPDATE TRANSITIONS
00226			X	X	X					
00244				X	X					
00245				X						
00268				X	X					ADD CRASH ATTENUATOR
00269			X	X						
00270				X						ADD CURB TRANSITIONS
00271				X						ADD TRANSITION POSTS
00272										
00273			X	X						
00274			X	X	X					
00275			X	X	X					
00501				X						
00502				X	X					ADD SIDEWALK TRANSITIONS
00503				X						
00504										
00505					X					
00506										
00507				X	X					
00508										UPDATE TRANSITIONS
00509										
00510										
00511					X					
00512			X	X						

SCHEDULE OF SAFETY IMPROVEMENTS

BRIDGE NUMBER	ONE LANE	NARROW BRIDGE	GUARD RAIL	APPROACH RAIL	BRIDGE END MARKERS	SPEED LIMIT	CURVE SIGNS	ADV. WARNING, LOAD LIMIT SIGNS	NO TRUCKS	OTHER
00513				X						INSTALL PEDESTRIAN HANDRAILS
00514										
00515			X	X	X					
00516										ADD ONE END TREATMENT
00517				X						
00518				X	X					
00519				X	X					TRANSITIONS, APPR RAIL POSTS
00520				X						UPDATE TRANSITIONS
00602			X	X	X					
00701				X						ADD CURB TRANSITIONS

Master List - Bridges Requiring In-Depth Inspection

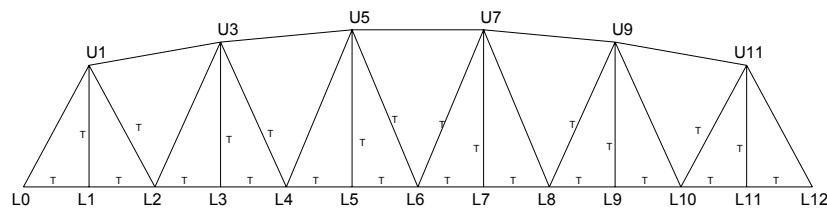
<u>Bridge #</u>	<u>Non-Redundant (Frequency)</u>	<u>Underwater (Frequency)</u>	<u>Other (Frequency)</u>
00014	N	Y48	N
00020	N	Y48	N
00021	N	Y48	N
00039	N	Y48	N
00045	Y06	N	N
00058	N	N	Y12
00084	N	Y48	N
00085	Y12	N	N
00107	Y24	Y48	N
00108	Y24	N	N
00123	N	Y48	N
00124	N	Y48	N
00127	N	N	Y12
00130	Y06	N	N
00134	Y24	N	N
00141	N	Y48	N
00148	N	Y48	N
00149	N	Y48	N
00152	N	Y48	N
00159	Y12	N	N
00160	N	Y24	N
00161	Y06	N	N
00172	N	Y24	N
00193	N	Y48	N
00204	Y12	N	N
00226	Y06	N	N
00504	N	Y48	N
00510	N	Y60	N

<u>Bridge #</u>	<u>Non-Redundant (Frequency)</u>	<u>Underwater (Frequency)</u>	<u>Other (Frequency)</u>
00512	N	Y48	N
00513	N	Y48	N
00514	N	Y48	N
00516	N	Y48	N

DELAWARE COUNTY CRITICAL FEATURE INSPECTION DETAILS

Bridge No.	45
Frequency (months):	6
Members to be Inspected:	Floor beams, lower chords, stringers, bearings, and connections
Inspection Procedures:	Visually and tactually conduct an inspection for section loss, cracks, or other signs of failure.
Date of Inspection:	3/30/2005
Inspection Findings:	Heavy rust with section loss was observed on the truss connections, lower chords, floorbeams, and the stringers. Two floorbeams have significant section loss in webs and flanges – these have been repaired with the addition of two beams at each location and modifications to the connections. One vertical member has been damaged by collision. The southeast end post is corroded at the lower end for a length of approximately 2 feet; the northwest end post is damaged in a similar fashion – repairs have been made. Several cracks were found in lower connection angles at the corners of the angles or across the rivet holes; modifications have been made at these connections.

Details:



T= tension member

west

east

Critical Feature Inspections

South side

L0 Rust – generally fair condition.

L1 Rust – generally fair condition

- L2 Pack rust.
 Section loss at loop bars (approx. 20%).
 Section loss at compression members (approx. 30%).
 Deck steel welded to loop bar – weld is cracked and bar is snapped (picture).
 The outside retaining nut on the pin is not completely on.
- L3 Retrofitted hanger assembly is welded to the old steel (picture).
 Bridge rail U-bolt welded to the vertical member.
- L4 Heavy pack rust.
 Section loss in lower chord loop bars (20%).
 Section loss in diagonal loop bar, % indeterminable (approx. 50%).
 Deck steel is welded to lower chord, cracked.
- L5 New floor beam and hanger, old vertical and pin (rusted and pitted).
 The bridge rail U-bolt is welded to the vertical.
- L6 Heavy rust and section loss in the top flange of the floor beam.
 Deck steel is welded to the lower chord; connection is cracked.
 Lower chord loop bars are rusted and pitted; no significant section loss.
- L7 The bridge rail U-bolt is welded to the vertical.
 Section loss at the loop bar (25%).
- L8 Extreme pack rust at the diagonal loop bars with serious section loss – the percent of loss
 is indeterminable. Repairs are in order.
 The lower chords (L7-L8) have heavy section loss – percent indeterminable.
 The deck steel is welded to the compression member.
- L9 New floor beam and hanger, old vertical and pin (rusted and pitted).
 The vertical member has been bent by collision.
 Bridge rail U-bolts welded to the vertical member – the lower weld is cracked.
- L10 Floor beam flanges are rusted with section loss, especially at the top. An area of section
 loss found 2.5' from the end in the web near the bottom flange.
 Heavy pack rust. Section loss in loop bars – percent indeterminable (approx. 25%).
 Deck steel welded to the loop bar of the lower chord – weld is cracked.
- L11 Bridge rail is welded to the vertical member at the bracket.
 A splice weld covers two holes in the vertical member (picture).
 A hole in the vertical has been torched through the member resulting in 60% section loss
 (picture).
 A retrofitted hanger is welded to the old hanger.
 The floor beam consists of two beams – one on either side of the old floor beam.
- L12 Debris holds moisture.
 Heavy rust at the pin and loop bars. Section loss is indeterminable but not serious.

North side

- L0 Heavy rust at the loops and pin. Minor section loss.
 Debris holds moisture.
- L1 Light rust, pitted.

- L2 Deck steel welded to the loop bar and compression member.
Heavy pack rust with section loss in the compression member connection.
Section loss in loop bars – percent indeterminable - estimated 40% in diagonals. (Picture)
- L3 Retrofitted hanger welded to the “old” hanger – the old hanger appears to be weldable metal.
The loop at the vertical member is rusted with moderate section loss; the pin is rusted.
Bridge rail U-bolt is welded to the vertical member.
- L4 Heavy pack rust and section loss (percent indeterminable) – appears moderate at the inside diagonal and heavy at the outside diagonal (approx. 50%).
- L5 Moderate rust.
The floor beam and hanger have been replaced; the old pin and vertical member remain.
- L6 The deck steel is welded to the loop bar and connection plate.
Moderate section loss in the lower chord loop bars.
Heavy section loss in the plate connections – repair is recommended.
A loop rod has been retrofitted as a hanger.
- L7 Bridge rail U-bolt is welded to the vertical member; there is a possible crack at the base of the weld. (picture)
Moderate rust at connections.
- L8 Welded connection from deck to loop bar and plate.
Pack rust at the inside loops: diagonal member has heavy section loss – percent indeterminable (estimated less than 40%).
- L9 Bridge rail U-bolt is welded to the vertical member; there is a possible crack at the base of the weld.
There is collision damage to the vertical member – bent. The bottom U-bolt is knocked loose; it had been welded to the vertical member.
New floor beam and hanger, old vertical and pin.
- L10 The deck steel is welded at the loop bar and plate; the connector is cracked.
There is 50% section loss in the plates at the compression member.
The diagonal loop bars have pack rust and moderate to heavy section loss (percent indeterminable).
The hanger is a retrofitted loop rod.
- L11 A retrofitted hanger is welded to the old hanger.
Moderate rust.
- L12 Heavy rust at the loops and the pin.
Debris holds moisture.

Stringers

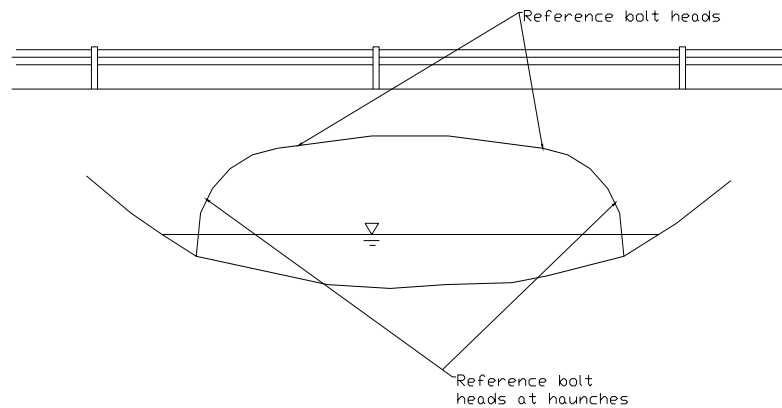
One stringer in the east span is rusted through at the web.

Other stringers are heavily rusted with delamination and section loss.

Follow up Action: The Structure Inventory and Appraisal Report was updated.

DELAWARE COUNTY CRITICAL FEATURE INSPECTION DETAILS

Bridge No. 58
 Frequency (months): 12
 Members to be Inspected: Multi-plate Arch
 Inspection Procedures: Monitor the deflection in the arch and check for signs of failure such as additional bolt-hole tears.
 Date of Inspection: 4/18/05
 Inspection Findings: The multi-plate metal arch has significant deflection. The arch was marked and measured from the water level to establish relative elevations at various points. Bolt heads were painted at ten-foot intervals and numbered 1 to 7 from west to east. Adjacent bolt heads at the haunches were also measured from the water level.



<u>Location #</u>	<u>South side</u>	<u>North side</u>	<u>South haunch</u>	<u>North haunch</u>
1	5.77'	5.51'	1.42'	1.00'
2	5.57'	5.15'	1.55'	1.05'
3	5.44'	5.05'	1.65'	1.15'
4	5.35'	5.46'	1.30'	1.40'
5	5.52'	5.94'	1.52'	1.90'
6	6.04'	6.21'	1.95'	2.10'
7	6.55'	6.46'	2.20'	2.05'

In addition, the metal arch was torn or otherwise damaged at the following bolt heads numbered from west to east at the bottom row of bolts:

South side

29-31, 52	-	start of tear around bolt
64	-	bolt torn thru arch
52, 63, 69, & 75	-	bolt is gone

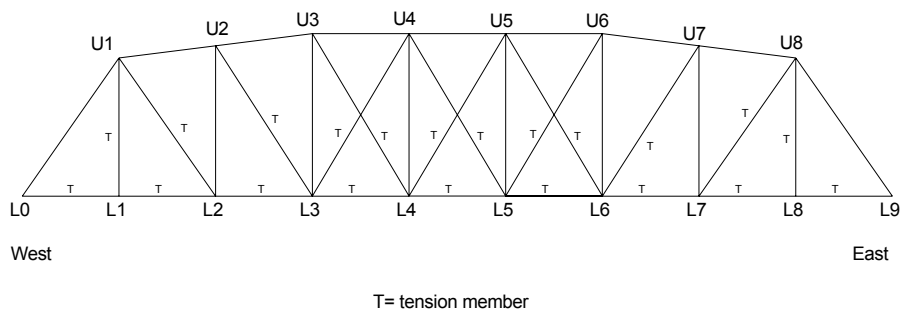
North side

26, 29, 34, & 40	-	start of tear around bolt
57-62, 64, & 66-68	-	start of tear w/ emanating cracks
35 (and next bolt up)	-	bolt is gone

Follow up Action: The Structure Inventory and Appraisal Report was updated.

DELAWARE COUNTY CRITICAL FEATURE INSPECTION DETAILS

Bridge No.	85
Frequency (months):	6
Members to be Inspected:	Floor beams, lower chords, stringers, and bearings
Inspection Procedures:	Visually and tactually conduct an inspection for section loss, cracks, or other signs of failure.
Date of Inspection:	3/29/2005
Inspection Findings:	Heavy rust was observed throughout the truss. Severe rust and section loss was detected at many lower connections. The vertical members of the truss have significant section loss at the pinned connection to the lower chord. Some section loss was also detected in the lower chord members at the pinned connections. The structure rattles under normal automobile traffic. The truss connections near the bearings are in fair condition; the southwest corner was recently repaired.



Details:

The truss has been retrofitted with vertical rods and connections. The floor beams have been retrofitted with plates at the lower flanges. New stringers have been added.

Two eyebars per chord. 10 lower panel points numbered 0-9 (west to east)

Lower chord dimensions (outer chords to inner chords):

3/4" x 4"
3/4" x 4"
7/8" x 5"
15/16" x 5"
1-1/16" x 5"

South Side

- L0 Severe rust at and around the pin; repair is in order.
- L1 Section loss (50%) at the old hanger.
Severe pack rust.
Section loss in the lower chord (percent indeterminable).
- L2 Severe pack rust.
Section loss in lower chord (percent indeterminable – less than 20%)
- L3 Severe pack rust.
Section loss in lower chords (percent indeterminable).
Section loss in old hangers (percent indeterminable).
- L4 Severe pack rust.
Section loss in the hanger – 80% at the inside plate (above the lower chord).
Other section loss in the lower chord and hanger (percent indeterminable).
- L5 Extreme pack rust all over.
Section loss in the lower chords is heavy (percent indeterminable).
Section loss in hangers above the lower chords over 80% - does not affect the connection.
- L6 Extreme pack rust.
Section loss in plate 100% above the lower chord.
Other section loss in the hanger and lower chords is indeterminable.
- L7 Section loss in the pin.
Heavy pack rust; section loss percent indeterminable.
- L8 Heavy pack rust.
Section loss 40% below the lower chord in the hangers.
- L9 Pin is heavily rusted.
Heavy pack rust.

North Side

- L0 Inside lower chord has approx. 30% section loss.
- L1 Severe pack rust, significant section loss in hangers (percent indeterminable – estimated 60% or greater) and lower chord eye bars (percent indeterminable – estimated 30%).
- L2 Severe pack rust, heavy section loss in hangers (up to 100%) and eye bars (indeterminable – estimated 30%). A butt-welded plate was added.
- L3 Severe pack rust. Heavy section loss in eye bars (percent indeterminable – estimated 40%). The outside hanger has nearly 100% section loss around the rivets and a crack in the corner. The inside hanger has indeterminable amount of section loss with a welded plate extension.
- L4 Severe pack rust. Heavy section loss in eye bars (percent indeterminable – estimated 40%). The outside hanger has up to 90% section loss around the rivets.

The inside hanger has indeterminable amount of section loss with a butt-welded plate extension.

The hanger has heavy section loss below the lower chord.

- L5 Severe pack rust. Heavy section loss in the eyebars (percent indeterminable – estimated 30-40%).
The diagonals are pitted with rust.
The hanger is heavily rusted with indeterminable section loss.
- L6 Severe pack rust; heavy section loss in the eyebars (percent indeterminable – estimated 30-40%).
Hangers have heavy section loss. The inside has a welded plate extension; the outside has 80-90% section loss (percent indeterminable).
- L7 Heavy pack rust.
Eyebars have some section loss.
Hanger has heavy section loss.
- L8 Heavy pack rust.
Heavy but indeterminable section loss in eyebars and hangers.
- L9 One eyebar rusted through; repaired.
Outside eyebar is heavily rusted with up to 30% section loss.

Floor Beams

The floor beams have been reinforced at the bottom flange. At L8, the lower flange has section loss near the south end.

Verticals

Several of the verticals have webs which are rusted through at the connection to the sway brace bracket: N2, N5, N6, N7 S4, S5, and S6.

Follow up Action: The Structure Inventory and Appraisal Report was updated.

DELAWARE COUNTY CRITICAL FEATURE INSPECTION DETAILS

Bridge No. 107
Frequency (months): 24
Members to be Inspected: Abutments at bearing locations, floor beams, lower chords, and stringers
Inspection Procedures: Conduct an inspection for section loss, cracks, or other signs of failure. Verify that the bridge is properly barricaded.
Date of Inspection: 3/30/2005
Inspection Findings: Due to advanced deterioration, the bridge has been closed. The bridge is properly barricaded and advance notice is in place near the intersections.
Follow up Action: The Structure Inventory and Appraisal Report was updated.

Bridge No. 108
Frequency (months): 24
Members to be Inspected: Abutments, floor beams, lower chords, stringers, and bearings
Inspection Procedures: Visually and tactually conduct an inspection for section loss, cracks, or other signs of failure.
Date of Inspection: 3/18/2005
Inspection Findings: The structure was repaired in 1999. Paint is failing, especially at welded repair areas. Some section loss is present at floor beam connection plates. Paint failure will cause rust and section loss to resume. One diagonal chord was trimmed with a torch at the time of guardrail placement. Some section loss was detected at the end posts near the seat. Section loss was detected below the plate at an upper connection. The north joint has two holes in the elastomeric joint material.
Follow up Action: The Structure Inventory and Appraisal Report was updated.

DELAWARE COUNTY CRITICAL FEATURE INSPECTION DETAILS

Bridge No. 127
Frequency (months): 12
Members to be Inspected: Precast concrete channel beams
Inspection Procedures: Visually and tactually conduct an inspection for section loss, cracks, spalling, or other signs of failure.
Date of Inspection: 4/01/2005
Inspection Findings: The precast concrete channel beams are efflorescing and spalling extensively. Numerous channel beams have exposed reinforcing steel.
Follow up Action: The Structure Inventory and Appraisal Report was updated.

Bridge No. 130
Frequency (months): 6
Members to be Inspected: Floor beams, lower chords, stringers, and bearings
Inspection Procedures: Visually and tactually conduct an inspection for section loss, cracks, or other signs of failure.
Date of Inspection: 4/01/03
Inspection Findings: The floor beams and stringers were replaced in 2000 and are in good condition. The lower connections were also repaired in 2000. The bearings at each corner are encased in concrete prohibiting proper inspection of the lower chord end connections. The vertical truss diagonal at the northwest bearing also has advanced section loss due to heavy rust; a plate was welded onto the flange as a means of repair. One vertical member has some collision damage. The structure rattles loudly under automobile traffic. The connections between the overhead cross braces and vertical truss members are failing.

Details:

The truss has had some repairs.

Two to four loop bars per lower chord. 12 lower panel points numbered 0-11 (west to east)

South Side

- L0 Minor section loss in the lower chords.
- L1 Section loss in the pin - less than 20%.
Retrofitted hanger welded to the old vertical.

- L2 Section loss in the pin - less than 20%.
Section loss in the diagonal loop bars – less than 20%.
Retrofitted hanger.

- L3 Lower chords are pitted with section loss.
Pack rust.
Section loss in the pin - less than 20%.
Four loop bars in lower chord to L4.

- L4 Four loop bars at lower chord in each direction – pack rust, less than 20% section loss.
Diagonals are rusted but in fair condition.
One of two diagonals to U5 has 25% section loss – appears to have been torched.
Crack at the inside retaining nut.

- L5 Four loop bars at lower chord in each direction – rust, less than 20% section loss.
Three of four diagonals are good; the outside diagonal to U6 has heavy section loss of 30%.

- L6 Four loop bars at lower chord in each direction – rust, 30% section loss in one, less than 20%
section loss in the others.
Minor section loss in the pin.

- L7 Four loop bars at lower chord in each direction – pack rust, 20% section loss.
Minor section loss in the pin.
1/8” deep surface defect in diagonal to U8.

- L8 Four loop bars at lower chord to L7 – pack rust, 20% section loss.
Four loop bars at lower chord to L9 – pack rust, 20% section loss.
The retrofitted hanger has very thin sections: 4 each at 1/4” x 3/4” to 1” sloppily welded.
Minor section loss in the pin.
20% section loss in one of two diagonals to U9.

- L9 20-30% section loss in pin.
20% section loss in lower chord.
20% section loss in diagonal to U10.

- L10 Heavy rust, section loss at the pin.
Otherwise, good.
Retrofitted hanger welded to the loop bar vertical.

- L11 Buried in concrete.

North Side

- L0 Lower chord buried in concrete: no apparent problems.

- L1 Pin sleeve rusted through; some section loss of pin.

- L2 Heavy rust, minor section loss (less than 10%) at the lower chords and diagonals.
10% section loss in pin.

- L3 10% section loss in pin.
Four loop bars in lower chord to L4; minor section loss in loop bars.

- L4 Four loop bars in lower chords in each direction; 20% section loss in one loop bar.
 Minor section loss in diagonals.
 Some section loss in pins.

- L5 Section loss in one of two diagonals to U6 approaching 40%.
 Minor section loss in others diagonals.
 Four loop bars in lower chords in each direction; minor section loss in loop bars and pin.

- L6 Four loop bars in lower chords in each direction; minor section loss in loop bars and pin.
 Diagonals are rusty.

- L7 Diagonals are rusty.
 Four loop bars in lower chords in each direction; pack rust with minor section loss.
 10% section loss in pin.

- L8 Two loop bars in lower chord to L9; 25% section loss.
 Diagonals to U9 are good with some rust.

- L9 Two loop bars in lower chord in each direction; less than 10% section loss.
 Diagonals are rusty with 10% section loss.

- L10 Lower chords are good.
 Hanger is welded to the vertical loop bar.
 The pin has 15% section loss.

- L11 Lower chord is buried in concrete.
 10% section loss in one lower chord.

Follow up Action: The Structure Inventory and Appraisal Report was updated.
 The load limit remains 3 tons.

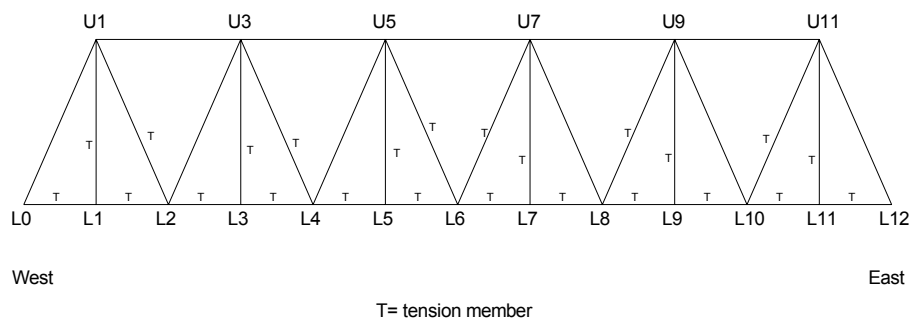
DELAWARE COUNTY CRITICAL FEATURE INSPECTION DETAILS

Bridge No. 134
Frequency (months): 24
Members to be Inspected: Floor beams, lower chords, bearings, connections, timber deck, and deck connections.
Inspection Procedures: Conduct an inspection for section loss, cracks, or other signs of failure.
Date of Inspection: 4/01/2005
Inspection Findings: This structure is the old Bridge Number 131 and was replaced by a new structure approximately 100' upstream. The structure is closed to traffic due to advanced deterioration. The bridge is barricaded at both ends. Additional reflective material should be placed at the southbound barricade.
Follow up Action: The Structure Inventory and Appraisal Report was updated.

Bridge No. 159
Frequency (months): 12
Members to be Inspected: Damaged prestressed box beams at south side.
Inspection Procedures: Visually and tactually conduct an inspection for section loss, cracks, spalling, or other signs of failure.
Date of Inspection: 5/02/2005
Inspection Findings: Both box beams on the south side are heavily spalled along the coping. The west beam is leaching badly and has two longitudinal cracks approximately 15 feet long, 1/2" wide and widening in the bottom of the beam. The tops and sides of the south beams have developed large holes due to deterioration. The north beams are damaged by collision. There is excessive dead load on the beams due to the thickness of the asphalt wearing surface. There is a spall at the second beam from the north approximately midspan in the east span. This may be indicative of deterioration in the inside beams as well. The tops of all the beams should be stripped of asphalt and inspected due to conditions found in the south outside beams.
Follow up Action: The Structure Inventory and Appraisal Report was updated.

DELAWARE COUNTY CRITICAL FEATURE INSPECTION DETAILS

Bridge No.	161
Frequency (months):	6
Members to be Inspected:	Floor beams, lower chords, stringers, and bearings
Inspection Procedures:	Visually and tactually conduct an inspection for section loss, cracks, or other signs of failure.
Date of Inspection:	5/5/2005
Inspection Findings:	The trusses are rusted throughout. The lower chord has rust with some section loss; some of the lower connections have been repaired. There is significant section loss at some plates and truss members. The structure rattles under light automobile traffic at the east end. The stringers and timber deck are in good condition. The floorbeams and bearings are in adequate condition; they were painted but have rust showing through the paint. The floor beam over the east abutment is rusted through at the web and deflects significantly under load; the two middle supports under the beam are not adequately supporting the beam. Several plates have welded brackets that at one time were used to secure the deck; no cracks were found around the welds.



South Side

- L0 Rust, light section loss. The chords are rusted with light section loss. The floor beam has heavy rust and delamination.
- L1 Rust, light section loss, welds present. The vertical has been replaced – not original. The chord to L2 has rust and light section loss.
- L2 Extreme pack rust. Welds at the plate.
- L3 Some pack rust between the plate and chords. The lower chord to L4 is good with some rust and section loss at the ends.
- L4 Weld at the plate. Light section loss. Lower chord to L5 is pitted with 20% section loss in one member: the east end has one leg rusted through at L5.
- L5 Pack rust. One rivet head popped off. Weld at the plate. Lower chord to L6 is rusted, pitted with section loss: rust through one leg at the west end.
- L6 Welds at plate. Lower chord to L7 has rust-through at one leg: heavy rust, section loss in and outside leg, 20% section loss in one leg.
- L7 Heavy pack rust between the plate and lower chord. The lower chord to L8 has heavy rust with section loss less than 20%.
- L8 Pack rust at the perimeters of members. Weld at plate. Lower chord to L9 is fair with rust and minor section loss.
- L9 Weld at the plate. Pack rust between the plate and lower chord. The lower chord to L10 has rust and section loss at the ends.
- L10 Extreme pack rust. Section loss in the diagonal to U11. The lower chord to L11 is okay – newer.
- L11 Okay. The lower chord to L12 is okay – newer.
- L12 The floor beam is essentially failed.

North Side

- L0 Rust and section loss up to 30% in the plate around the lower chord. The lower chord to L1 is good. The floor beam has heavy rust and delamination.
- L1 Some rust. Weld at plate. Section loss in three rivet heads. Section loss in the web of the floor beam near the lower flange. The lower chord to L2 is good.
- L2 The diagonal to U1 has a 1” hole burned in one leg and approximately 50% section loss in one leg in each of the four members. The plate has varying section loss up to 50%. One weld at the plate. The lower chord to L3 is good.
- L3 Section loss around one bolt at the lower end of the vertical member. Otherwise, light rust. The lower chord to L4 is good with light rust.

- L4 Section loss in the plate varies up to 40% at the lower chord connection. The lower chord to L5 is good.
- L5 Pack rust between the plates and chords. Weld at the plate. The lower chord to L6 is good.
- L6 Section loss in the plates varies up to 60% around the lower chords. Weld at the plate. The lower chord to L7 is good.
- L7 Moderate pack rust between the plates and the lower chords. The lower chord to L8 is good. The floor beam has a damaged bottom flange.
- L8 Minor section loss in the plate. Weld at the plate. The diagonal to U9 has moderate section loss in the flanges. The lower chord to L9 is good.
- L9 Moderate pack rust between the plates and lower chords. The lower chord to L10 is good
- L10 Two welds. Heavy pack rust at the diagonal to U11. Section loss in the plates is minor around the lower chord to L9 and heavier around the diagonals: 50% at the outer plate, 20% at the inner plate.
- L11 Weld at the plate. Light rust. The lower chord to L12 has moderate rust.
- L12 Moderate rust. Floor beam is failed.

Follow up Action: The Structure Inventory and Appraisal Report was updated.

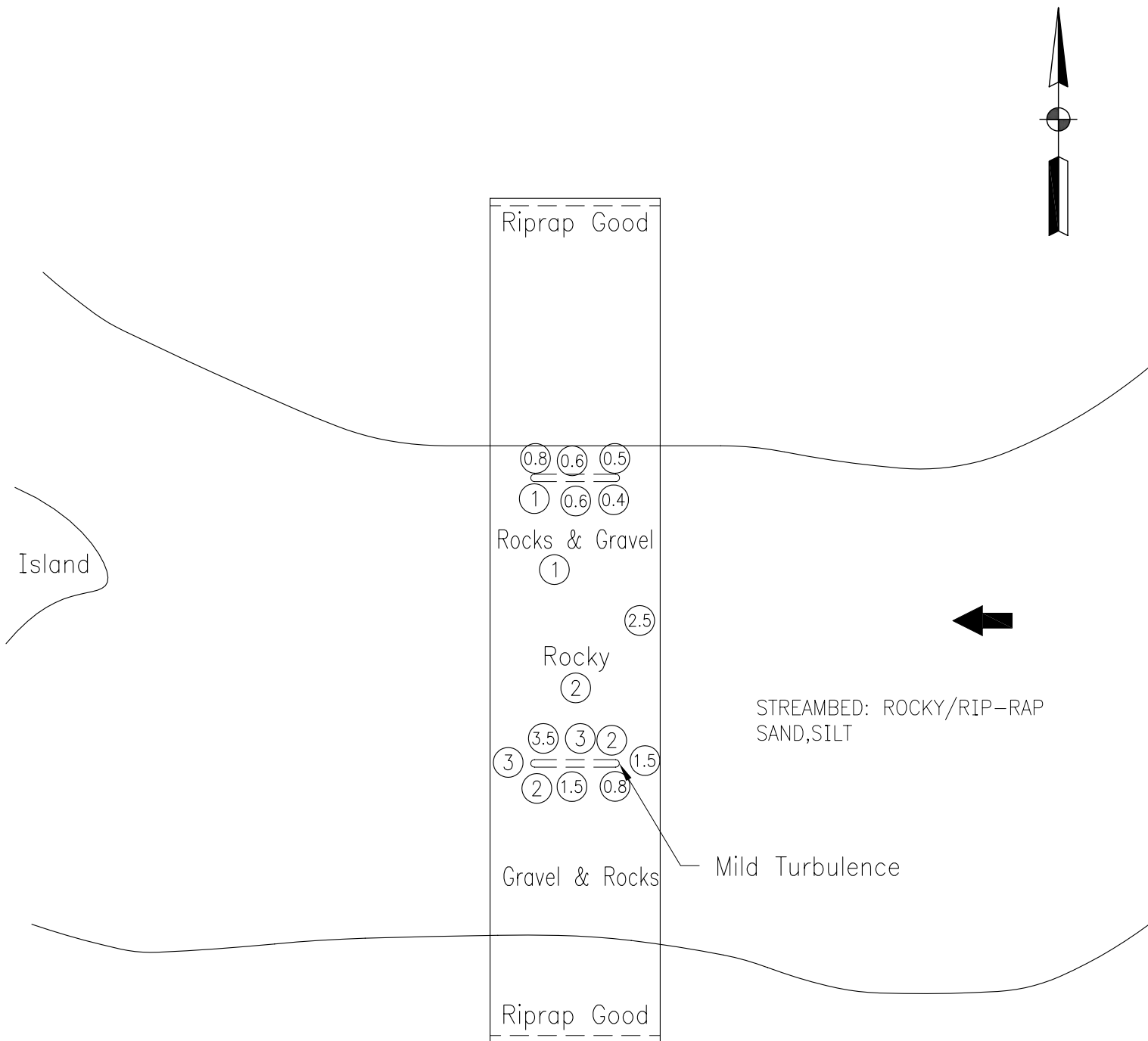
DELAWARE COUNTY CRITICAL FEATURE INSPECTION DETAILS

Bridge No. 204
Frequency (months): 12
Members to be Inspected: Concrete encased steel beams and exterior reinforced concrete beams
Inspection Procedures: Visually and tactually conduct an inspection for section loss, cracks, spalling, or other signs of failure.
Date of Inspection: 3/18/2005
Inspection Findings: The concrete encased steel beams have extensive spalling exposing the steel beams; the condition of the steel beams is indeterminable. The reinforced concrete beam along the west coping has advanced spalling with extensive reinforcing steel exposure; much of the reinforcing steel has lost bonding with the concrete – the bottom row of steel has no bonding with the concrete, the second row has partial bonding. The steel beams in the widened portion of the deck along the east coping have significant rusting.
Follow up Action: The Structure Inventory and Appraisal Report was updated.

Bridge No. 226
Frequency (months): 6
Members to be Inspected: Split timber beam in the structure's main span, timber footing at endbents.
Inspection Procedures: Visually inspect for cracks, sagging, decay, or other signs of failure.
Date of Inspection: 4/19/05
Inspection Findings: The middle timber beam in the main span of the structure is split longitudinally approximately 2 to 3 inches from the bottom of the beam. The split extends over approximately 80 percent of the beam's length. The split has separated the bottom of the beam from the rest of the beam by a distance of up to two inches. The same beam is split about 1-1/2" to 2" from the top from the south end of the main span toward the center of the span. As a result, there is considerable local deflection of the deck timbers under traffic. The timber footings at the northeast and southeast endbents showed signs of decay. The support timbers at the base of the north endbent are deflected and settled possibly due to rot in the timbers below grade.
Follow up Action: The Structure Inventory and Appraisal Report was updated.

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	14
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat and probe rod
Date of Inspection:	4/16/03
Inspection Findings:	The streambed consists of rocks and gravel. Very minor stream scour was detected at the downstream end of the south interior pier. No footings were exposed at the interior piers. The spillslopes consist of riprap in good condition. Very mild turbulence was detected at the south interior pier.
Follow up Action:	The Structure Inventory and Appraisal Report was updated. No channel repair work is needed at this time.



LEGEND

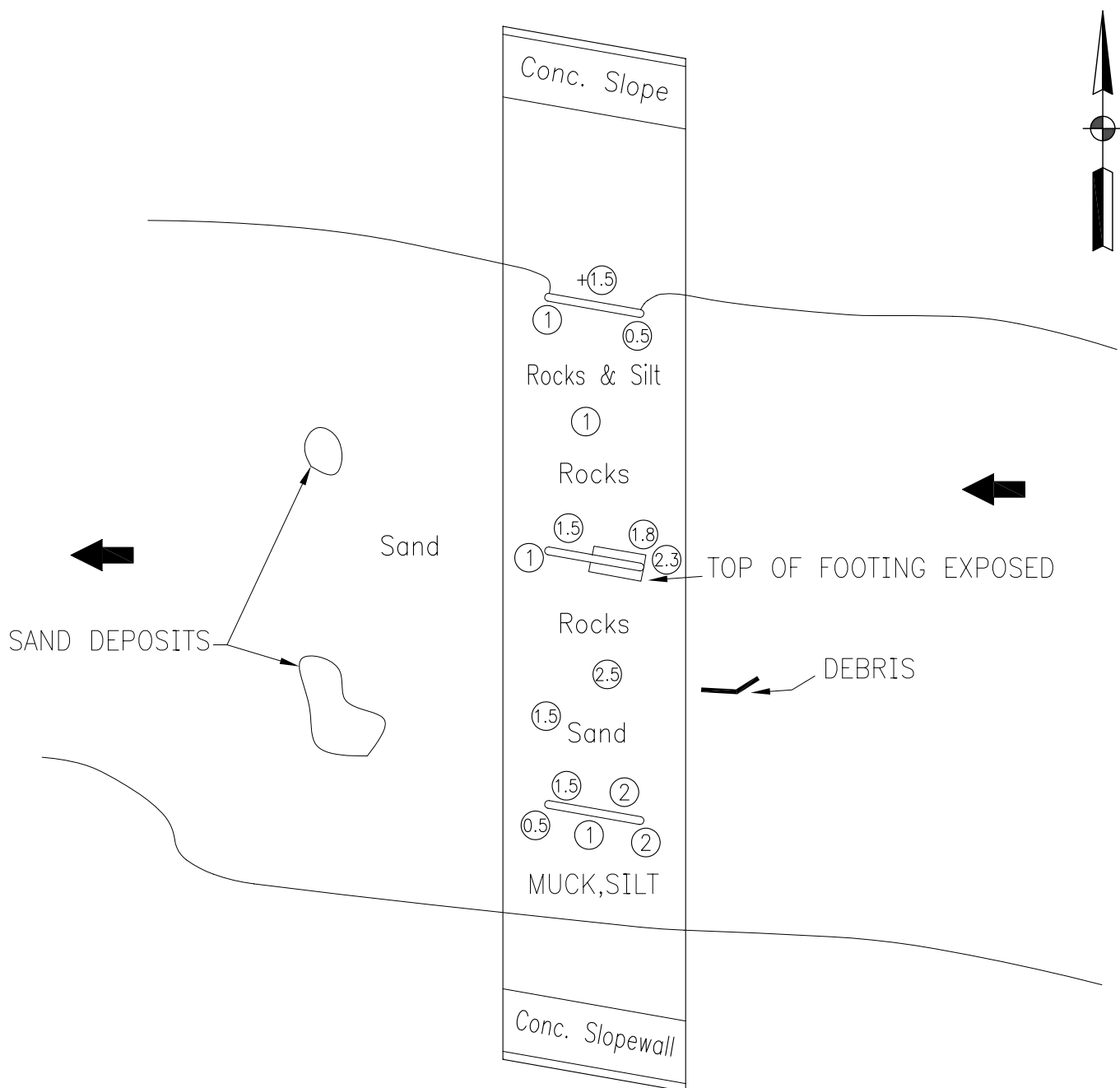
(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 14
ROAD 375 WEST OVER MISSISSENEWA RIVER

MEASURED ON 4/16/03

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	20
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat or waders and probe rod
Date of Inspection:	4/16/03
Inspection Findings:	The streambed consists of rocks and sand with some silt deposits near the north interior pier and silt and muck south of the south interior pier. The stream has near uniform depth. The top of the footing is exposed at the upstream half of the center pier. No other scour or exposed footings were observed at the piers.
Follow up Action:	The Structure Inventory and Appraisal Report was updated. It is recommended that riprap be placed at the center and south piers to alleviate further scour.



LEGEND

(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 20

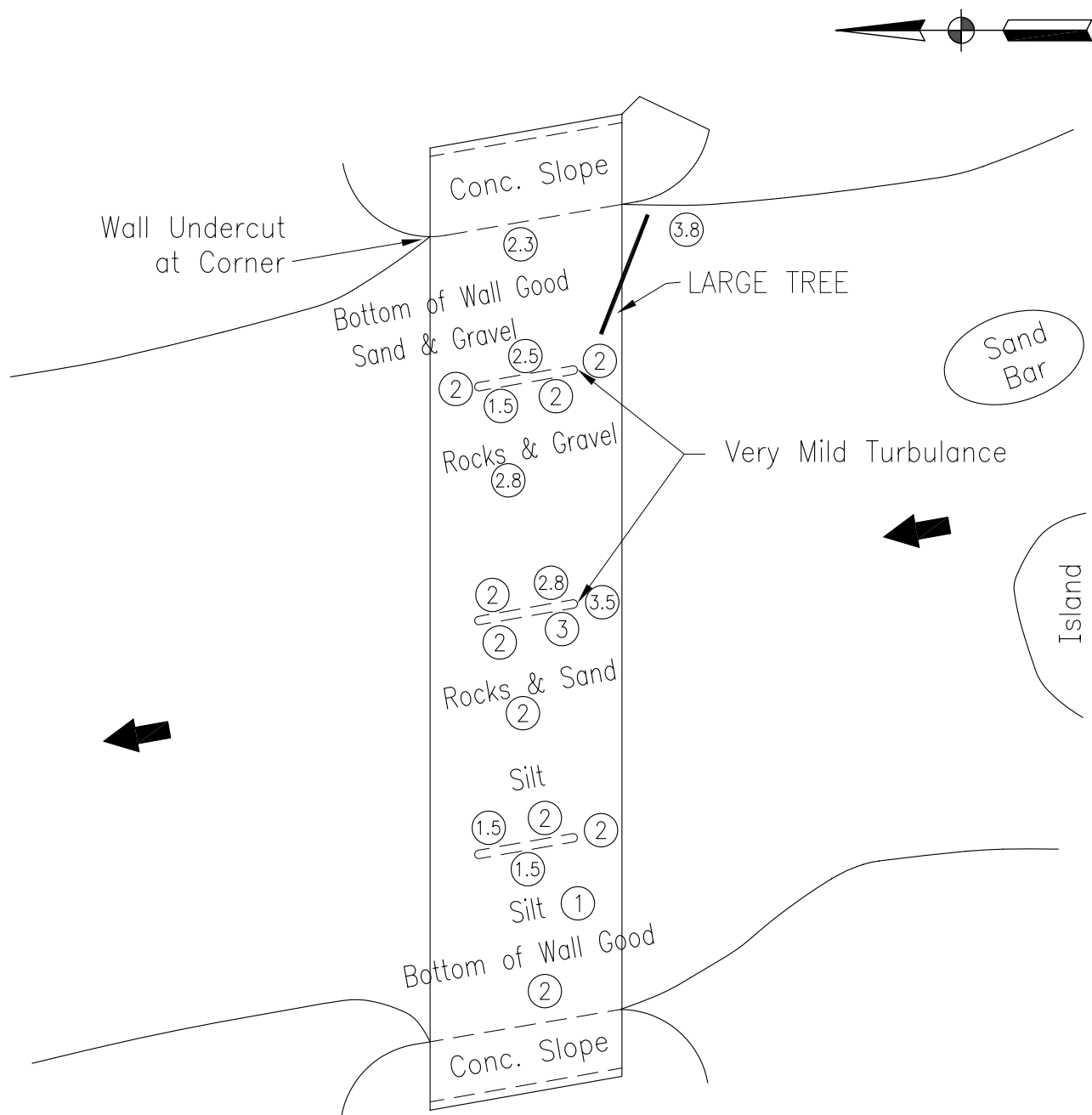
WALNUT STREET OVER MISSISSINewa RIVER

MEASURED ON 4/16/03

TOP OF COPING TO WATER SURFACE AT 1st PIER FROM NORTH: 18.9'

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	21
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat and probe rod
Date of Inspection:	4/16/03
Inspection Findings:	The streambed consists of sand, rocks, and gravel near midstream and silt deposits along the west bank. No erosion was detected along the bottoms of the concrete slopewalls in the channel. The north end of the east concrete slopewall is slightly undercut along the shoreline. An island and sandbar upstream are contributing to some mild turbulence at the upstream noses of the middle and east interior piers. The water was measured at near uniform depth of 1.5 to 3.8 feet. Minor streambed scour was detected at the upstream nose of the center pier. No other scour or erosion was detected. No footings were exposed.
Follow up Action:	The Structure Inventory and Appraisal Report was updated. No channel repair work is needed at this time.



LEGEND

(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 21

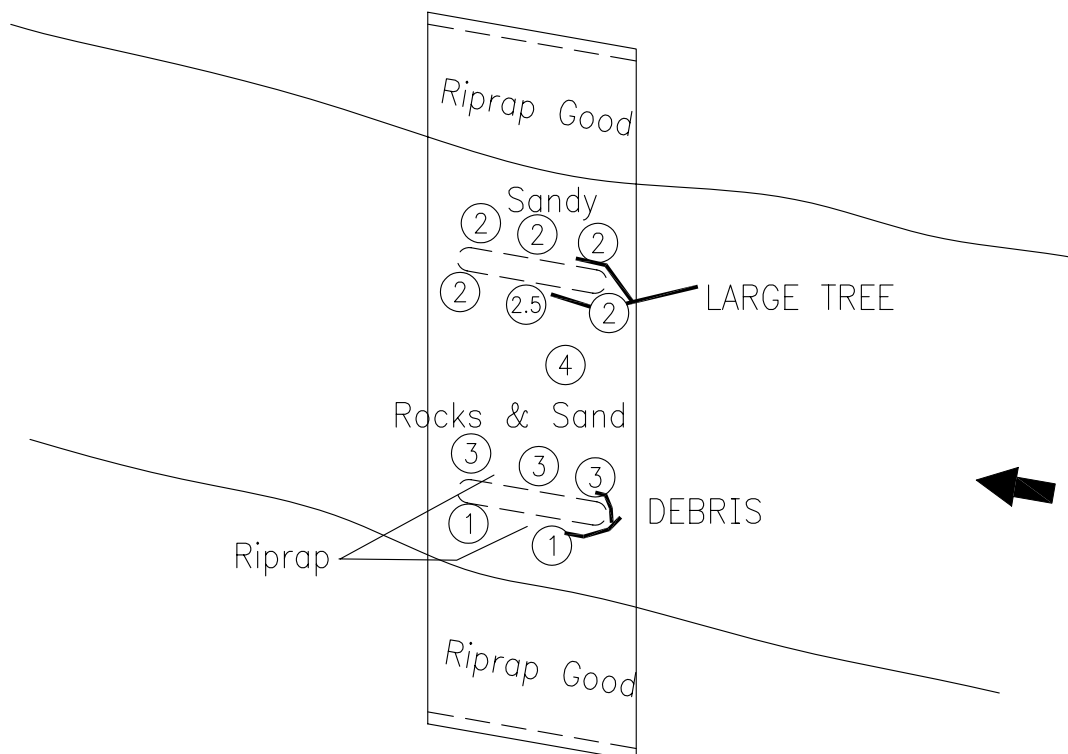
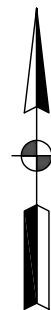
ROAD 1100 NORTH OVER MISSISSENEWA RIVER

MEASURED ON 4/16/03

TOP OF COPING TO WATER SURFACE AT 2nd DRAIN FROM WEST END: 20.2'

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	39
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat and probe rod
Date of Inspection:	4/16/03
Inspection Findings:	The streambed consists of rocks and sand. The water depth at the time of inspection was measured at 1 to 3 feet at the two interior piers and 4 feet at mid-channel. No turbulence, erosion, scour, or exposed footings were detected at the interior piers. A large tree and other debris were pinned against the piers and could contribute to scour at the piers. The spillslopes are well protected with riprap.
Follow up Action:	The Structure Inventory and Appraisal Report was updated. The tree and other debris should be removed from the channel.



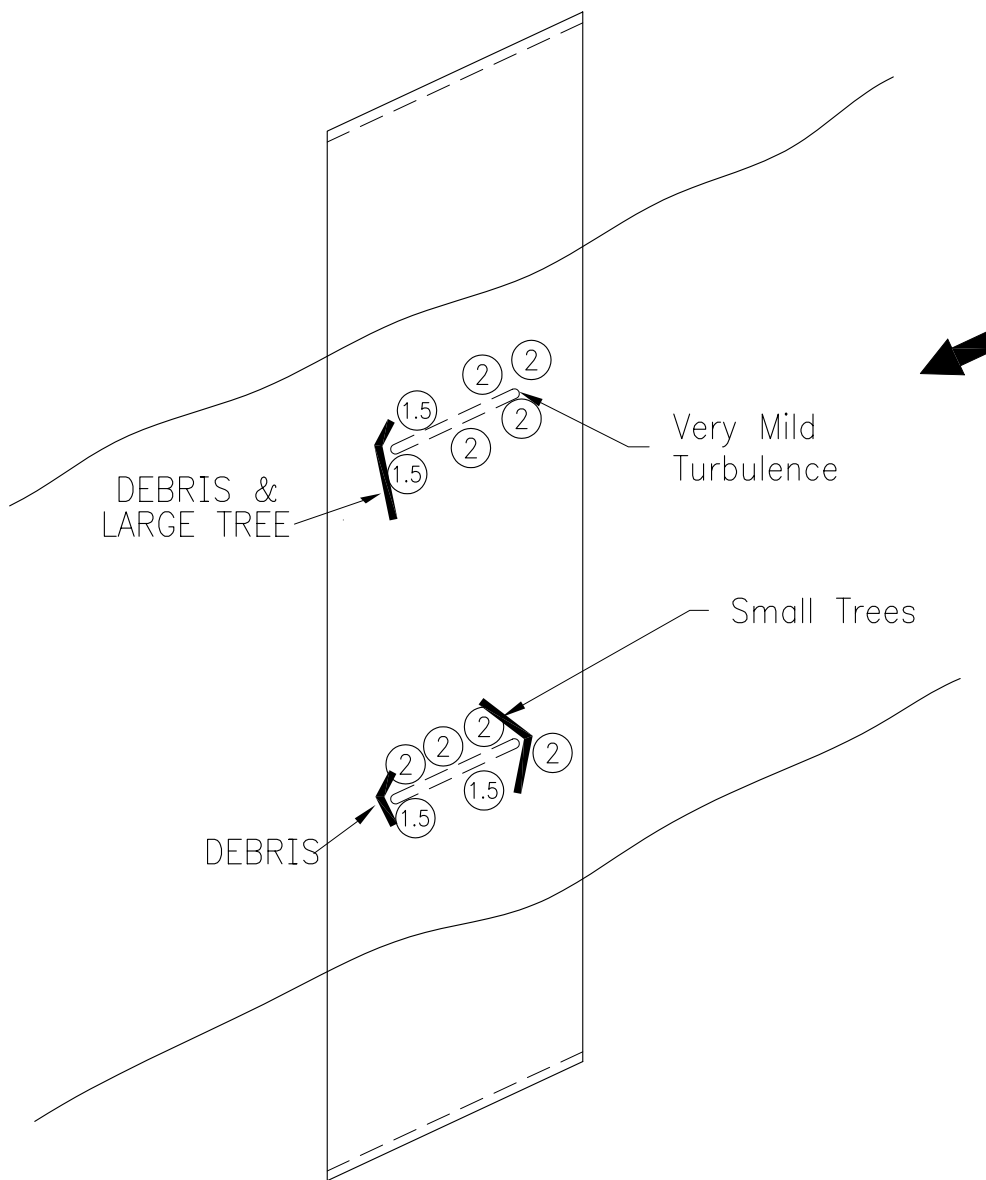
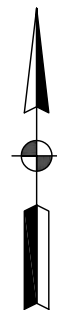
LEGEND

(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 39
ROAD 371 EAST OVER MISSISSENEWA RIVER
MEASURED ON 4/16/03

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	84
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat and probe rod
Date of Inspection:	4/16/03
Inspection Findings:	The streambed consists of sand and rocks with some silt deposits. The water depth was a near uniform depth of 1.5 to 2 feet. Some minor debris was found around the interior piers. No erosion, scour, or exposed footings were detected. Some mild turbulence was detected at the upstream nose of the north interior pier.
Follow up Action:	The Structure Inventory and Appraisal Report was updated. It is recommended that the channel be cleared of trees and other debris.



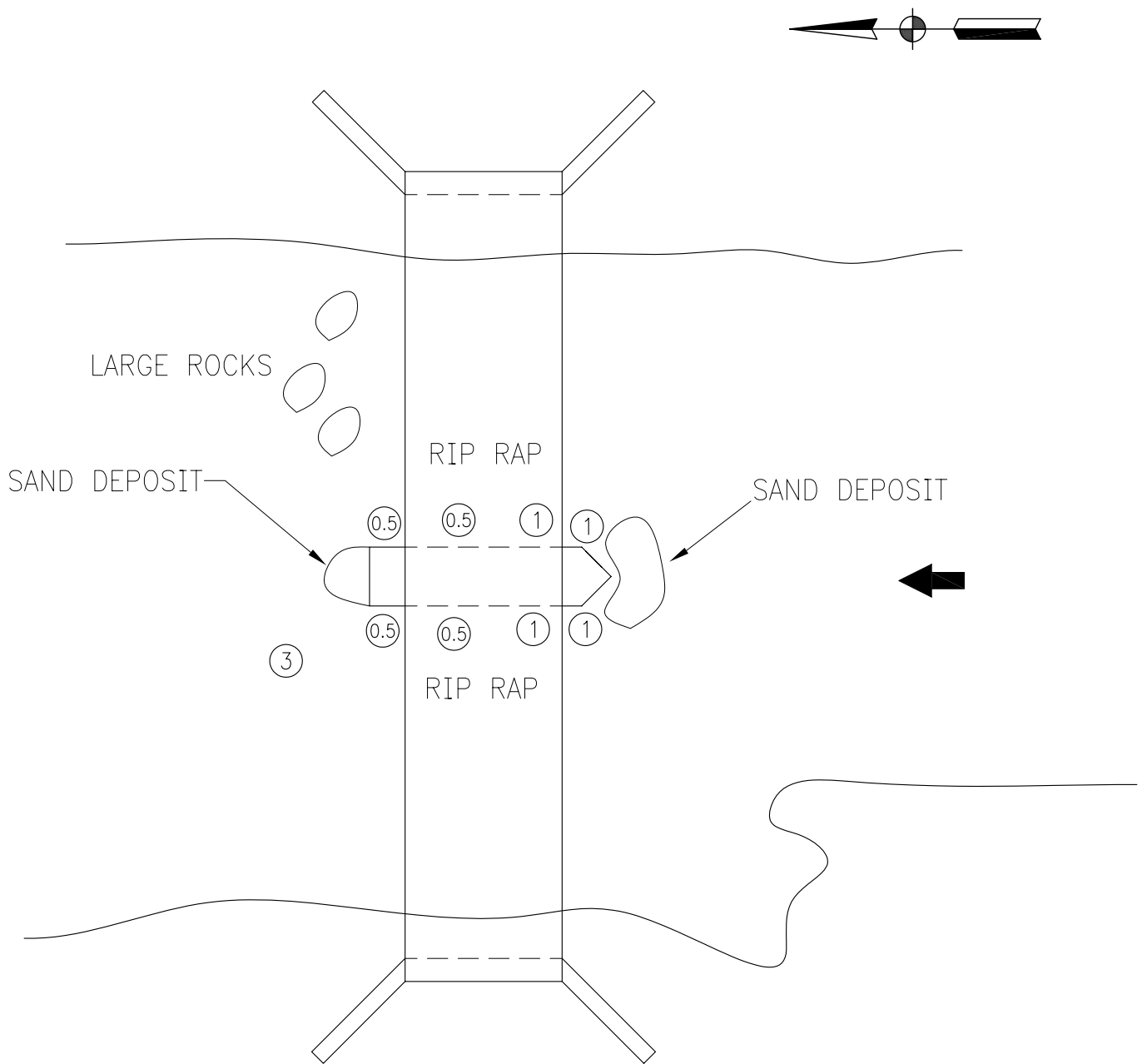
LEGEND

(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 84
DOWDEN AVENUE OVER MISSISSENEWA RIVER

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	107
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat or waders and probe rod
Date of Inspection:	4/16/03
Inspection Findings:	The streambed is rocky with some sand deposits. The flow is rapid and turbulent around the lone interior pier, with sand deposits located immediately upstream and downstream of the pier. The measured flow depth at the pier was fairly uniform at 6 inches to 1 foot. The abutments are on land and were not exposed to flowing water at the time of inspection. It was apparent, however, that turbulence occurs just upstream of the west abutment during high flow; significant bank erosion has occurred and could threaten that abutment. No scour or exposed footings were detected.
Follow up Action:	The Structure Inventory and Appraisal Report was updated. It is recommended that bank protection be added at the west abutment.



LEGEND

(X) Stream Depth Measured at X Feet

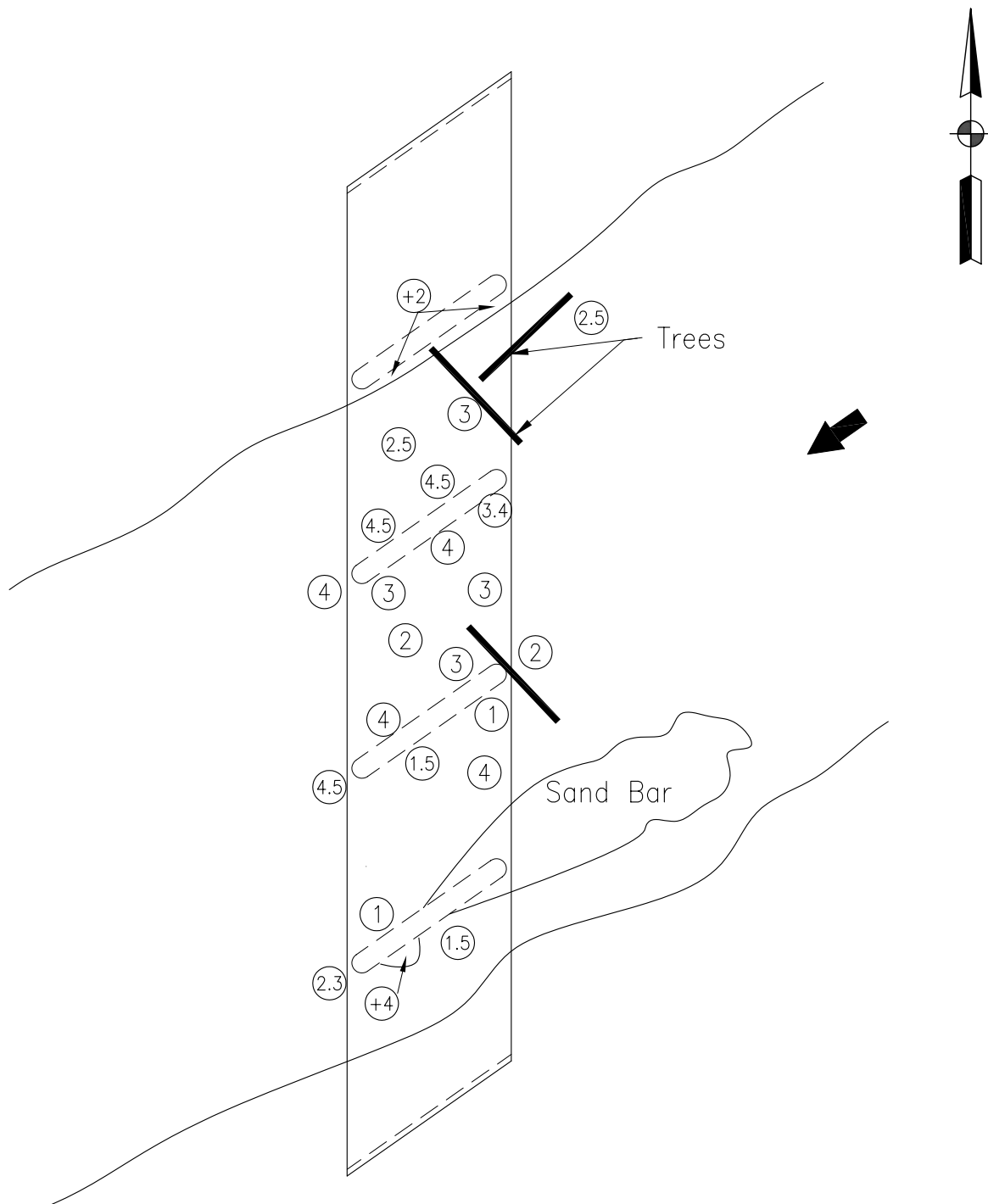
DELAWARE COUNTY BRIDGE NO 107
ROAD 700 NORTH OVER MISSISSENEWA RIVER

MEASURED ON 4/16/03

TOP OF TIMBER DECK TO WATER SURFACE AT CENTER PIER: 16.8'

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	123
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat and probe rod
Date of Inspection:	4/14/03
Inspection Findings:	The streambed consists of sand and gravel. Several large trees are wedged against the interior piers. Turbulence was detected at the interior piers. Some deep spots were detected at the interior piers due to scour from the current. This appears to be a somewhat active streambed; both sand deposits and streambed scour have occurred since the last underwater inspection. No exposed footings were detected.
Follow up Action:	The Structure Inventory and Appraisal Report was updated. It is recommended that the deadfall trees be cleared from the channel at the interior piers, and that riprap be placed at the pier noses and at other deep spots along the piers. Due to the active nature of this stream, it is recommended that a program of regular debris clearing around the piers be established.



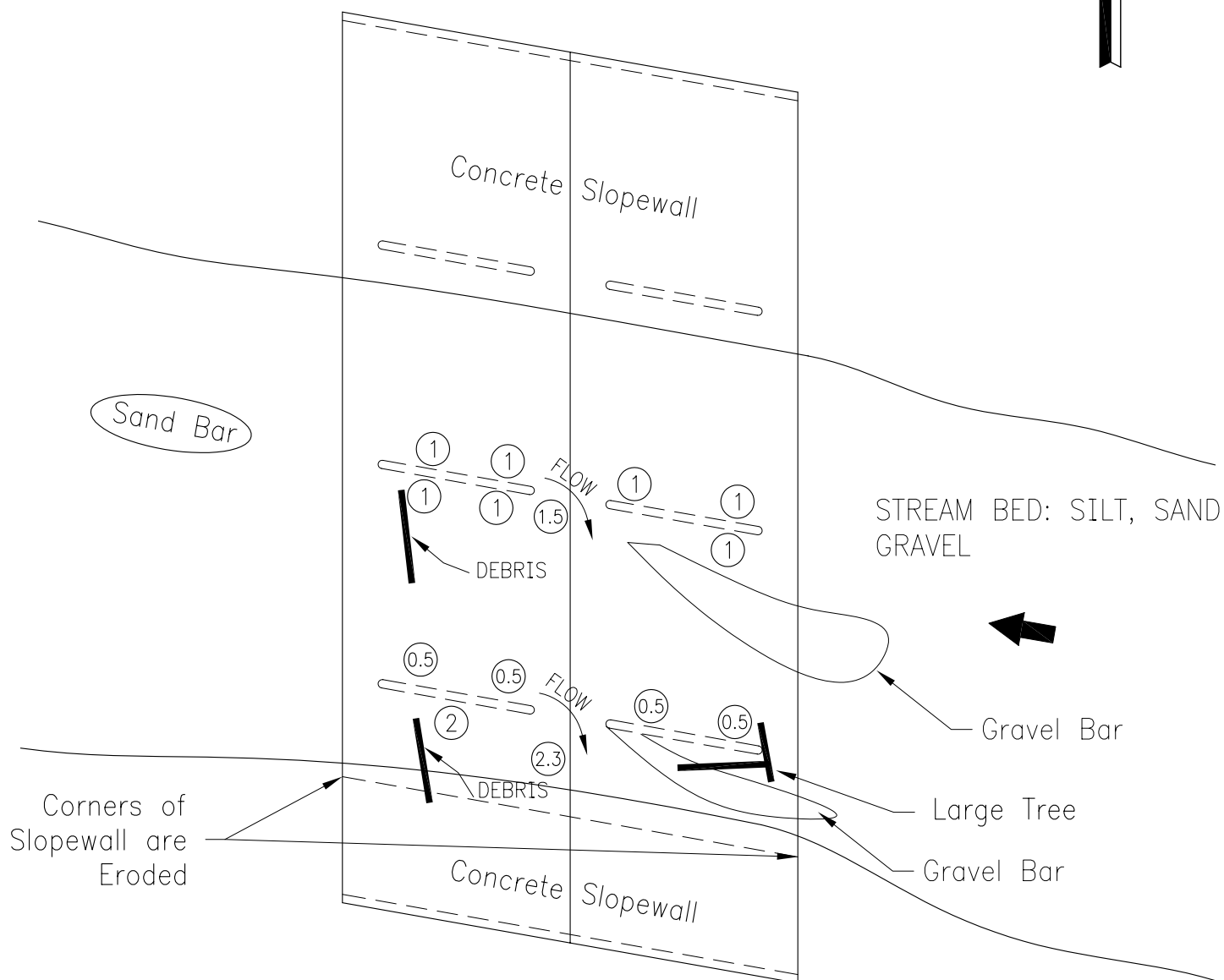
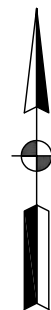
LEGEND

(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 123
RIVER ROAD OVER WHITE RIVER
MEASURED ON 4/14/03

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	124
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat or waders and probe rod
Date of Inspection:	4/15/03
Inspection Findings:	<p>The streambed consists of gravel and sand. A large tree is wedged against the upstream side of the center pier. A sand bar is located downstream of the middle piers. The north interior piers are protected by the concrete slopewall. The bottom corners of the south concrete slopewall are eroded. The concrete slopewall bottoms were otherwise well protected. The streambed was fairly shallow (6 inches to 2 feet). No exposed footings were detected. Each pier consists of a pair of hammerhead piers. The stream flows irregularly between the adjacent pier stems. The streambed appears to be fairly active; sand and gravel deposits and scour areas appear to have changed since the last underwater inspection.</p>
Follow up Action:	<p>The Structure Inventory and Appraisal Report was updated. It is recommended that riprap be placed at the upstream noses of the south and middle interior piers and at the corners of the south concrete slopewall. It is also recommended that the tree be removed from the channel at the middle interior piers. Due to the active nature of this stream, it is recommended that a program of regular debris clearing around the piers be established.</p>



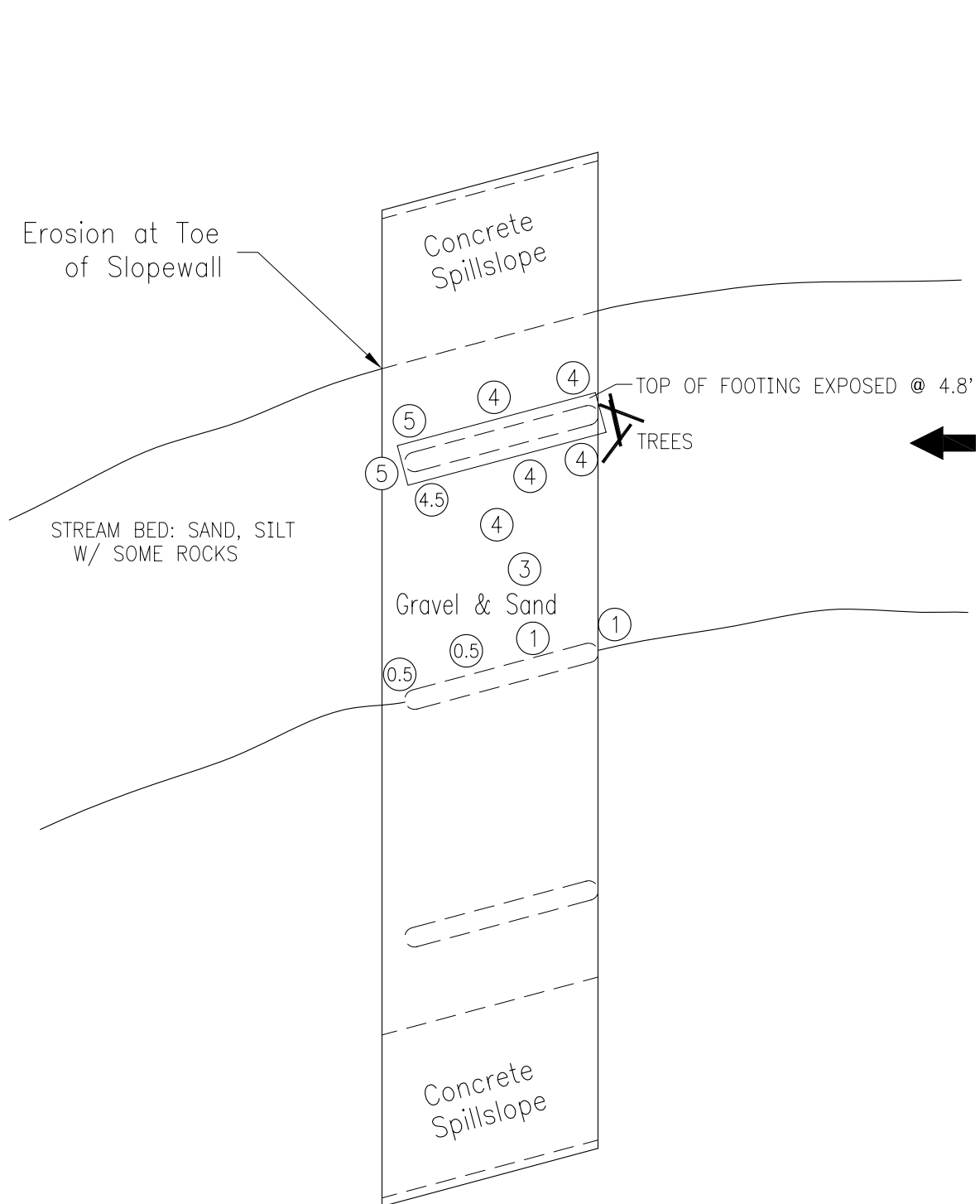
LEGEND

(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 124
ROAD 400 WEST OVER WHITE RIVER
TOP OF COPING TO WATER SURFACE AT 1st DRAIN ON N END: 26.6'
MEASURED ON 4/15/03

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	141
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat and probe rod
Date of Inspection:	4/15/03
Inspection Findings:	<p>The streambed consists of gravel and sand. The channel depth was measured to be slightly deeper (4 to 5 feet) at the north interior pier than at other areas in the channel (2 to 3 feet). The footing was exposed at the north interior pier. Minor debris was also noted at the north interior pier. Significant erosion was observed at the bottom west corner of the north concrete slopewall.</p>
Follow up Action:	<p>The Structure Inventory and Appraisal Report was updated. It is recommended that riprap be placed along the bottom of the north slopewall and at the north interior pier to alleviate further scour.</p>



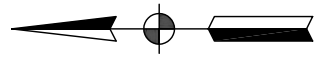
LEGEND

(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 141
ROAD 570 WEST (TIGER ROAD) OVER WHITE RIVER
MEASURED ON 4/15/03

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	148
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat and probe rod
Date of Inspection:	6/12/03
Inspection Findings:	The streambed consists of sand and gravel. The riprap spill slopes are in good condition. No exposed footings were detected. Significant debris is pinned against the piers. The streambed appears to be fairly active; sand and gravel deposits and scour areas appear to have changed significantly since the last underwater inspection.
Follow up Action:	The Structure Inventory and Appraisal Report was updated. It is recommended that the debris be removed from the piers. Due to the active nature of this stream, it is recommended that a program of regular debris clearing around the piers be established.



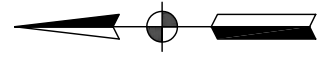
LEGEND

(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 148
ROAD 266 SOUTH OVER WHITE RIVER

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	149
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat and probe rod
Date of Inspection:	4/12/03
Inspection Findings:	<p>The streambed consists of sand and gravel with riprap spillslopes. The channel was fairly uniform in depth with slightly deeper areas at the upstream nose of the west interior pier and the west face of the east interior pier. Minor debris was present next to the piers. The footings are not exposed. The streambed appears to be fairly consistent with the previous underwater inspection with some changes in scour and deposit areas.</p>
Follow up Action:	<p>The Structure Inventory and Appraisal Report was updated. It is recommended that the tree be removed from the pier and that riprap be placed at the upstream noses of both interior piers. Due to the active nature of this stream as observed at nearby bridges, it is recommended that a program of regular debris clearing around the piers be established.</p>



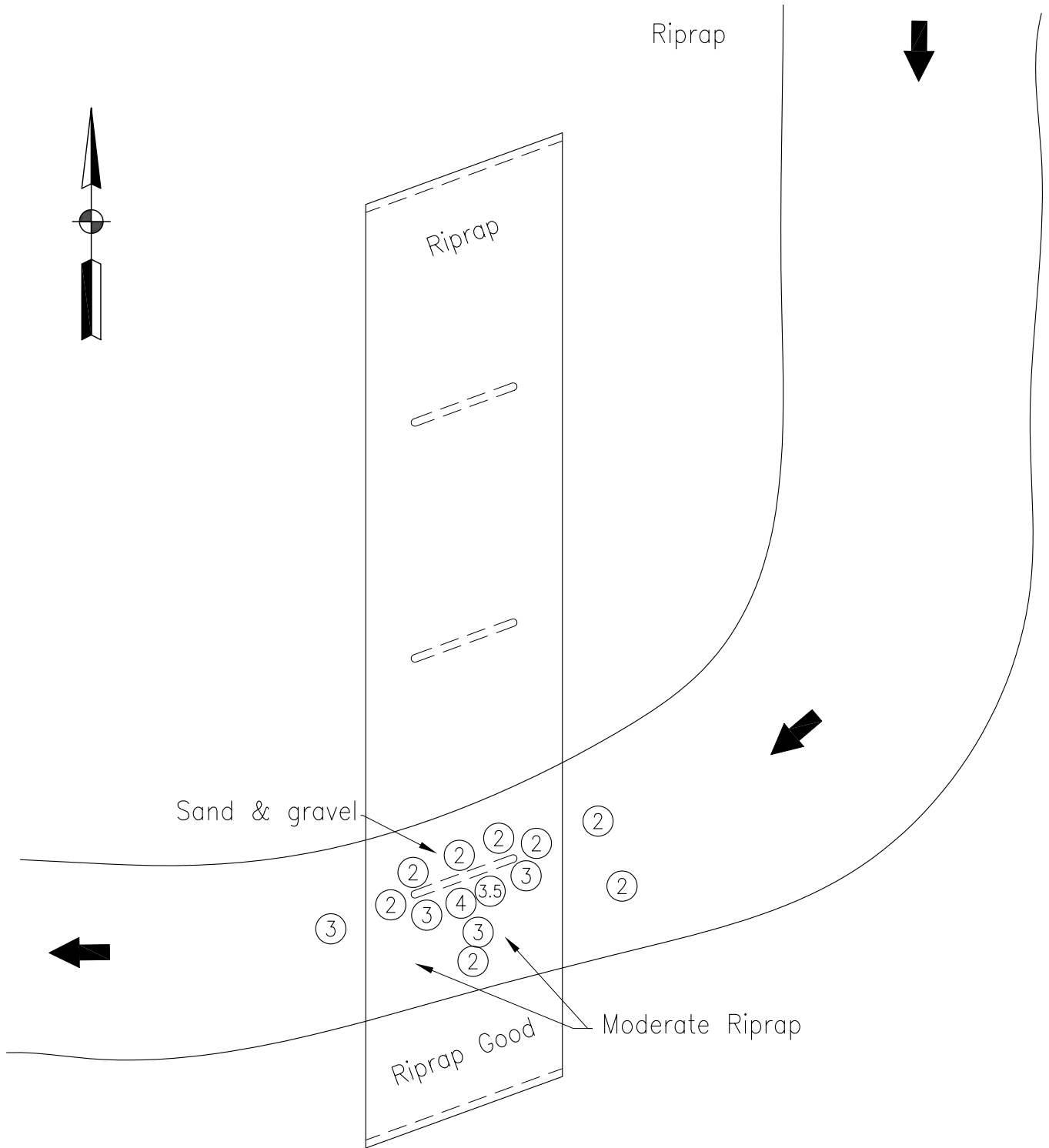
LEGEND

(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 149
ROAD 430 EAST OVER WHITE RIVER

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	152
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat and probe rod
Date of Inspection:	6/12/03
Inspection Findings:	The streambed is rocky and the channel curves sharply just upstream of the structure. The north and center interior piers are exposed to flowing water only during periods of high water. The south interior pier had some turbulence and debris. The flow velocity can apparently be fairly high around the south interior pier at higher flows. The stream depth was slightly deeper around the south interior pier than in other portions of the channel. No exposed footings were detected. Some bank erosion and debris was observed east of the structure at a sharp bend in the channel. The spillslopes are well protected with riprap
Follow up Action:	The Structure Inventory and Appraisal Report was updated. It is recommended that riprap be placed around the south interior pier. Due to the active nature of this stream as observed at nearby bridges and to the abundance of trees upstream, it is recommended that a program of regular debris clearing around the piers be established.



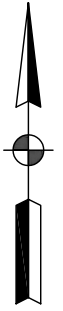
LEGEND

(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 152
ROAD 700 EAST OVER WHITE RIVER

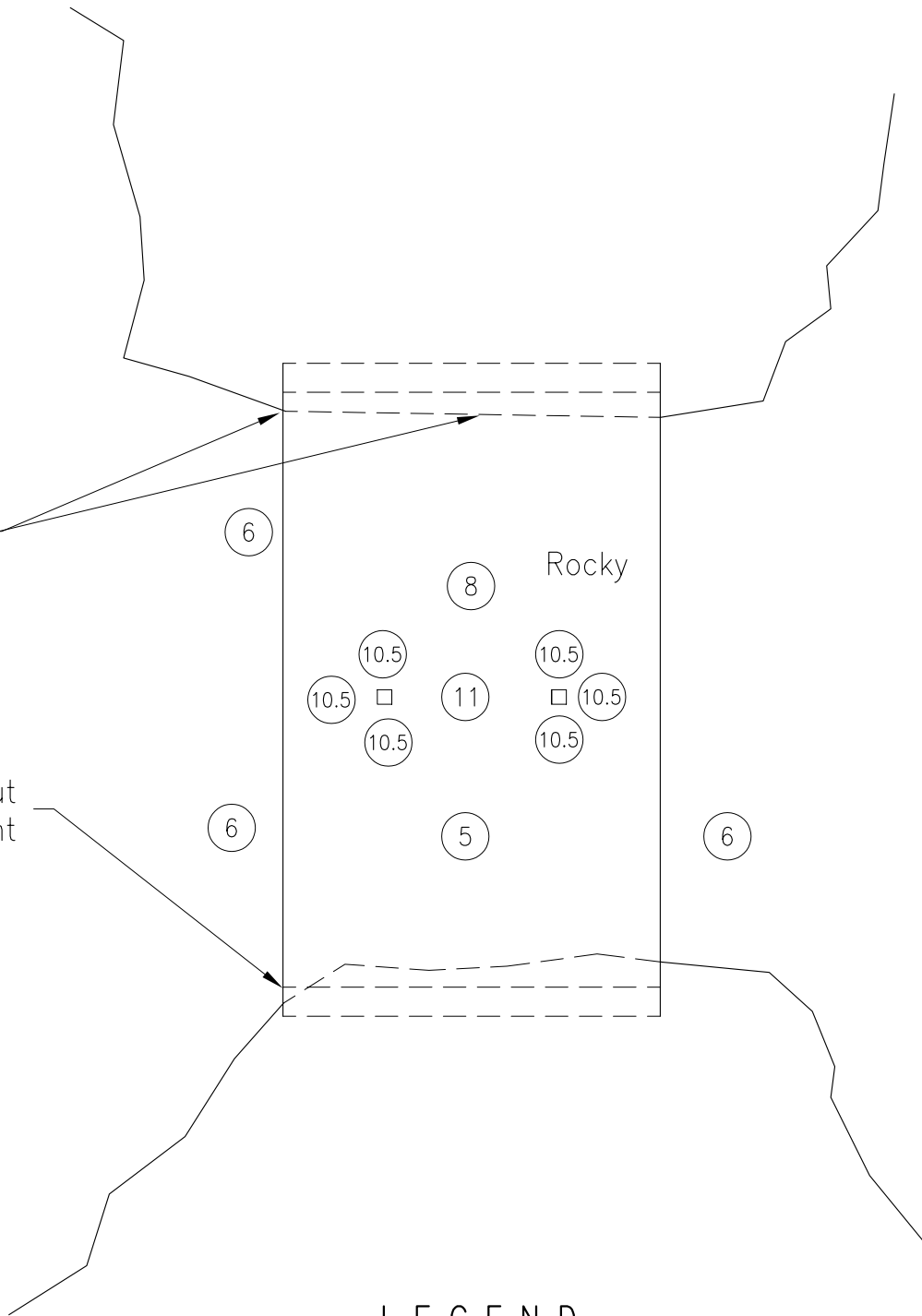
DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	160
Frequency (months):	12
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat and long probe rod
Date of Inspection:	6/12/03
Inspection Findings:	<p>This structure separates Prairie Creek Reservoir from an adjacent lake area. The stream is narrow and deep under the bridge with a rocky streambed. The channel is "V" shaped with a depth of 11 to 12 feet at the center. The interior pier is located at the deepest portion of the channel. Very little or no current was detected under the structure. No exposed footings were detected at the interior pier. Both shorelines are rocky. The west ends of both end bents are undermined probably due to wind-generated waves and to wakes caused by motorboats. The north endbent is severely undercut, nearly to the back of the footing, approximately halfway across the width of the pier with no piles. Both end bents are above and fairly close to the channel.</p>
Follow up Action:	<p>The Structure Inventory and Appraisal Report was updated. Immediate action is required in order to keep this bridge open to traffic. It is recommended that the end bents be underpinned and protected with riprap.</p>



Severely
Undercut
Endbent

Undercut
End Bent



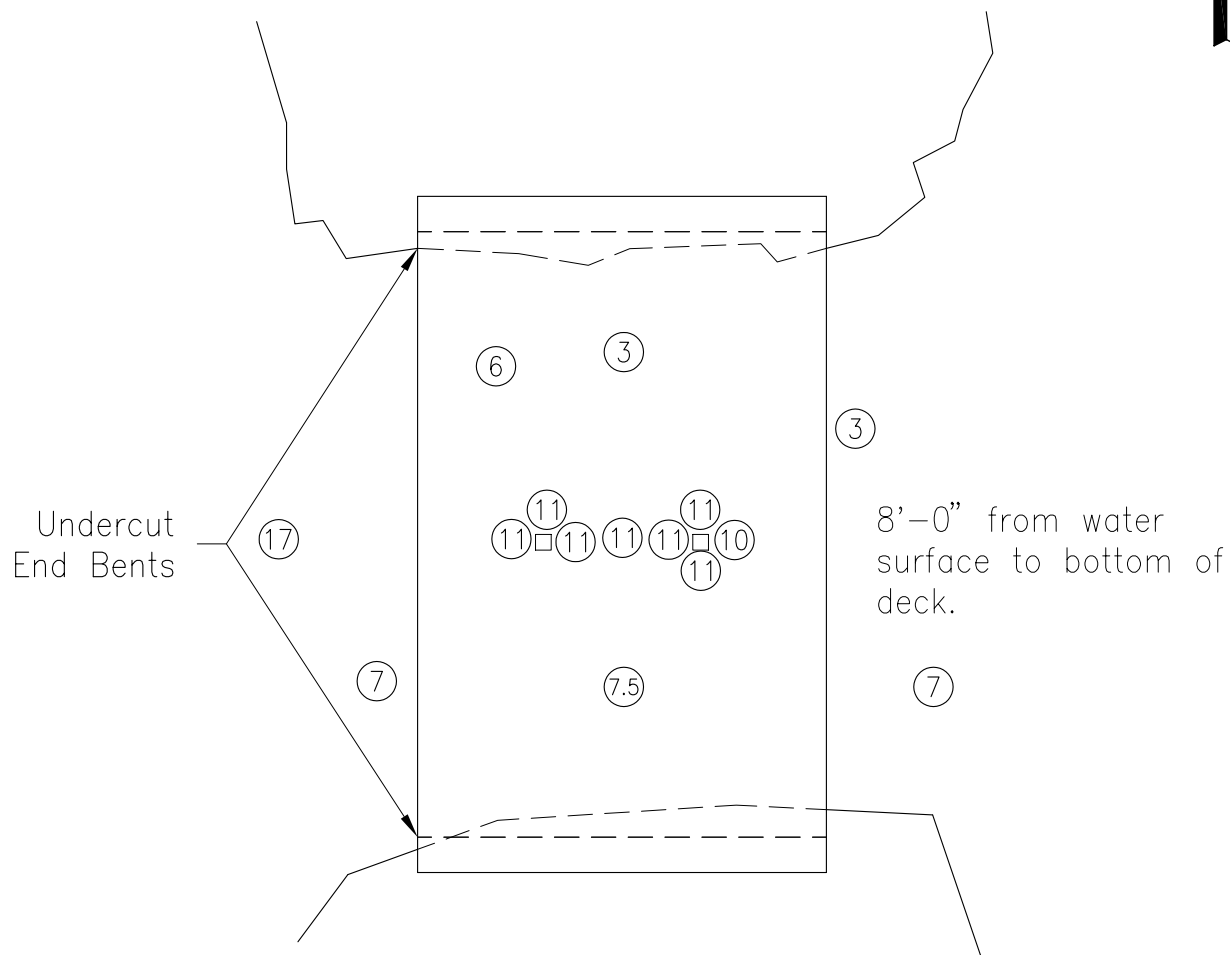
LEGEND

(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 160
ROAD 566 EAST OVER PRAIRIE CREEK RESERVOIR

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	172
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat and long probe rod
Date of Inspection:	4/12/03
Inspection Findings:	<p>This structure separates Prairie Creek Reservoir from an adjacent lake area. The stream is narrow and deep under the bridge with a sand and gravel streambed. The channel is "V" shaped with a depth of 11 to 12 feet at the center. The interior pier is located at the deepest portion of the channel. Very little or no current was detected under the structure. No exposed footings were detected at the interior pier. Both shorelines are rocky. The northwest and southwest wingwalls are both undercut. Both end bents are above and fairly close to the channel.</p>
Follow up Action:	<p>The Structure Inventory and Appraisal Report was updated. It is recommended that the wingwalls be underpinned and that both end bents and the wingwalls be protected with riprap.</p>

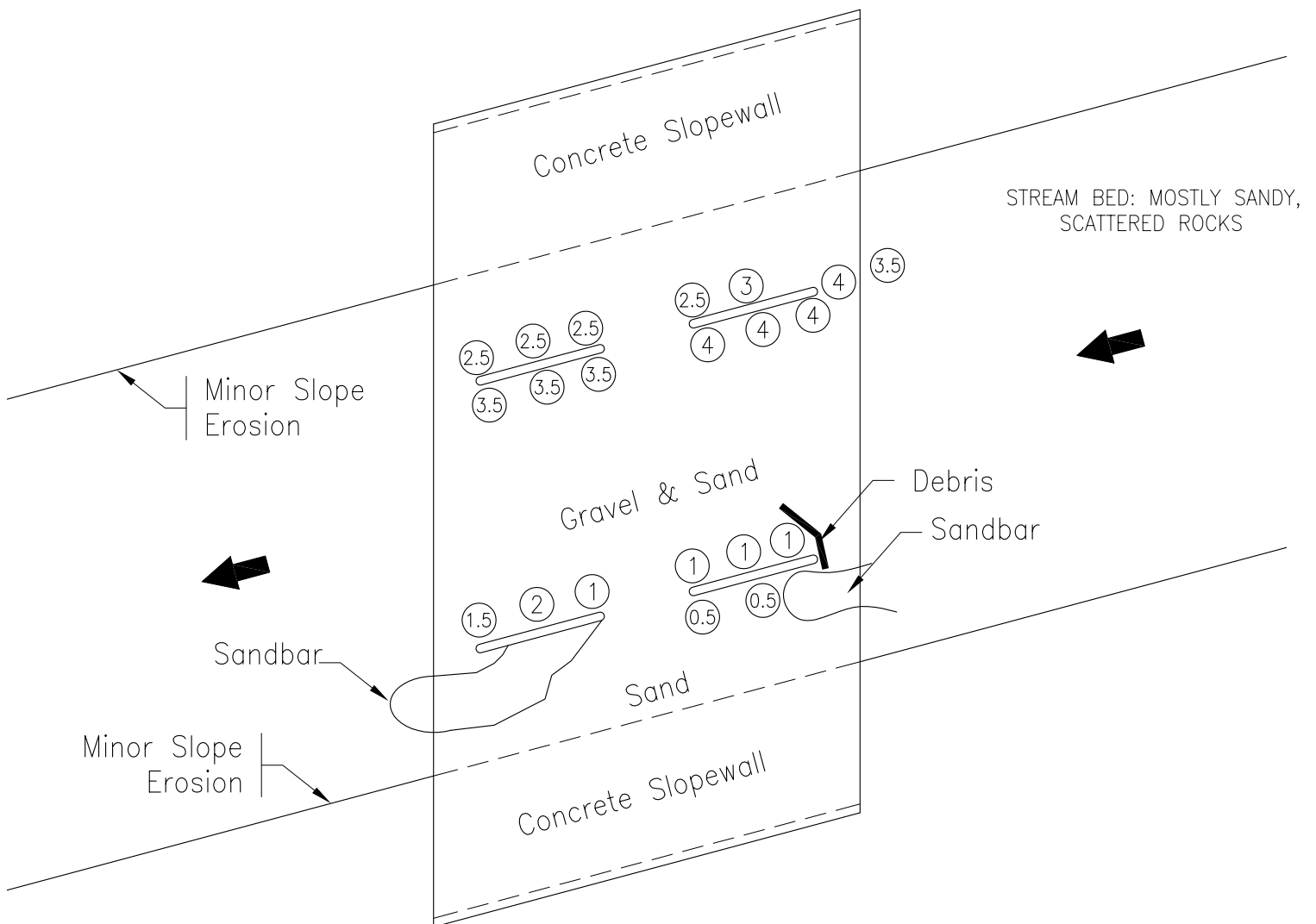
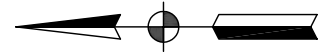


⊗ Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 172
ROAD 550 EAST OVER PRAIRIE CREEK RESERVOIR

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	193
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat and probe rod
Date of Inspection:	4/15/03
Inspection Findings:	The streambed consists of gravel and sand. There are separate hammerhead piers for the east bound and west bound lanes. Several medium-sized trees are lodged against the upstream west interior pier. Minor slope erosion was observed downstream of the structure along both banks. No scour or exposed footings were detected at any of the piers. The bottoms and edges of the concrete slopewalls are also well protected and not eroded.
Follow up Action:	The Structure Inventory and Appraisal Report was updated. It is recommended that the deadfall trees be removed from around the piers. No other channel work is needed at this time.



LEGEND

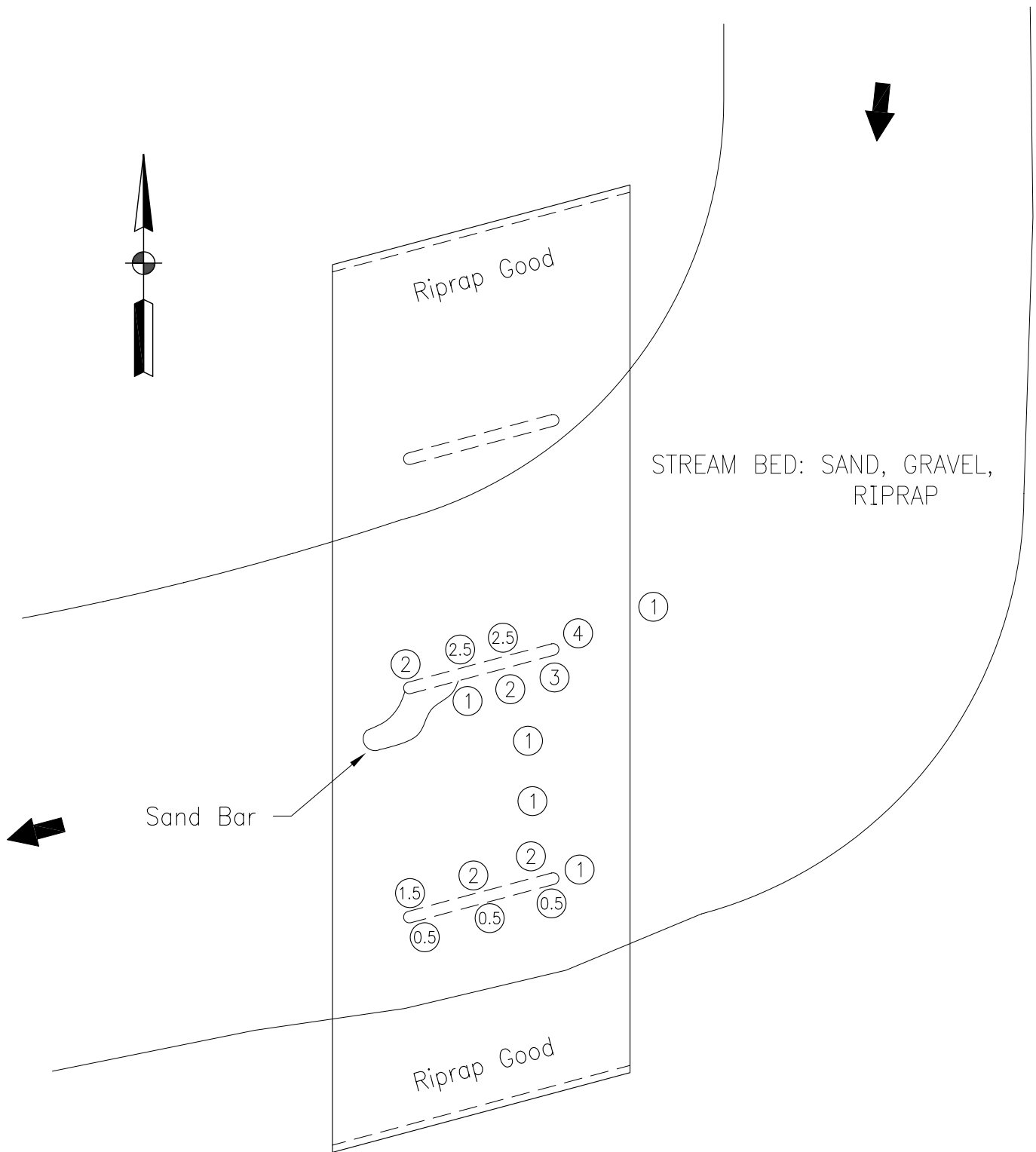
(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 193
MEMORIAL DRIVE OVER WHITE RIVER
MEASURED ON 4/15/03

TOP OF COPING TO WATER SURFACE AT WEST INTERIOR PIER: 23.6'

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	504
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat and probe rod
Date of Inspection:	4/15/03
Inspection Findings:	The streambed consists of gravel and sand with riprap spillslopes. The channel curves just upstream of the structure causing a bad flow angle at the middle and south interior piers. The north interior pier is located out of the normal channel. The odd flow angle at the middle hammerhead pier has caused a deep area about 4 feet deep at the upstream nose. The stream depth elsewhere was generally 1 to 2 feet. A small sand bar is located on the south side of the pier near the downstream nose. No exposed footings were detected. No significant scour was detected at the south interior pier.
Follow up Action:	The Structure Inventory and Appraisal Report was updated. It is recommended that riprap be placed around the middle interior pier.



LEGEND

(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 504

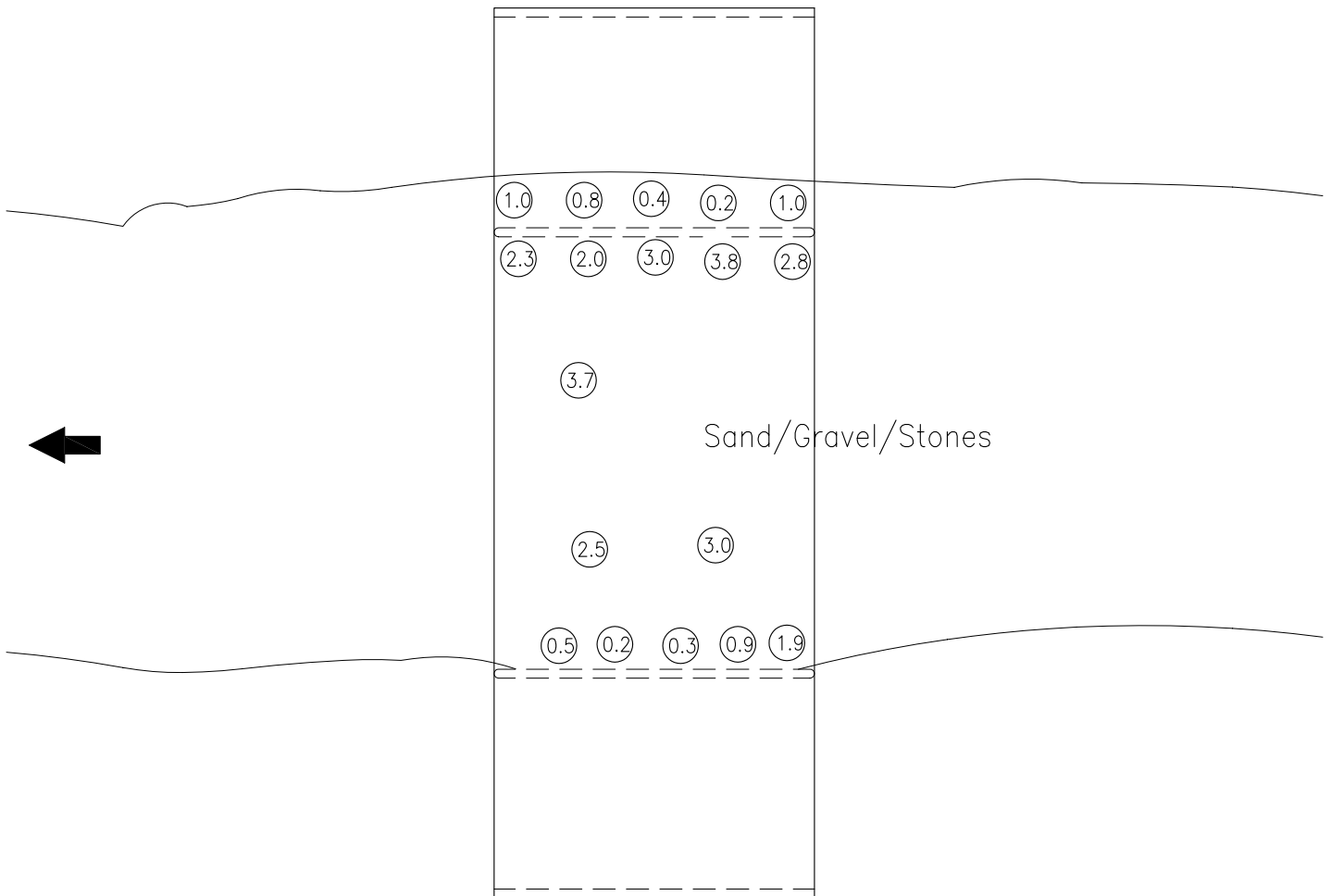
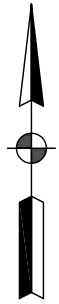
NICHOLS AVENUE OVER WHITE RIVER

TOP OF COPING TO WATER SURFACE AT 2nd DRAIN FROM SOUTH: 29.4'

MEASURED ON 4/15/03

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	510
Frequency (months):	60
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat or waders and probe rod
Date of Inspection:	5/11/05
Inspection Findings:	The bridge has been reconstructed since the last inspection. The three interior piers were replaced with two piers which are keyed into the bedrock. The old abutments remain in place. The streambed consists of sand, gravel, and various size stones. The north interior pier is located near the north shoreline. The south interior pier is located along the south shoreline. Neither pier has any portion of the footing exposed.
Follow up Action:	The Structure Inventory and Appraisal Report was updated.



LEGEND

(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 510
WALNUT STREET OVER WHITE RIVER

REFERENCE ELEVATION: BOTTOM OF WEST BEAM AT THE SOUTH
END OF THE CENTER SPAN TO WATER SURFACE: 25.4'

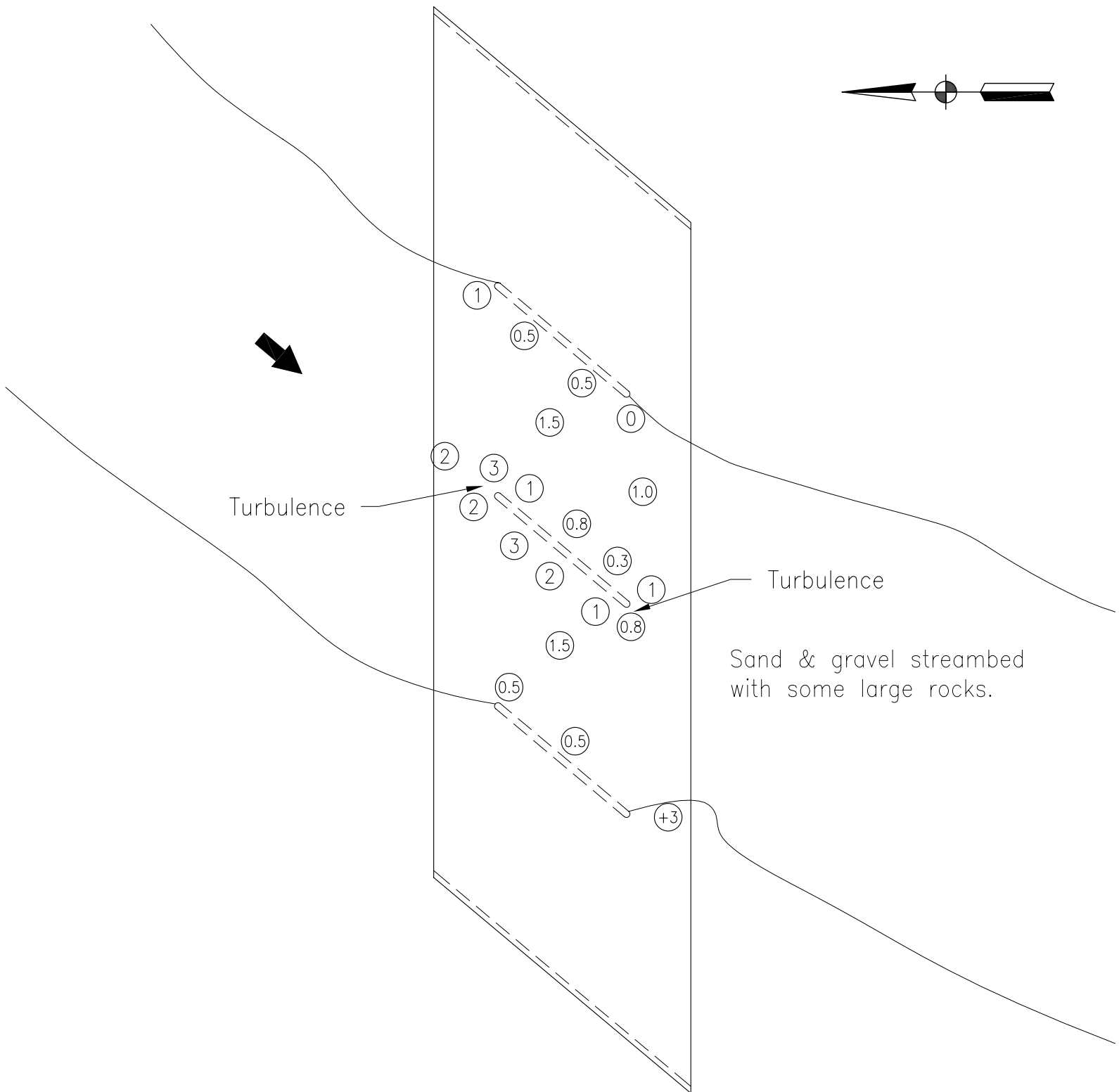
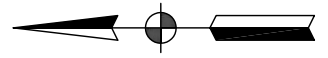
MEASURED ON 5/11/05

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	512
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat and probe rod
Date of Inspection:	6/9/03
Inspection Findings:	The streambed consists of sand and gravel with heavy silt under the north span. The channel curves sharply just upstream of the structure causing a bad flow angle at all of the piers and heavy debris buildup. Multiple large trees and other debris are wedged against the middle and north interior piers. The poor flow angle at the interior piers is causing deep (4.5 to 8 feet) eroded areas at the upstream nose and along the north side of each pier. The measured depth along the south side of each pier is from 1.5 to 4 feet. A sand bar is located southwest of the north interior pier. The average stream depth away from the piers was 4 to 5 feet. No exposed footings were detected.
Follow up Action:	The Structure Inventory and Appraisal Report was updated. It is recommended that the trees and debris be removed from the channel and that riprap be placed around all of the interior piers.

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	513
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat or waders and probe rod
Date of Inspection:	6/9/03
Inspection Findings:	The streambed is rocky and has a near uniform depth of 1 to 2 feet. Turbulence was observed at both ends of the middle interior pier. A deeper (3 feet deep) eroded area was detected at the upstream nose of the middle interior pier. A medium sized tree was found at the upstream side of the center pier. No other debris, exposed footings, or additional erosion was detected. The other two interior piers are located along the shoreline.
Follow up Action:	The Structure Inventory and Appraisal Report was updated. It is recommended that riprap be placed around the center pier.



Turbulence

Turbulence

Sand & gravel streambed
with some large rocks.

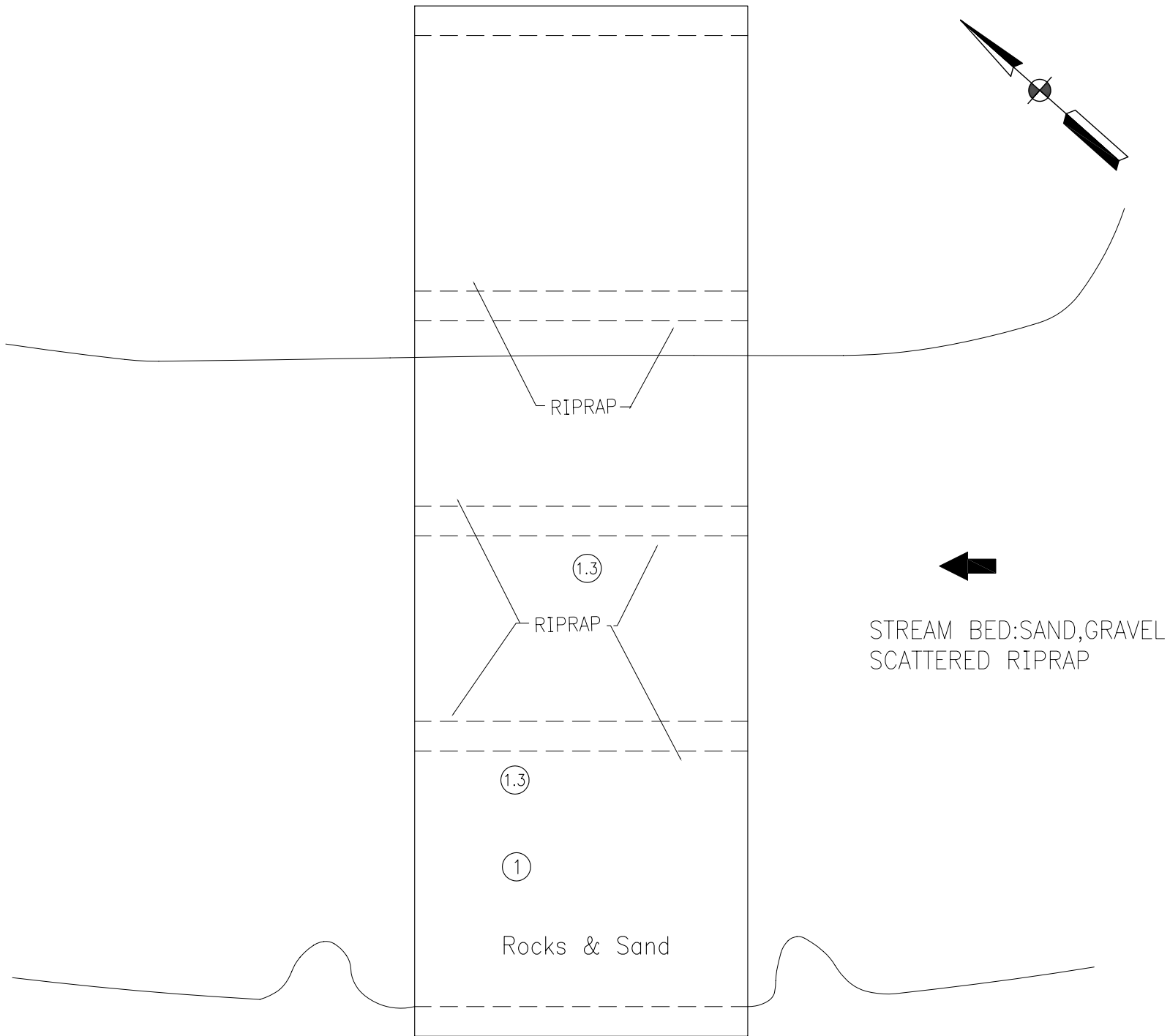
LEGEND

(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 513
JACKSON STREET OVER WHITE RIVER

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	514
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat or waders and probe rod
Date of Inspection:	4/15/03
Inspection Findings:	The streambed consists of sand and gravel with sand and rocks along the south abutment. The measured water depth was uniform at 1 to 2 feet. No turbulence, scour, or exposed footings were detected. Riprap has been placed around each of the piers.
Follow up Action:	The Structure Inventory and Appraisal Report was updated. No channel repair work is needed at this time.



LEGEND

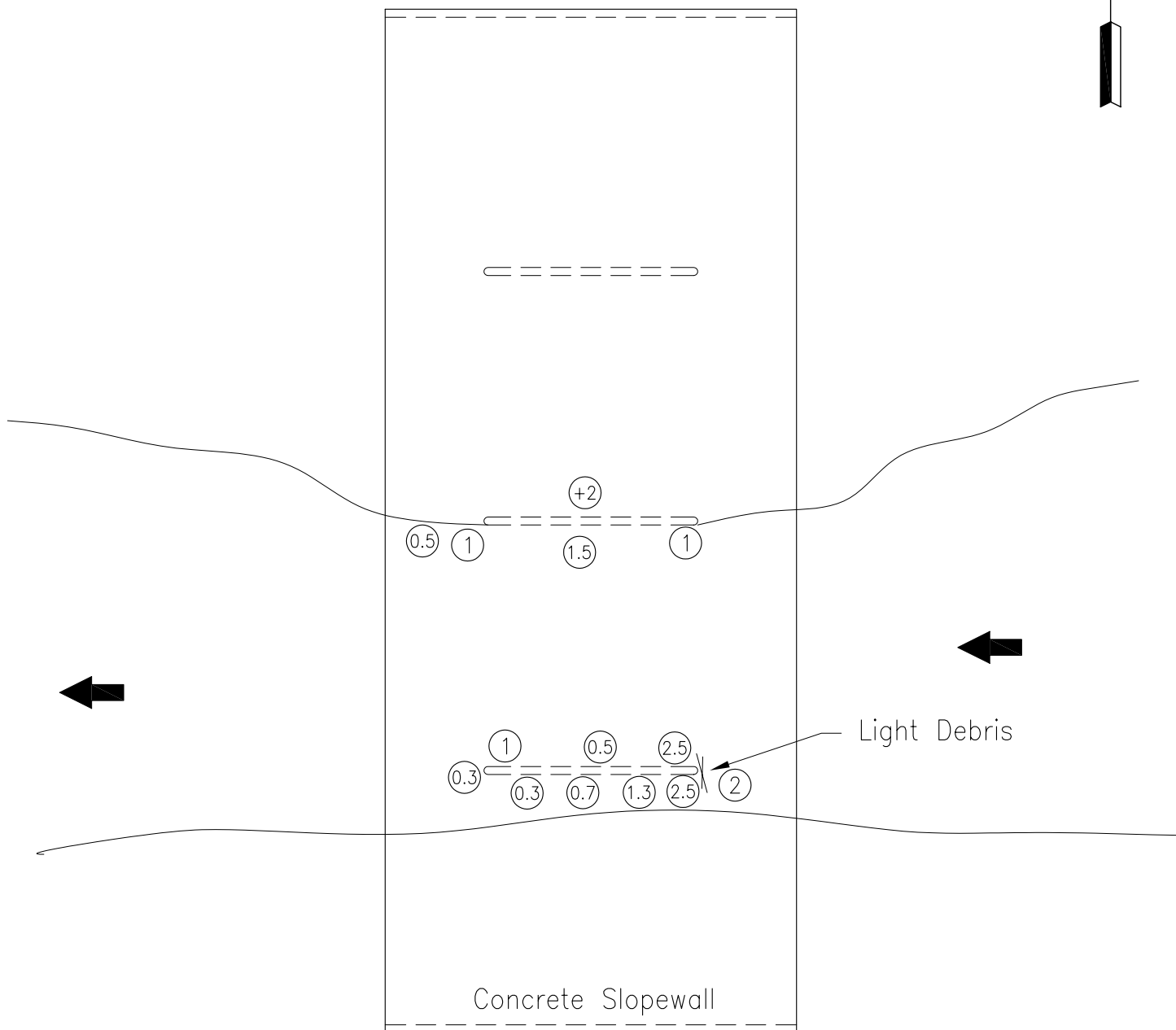
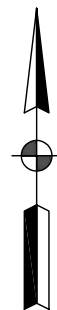
(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 514
BROADWAY AVENUE OVER WHITE RIVER

TOP OF COPING TO WATER SURFACE AT CENTER PIER: 20.2'

DELAWARE COUNTY UNDERWATER INSPECTION DETAILS

Bridge No.	516
Frequency (months):	48
Members to be Inspected:	Interior piers below waterline
Inspection Procedures:	Check for erosion and scour
Special Equipment:	Boat or waders and probe rod
Date of Inspection:	4/15/03
Inspection Findings:	The streambed consists mainly of gravel. The water depth was nearly uniform at 1 to 2 feet throughout the channel and at the interior piers. The north interior pier is on the shore and is only exposed to flowing water during high water conditions. Minor turbulence was observed at the upstream nose of the south interior pier. Light debris was detected at the upstream nose of the south interior pier. No erosion or exposed footings were detected. The bottom of the concrete slopewall along the south shoreline is well protected.
Follow up Action:	The Structure Inventory and Appraisal Report was updated. No channel repair work is needed at this time.



LEGEND

(X) Stream Depth Measured at X Feet

DELAWARE COUNTY BRIDGE NO 516
TILLOTSON AVENUE OVER WHITE RIVER
TOP OF COPING TO WATER SURFACE AT 2nd DRAIN FROM SOUTH: 26.2'
MEASURED ON 4/15/03

SUMMARY OF BRIDGE TYPES

CODE	BRIDGE TYPE	DESCRIPTION	Total
104	CTB	CONCRETE TEE BEAM	4
111A	RCA	REINFORCED CONCRETE ARCH	4
111D	PCA	PRECAST CONCRETE ARCH	1
119E	PCAU	PRECAST CONCRETE ARCH - UNDER FILL	1
122	PCB	PRECAST CONCRETE BEAM - (CHANNEL BEAM)	1
201A	CRCS	CONTINUOUS REINFORCED CONCRETE SLAB	41
302A	ESB	ENCASED STEEL BEAM (I-BEAMS)	3
302D	SB	SIMPLE STEEL BEAM	11
302E	SG	SIMPLE STEEL GIRDER	1
302G	KSB	COMPOSITE STEEL BEAM	1
302H	KSG	COMPOSITE STEEL GIRDER (WELDED PLATE)	1
310A	SPT	STEEL PONY TRUSS	2
310B	STT	STEEL THRU TRUSS	5
311	MPA	METAL PIPE ARCH	2
319A	MPAU	MULTIPLATE ARCH - UNDER FILL	15
402D	KCSB	COMPOSITE CONTINUOUS STEEL BEAM	2
402E	KCSG	COMPOSITE CONTINUOUS STEEL GIRDER	2
502	PCIB	PRESTRESSED CONCRETE I-BEAMS	10
505	PCBB	PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE	31
506	PCBB	PRESTRESSED CONCRETE BOX BEAMS - SPREAD	8
602	CPCIB	CONTINUOUS PRESTRESSED CONCRETE I-BEAMS	12
606	CPCBB	CONTINUOUS PRESTRESSED CONCRETE BOX BEAMS - SPREAD	1
701	TS	TIMBER SLAB	34
702A	TB	TIMBER BEAM	1

Total number of bridges:	194
--------------------------	-----

Priority Schedule for Bridge
(1) Replacement (2) Rehabilitation
(3) Widening (4) Repair (5) Eliminate

<u>Category</u>	<u>Priority Number</u>	<u>Bridge No.</u>	<u>Inventory Rating</u>	<u>Year Needed</u>	<u>Estimated Cost (x 1,000)</u>
1					
	1	00107	200	05	460
	2	00112	214	05	250
	3	00045	203	05	450
	4	00204	208	05	120
	5	00161	208	05	485
	6	00226	205	05	290
	7	00159	210	05	55
	8	00191	210	05	140
	9	00002	225	05	160
	10	00016	210	05	160
	11	00194	220	05	45
	12	00015	216	05	135
	13	00087	210	05	140
	14	00245	225	05	150
	15	00158	210	05	140
	16	00127	210	05	140
	17	00035	210	05	205
	18	00199	210	05	60
	19	00207	210	05	75
	20	00085	207	06	450
	21	00103	210	06	240
	22	00050	216	06	120
	23	00064	210	06	130
	24	00507	215	06	120
	25	00121	220	07	160
	26	00137	210	07	115
	27	00513	215	08	869
	28	00130	203	08	465
	29	00088	214	08	225
	30	00013	212	10	250
	31	00269	210	10	40
	32	00156	210	12	90
	33	00108	205	15	200
Category Count:		33	Total Cost - Category 1 :		7134

Priority Schedule for Bridge
 (1) Replacement (2) Rehabilitation
 (3) Widening (4) Repair (5) Eliminate

<u>Category</u>	<u>Priority Number</u>	<u>Bridge No.</u>	<u>Inventory Rating</u>	<u>Year Needed</u>	<u>Estimated Cost (x 1,000)</u>
2					
	1	00512	236	05	2000
	2	00520	236	05	270
	3	00196	220	05	30
	4	00516	236	05	270
	5	00195	236	05	110
	6	00122	220	05	120
	7	00141	236	05	410
	8	00125	225	05	70
	9	00020	236	05	180
	10	00193	236	05	200
	11	00701	227	05	110
	12	00055	236	05	60
	13	00146	236	05	82
	14	00051	236	05	65
	15	00123	236	05	30
	16	00205	236	05	10
	17	00059	236	05	10
	18	00100	236	05	38
	19	00003	236	05	60
	20	00058	236	05	100
	21	00099	236	05	10
	22	00190	210	05	10
	23	00084	236	05	290
	24	00180	236	07	30
Category Count:		24		Total Cost - Category 2 :	4565
3					
	1	00069	227	05	175
Category Count:		1		Total Cost - Category 3 :	175
4					
	1	00509	236	05	40
	2	00068	236	05	26
	3	00022	236	05	8
	4	00518	236	05	3

Priority Schedule for Bridge
 (1) Replacement (2) Rehabilitation
 (3) Widening (4) Repair (5) Eliminate

<u>Category</u>	<u>Priority Number</u>	<u>Bridge No.</u>	<u>Inventory Rating</u>	<u>Year Needed</u>	<u>Estimated Cost (x 1,000)</u>
	5	00165	236	05	8
	6	00040	210	05	10
	7	00170	235	05	12
	8	00092	229	05	4
	9	00135	236	05	17
	10	00268	236	05	63
	11	00056	236	05	12
	12	00515	225	05	3
	13	00053	236	05	4
	14	00270	236	05	14
	15	00244	229	05	12
	16	00271	236	05	0
	17	00140	236	05	0
	18	00503	215	05	5
	19	00502	236	05	68
	20	00052	236	05	4
	21	00047	236	05	3
	22	00118	213	05	40
	23	00061	236	05	4
	24	00075	234	05	15
	25	00054	236	05	33
	26	00093	236	05	12
	27	00109	236	05	5
	28	00110	236	05	7
	29	00126	236	05	20
	30	00143	236	05	12
	31	00514	220	05	1
	32	00164	236	05	7
	33	00098	236	05	0
	34	00089	236	05	2
	35	00213	236	05	12
	36	00133	236	05	4
	37	00097	236	05	2
	38	00179	236	05	9
	39	00198	236	05	11
	40	00210	236	05	1

Priority Schedule for Bridge
 (1) Replacement (2) Rehabilitation
 (3) Widening (4) Repair (5) Eliminate

<u>Category</u>	<u>Priority Number</u>	<u>Bridge No.</u>	<u>Inventory Rating</u>	<u>Year Needed</u>	<u>Estimated Cost (x 1,000)</u>
	41	00065	236	05	2
	42	00602	236	05	4
	43	00519	236	05	7
	44	00046	236	05	8
	45	00006	236	05	10
	46	00063	236	05	13
	47	00111	236	05	8
	48	00144	236	05	10
	49	00167	236	05	1
	50	00033	236	05	4
	51	00057	236	05	3
	52	00018	236	05	4
	53	00105	236	05	2
	54	00113	236	05	1
	55	00209	236	05	6
	56	00202	236	05	2
	57	00042	236	05	10
	58	00017	230	05	12
	59	00021	236	05	50
	60	00106	230	05	8
	61	00508	236	05	4
	62	00070	236	05	2
	63	00043	236	05	1
	64	00076	222	05	0
	65	00012	236	05	6
	66	00153	236	05	0
	67	00001	236	05	10
	68	00115	230	05	15
	69	00517	225	05	6
	70	00101	236	05	2
	71	00132	236	05	10
	72	00149	236	05	13
	73	00163	236	05	6
	74	00026	236	05	0
	75	00008	236	05	6
	76	00031	236	05	0

Priority Schedule for Bridge
 (1) Replacement (2) Rehabilitation
 (3) Widening (4) Repair (5) Eliminate

<u>Category</u>	<u>Priority Number</u>	<u>Bridge No.</u>	<u>Inventory Rating</u>	<u>Year Needed</u>	<u>Estimated Cost (x 1,000)</u>
	77	00048	236	05	1
	78	00124	236	05	7
	79	00148	236	05	12
	80	00189	236	05	2
	81	00511	236	05	8
	82	00005	236	05	4
	83	00029	236	05	1
	84	00032	236	05	0
	85	00049	210	05	7
	86	00128	236	05	8
	87	00138	236	05	9
	88	00171	236	05	20
	89	00192	236	05	0
	90	00183	236	05	1
	91	00030	227	05	0
	92	00037	236	05	4
	93	00120	236	05	4
	94	00129	236	05	1
	95	00131	236	05	1
	96	00224	236	05	4
	97	00038	220	05	0
	98	00044	216	05	3
	99	00086	230	05	5
	100	00160	232	05	1
	101	00274	236	05	1
	102	00039	236	05	3
	103	00091	236	05	10
	104	00168	236	05	0
	105	00201	236	05	0
	106	00506	236	05	2
	107	00074	236	05	1
	108	00082	236	05	25
	109	00152	236	05	7
	110	00169	236	05	6
	111	00172	232	05	0
	112	00134	200	05	1

Priority Schedule for Bridge
 (1) Replacement (2) Rehabilitation
 (3) Widening (4) Repair (5) Eliminate

<u>Category</u>	<u>Priority Number</u>	<u>Bridge No.</u>	<u>Inventory Rating</u>	<u>Year Needed</u>	<u>Estimated Cost (x 1,000)</u>
	113	00014	236	05	4
	114	00073	236	05	4
	115	00095	236	05	2
	116	00177	236	05	2
	117	00197	236	05	0
	118	00200	236	05	0
	119	00275	236	05	6
	120	00027	236	05	0
	121	00505	236	05	0
	122	00272	236	06	1
	123	00062	236	06	20
	124	00504	236	06	8
	125	00067	236	06	3
	126	00034	236	06	1
	127	00090	236	06	2
	128	00066	236	06	4
	129	00072	236	07	6
	130	00501	236	12	405
Category Count:	130			Total Cost - Category 4 :	1386

**LISTING OF BRIDGES ON WATERWAYS CLASSIFIED
AS NAVIGABLE BY THE U.S. COAST GUARD**

None

**LISTING OF BRIDGES ON WATERWAYS CLASSIFIED
AS NAVIGABLE BY THE INDIANA
DEPARTMENT OF NATURAL RESOURCES**

BRIDGE	ROAD CARRIED	WATERWAY INTERSECTED
14	RD 375 W	MISSISSINEWA RIVER
20	WALNUT STREET	MISSISSINEWA RIVER
21	RD 1100 N	MISSISSINEWA RIVER
27	RD 175 E	MISSISSINEWA RIVER
39	RD 371 E	MISSISSINEWA RIVER
45	RD 850 N	MISSISSINEWA RIVER
84	DOWDEN AVENUE	MISSISSINEWA RIVER
85	RD 800 E	MISSISSINEWA RIVER
95	RD 525 E	MISSISSINEWA RIVER
107	RD 700 N	MISSISSINEWA RIVER
123	RIVER ROAD	WHITE RIVER
124	RD 400 W	WHITE RIVER
130	RD 300 S	WHITE RIVER
131	RD 750 W	WHITE RIVER
141	RD 570 W, TIGER RD	WHITE RIVER
148	RD 266 S	WHITE RIVER
149	RD 430 E	WHITE RIVER
152	RD 700 E	WHITE RIVER
161	RD 170 S	WHITE RIVER
193	MEMORIAL DRIVE	WHITE RIVER
503	MEEK AVENUE	WHITE RIVER
504	NICHOLS AVENUE	WHITE RIVER
506	ELM STREET	WHITE RIVER
510	WALNUT STREET	WHITE RIVER
512	HIGH STREET	WHITE RIVER
513	JACKSON STREET	WHITE RIVER
514	BROADWAY AVENUE	WHITE RIVER
516	TILLOTSON AVENUE	WHITE RIVER

This page intentionally left blank.

DELAWARE COUNTY

STRUCTURE INVENTORY AND APPRAISAL SHEETS

FOR BRIDGES 1 TO 701

Bridge No. 1



Looking North



Looking Northwest

STRUCTURE INVENTORY AND APPRAISAL REPORT

BRIDGE NO. 00001

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00001
8A. NBI Number:	1800001	8C. Old Bridge Number:	
5A. Inventory Route On:	141000970	5B. Rd. Number On:	0097
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	PIPE CREEK		
7. Facility Carried:	RD 925 W		
9A. Location:	980N 925W	9B Map Location:	A-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 19.9 Min.	17. Longitude:	085 Deg. 33.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1961	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000200	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0025.0 Feet	49. Structure Length:	0067.0 Feet
50. Sidewalk/Curb Left:	91.0 Right: 01.0		
51. Bridge Roadway Width:	022.2 Feet	52. Deck Width (o-o):	025.9 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	10 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	22.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00001

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-POPOUTS, MINOR CRACKS	6
59. Super:	CONTINUOUS REINF CONC SLAB	FAIR-MINOR CRACKING, SEEPAGE	7
60. Sub:	CONC PILE BENTS & ABUTS	GOOD-CRACKS	7
61. Channel:	CONCRETE SLOPEWALL	FAIR-N SLOPEWALL UNDERMINED	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - ROUGH, CRACKED	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	POPOUTS, SEEPAGE AT DRAINS	7
68. Geometry:	TWO LANES - NARROW	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT AND LEVEL, FIELD ENTRANCES	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00001

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
**CLEAN AND SEAL THE DECK. INSTALL APPROACH GUARDRAIL AND CURB TRANSITIONS.
REPAIR THE NORTH SLOPEWALL AND PIPE. FILL VOIDS UNDER THE SLOPEWALL.**

76. Improvement Length: 000067 feet
94. Bridge Imp. Costs: \$ 10 X 1000
95. Rdwy. Imp. Costs: \$ 10 X 1000
96. Total Project Costs: \$ 20 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000410
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/18/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	03	years
B. Deck:	18	years
C. Joints:	NA	years
D. Superstructure:	18	years
E. Substructure:	18	years
F. Approach:	02	years
G. Channel:	12	years
H. Culvert:	NA	years

Remarks:

THERE ARE FIELD ENTRANCES AT THREE CORNERS. ALL THE END MARKERS ARE MISSING. THE NORTH SLOPEWALL IS UNDERMINED AT THE TOP AND AT THE PIPE OUTLET; THE PIPE IS RUSTED AND FAILED. THE SLAB IS SPALLED BELOW AT THE EAST COPING SOUTH OF THE SOUTH PIER. THE EXPOSED ENDS OF THE CURBS POSE CRASH HAZARDS. THE WEARING SURFACE HAS SCALING AND RANDOM HAIRLINE CRACKS. THE SLAB HAS A HAIRLINE CRACK ALONG THE CENTERLINE BELOW AND OTHER RANDOM HAIRLINE CRACKS. THREE PILE ENCASEMENTS HAVE HAIRLINE AND NARROW CRACKS.

Bridge No. 2



Looking West



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00002

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00002
8A. NBI Number:	1800002	8C. Old Bridge Number:	
5A. Inventory Route On:	141002080	5B. Rd. Number On:	0208
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	PIPE CREEK		
7. Facility Carried:	RD 950 N		
9A. Location:	950N 800W	9B Map Location:	B-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 19.7 Min.	17. Longitude:	085 Deg. 32.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1920	106A. Reconstructed:	1975
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000250	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0031.0 Feet	49. Structure Length:	0038.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	019.8 Feet	52. Deck Width (o-o):	020.1 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	19.8 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00002

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 08 MINOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	BOX BEAMS W/ ASPHALT W.S.	FAIR-CRACKED WEARING SURFACE	6
59. Super:	PRESTRESSED BOX BEAMS	GOOD-MINOR SEEPAGE	7
60. Sub:	CONCRETE ABUTMENTS	POOR-SPALLED; FTGS DETERIOR	3
61. Channel:	EARTH/VEGETATION	POOR-EROSION	3
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - SETTLED, ROUGH	5

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 230
66A. Inventory Rating: 225 64B. Year of Rating:
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	BOX BEAMS ON OLD ABUTS; ABUTS DAMAGED	3
68. Geometry:	TWO LANES - NARROW	3
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE OPENING AND SKEW	5
72. Roadway Alignment:	STRAIGHT AND LEVEL	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	3 SCOUR CRIT. - UNSTABLE	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00002

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE THE BRIDGE BY CONTRACT.

76. Improvement Length: 000038 feet
94. Bridge Imp. Costs: \$ 160 X 1000
95. Rdwy. Imp. Costs: \$ 25 X 1000
96. Total Project Costs: \$ 185 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000510
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/18/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	12	years
B. Deck:	20	years
C. Joints:	NA	years
D. Superstructure:	20	years
E. Substructure:	02	years
F. Approach:	05	years
G. Channel:	01	years
H. Culvert:	NA	years

Remarks:

THE FOOTINGS ARE EXPOSED. THE WEST ABUTMENT IS UNDERMINED AND HEAVILY SPALLED. THE ABUTMENTS ARE CRACKED AND DETERIORATED. THE CONCRETE AT THE BASE OF THE ABUTMENTS IS ROTTEN, ESPECIALLY AT THE WEST ABUTMENT, WHERE THE FACE OF THE BASE HAS FALLEN AWAY FROM THE ABUTMENT. THE FACE OF THE EAST ABUTMENT IS SLANTED WHILE THE FACE OF THE WEST ABUTMENT IS VERTICAL. TWO END MARKERS ARE IN PLACE - THESE ARE SOLID COLOR. THE BRIDGE RAIL IS LOW (24") AND ONE CONNECTION IS DAMAGED. THE DATE BUILT HAS BEEN CHANGED TO REFLECT THE APPROXIMATE DATE OF THE ORIGINAL CONSTRUCTION DATE - BEAMS WERE PLACED ON THE OLD ABUTMENTS IN 1975.

Bridge No. 3



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

BRIDGE NO. 00003

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00003
8A. NBI Number:	1800003	8C. Old Bridge Number:	
5A. Inventory Route On:	141000090	5B. Rd. Number On:	0009
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	PIPE CREEK		
7. Facility Carried:	RD 850 W		
9A. Location:	1030N 850W	9B Map Location:	B-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 20.4 Min.	17. Longitude:	085 Deg. 32.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	502 PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	8 Unknown	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1968	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000200	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0053.0 Feet	49. Structure Length:	0056.0 Feet
50. Sidewalk/Curb Left:	00.8 Right: 00.8		
51. Bridge Roadway Width:	024.9 Feet	52. Deck Width (o-o):	026.5 Feet
32. Approach Roadway Width:	025 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	20 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	25.7 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00003

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-CRACKS & EFFLOR BELOW	6
59. Super:	PRESTRESSED I-BEAMS	GOOD-BEAMS AGAINST MUDWALL	7
60. Sub:	CONCRETE ABUTMENTS	GOOD	7
61. Channel:	RIPRAP	FAIR-N ABUTMENT UNDERMINED	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - ROUGH, RUTTED	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SOME EFFLORESCENCE. BEAMS AGAINST MUDWALLS.	7
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE; BEND IN CHANNEL TO EAST	6
72. Roadway Alignment:	STRAIGHT & LEVEL, FIELD ENTRANCES ALL CORNERS	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00003

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT

Describe Item 75:

PLACE A MODIFIED P.C.C. OVERLAY ON THE DECK. INSTALL APPROACH RAILS AND ADD CURB TRANSITIONS. REPAIR THE UNDERMINED ENDBENT. REPAVE THE APPROACHES. REPAIR THE RAIL POST CONNECTION AND THE DAMAGED RAIL SECTION.

76. Improvement Length: 000056 feet

94. Bridge Imp. Costs: \$ 60 X 1000

95. Rdwy. Imp. Costs: \$ 12 X 1000

96. Total Project Costs: \$ 72 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 000410

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/18/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	02	years
B. Deck:	15	years
C. Joints:	NA	years
D. Superstructure:	30	years
E. Substructure:	30	years
F. Approach:	02	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

THE NORTH ABUTMENT IS UNDERMINED. THREE END MARKERS ARE MISSING. THE WEARING SURFACE IS CRACKED AND SCALING. THERE ARE MINOR CRACKS AND EFFLORESCENCE BELOW THE DECK AT THE SOUTHWEST CORNER. THE NORTHWEST RAIL POST CONNECTION AND ONE SECTION OF THE TOP OF THE EAST RAIL ARE DAMAGED. THERE IS HEAVY DEBRIS AT THE TOP OF THE NORTH BANK UNDER THE BRIDGE. THE APPROACHES ARE SETTLED AND ROUGH. THE ENDS OF THE BEAMS BUTT AGAINST THE MUDWALLS: EXPANSION JOINT MATERIAL AND SOME DEBRIS (STONES) ARE IN PLACE BETWEEN THE BEAMS AND MUDWALLS.

Bridge No. 5



Looking East



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

BRIDGE NO. 00005

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00005
8A. NBI Number:	1800005	8C. Old Bridge Number:	
5A. Inventory Route On:	141000760	5B. Rd. Number On:	0076
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	FINLEY-MANARD DITCH		
7. Facility Carried:	RD 850 N		
9A. Location:	850N 850W	9B Map Location:	B-9
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 18.8 Min.	17. Longitude:	085 Deg. 32.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	001
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1987	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1991
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000095	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.0 Feet	49. Structure Length:	0026.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	027.0 Feet
51. Bridge Roadway Width:	024.0 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	024 Feet	35. Structure Flared:	0 NO
34. Skew:	18 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.0 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00005**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
104A. Highway System - Over: **0 NON FA** 104B. - Under:
26A. Functional Class Over: **09 LOCAL - RURAL**
26B. Functional Class Under:
100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-W.S. WORN AND ROUGH	7
59. Super:	TIMBER SLAB	FAIR-LIGHT SEEPAGE,SOME SAG	6
60. Sub:	TIMBER	GOOD	7
61. Channel:	RIPRAP	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - FAIR, SETTLED	6

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
64A. Operating Rating: **242**
66A. Inventory Rating: **236** 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: **5 LEGAL LIMIT**
41. Open, Posted, or Closed: **A OPEN**
66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SOME SAG. GAP BETWEEN SPREADER BM & DECK	6
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT AND LEVEL, FIELD ENTRANCES SW & NW	7
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00005

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL FOUR END MARKERS. TIGHTEN THE NUTS ON THE SPREADER BEAM. RESURFACE THE BRIDGE DECK AND APPROACHES. REPLACE THE POST AT THE SOUTHEAST BURIED END.

76. Improvement Length: 000026 feet
94. Bridge Imp. Costs: \$ 4 X 1000
95. Rdwy. Imp. Costs: \$ 10 X 1000
96. Total Project Costs: \$ 14 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000165
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/18/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	02	years
B. Deck:	18	years
C. Joints:	NA	years
D. Superstructure:	18	years
E. Substructure:	18	years
F. Approach:	08	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

NO END MARKERS ARE POSTED. THE TIMBER RAIL IS NOT STANDARD. THERE IS SOME COLLISION DAMAGE TO THE SOUTHEAST BURIED END AND RAIL. THE TOP TIMBER OF THE NORTHWEST WING IS SPLIT.

Bridge No. 6



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

BRIDGE NO. 00006

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00006
8A. NBI Number:	1800006	8C. Old Bridge Number:	
5A. Inventory Route On:	141000150	5B. Rd. Number On:	0015
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	PIPE CREEK		
7. Facility Carried:	RD 750 W		
9A. Location:	930N 750W	9B Map Location:	B-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 19.6 Min.	17. Longitude:	085 Deg. 31.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	001
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1987	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1991
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000311	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0030.0 Feet	49. Structure Length:	0032.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	027.6 Feet
51. Bridge Roadway Width:	024.4 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	019 Feet	35. Structure Flared:	0 NO
34. Skew:	19 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.4 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00006

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 08 MINOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-LONGITUDINAL CRACKS	5
59. Super:	TIMBER SLAB	FAIR-LOOSE NUTS, SAG	6
60. Sub:	TIMBER CAP ON TIMBER PILES	GOOD	7
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPH-ROUGH,CRACKED,SETTLED	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 242
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SLAB SAGS. LOOSE/MISSING NUTS ON SPREADER BM	6
68. Geometry:	TWO LANES - SOMEWHAT NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	STRAIGHT AND LEVEL	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00006

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

REPAIR LOOSE OR MISSING NUTS ON THE SPREADER BEAM AND BRIDGE RAIL. DRAW THE SPREADER BEAM TIGHT TO THE SLAB. REMOVE THE WEARING SURFACE. RESURFACE THE BRIDGE DECK AND APPROACHES. REPAIR THE UNDERMINING AT THE SOUTH MUDWALL.

76. Improvement Length: 000032 feet

94. Bridge Imp. Costs: \$ 10 X 1000

95. Rdwy. Imp. Costs: \$ 7 X 1000

96. Total Project Costs: \$ 17 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 000510

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/18/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	01	years
B. Deck:	12	years
C. Joints:	NA	years
D. Superstructure:	12	years
E. Substructure:	12	years
F. Approach:	05	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THE TIMBER SLAB IS SAGGING. NUTS ARE MISSING FROM SEVERAL RAIL POSTS AND FROM THE SPREADER BEAM. THE SLAB AND SPREADER BEAM ARE NOT DRAWN TIGHT TOGETHER. THE APPROACHES ARE SETTLED AND ROUGH AT THE BRIDGE ENDS. THE SOUTH MUDWALL IS UNDERMINED. THE TIMBER RAIL IS NOT STANDARD. TWO OF FOUR END MARKERS ARE MISSING.

Bridge No. 8



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

BRIDGE NO. 00008

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00008
8A. NBI Number:	1800008	8C. Old Bridge Number:	
5A. Inventory Route On:	141002160	5B. Rd. Number On:	0216
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	PIPE CREEK		
7. Facility Carried:	RD 900 N		
9A. Location:	900N 645W	9B Map Location:	B-9
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 19.3 Min.	17. Longitude:	085 Deg. 30.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	001
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1987	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000100	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0030.0 Feet	49. Structure Length:	0032.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	027.0 Feet
51. Bridge Roadway Width:	024.0 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	016 Feet	35. Structure Flared:	0 NO
34. Skew:	32 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.0 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00008

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-CRACKING IN W.S.	7
59. Super:	TIMBER SLAB	GOOD-SLIGHT SAG	7
60. Sub:	TIMBER BENTS & WINGWALLS	GOOD	8
61. Channel:	RIPRAP	FAIR-EXPOSED GEOTEXTILES	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - FAIR, SETTLED	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR STRUCTURAL PROBLEMS. W.S. CRACKED.	7
68. Geometry:	TWO LANES	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	STRAIGHT AND LEVEL	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00008

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
WEDGE THE APPROACHES. CRACKSEAL AND RESURFACE THE BRIDGE DECK. REPLACE MISSING RIPRAP. TIGHTEN NUTS ON THE SPREADER BEAM. REPLACE ROTTED TERMINAL RAIL POSTS.

76. Improvement Length: 000032 feet
94. Bridge Imp. Costs: \$ 6 X 1000
95. Rdwy. Imp. Costs: \$ 7 X 1000
96. Total Project Costs: \$ 13 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/18/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	01	years
B. Deck:	12	years
C. Joints:	NA	years
D. Superstructure:	12	years
E. Substructure:	12	years
F. Approach:	03	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

TWO OF FOUR END MARKERS ARE MISSING. THE TIMBER RAIL IS NOT STANDARD. THERE IS A GAP BETWEEN THE SPREADER BEAM AND THE SLAB. SEVERAL TERMINAL RAIL POSTS ARE ROTTED. THE BRIDGE SLAB HAS A SLIGHT SAG.

Bridge No. 9



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

BRIDGE NO. 00009

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00009
8A. NBI Number:	1800009	8C. Old Bridge Number:	
5A. Inventory Route On:	141000820	5B. Rd. Number On:	0082
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	PIPE CREEK		
7. Facility Carried:	RD 1000 N		
9A. Location:	1000N 800W	9B Map Location:	B-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 20.2 Min.	17. Longitude:	085 Deg. 32.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:	000		
44A. Str. Type - Approach	000 NONE	46. No. of Spans - Appr:	0000 NONE
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	02 Inches

AGE AND SERVICE:

27A. Year Built:	2004	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000200	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.8 Feet	49. Structure Length:	0062.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4		
51. Bridge Roadway Width:	026.1 Feet	52. Deck Width (o-o):	027.5 Feet
32. Approach Roadway Width:	026 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	26.1 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00009

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	GOOD-NEW	8
59. Super:	TIMBER SLAB	GOOD-NEW	8
60. Sub:	TIMBER CAP ON TIMBER PILES	GOOD-NEW	8
61. Channel:	RIPRAP	GOOD-NEW	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT-GOOD-SLIGHT SETTLE	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 228
66A. Inventory Rating: 220 64B. Year of Rating: 2004
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NEW-LOW INVENTORY RATING FOR ADT	5
68. Geometry:	TWO LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT AND LEVEL	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	8 STABLE - EXEL. COND.	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00009

PROPOSED IMPROVEMENTS:

73. Year Needed:
75. Type of Work:
Describe Item 75:

76. Improvement Length: 000000 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 0 X 1000
97. Year of Cost Estimate:
114. Future ADT: 000410
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/18/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: 12 years
B. Deck: 30 years
C. Joints: NA years
D. Superstructure: 30 years
E. Substructure: 30 years
F. Approach: 20 years
G. Channel: 25 years
H. Culvert: NA years

Remarks:

A TIMBER SLAB BRIDGE HAS REPLACED THE SIMPLE STEEL BEAM BRIDGE SINCE THE LAST INSPECTION. THERE IS A FIELD ENTRANCE AT THE SOUTHWEST CORNER.

Bridge No. 12



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00012

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00012
8A. NBI Number:	1800010	8C. Old Bridge Number:	
5A. Inventory Route On:	141001690	5B. Rd. Number On:	0169
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	STUDEBAKER DITCH		
7. Facility Carried:	RD 300 W		
9A. Location:	1030N 300W	9B Map Location:	D-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 20.3 Min.	17. Longitude:	085 Deg. 26.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1969	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000200	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	05 5 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0028.0 Feet	49. Structure Length:	0074.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	022.3 Feet	52. Deck Width (o-o):	024.0 Feet
32. Approach Roadway Width:	015 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	22.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00012

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-LIGHT POPOUTS	7
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD-MINOR EFFLOR, 1 SPALL	7
60. Sub:	CONCRETE PILE BENTS	GOOD-SLIGHTLY UNDERCUT BENTS	7
61. Channel:	RIPRAP/EARTH/VEG	GOOD-SETTLED AT S ENDBENT	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD - CHIP & SEAL	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	POPOUT IN SLAB, MINOR EFFLORESCENCE	7
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	FIELD ENTRANCE NE, DRIVE SE, STRAIGHT	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00012

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

EXTEND THE APPROACH RAIL AT ALL THE CORNERS. ADD TRANSITION RAIL POSTS AND CURB TRANSITIONS. CLEAN AND SEAL THE DECK. ADD RIPRAP AT THE ENDBENTS. RESECURE THE NORTHEAST AND SOUTHWEST END MARKER.

76. Improvement Length: 000074 feet

94. Bridge Imp. Costs: \$ 6 X 1000

95. Rdwy. Imp. Costs: \$ 12 X 1000

96. Total Project Costs: \$ 18 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 000410

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/4/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	12	years
B. Deck:	21	years
C. Joints:	NA	years
D. Superstructure:	21	years
E. Substructure:	28	years
F. Approach:	12	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

THE CURBS ARE CRACKED AT THE DRAINS. END MARKERS ARE IN PLACE BUT TWO ARE LEANING. THE DECK IS SPALLED AT THE BOTTOM AT THE NORTHWEST DRAIN AND THE MIDDLE SPAN AT THE EAST CONSTRUCTION JOINT. THE WEARING SURFACE IS NOT TEXTURED. THERE ARE VERTICAL HAIRLINE CRACKS IN THE COPINGS AT MIDSPAN AND OVER THE PIERS. THERE ARE TRANSVERSE HAIRLINE CRACKS IN THE BOTTOM OF THE DECK AT THE INTERIOR BENT CAPS.

Bridge No. 13



Looking West



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00013

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00013
8A. NBI Number:	1800011	8C. Old Bridge Number:	
5A. Inventory Route On:	141000900	5B. Rd. Number On:	0090
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	PIKE CREEK		
7. Facility Carried:	RD 1200 N		
9A. Location:	1190N 375W	9B Map Location:	D-11
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 21.8 Min.	17. Longitude:	085 Deg. 27.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	03 Inches

AGE AND SERVICE:

27A. Year Built:	1954	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000805	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	05 5 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0030.0 Feet	49. Structure Length:	0077.0 Feet
50. Sidewalk/Curb Left:	01.0 Right: 01.0		
51. Bridge Roadway Width:	022.2 Feet	52. Deck Width (o-o):	027.0 Feet
32. Approach Roadway Width:	019 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	22.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00013

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-9618 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	FAIR-CURB SPALLED	6
59. Super:	CONCRETE SLAB	FAIR-EFFLORESCENCE, CRACKS	5
60. Sub:	CONCRETE	FAIR-EFFLOR, UNDERMINED	6
61. Channel:	CONCRETE SLOPEWALL	FAIR-CRACKED	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - FAIR, WEDGED	6

LOAD RATING AND POSTING:

31. Design Load: 2 H-15
64A. Operating Rating: 224
66A. Inventory Rating: 212 64B. Year of Rating: 1984
66B. Gross Tons or H Rating: 12
70. Bridge Posting: 4 12 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 12 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	CRACKS, EFFLOR, LOW LOAD RATING FOR ADT	2
68. Geometry:	TWO LANES - NARROW	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	DRIVEWAY SE; HILLS EAST AND WEST	5
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	H MISC. STEEL RAILINGS	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00013

PROPOSED IMPROVEMENTS:

73. Year Needed: 2010
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE THE BRIDGE BY CONTRACT. MEANWHILE, REPAIR THE APPROACH RAIL. ADD APPROACH RAIL POSTS AND UPDATE THE TRANSITIONS. ADD AN END MARKER TO THE NORTHWEST CORNER.

76. Improvement Length: 000100 feet
94. Bridge Imp. Costs: \$ 250 X 1000
95. Rdwy. Imp. Costs: \$ 50 X 1000
96. Total Project Costs: \$ 300 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 001350
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	10	years
B. Deck:	12	years
C. Joints:	NA	years
D. Superstructure:	11	years
E. Substructure:	11	years
F. Approach:	08	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

THE ENDBENT CAPS ARE UNDERMINED. THE APPROACH RAILS ARE LOW. THE SOUTHEAST APPROACH RAIL IS DAMAGED. THE SHOULDERS DROP OFF. THE WEST INTERIOR BENT CAP IS CRACKED AND EFFLORESCING. SOME OF THE PILE ENCASEMENTS ARE CRACKED AND LIGHTLY SPALLED.

Bridge No. 14



Looking North



Looking Northwest

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00014

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00014
8A. NBI Number:	1800012	8C. Old Bridge Number:	
5A. Inventory Route On:	141001570	5B. Rd. Number On:	0157
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MISSISSINewa RIVER		
7. Facility Carried:	RD 375 W		
9A. Location:	1250N 375W	9B Map Location:	D-11
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 22.2 Min.	17. Longitude:	085 Deg. 27.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	602 CONTINUOUS PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1993	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000300	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	08 8 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0096.0 Feet	49. Structure Length:	0284.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	025.5 Feet	52. Deck Width (o-o):	028.6 Feet
32. Approach Roadway Width:	021 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	25.5 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00014

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE ON METAL DECK PANS	GOOD-MINOR CRACKS IN W.S.	7
59. Super:	PRESTRESSED CONC I-BEAM	GOOD	8
60. Sub:	CONCRETE-INTEGRAL ENDBENTS	GOOD	8
61. Channel:	RIPRAP/NATURAL	GOOD-TURBULENCE AT INT PIER	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		GOOD-ASPH LOSS AT APPR PADS	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 240
66A. Inventory Rating: 236 64B. Year of Rating: 1994
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR CRACKS IN W.S., DIAPHRAGMS SPALLED	8
68. Geometry:	TWO LANES	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE. CHANNEL CURVES	8
72. Roadway Alignment:	CURVES AT BOTH ENDS, LEVEL	5
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	A CONC. BARRIER RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	D CONC. SPREAD FOOTINGS - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00014

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
SEAL THE DECK. ADD FOUR END MARKERS. WEDGE THE APPROACHES AT THE ENDS OF THE CONCRETE APPROACH PADS. REPAIR THE GROUT AT THE BEAM ENDS OVER THE PIERS.

76. Improvement Length: 000284 feet
94. Bridge Imp. Costs: \$ 4 X 1000
95. Rdwy. Imp. Costs: \$ 2 X 1000
96. Total Project Costs: \$ 6 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000620
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/4/2005
92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A
93. Crit. Feat. Insp. Date: A: B: 0403 C:

91. Des. Insp. Frequency: 24 months

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	30	years
B. Deck:	35	years
C. Joints:	NA	years
D. Superstructure:	50	years
E. Substructure:	50	years
F. Approach:	20	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

NO END MARKERS ARE POSTED. THERE IS A SURVEY BENCHMARK AT THE SOUTHWEST CORNER. THE DIAPHRAGMS ARE SPALLED OVER THE PIERS. THERE ARE BURROWS UNDER THE NORTH APPROACH PAD. THE APPROACHES ARE SOMEWHAT ROUGH AT THE ENDS OF THE CONCRETE PADS. THE GROUT AT THE BEAM ENDS OVER THE PIERS IS CRACKED VERTICALLY. THE COPINGS ARE CRACKED OVER THE PIERS. PERMANENT CORRUGATED METAL DECK PANS WERE USED IN CONSTRUCTING THE DECK.

Bridge No. 15



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00015

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00015
8A. NBI Number:	1800013	8C. Old Bridge Number:	
5A. Inventory Route On:	141003350	5B. Rd. Number On:	0335
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	HAYDEN DITCH		
7. Facility Carried:	WHEELING AVENUE		
9A. Location:	970N 385W	9B Map Location:	D-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 19.9 Min.	17. Longitude:	085 Deg. 27.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1965	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1991
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001500	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0026.0 Feet	49. Structure Length:	0028.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4		
51. Bridge Roadway Width:	029.3 Feet	52. Deck Width (o-o):	030.0 Feet
32. Approach Roadway Width:	023 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	30 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	29.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00015**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
104A. Highway System - Over: **0 S-4318** 104B. - Under:
26A. Functional Class Over: **07 MAJOR COLLECTOR - RURAL**
26B. Functional Class Under:
100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TOP OF BEAMS W/ ASPHALT W.S.	FAIR-CRACKS AT ENDBENTS	6
59. Super:	PRESTRESSED BOX BEAMS	FAIR-SEEPAGE AT JTS; CRACKS	5
60. Sub:	TIMBER ENDBENTS	POOR-AREA OF ROT AT S CAP	4
61. Channel:	EARTH/VEGETATION	FAIR-FLOW AGAINST ENDBENTS	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT-FAIR-CRACKED	6

LOAD RATING AND POSTING:

31. Design Load: **0 OTHER/UNKNOWN**
64A. Operating Rating: **218**
66A. Inventory Rating: **216** 64B. Year of Rating:
66B. Gross Tons or H Rating: **16**
70. Bridge Posting: **5 LEGAL LIMIT**
41. Open, Posted, or Closed: **A OPEN**
66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SOUTH BENT CAP HAS AREA OF DECAY	4
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE	5
72. Roadway Alignment:	STRAIGHT AND LEVEL, FIELD ENTRANCE NORTHWEST	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00015

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE THE BRIDGE BY CONTRACT DUE TO DECAY IN THE SUBSTRUCTURE AND THE CONDITION OF THE BEAMS.

76. Improvement Length: 000028 feet
94. Bridge Imp. Costs: \$ 135 X 1000
95. Rdwy. Imp. Costs: \$ 30 X 1000
96. Total Project Costs: \$ 165 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 002840
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	10	years
B. Deck:	20	years
C. Joints:	NA	years
D. Superstructure:	12	years
E. Substructure:	01	years
F. Approach:	12	years
G. Channel:	05	years
H. Culvert:	NA	years

Remarks:

THERE IS ROT IN THE SOUTH BENT CAP; THERE IS ONE AREA OF CONSIDERABLE DECAY WHICH HAS WORSENERD SINCE THE LAST INSPECTION. THE NORTH CAP HAS SOME DECAY AT THE WEST END. AT LEAST ONE PILE HAS SOME INNER ROT THE BOX BEAMS ARE CRACKED AND SPALLED ALONG THE EDGES BELOW; STRANDS ARE RUSTED THROUGH IN ONE BEAM. THERE IS AN ELECTRIC FENCE ON EACH SIDE OF THE BRIDGE AND ATTACHED TO THE ENDBENT CAPS. A CATTLE GATE IS IN PLACE AT THE WEST SIDE. END MARKERS ARE IN PLACE. THE ENDS OF THE CURBS ARE EXPOSED AND POSE CRASH HAZARDS. THERE ARE STEEP DROP-OFFS AT THE WINGS WHICH ARE UNPROTECTED BY GUARDRAIL.

Bridge No. 16



Looking West



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00016

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00016
8A. NBI Number:	1800196	8C. Old Bridge Number:	
5A. Inventory Route On:	141002380	5B. Rd. Number On:	0238
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	BIG LICK CREEK		
7. Facility Carried:	RD 1275 N		
9A. Location:	1275N 315W	9B Map Location:	D-11
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 22.6 Min.	17. Longitude:	085 Deg. 26.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	319A MULTIPLATE ARCH - UNDER FILL		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	N Not Applicable	108B. Membrane:	N Not Applicable
108C. Protection:	N Not Applicable	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1960	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000159	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	05 5 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0013.0 Feet	49. Structure Length:	0031.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	000.0 Feet	52. Deck Width (o-o):	000.0 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	49.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00016

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	N/A		N/A
59. Super:	N/A		N/A
60. Sub:	N/A		N/A
61. Channel:	CONCRETE RUBBLE	POOR-EROSION, DAMAGED INLET	4
62. Culv/Ret:	STEEL PIPE	POOR-LARGE DEFLECTION, RUST	3
65. Approach Roadway:		FAIR-ROUGH PAVEMENT	6

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 212
66A. Inventory Rating: 210 64B. Year of Rating: 1984
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON LIMIT AND "HIGH WATER"
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	DEFLECTION, INLET DAMAGED, LOW LOAD RATING	2
68. Geometry:	NARROW - ON CURVE & HILL	N/A
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE. SPILLWAY OVER ROAD EAST OF PIPES	4
72. Roadway Alignment:	CURVE WEST. ON HILL	4
36A. Traffic Safety Features:	0000B UNACCEPTABLE/NON-EXISTENT	
36B Bridge Rail Type:	N NO RAILING	
113A. Scour Critical Bridges:	3 SCOUR CRIT. - UNSTABLE	
113B. Foundation Type:	L NONE - U.F.	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00016

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE THE EXISTING STRUCTURE WITH A BRIDGE BY CONTRACT. MEANWHILE, REMOVE THE LARGE TREE UPSTREAM.

76. Improvement Length: 000052 feet
94. Bridge Imp. Costs: \$ 160 X 1000
95. Rdwy. Imp. Costs: \$ 45 X 1000
96. Total Project Costs: \$ 205 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000270
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	NA	years
B. Deck:	NA	years
C. Joints:	NA	years
D. Superstructure:	NA	years
E. Substructure:	NA	years
F. Approach:	03	years
G. Channel:	01	years
H. Culvert:	01	years

Remarks:

THE APPROACH IS LOW TO THE EAST WHERE AN OVERFLOW SPILLWAY IS LOCATED. A HILL, A DRIVE, AND A CURVE ARE ALL LOCATED TO THE WEST. HEAVY DEBRIS IS ACCUMULATED AT THE INLETS. THE PIPE INLETS ARE DAMAGED WITH THE CORRUGATED PIPE METAL FOLDING INTO THE INSIDES OF THE PIPES. THE PIPE INLETS ARE ALSO UNDERCUT. THERE IS A LARGE VOID UNDER THE SLOPEWALL BETWEEN THE PIPES AT THE PIPE INLETS. THERE IS CONSIDERABLE EROSION AT THE OUTLETS. THE PIPES ARE RUSTED THROUGH AT THE WATERLINE. SOME OF THE JOINTS ARE SEPARATING. SOME RIPRAP HAS BEEN PLACED AT THE NORTHEAST CORNER SINCE THE LAST INSPECTION. A VERY LARGE TREE IS MIGRATING TOWARD THE INLETS.

Bridge No. 17



Looking East



Looking Northeast

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00017

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00017
8A. NBI Number:	1800014	8C. Old Bridge Number:	
5A. Inventory Route On:	141002040	5B. Rd. Number On:	0204
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	FINLEY-MANARD DITCH		
7. Facility Carried:	RD 800 N		
9A. Location:	800N 850W	9B Map Location:	B-9
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 18.4 Min.	17. Longitude:	085 Deg. 32.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302D SIMPLE STEEL BEAM	45. No. of Spans - Main:	001
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	7 Timber	108D. Thickness of Asph:	Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1985	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	6 SATISFACTORY	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000200	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0035.0 Feet	49. Structure Length:	0037.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0	52. Deck Width (o-o):	024.0 Feet
51. Bridge Roadway Width:	023.8 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	017 Feet	35. Structure Flared:	0 NO
34. Skew:	00 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	23.8 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00017**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
104A. Highway System - Over: **0 NON FA** 104B. - Under:
26A. Functional Class Over: **09 LOCAL - RURAL**
26B. Functional Class Under:
100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER	FAIR-CRACKS & PITTING	6
59. Super:	STEEL BEAMS	GOOD-LIGHT RUST	7
60. Sub:	CONCRETE	GOOD	7
61. Channel:	EARTH/VEGETATION	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		POOR-EROSION AT CORNERS	4

LOAD RATING AND POSTING:

31. Design Load: **0 OTHER/UNKNOWN**
64A. Operating Rating: **241**
66A. Inventory Rating: **230** 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: **5 LEGAL LIMIT**
41. Open, Posted, or Closed: **A OPEN**
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR DEFICIENCIES, TIMBERS WEARING,	6
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	6
72. Roadway Alignment:	STRAIGHT AND LEVEL, DRIVE SOUTHWEST	7
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00017

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

EXTEND THE EXISTING GUARDRAIL AND ADD TRANSITIONS AND END TREATMENTS AT THREE CORNERS. ADD WINGWALLS. RIPRAP THE SLOPES AND FILL IN THE CORNERS OF THE APPROACH ROADWAYS. INSTALL END MARKERS. SECURE THE BRIDGE AGAINST LATERAL MOVEMENT IN HIGH WATER.

76. Improvement Length: 000037 feet

94. Bridge Imp. Costs: \$ 12 X 1000

95. Rdwy. Imp. Costs: \$ 21 X 1000

96. Total Project Costs: \$ 33 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 000410

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/18/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 06 years

B. Deck: 06 years

C. Joints: NA years

D. Superstructure: 25 years

E. Substructure: 28 years

F. Approach: 02 years

G. Channel: 08 years

H. Culvert: NA years

Remarks:

THERE IS A DRIVEWAY TO THE SOUTHWEST AND A FIELD ENTRANCE THE TO NORTHEAST. THE SUPERSTRUCTURE BEAMS AND CHANNELS HAVE STEEL BEARING PLATES WHICH DO NOT APPEAR TO BE ANCHORED TO THE SUBSTRUCTURE. TWO END MARKERS ARE IN PLACE BUT BOTH HAVE BEEN VANDALIZED.

Bridge No. 18



Looking South



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00018

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00018
8A. NBI Number:	1800015	8C. Old Bridge Number:	
5A. Inventory Route On:	141003370	5B. Rd. Number On:	0337
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	STUDEBAKER DITCH		
7. Facility Carried:	RD 200 W		
9A. Location:	1010N 200W	9B Map Location:	E-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 20.2 Min.	17. Longitude:	085 Deg. 25.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1966	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000092	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	05 5 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.0 Feet	49. Structure Length:	0062.0 Feet
50. Sidewalk/Curb Left:	00.7 Right: 00.7		
51. Bridge Roadway Width:	024.0 Feet	52. Deck Width (o-o):	026.0 Feet
32. Approach Roadway Width:	019 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	30 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00018

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	GOOD-WORN WEARING SURFACE	7
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD-MINOR CRACKS & EFFLOR	7
60. Sub:	CONCRETE BENTS	GOOD-MINOR CRACKS	7
61. Channel:	CONCRETE SLOPEWALL	FAIR-CRACKED,SETTLING,VOIDS	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-CRACKED, SETTLED	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR CRACKS, EFFLORESCENCE IN DECK AND CURB	7
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT AND LEVEL, INTERSECTION SOUTH	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00018

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL APPROACH RAIL AT ALL CORNERS. ADD CURB TRANSITIONS. INSTALL FOUR END MARKERS. WEDGE THE APPROACHES. FILL VOIDS UNDER THE SLOPEWALL WITH FLOWABLE MORTAR.

76. Improvement Length: 000062 feet
94. Bridge Imp. Costs: \$ 4 X 1000
95. Rdwy. Imp. Costs: \$ 16 X 1000
96. Total Project Costs: \$ 20 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000155
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	08	years
B. Deck:	23	years
C. Joints:	NA	years
D. Superstructure:	23	years
E. Substructure:	23	years
F. Approach:	04	years
G. Channel:	12	years
H. Culvert:	NA	years

Remarks:

NO END MARKERS ARE POSTED. THE ENDS OF THE CURBS ARE EXPOSED AND POSE CRASH HAZARDS. THERE IS MINOR DAMAGE TO THE CURB AT THE NORTHWEST CORNER. THE WEST CURB IS CRACKED. THERE ARE MINOR CRACKS AND EFFLORESCENCE IN THE DECK BELOW.

Bridge No. 20



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00020

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00020
8A. NBI Number:	1800016	8C. Old Bridge Number:	
5A. Inventory Route On:	141000510	5B. Rd. Number On:	0051
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MISSISSINewa RIVER		
7. Facility Carried:	WALNUT STREET		
9A. Location:	1060N 00E	9B Map Location:	F-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 20.6 Min.	17. Longitude:	085 Deg. 23.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	502 PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	004
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1966	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000784	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0081.0 Feet	49. Structure Length:	0330.0 Feet
50. Sidewalk/Curb Left:	00.8 Right: 00.8		
51. Bridge Roadway Width:	026.4 Feet	52. Deck Width (o-o):	029.2 Feet
32. Approach Roadway Width:	023 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	10 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	26.4 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00020

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-SPALLED W.S., OPEN JTS	5
59. Super:	PRESTRESSED CONC I-BEAMS	FAIR-SPALLS	6
60. Sub:	CONCRETE	FAIR-SEEPAGE	6
61. Channel:	CONCRETE SLOPEWALL	GOOD-DEBRIS	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-CRACKS,POPOUTS,SETTLED	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT; POSTED "NO PARKING"
41. Open, Posted, or Closed: R POSTED FOR OTHER THAN LOAD
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SPALLING BEAMS AND WEARING SURF; OPEN JOINTS	6
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	8
72. Roadway Alignment:	STRAIGHT, INTERSECTION N, HUMP OVER BRIDGE	5
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00020

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT

Describe Item 75:

PLACE A DECK OVERLAY. REPLACE THE JOINTS. PATCH THE BEAMS. PLACE NEW APPROACH RAIL. REPLACE THE BRIDGE RAIL WITH BARRIER RAIL. FILL VOIDS UNDER THE SLOPEWALLS. INSTALL NEW APPROACHES. PLACE RIPRAP AT THE PIERS. PLACE END MARKERS AT THE ENDS OF THE APPROACH RAILS.

76. Improvement Length: 000330 feet

94. Bridge Imp. Costs: \$ 180 X 1000

95. Rdwy. Imp. Costs: \$ 16 X 1000

96. Total Project Costs: \$ 196 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 001330

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/4/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A

93. Crit. Feat. Insp. Date: A: B: 0403 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	04	years
B. Deck:	15	years
C. Joints:	00	years
D. Superstructure:	30	years
E. Substructure:	30	years
F. Approach:	08	years
G. Channel:	18	years
H. Culvert:	NA	years

Remarks:

THERE IS DEBRIS IN THE DECK DRAINS. MINOR EFFLORESCENCE IS PRESENT UNDER THE DECK. THE PLAQUE READS BRIDGE 102. THERE ARE VOIDS UNDER THE SLOPEWALLS - THE SOUTH ENDBENT CAP IS UNDERCUT. THE APPROACH RAIL IS LOW AND DAMAGED; THE POSTS ARE SPACED AT 12'-6". SEVERAL BEAM ENDS ARE SPALLED AT THE BOTTOM FLANGES AT THE ENDS OVER THE PIERS; SOME HAVE EXPOSED STRANDS. THE APPROACHES AND THE BRIDGE DECK WERE RESURFACED SINCE THE LAST INSPECTION - NO REPAIRS WERE MADE TO THE SPALLED CONCRETE WEARING SURFACE. JOINTS SHOULD BE INSTALLED TO RETARD FURTHER DETERIORATION OF THE BEAMS AND PIER CAPS.

Bridge No. 21



Looking East



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00021

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00021
8A. NBI Number:	1800017	8C. Old Bridge Number:	
5A. Inventory Route On:	141000900	5B. Rd. Number On:	0090
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MISSISSINewa RIVER		
7. Facility Carried:	RD 1100 N		
9A. Location:	1100N 175W	9B Map Location:	E-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 21.0 Min.	17. Longitude:	085 Deg. 25.5 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	502 PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	004
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1965	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000750	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	06 6 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0070.0 Feet	49. Structure Length:	0288.0 Feet
50. Sidewalk/Curb Left:	00.8 Right: 00.8		
51. Bridge Roadway Width:	025.3 Feet	52. Deck Width (o-o):	028.7 Feet
32. Approach Roadway Width:	021 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	10 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	25.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00021

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-9618 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	FAIR-OPEN JTS, MINOR EFFLOR	6
59. Super:	PRESTRESSED CONC I-BEAMS	GOOD-MINOR SPALLS	7
60. Sub:	PILE ENDS, SPREAD INTERIOR	FAIR-MINOR SPALLING AT PIERS	6
61. Channel:	CONCRETE SLOPEWALL	FAIR-NE CORNER UNDERMINED	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-W APPR SPALLED AT JOINT	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	OPEN JOINTS, MINOR SPALLING, DEBRIS ON PIERS	6
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	8
72. Roadway Alignment:	STRAIGHT, MINOR HUMP OVER BRIDGE	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	R COMBINATION OF A AND D	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00021

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL END TREATMENTS AND RAIL TRANSITIONS AS WELL AS CURB TRANSITIONS. REPOINT SPALLS ON THE PIERS. INSTALL JOINTS. RESET THE APPROACH RAIL. REPLACE THE MISSING DRAIN PIPE EXTENSIONS. PLACE END MARKERS AT THE ENDS OF THE APPROACH RAILS.

76. Improvement Length: 000288 feet
94. Bridge Imp. Costs: \$ 50 X 1000
95. Rdwy. Imp. Costs: \$ 40 X 1000
96. Total Project Costs: \$ 90 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 001210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A
93. Crit. Feat. Insp. Date: A: B: 0403 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	05	years
B. Deck:	25	years
C. Joints:	00	years
D. Superstructure:	25	years
E. Substructure:	20	years
F. Approach:	04	years
G. Channel:	13	years
H. Culvert:	NA	years

Remarks:

THERE IS SCALING AND MINOR SPALLING AT THE CURBS AND RAILS. THE PIERS ARE SPALLING WITH MINOR REBAR EXPOSURE. THERE IS MINOR EFFLORESCENCE AT THE NORTHWEST AND SOUTHEAST MUDWALLS. THREE DRAIN PIPE EXTENSIONS ARE MISSING: TWO AT THE EAST END AND ONE AT THE SOUTHWEST CORNER. THE APPROACH RAIL IS LOW; POSTS ARE SPACED 12'-6". SMALL, SOLID-COLORED END MARKERS ARE IN PLACE AT THE ENDS OF THE APPROACH RAIL.

Bridge No. 22



Looking West



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00022

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00022
8A. NBI Number:	1800018	8C. Old Bridge Number:	
5A. Inventory Route On:	141000900	5B. Rd. Number On:	0090
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	DODGE CREEK		
7. Facility Carried:	RD 1100 N		
9A. Location:	1100N 135W	9B Map Location:	E-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 21.0 Min.	17. Longitude:	085 Deg. 25.0 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	03 Inches

AGE AND SERVICE:

27A. Year Built:	1965	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000750	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0041.0 Feet	49. Structure Length:	0044.0 Feet
50. Sidewalk/Curb Left:	00.7 Right: 00.7		
51. Bridge Roadway Width:	025.3 Feet	52. Deck Width (o-o):	027.0 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	25.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00022

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-9618 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	GOOD	7
59. Super:	PRESTRESSED CONC BOX BEAM	GOOD-DAMAGE AT SOUTH COPING	7
60. Sub:	CONCRETE	GOOD	7
61. Channel:	CONCRETE SLOPEWALL	FAIR-CRACKED, VOIDS, DEBRIS	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPH-FAIR-RUTTED, POTHOLES	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 243
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR DEFICIENCIES	7
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT, HILL EAST	6
36A. Traffic Safety Features:	0000B UNACCEPTABLE/NON-EXISTENT	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	8 STABLE - EXEL. COND.	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00022

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

REPLACE THE MISSING BRIDGE RAIL ON THE SOUTH SIDE. UPDATE THE POST ANCHORS ON THE NORTH SIDE. ADD APPROACH RAIL WITH TRANSITIONS AND END TREATMENTS AT ALL CORNERS. ADD CURB TRANSITIONS.

76. Improvement Length: 000044 feet

94. Bridge Imp. Costs: \$ 8 X 1000

95. Rdwy. Imp. Costs: \$ 10 X 1000

96. Total Project Costs: \$ 18 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 001220

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/4/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	09	years
B. Deck:	23	years
C. Joints:	NA	years
D. Superstructure:	23	years
E. Substructure:	23	years
F. Approach:	13	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THE BRIDGE RAIL IS MISSING ON THE SOUTH SIDE DUE TO A COLLISION: THE POST ANCHORS ARE DAMAGED AT THE COPING. THE ANCHORS APPEAR TO BE INADEQUATE. THE SLOPEWALLS HAVE NUMEROUS BURROWS AT THE TOP OF THE SLOPES. END MARKERS ARE IN PLACE. THE EXPOSED ENDS OF THE CURBS POSE MODERATE CRASH HAZARDS.

Bridge No. 26



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00026

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00026
8A. NBI Number:	1800019	8C. Old Bridge Number:	
5A. Inventory Route On:	141002920	5B. Rd. Number On:	0292
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	STUDEBAKER DITCH		
7. Facility Carried:	RD 1000 N		
9A. Location:	1000N 180W	9B Map Location:	E-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 20.1 Min.	17. Longitude:	085 Deg. 25.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302D SIMPLE STEEL BEAM	45. No. of Spans - Main:	001
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	6 CORR. STEEL	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	03 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1985	106A. Reconstructed:	2003
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	6 SATISFACTORY	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000101	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0036.0 Feet	49. Structure Length:	0038.0 Feet
50. Sidewalk/Curb Left:	00.7 Right: 00.7	52. Deck Width (o-o):	024.0 Feet
51. Bridge Roadway Width:	022.6 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	024 Feet	35. Structure Flared:	0 NO
34. Skew:	00 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
47A. Total Hor. Clr. - Over:	23.8 Feet	54A. Type:	N/A
47C. Total Hor. Clr. - Under:	Feet	55A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)		
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00026

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CORRUG STEEL W/ ASPHALT W.S.	GOOD	8
59. Super:	STEEL BEAMS & CHANNELS	GOOD-MINOR RUSTING	7
60. Sub:	CONCRETE WITH NO WINGWALLS	GOOD	7
61. Channel:	RIPRAP/EARTH	GOOD-CHANNEL CURVES DOWNSTRM	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - WEDGED & SETTLED	5

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	BEAMS HAVE LIGHT RUST.	7
68. Geometry:	TWO LANES - NARROW	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE - DEBRIS FOUND ON BEAM FLANGES	5
72. Roadway Alignment:	STRAIGHT AND LEVEL	8
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00026

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
EXTEND THE APPROACH RAIL AND ADD END TREATMENTS.

76. Improvement Length: 000038 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 8 X 1000
96. Total Project Costs: \$ 8 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000165
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	30	years
C. Joints:	NA	years
D. Superstructure:	30	years
E. Substructure:	30	years
F. Approach:	15	years
G. Channel:	06	years
H. Culvert:	NA	years

Remarks:

THE SUPERSTRUCTURE BEAMS HAVE STEEL BEARINGS WHICH DO NOT APPEAR TO BE ANCHORED TO THE SUBSTRUCTURE. THREE OF FOUR END MARKERS ARE MISSING. THERE IS CONDUIT ON THE NORTH COPING. THE TIMBER DECK HAS BEEN REPLACED WITH A CORRUGATED STEEL DECK WITH AN ASPHALT WEARING SURFACE SINCE THE LAST INSPECTION.

Bridge No. 27



Looking North



Looking Northeast

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00027

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00027
8A. NBI Number:	1800020	8C. Old Bridge Number:	
5A. Inventory Route On:	151006390	5B. Rd. Number On:	0639
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	20080 EATON
6. Features Intersected:	MISSISSINAWA RIVER		
7. Facility Carried:	RD 175 E		
9A. Location:	1010N 175E	9B Map Location:	G-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 20.3 Min.	17. Longitude:	085 Deg. 21.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302H COMPOSITE STEEL GIRDER (WELDED PLATE)		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1937	106A. Reconstructed:	1987
27B. Paint Date:	0887	106B. Repaired:	
59B. Paint Rating:	6 SATISFACTORY	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000145	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	04 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0075.0 Feet	49. Structure Length:	0233.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 04.5		
51. Bridge Roadway Width:	025.0 Feet	52. Deck Width (o-o):	033.0 Feet
32. Approach Roadway Width:	023 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	25.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00027

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 19 LOCAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ PERM METAL FORMS	GOOD-MINOR CRACKS	7
59. Super:	SIMPLE SPAN STEEL BEAMS	GOOD-SAGGING, LIGHT RUST	7
60. Sub:	CONCRETE	FAIR-ABUTS CRACKED, LEACHING	6
61. Channel:	BEDROCK	GOOD-TURBULENT FLOW	7
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		FAIR-CRACKED	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 1999
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	ABUTS, PIERS, RETAIN WALLS CRACKED & LEACHING	6
68. Geometry:	NARROW FOR A.D.T.	5
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	ISLAND JUST DOWNSTREAM. APPEARS ADEQUATE	6
72. Roadway Alignment:	CURVE TO SOUTH, INTERSECTION NORTH	6
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	A CONC. BARRIER RAILING	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00027

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL THREE END MARKERS.

76. Improvement Length: 000233 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 1 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/21/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	16	years
B. Deck:	24	years
C. Joints:	08	years
D. Superstructure:	20	years
E. Substructure:	12	years
F. Approach:	12	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THE OLD PIERS ARE JUST DOWNSTREAM OF THIS BRIDGE. THE BEAMS SAG SLIGHTLY. THERE IS LIGHT TO MODERATE RUST AT THE BEAM ENDS. HEAVY CRACKS, EFFLORESCENCE, AND SPALLING ARE PRESENT AT THE OUTER ABUTMENT AND PIER SEATS. UTILITY PIPES ARE HUNG BELOW.

Bridge No. 29



Looking West



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00029

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00029
8A. NBI Number:	1800021	8C. Old Bridge Number:	
5A. Inventory Route On:	141001280	5B. Rd. Number On:	0128
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	REES DITCH		
7. Facility Carried:	RD 1000 N		
9A. Location:	1000N 270E	9B Map Location:	G-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 20.1 Min.	17. Longitude:	085 Deg. 20.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	111A REINFORCED CONCRETE ARCH		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	8 Unknown
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	04 Inches

AGE AND SERVICE:

27A. Year Built:	1993	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000840	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0020.0 Feet	49. Structure Length:	0021.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	024.0 Feet	52. Deck Width (o-o):	026.5 Feet
32. Approach Roadway Width:	024 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	45 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00029

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-9618 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	ASPHALT OVER FILL	GOOD-CRACKED	7
59. Super:	PRECAST CONCRETE ARCH	GOOD	8
60. Sub:	CONCRETE	GOOD	8
61. Channel:	RIPRAP/NATURAL	GOOD-FLOWS AGAINST EAST END	7
62. Culv/Ret:	N/A	N/A	N/A
65. Approach Roadway:		ASPHALT-FAIR, POTHOLES	6

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 240
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO SIGNIFICANT DEFICIENCIES	8
68. Geometry:	NARROW FOR A.D.T.	7
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	ADEQUATE	7
72. Roadway Alignment:	DRIVE NE, HORIZ CURVE WEST, BRIDGE NO.30 EAST	7
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	Q STEEL - THRIE BEAM	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00029

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
ADD ONE END MARKER. REPAIR THE SOUTH RAIL.

76. Improvement Length: 000021 feet
94. Bridge Imp. Costs: \$ 1 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 2 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 001420
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/21/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: 15 years
B. Deck: 45 years
C. Joints: NA years
D. Superstructure: 45 years
E. Substructure: 45 years
F. Approach: 05 years
G. Channel: 15 years
H. Culvert: NA years

Remarks:

THE APPROACH RAIL TIES INTO BRIDGE NO 30. THREE OF FOUR END MARKERS ARE IN PLACE. THE STRUCTURE IS A CONSPAN PRECAST CONCRETE ARCH. THE SOUTH THRIE BEAM RAIL IS DAMAGED ON TOP AND AT THE RAIL-TO-POST CONNECTION.

Bridge No. 30



Looking West



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00030

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00030
8A. NBI Number:	1800022	8C. Old Bridge Number:	
5A. Inventory Route On:	141001280	5B. Rd. Number On:	0128
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	REES DITCH		
7. Facility Carried:	RD 1000 N		
9A. Location:	1000N 290E	9B Map Location:	G-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 20.1 Min.	17. Longitude:	085 Deg. 20.1 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1954	106A. Reconstructed:	1993
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000846	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.0 Feet	49. Structure Length:	0062.5 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	024.0 Feet	52. Deck Width (o-o):	027.0 Feet
32. Approach Roadway Width:	024 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	30 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00030

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-9618 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-MIN LONG CRACKS IN W.S.	7
59. Super:	CONTINUOUS REINF CONC SLAB	FAIR-LEACHING AT CONSTR JNTS	6
60. Sub:	CONCRETE	FAIR-LEACHING, SPALLS	6
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		ASPHALT-CRACKS, POTHOLES	6

LOAD RATING AND POSTING:

31. Design Load: 3 HS-15
64A. Operating Rating: 234
66A. Inventory Rating: 227 64B. Year of Rating: 1999
66B. Gross Tons or H Rating: 15
70. Bridge Posting: 4 15 TONS
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 15 66D. Date Posted/Closed: 03 / 99

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	LEACHING, (HS-15 LOADING)	6
68. Geometry:	SLIGHTLY NARROW TWO LANES	6
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	BARELY ADEQUATE OPENING, GOOD SKEW	6
72. Roadway Alignment:	CURVE WEST, DRIVE NW, FIELD ENTR SE, BR #29 W	6
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	A CONC. BARRIER RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	J CONC. - STEEL ENCASED	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00030

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
DRIVE NEW POST FOR NORTHEAST END MARKER. REPLACE THE SOUTHWEST END MARKER.

76. Improvement Length: 000063 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 1 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 001420
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/21/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	18	years
C. Joints:	NA	years
D. Superstructure:	18	years
E. Substructure:	16	years
F. Approach:	12	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THE APPROACH RAIL TIES INTO BRIDGE NO. 29. THREE OF FOUR END MARKERS ARE IN PLACE. THE PLAQUE ON THIS BRIDGE SAYS BRIDGE NO. 29. SOME EFFLORESCENCE AND SPALLING ARE PRESENT AT THE INTERIOR BENT CAP ENDS AND THE SLAB BOTTOM. THERE ARE LONGITUDINAL CRACKS IN THE WEARING SURFACE. MINOR SPALLS ARE PRESENT IN THE CENTER SPANS AT THE COPINGS.

Bridge No. 31



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00031

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00031
8A. NBI Number:	1800023	8C. Old Bridge Number:	
5A. Inventory Route On:	141000960	5B. Rd. Number On:	0096
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	REES DITCH		
7. Facility Carried:	RD 1200 N		
9A. Location:	1200N 530E	9B Map Location:	H-11
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 21.8 Min.	17. Longitude:	085 Deg. 17.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1983	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000200	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0035.0 Feet	49. Structure Length:	0090.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	025.9 Feet	52. Deck Width (o-o):	026.2 Feet
32. Approach Roadway Width:	023 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	40 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	25.9 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00031**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 NON FA** 104B. - Under:
 26A. Functional Class Over: **09 LOCAL - RURAL**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-POPOUTS, LIGHT WEAR	7
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD	8
60. Sub:	CONCRETE PILE BENTS	GOOD-WINGS UNDERMINED	7
61. Channel:	RIPRAP	GOOD	7
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		GOOD-SLIGHT DROP AT CORNERS	7

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **245**
 66A. Inventory Rating: **236** 64B. Year of Rating:
 66B. Gross Tons or H Rating:
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	WINGS UNDERMINED, OTHERWISE GOOD	7
68. Geometry:	SLIGHTLY NARROW	5
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	HUMP OVER BRIDGE; FARM ENTRANCE SE; STRAIGHT	7
36A. Traffic Safety Features:	1101 GOOD RAILING -NO APPROACH RAIL	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00031

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
ADD END MARKERS. ADJUST THE RAIL HEIGHT AND ADD RAIL POSTS.

76. Improvement Length: 000000 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 3 X 1000
96. Total Project Costs: \$ 3 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000410
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/21/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	12	years
B. Deck:	35	years
C. Joints:	NA	years
D. Superstructure:	35	years
E. Substructure:	35	years
F. Approach:	10	years
G. Channel:	28	years
H. Culvert:	NA	years

Remarks:

THERE IS A FARM FIELD ENTRANCE SOUTHEAST OF THE BRIDGE. THREE OF FOUR END MARKERS ARE MISSING. THERE ARE DROP-OFFS AT THE CORNERS; THE APPROACHES ARE NARROW. THE APPROACH RAIL IS LOW AT 24" AND THE POSTS ARE SPACED AT 12'-6". A MINOR SPALL AND EXPOSED STEEL WAS FOUND AT THE SOUTH COLUMN IN THE EAST INTERIOR BENT.

Bridge No. 32



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00032

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00032
8A. NBI Number:	1800024	8C. Old Bridge Number:	
5A. Inventory Route On:	141002930	5B. Rd. Number On:	0293
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	REES DITCH		
7. Facility Carried:	RD 600 E		
9A. Location:	1270N 600E	9B Map Location:	J-11
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 22.4 Min.	17. Longitude:	085 Deg. 16.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1982	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000200	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.0 Feet	49. Structure Length:	0061.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	024.2 Feet	52. Deck Width (o-o):	026.5 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	27 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00032

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 08 MINOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD	8
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD	8
60. Sub:	CONCRETE BENTS	GOOD-SOME SEEPAGE @ ENDBENTS	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		ASPHALT-FAIR, SETTLED	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO SIGNIFICANT DEFICIENCIES.	8
68. Geometry:	SLIGHTLY NARROW	5
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	ADEQUATE OPENING AND SKEW; 90 DEGREE BEND W.	7
72. Roadway Alignment:	FARM ENTRANCE NE; DRIVE NW; STRAIGHT & LEVEL	7
36A. Traffic Safety Features:	1101 GOOD RAILING -NO APPROACH RAIL	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00032

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
EXTEND THE SOUTHWEST RAIL.

76. Improvement Length: 000000 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 5 X 1000
96. Total Project Costs: \$ 5 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000410
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/21/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

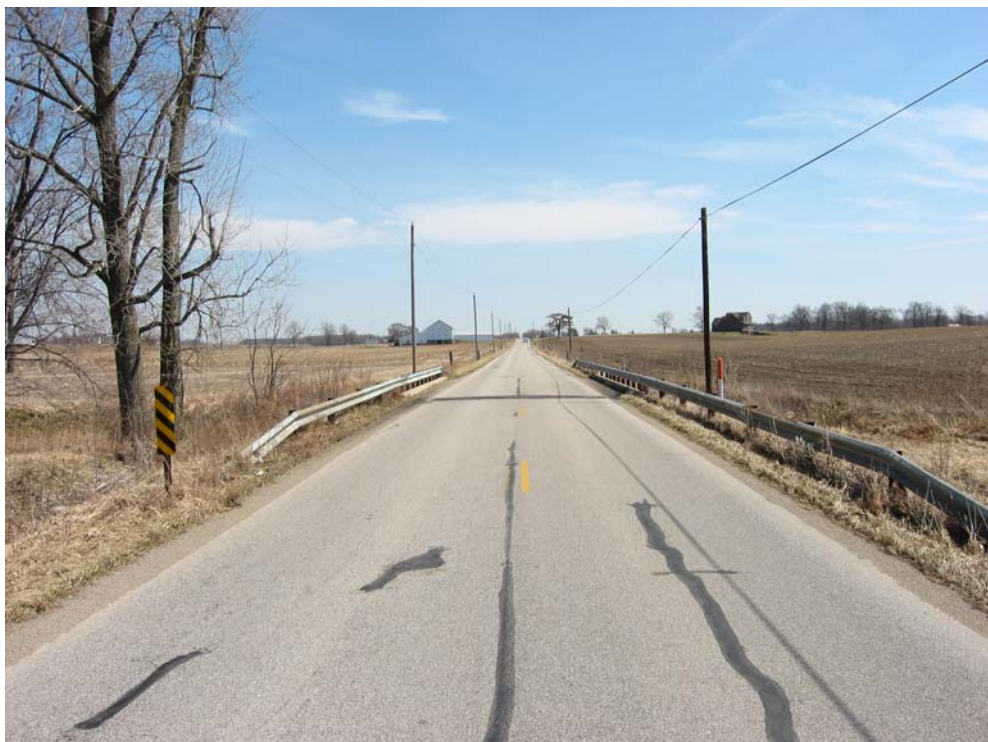
63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	35	years
C. Joints:	NA	years
D. Superstructure:	35	years
E. Substructure:	35	years
F. Approach:	10	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THERE IS A DRIVEWAY NORTHWEST OF THE BRIDGE AND A FIELD ENTRANCE TO THE NORTHEAST. END MARKERS ARE IN PLACE. THE STREAM RUNS ALONG THE ROAD AT THE SOUTHWEST CORNER; NO GUARDRAIL IS IN PLACE ALONG THIS PART OF THE STREAM.

Bridge No. 33



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00033

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00033
8A. NBI Number:	1800025	8C. Old Bridge Number:	
5A. Inventory Route On:	141001280	5B. Rd. Number On:	0128
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	BOSMAN DITCH		
7. Facility Carried:	RD 950 N		
9A. Location:	950N 490E	9B Map Location:	H-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 19.7 Min.	17. Longitude:	085 Deg. 17.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	04 Inches

AGE AND SERVICE:

27A. Year Built:	1983	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1991
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000700	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.0 Feet	49. Structure Length:	0062.0 Feet
50. Sidewalk/Curb Left:	00.8 Right: 00.8		
51. Bridge Roadway Width:	024.3 Feet	52. Deck Width (o-o):	026.0 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00033

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-9618 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	GOOD	7
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD-SEEPAGE, SPALLS @ DRAINS	7
60. Sub:	CONCRETE	GOOD-HAIRLINE CRACKS	7
61. Channel:	RIPRAP	FAIR-SILT, DEBRIS	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - SUBGRADE LOSS	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR CRACKING, LEACHING IN WEST SPAN	7
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	CHANNEL NOT PROPERLY ALIGNED DUE TO SILTING	6
72. Roadway Alignment:	STRAIGHT AND LEVEL; NARROW SHOULDERS	7
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00033

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REPAIR THE BRIDGE RAIL. FILL BURROWS. ADD END MARKERS. ADD APPROACH RAIL AT THE NORTHEAST CORNER. ADD APPROACH RAIL POSTS AND CURB TRANSITIONS.

76. Improvement Length: 000062 feet
94. Bridge Imp. Costs: \$ 4 X 1000
95. Rdwy. Imp. Costs: \$ 6 X 1000
96. Total Project Costs: \$ 10 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 001320
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/30/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	26	years
C. Joints:	NA	years
D. Superstructure:	26	years
E. Substructure:	26	years
F. Approach:	05	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

THE ASPHALT WEARING SURFACE PARTIALLY BLOCKS THE DRAINS. THERE IS SUBGRADE LOSS AT THE WEST END. A FOUR INCH DIAMETER HOLE IN PAVEMENT HAS BEEN PATCHED. THE NORTH COPING IS DAMAGED. THE BRIDGE RAIL POSTS ARE POORLY ANCHORED; ONE POST IS MISSING. EACH PIER HAS A VERTICAL HAIRLINE CRACK AT THE CENTERLINE. THERE ARE HAIRLINE CRACKS IN THE SLAB, COPING AND CURBS, ESPECIALLY OVER THE PIERS. A BURROW IS PRESENT UNDER EACH ENDBENT. THE SLAB IS SPALLED AROUND THE DRAIN OUTLETS. THE CURBS POSE CRASH HAZARDS. THE APPROACH RAIL POSTS ARE SPACED AT 12'-6".

Bridge No. 34



Looking East



Looking Northerly

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00034

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00034
8A. NBI Number:	1800026	8C. Old Bridge Number:	
5A. Inventory Route On:	141000860	5B. Rd. Number On:	0086
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	BOSMAN DITCH		
7. Facility Carried:	RD 1000 N		
9A. Location:	1000N 560E	9B Map Location:	J-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 20.1 Min.	17. Longitude:	085 Deg. 17.1 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	001
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	03 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1989	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000200	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0028.0 Feet	49. Structure Length:	0030.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	025.6 Feet
51. Bridge Roadway Width:	024.2 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	017 Feet	35. Structure Flared:	0 NO
34. Skew:	40 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.2 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00034

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	GOOD	7
59. Super:	TIMBER SLAB	GOOD-SEEPAGE, WEATHERED	7
60. Sub:	TIMBER	GOOD-WEATHERED	7
61. Channel:	RIPRAP/NATURAL	GOOD	7
62. Culv/Ret:	N/A	N/A	N/A
65. Approach Roadway:		ASPHALT-SETTLED AT CORNERS	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 240
66A. Inventory Rating: 236 64B. Year of Rating: 1990
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	GAPS BETWEEN PILES & MUD WALL, CRACKED W.S.	7
68. Geometry:	TWO LANES	6
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	INADEQUATE- DEBRIS IN SUPERSTRUCTURE	5
72. Roadway Alignment:	STRAIGHT, LEVEL. INTERSECTION WEST.	8
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00034

PROPOSED IMPROVEMENTS:

73. Year Needed: 2006
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
PLACE TWO END MARKERS. TIGHTEN THE SPREADER BEAM NUTS.

76. Improvement Length: 000030 feet
94. Bridge Imp. Costs: \$ 1 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 2 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000365
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/30/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: 08 years
B. Deck: 14 years
C. Joints: NA years
D. Superstructure: 14 years
E. Substructure: 14 years
F. Approach: 10 years
G. Channel: 15 years
H. Culvert: NA years

Remarks:

TWO OF FOUR END MARKERS ARE MISSING. THE DRAINS ARE NEARLY BLOCKED BY THE ASPHALT WEARING SURFACE AND DEBRIS. THE TIMBER RAIL IS NOT STANDARD. THE SOUTHWEST WING PILE HAS INTERNAL ROT. THE APPROACHES AND BRIDGE DECK HAVE BEEN RESURFACED SINCE THE LAST INSPECTION. THE SLAB HAS A SLIGHT SAG. THE SPREADER BEAM NUTS ARE LOOSE.

Bridge No. 35



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00035

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00035
8A. NBI Number:	1800027	8C. Old Bridge Number:	
5A. Inventory Route On:	141002910	5B. Rd. Number On:	0291
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	BOSMAN DITCH		
7. Facility Carried:	RD 600 E		
9A. Location:	1030N 600E	9B Map Location:	J-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 20.4 Min.	17. Longitude:	085 Deg. 16.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302A ENCASED STEEL BEAM (I-BEAMS)		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	10 Inches

AGE AND SERVICE:

27A. Year Built:	1935	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0027.0 Feet	49. Structure Length:	0030.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	018.0 Feet	52. Deck Width (o-o):	020.5 Feet
32. Approach Roadway Width:	014 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	18.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00035

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	POOR-SPALLS, CRACKS	4
59. Super:	STEEL BEAMS-CONC ENCASED	POOR-OS BMS SPALLED-EXP STL	4
60. Sub:	CONCRETE	FAIR-VERT & HORIZ CRACKS	5
61. Channel:	EARTH/VEGETATION	FAIR-WEAR ON ABUTMENTS	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT-FAIR, ERODED SHLDRS	5

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 211
66A. Inventory Rating: 210 64B. Year of Rating:
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	CONCRETE SPALLED; ABUTS CRACKED NE & SE	2
68. Geometry:	NARROW TWO LANES	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE	4
72. Roadway Alignment:	INADEQUATE GUARDRAIL; STRAIGHT; HILL TO NORTH	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00035

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT.

76. Improvement Length: 000045 feet
94. Bridge Imp. Costs: \$ 205 X 1000
95. Rdwy. Imp. Costs: \$ 50 X 1000
96. Total Project Costs: \$ 255 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/30/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	05	years
B. Deck:	06	years
C. Joints:	NA	years
D. Superstructure:	03	years
E. Substructure:	05	years
F. Approach:	05	years
G. Channel:	05	years
H. Culvert:	NA	years

Remarks:

STEEL IS EXPOSED AT THE DECK DRAINS. THE OLD CONCRETE RAIL HAS BEEN REMOVED; THE STEEL RAIL POSTS AND ANCHORS ARE INADEQUATE. NO END MARKERS ARE POSTED. TEN INCHES OF ASPHALT CREATES EXCESSIVE DEAD LOAD. THE OUTSIDE BEAMS ARE REINFORCED CONCRETE. THE APPROACH SHOULDERS ARE ERODED.

Bridge No. 37



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

BRIDGE NO. 00037

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00037
8A. NBI Number:	1800028	8C. Old Bridge Number:	
5A. Inventory Route On:	141002240	5B. Rd. Number On:	0224
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	HALFWAY CREEK		
7. Facility Carried:	RD 900 N		
9A. Location:	900N 870E	9B Map Location:	K-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 19.3 Min.	17. Longitude:	085 Deg. 13.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302D SIMPLE STEEL BEAM	45. No. of Spans - Main:	001
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1985	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	6 SATISFACTORY	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000100	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0047.0 Feet	49. Structure Length:	0048.1 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0	52. Deck Width (o-o):	024.0 Feet
51. Bridge Roadway Width:	023.8 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	023 Feet	35. Structure Flared:	0 NO
34. Skew:	00 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
47A. Total Hor. Clr. - Over:	23.8 Feet	54A. Type:	N/A
47C. Total Hor. Clr. - Under:	Feet	55A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)		
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00037

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CORRUGATED STL W/ ASPH W.S.	GOOD-NEW	8
59. Super:	STEEL BEAMS & CHANNELS	GOOD-SEE REMARKS, LIGHT RUST	7
60. Sub:	CONC ABUTS W/ NO WINGWALLS	GOOD	7
61. Channel:	EARTH/VEGETATION	FAIR-SOME RIPRAP	6
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		FAIR-CORNERS ERODED/SETTLING	6

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	DECK REPLACED, LIGHT RUST ON BEAMS	7
68. Geometry:	SLIGHTLY NARROW TWO LANES	5
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	INADEQUATE - DEBRIS IN BEAMS	6
72. Roadway Alignment:	INTERSECTION WEST. STRAIGHT. HILL TO EAST	6
36A. Traffic Safety Features:	1110 GOOD RAILING - NO TERMINAL END	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00037

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL APPROACH RAIL END TREATMENTS. CONSTRUCT WINGWALLS. FILL IN THE CORNERS. PLACE RIPRAP ON SIDESLOPES AND IN FRONT OF ABUTMENTS.

76. Improvement Length: 000050 feet
94. Bridge Imp. Costs: \$ 4 X 1000
95. Rdwy. Imp. Costs: \$ 8 X 1000
96. Total Project Costs: \$ 12 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/29/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	20	years
B. Deck:	30	years
C. Joints:	NA	years
D. Superstructure:	30	years
E. Substructure:	30	years
F. Approach:	12	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

THE BEAMS HAVE STEEL BEARINGS WHICH DO NOT APPEAR TO BE ANCHORED TO THE SEATS. THE TIMBER WINGS ARE PUSHED OUT. TWO OF FOUR END MARKERS ARE MISSING. THE APPROACH RAIL IS SOMEWHAT HIGH. THE OLD TIMBER DECK HAS BEEN REPLACED WITH A CORRUGATED STEEL DECK WITH AN ASPHALT WEARING SURFACE SINCE THE LAST INSPECTION.

Bridge No. 38



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00038

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00038
8A. NBI Number:	1800029	8C. Old Bridge Number:	
5A. Inventory Route On:	141000920	5B. Rd. Number On:	0092
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	REES DITCH		
7. Facility Carried:	RD 1100 N		
9A. Location:	1100N 440E	9B Map Location:	H-11
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 21.0 Min.	17. Longitude:	085 Deg. 18.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	06 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	2003	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000200	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.7 Feet	49. Structure Length:	0077.5 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	025.7 Feet
51. Bridge Roadway Width:	024.3 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	024 Feet	35. Structure Flared:	0 NO
34. Skew:	30 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.3 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00038

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	GOOD-SOME CRACKS	8
59. Super:	TIMBER SLAB	GOOD-NEW	8
60. Sub:	TIMBER PILES	GOOD-NEW	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		ASPHALT-GOOD	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 228
66A. Inventory Rating: 220 64B. Year of Rating: 2003
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NEW - INVENTORY RATING LOW FOR ADT	5
68. Geometry:	TWO LANES	5
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	ADEQUATE OPENING	7
72. Roadway Alignment:	STRAIGHT; HILLS E & W	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	8 STABLE - EXEL. COND.	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00038

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
ADD END MARKERS.

76. Improvement Length: 000078 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 1 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000420
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/21/2005
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

91. Des. Insp. Frequency: 24 months

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	30	years
C. Joints:	NA	years
D. Superstructure:	30	years
E. Substructure:	30	years
F. Approach:	20	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

A TIMBER SLAB BRIDGE HAS REPLACED THE STEEL PONY TRUSS SINCE THE LAST INSPECTION. THERE ARE SOME CRACKS IN THE WEARING SURFACE. THE WATERPROOFING ON EXPOSED TIMBERS IS PALE COMPARED TO THAT ON SIMILAR BRIDGES.

Bridge No. 39



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00039

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00039
8A. NBI Number:	1800030	8C. Old Bridge Number:	
5A. Inventory Route On:	141003410	5B. Rd. Number On:	0341
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	MISSISSINAWA RIVER		
7. Facility Carried:	RD 371 E		
9A. Location:	890N 371E	9B Map Location:	H-9
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 19.1 Min.	17. Longitude:	085 Deg. 19.1 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	602 CONTINUOUS PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1986	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000112	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0059.0 Feet	49. Structure Length:	0181.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	024.0 Feet	52. Deck Width (o-o):	026.5 Feet
32. Approach Roadway Width:	024 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	10 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00039

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-MINOR WEAR	8
59. Super:	CONCRETE I-BEAMS	GOOD	8
60. Sub:	CONCRETE	GOOD	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		GOOD-SETTLED NORTH APPROACH	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR DEFICIENCIES	8
68. Geometry:	TWO LANES	5
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	ROAD T'S AT BOTH ENDS, HUMP OVER BRIDGE	5
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00039

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

CONNECT THE ROADWAY GUARDRAIL EXTENSIONS AT THE NORTH APPROACH TO THE BRIDGE RAIL AND ADD END TREATMENTS. INSTALL ONE END MARKER. REPAIR GUARDRAIL DAMAGE. REMOVE TREE AND DEBRIS.

76. Improvement Length: 000181 feet

94. Bridge Imp. Costs: \$ 3 X 1000

95. Rdwy. Imp. Costs: \$ 10 X 1000

96. Total Project Costs: \$ 13 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 000195

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/21/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A

93. Crit. Feat. Insp. Date: A: B: 0403 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 18 years

B. Deck: 45 years

C. Joints: 08 years

D. Superstructure: 45 years

E. Substructure: 45 years

F. Approach: 12 years

G. Channel: 28 years

H. Culvert: NA years

Remarks:

A TELEPHONE CONDUIT IS ON THE EAST COPING. THREE OF FOUR END MARKERS ARE MISSING. THERE IS MINOR BRIDGE RAIL DAMAGE NEAR THE SOUTHEAST CORNER. A LARGE TREE IS LODGED AT NORTH PIER. HEAVY DEBRIS IS ACCUMULATED AT THE SOUTH PIER.

Bridge No. 40



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00040

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00040
8A. NBI Number:	1800197	8C. Old Bridge Number:	
5A. Inventory Route On:	141003410	5B. Rd. Number On:	0341
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	REES DITCH		
7. Facility Carried:	RD 350 E		
9A. Location:	1000N 350E	9B Map Location:	H-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 20.2 Min.	17. Longitude:	085 Deg. 19.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	319A MULTIPLATE ARCH - UNDER FILL		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	N Not Applicable	108B. Membrane:	N Not Applicable
108C. Protection:	N Not Applicable	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1981	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000200	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0013.0 Feet	49. Structure Length:	0028.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	000.0 Feet	52. Deck Width (o-o):	000.0 Feet
32. Approach Roadway Width:	019 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	26.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00040

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	NA		N/A
59. Super:	NA		N/A
60. Sub:	NA		N/A
61. Channel:	EARTH/VEGETATION	FAIR-DEBRIS AT INLETS	6
62. Culv/Ret:	STEEL PIPE	GOOD-RUST AT WATERLINE	7
65. Approach Roadway:		ASPH-FAIR,ROUGH,SHLDER LOSS	5

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 212
66A. Inventory Rating: 210 64B. Year of Rating:
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	LESS THAN 2' COVER, HVY DEBRIS, LOAD RATING	3
68. Geometry:	TWO LANES - SLIGHTLY NARROW	N/A
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	6
72. Roadway Alignment:	NO GUARD RAIL; VERY ROUGH; HILL TO S;STRAIGHT	6
36A. Traffic Safety Features:	0000B UNACCEPTABLE/NON-EXISTENT	
36B Bridge Rail Type:	N NO RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	L NONE - U.F.	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00040

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

RESURFACE THE ROAD OVER THE PIPES TO OBTAIN TWO FOOT COVER. INSTALL GUARDRAIL. CLEAR DEBRIS FROM THE INLETS. ADD END MARKERS. REPAIR THE EAST SHOULDER.

76. Improvement Length: 000028 feet

94. Bridge Imp. Costs: \$ 10 X 1000

95. Rdwy. Imp. Costs: \$ 20 X 1000

96. Total Project Costs: \$ 30 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 000370

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/21/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: NA years

B. Deck: NA years

C. Joints: NA years

D. Superstructure: NA years

E. Substructure: NA years

F. Approach: 05 years

G. Channel: 10 years

H. Culvert: 12 years

Remarks:

TWO END MARKERS ARE IN PLACE. THERE IS A SLIGHT DEFLECTION IN THE SOUTH PIPE. SHOULDER LOSS HAS OCCURRED AT THE EAST SHOULDER. HEAVY DEBRIS IS BUILT UP AT THE INLETS. THE PIPES HAVE HEAVY RUST AT THE WATERLINE.

Bridge No. 41



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00041

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00041
8A. NBI Number:	1800032	8C. Old Bridge Number:	
5A. Inventory Route On:	141002610	5B. Rd. Number On:	0261
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	BOSMAN DITCH		
7. Facility Carried:	RD 450 E		
9A. Location:	870N 450E	9B Map Location:	H-9
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 18.9 Min.	17. Longitude:	085 Deg. 18.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	02 Inches

AGE AND SERVICE:

27A. Year Built:	1985	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0061.0 Feet	49. Structure Length:	0062.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	024.0 Feet	52. Deck Width (o-o):	024.0 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00041

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	GOOD	7
59. Super:	PRESTRESSED CONC BOX BMS	GOOD-SEEPAGE BETWEEN BEAMS	7
60. Sub:	CONCRETE	GOOD-LT SEEPAGE AT ENDBENTS	7
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-SETTLED, RUTTED	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SEEPAGE, ASPHALT DOES NOT EXTEND TO CURBS	7
68. Geometry:	TWO LANES - SLIGHTLY NARROW	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	SOMEWHAT INADEQUATE - HEAVY DEBRIS ON DECK	6
72. Roadway Alignment:	HILL NORTH, STRAIGHT, FIELD ENTRANCE NE	8
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00041

PROPOSED IMPROVEMENTS:

73. Year Needed:
75. Type of Work:
Describe Item 75:

76. Improvement Length: 000000 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 0 X 1000
97. Year of Cost Estimate:
114. Future ADT: 000210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/30/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: 05 years
B. Deck: 30 years
C. Joints: NA years
D. Superstructure: 25 years
E. Substructure: 30 years
F. Approach: 10 years
G. Channel: 20 years
H. Culvert: NA years

Remarks:

END MARKERS ARE IN PLACE. WATER AND ROAD SALT APPEAR TO BE GETTING INSIDE THE WEST BEAM - WATER HAS BEEN DRIPPING OUT OF THE BOTTOM. THE RAIL IS SOMEWHAT HIGH.

Bridge No. 42



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00042

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00042
8A. NBI Number:	1800033	8C. Old Bridge Number:	
5A. Inventory Route On:	141002200	5B. Rd. Number On:	0220
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	BOSMAN DITCH		
7. Facility Carried:	RD 900 N		
9A. Location:	900N 460E	9B Map Location:	H-9
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 19.2 Min.	17. Longitude:	085 Deg. 18.1 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302D SIMPLE STEEL BEAM	45. No. of Spans - Main:	001
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	7 Timber	108D. Thickness of Asph:	Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1985	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	6 SATISFACTORY	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000100	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0032.0 Feet	49. Structure Length:	0035.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0	52. Deck Width (o-o):	024.0 Feet
51. Bridge Roadway Width:	023.8 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	015 Feet	35. Structure Flared:	0 NO
34. Skew:	00 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
47A. Total Hor. Clr. - Over:	23.8 Feet	54A. Type:	N/A
47C. Total Hor. Clr. - Under:	Feet	55A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)		
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00042

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER	FAIR-SOME SPLITTING & WEAR	6
59. Super:	STEEL I-BEAM & CHANNEL	GOOD-NOT ANCHORED	7
60. Sub:	CONCRETE	GOOD-SOME EROSION AT CORNERS	7
61. Channel:	RIPRAP/EARTH/VEG	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - WEDGED, ROUGH	5

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 241
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	BEAMS NOT ANCHORED. NO WINGWALLS.	7
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	NARROW APPROACHES; STRAIGHT; HILLS E & W	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00042

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

EXTEND THE APPROACH RAIL. INSTALL END TREATMENTS. ADD WINGWALLS AND RIPRAP AT THE CORNERS AND SIDESLOPES. INSTALL TWO ADDITIONAL END MARKERS. MILL AND WEDGE THE APPROACHES.

76. Improvement Length: 000035 feet

94. Bridge Imp. Costs: \$ 10 X 1000

95. Rdwy. Imp. Costs: \$ 10 X 1000

96. Total Project Costs: \$ 20 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 000210

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/30/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 08 years

B. Deck: 08 years

C. Joints: NA years

D. Superstructure: 25 years

E. Substructure: 25 years

F. Approach: 04 years

G. Channel: 10 years

H. Culvert: NA years

Remarks:

THE BEAMS ARE ON STEEL BEARINGS WHICH APPEAR TO BE UNANCHORED TO THE SUBSTRUCTURE. TWO END MARKERS ARE IN PLACE. MINOR FILL LOSS HAS OCCURRED AT THE CORNERS DUE TO THE LACK OF WINGWALLS. THE ROUGH APPROACH INCREASES THE IMPACT ON THE BRIDGE.

Bridge No. 43



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00043

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00043
8A. NBI Number:	1800034	8C. Old Bridge Number:	
5A. Inventory Route On:	141000830	5B. Rd. Number On:	0083
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	REES DITCH		
7. Facility Carried:	RD 800 E		
9A. Location:	1215N 800E	9B Map Location:	K-11
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 22.0 Min.	17. Longitude:	085 Deg. 14.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	001
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1988	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1991
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000200	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0030.0 Feet	49. Structure Length:	0032.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	025.3 Feet
51. Bridge Roadway Width:	024.0 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	017 Feet	35. Structure Flared:	0 NO
34. Skew:	00 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.0 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00043**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 NON FA** 104B. - Under:
 26A. Functional Class Over: **09 LOCAL - RURAL**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	GOOD-LONG, TRANSVERSE CRACK	7
59. Super:	TIMBER SLAB	FAIR-SEEPAGE, SAGS	6
60. Sub:	TIMBER PILE BENTS	GOOD	7
61. Channel:	RIPRAP/NATURAL	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT-FAIR-CRACKED,POTHOLE	6

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **240**
 66A. Inventory Rating: **236** 64B. Year of Rating:
 66B. Gross Tons or H Rating:
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	ASPHALT W.S. CRACKED. SLAB SAGS	6
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	HILL TO SOUTH; DRIVE AT SW; STRAIGHT	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00043

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REPAIR THE RAIL POSTS.

76. Improvement Length: 000032 feet
94. Bridge Imp. Costs: \$ 1 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 2 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000410
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/21/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	05	years
B. Deck:	13	years
C. Joints:	NA	years
D. Superstructure:	13	years
E. Substructure:	13	years
F. Approach:	08	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

THE ASPHALT DOES NOT EXTEND TO THE CURBS. THE SOUTHEAST END TREATMENT POSTS AND THE SOUTHEAST BRIDGE RAIL POST ARE DAMAGED - REPAIRS ARE NEEDED. THE BRIDGE SAGS NOTICEABLY.

Bridge No. 44



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00044

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00044
8A. NBI Number:	1800035	8C. Old Bridge Number:	
5A. Inventory Route On:	141000730	5B. Rd. Number On:	0073
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	BOSMAN DITCH		
7. Facility Carried:	RD 700 E		
9A. Location:	1050N 700E	9B Map Location:	J-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 20.9 Min.	17. Longitude:	085 Deg. 15.5 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	319A MULTIPLATE ARCH - UNDER FILL		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	N Not Applicable	108B. Membrane:	N Not Applicable
108C. Protection:	N Not Applicable	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1981	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000200	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0011.0 Feet	49. Structure Length:	0024.5 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	000.0 Feet	52. Deck Width (o-o):	000.0 Feet
32. Approach Roadway Width:	019 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	29.6 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00044

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	N/A		N/A
59. Super:	N/A		N/A
60. Sub:	N/A		N/A
61. Channel:	RIPRAP-SOUTHEAST	FAIR-HEAVY GROWTH IN CHANNEL	6
62. Culv/Ret:	C.M.P.ARCH	GOOD-SLIGHT PIPE DEFLECTION	7
65. Approach Roadway:		ASPHALT - GOOD	7

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 220
66A. Inventory Rating: 216 64B. Year of Rating: 1999
66B. Gross Tons or H Rating: 16
70. Bridge Posting: 5 16 TON LIMIT - 10 TON SIGN SEVERAL 100' SOUTH
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SLIGHT DEFLECTION IN PIPE, LOW LOAD RATING	4
68. Geometry:	ASPHALT ROADWAY @ CULVERT WIDER THAN APPROACH	N/A
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	SOMEWHAT INADEQUATE - NARROW CHANNEL	6
72. Roadway Alignment:	STRAIGHT AND LEVEL, FIELD ENTRANCE SOUTHEAST	7
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	L NONE - U.F.	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00044

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REMOVE DEBRIS AND SILT FROM THE NORTH PIPE. ADD THREE END MARKERS. REMOVE THE 10 TON SIGN (IF NOT APPLICABLE TO THE ROAD).

76. Improvement Length: 000024 feet
94. Bridge Imp. Costs: \$ 3 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 4 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000410
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/30/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: NA years
B. Deck: NA years
C. Joints: NA years
D. Superstructure: NA years
E. Substructure: NA years
F. Approach: 08 years
G. Channel: 05 years
H. Culvert: 15 years

Remarks:

THREE OF FOUR END MARKERS ARE MISSING. SLIGHT RUST IS EVIDENT AT THE FLOWLINE OF THE PIPES. THE NORTH PIPE IS SILTED AND PARTIALLY OBSTRUCTED BY DEBRIS. THERE IS A 10 TON LIMIT SIGN SEVERAL HUNDRED FEET SOUTH OF THE STRUCTURE WHICH MAY APPLY TO THE ROAD RATHER THAN THE BRIDGE.

Bridge No. 45



Looking West



Looking Northeast

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00045

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00045
8A. NBI Number:	1800036	8C. Old Bridge Number:	
5A. Inventory Route On:	141000800	5B. Rd. Number On:	0080
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MISSISSINAWA RIVER		
7. Facility Carried:	RD 850 N		
9A. Location:	840N 440E	9B Map Location:	H-5
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 18.8 Min.	17. Longitude:	085 Deg. 18.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	310B STEEL THRU TRUSS		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	8 TIMBER		
108A. Wearing Surface:	7 Timber	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1902	106A. Reconstructed:	1985
27B. Paint Date:		106B. Repaired:	2001
59B. Paint Rating:	2 VERY POOR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	01 Under: 00		
29A. ADT - Over:	000116	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0180.0 Feet	49. Structure Length:	0183.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	015.6 Feet	52. Deck Width (o-o):	016.0 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	17 ' 00 "	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	15.6 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	17 ' 00 "	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00045

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 3 ONE LANE BR
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 3 POSSIBLY ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER	POOR-CRACKED, BOUNCING	4
59. Super:	STEEL THRU TRUSS	SECT LOSS, CONNECTION REPAIR	3
60. Sub:	STONE MASONRY ABUTMENTS	POOR-CRACKS & POPOUTS	4
61. Channel:	EARTH/VEGETATION	FAIR	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-SETTLED; CRACKED	5

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 203
66A. Inventory Rating: 203 64B. Year of Rating: 2003
66B. Gross Tons or H Rating: 03
70. Bridge Posting: 2 POSTED 3 TONS
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 03 66D. Date Posted/Closed: 06 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	HVY RUST, SECT LOSS, SOME CONNECTION REPAIRS	2
68. Geometry:	ONE LANE	2
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE OPENING	7
72. Roadway Alignment:	POOR HORIZONTAL ALIGNMENT; HILL TO EAST	3
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	H MISC. STEEL RAILINGS	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00045

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BRIDGE. MEANWHILE, ADD END MARKERS, MAKE CONNECTION REPAIRS, AND REPAIR BROKEN DECK TIMBERS. GRIND OFF THE WELDS AT THE BRIDGE RAIL CONNECTIONS TO THE VERTICAL MEMBERS AND AT THE DECK EDGE CONNECTIONS TO THE LOWER CHORDS.

76. Improvement Length: 000220 feet
94. Bridge Imp. Costs: \$ 450 X 1000
95. Rdwy. Imp. Costs: \$ 115 X 1000
96. Total Project Costs: \$ 565 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000200
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/30/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: Y06 B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: 0305 B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	00	years
B. Deck:	00	years
C. Joints:	NA	years
D. Superstructure:	01	years
E. Substructure:	08	years
F. Approach:	05	years
G. Channel:	13	years
H. Culvert:	NA	years

Remarks:

THE BRIDGE VIBRATES LOUDLY WITH AUTOMOBILE TRAFFIC. TWO FLOOR BEAMS HAVE BEEN REPLACED SINCE THE LAST INSPECTION. FOUR ADJACENT DECK TIMBERS ARE BROKEN NEAR MIDSPAN. SEVERAL CONNECTIONS HAVE SIGNIFICANT PACK RUST AND SECTION LOSS. SEE THE CRITICAL FEATURE DETAILS FOR FURTHER INFORMATION.

Bridge No. 46



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00046

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00046
8A. NBI Number:	1800037	8C. Old Bridge Number:	
5A. Inventory Route On:	141000670	5B. Rd. Number On:	0067
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	BOSMAN DITCH		
7. Facility Carried:	RD 550 E		
9A. Location:	990N 550E	9B Map Location:	J-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 20.1 Min.	17. Longitude:	085 Deg. 17.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	001
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1989	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000700	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0030.0 Feet	49. Structure Length:	0032.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	025.6 Feet
51. Bridge Roadway Width:	024.2 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	022 Feet	35. Structure Flared:	0 NO
34. Skew:	38 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.2 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00046

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 08 MINOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-RANDOM CRACKS,POTHOLES	5
59. Super:	TIMBER SLAB	FAIR-SEEPAGE, SLAB SAGS	5
60. Sub:	TIMBER	FAIR-NE PILES LEANING	5
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		ASPHALT-CRACKED, WEDGED	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 240
66A. Inventory Rating: 236 64B. Year of Rating: 1990
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	TIMBER SLAB SAGS, PILES LEANING, DISTORTION	5
68. Geometry:	TWO LANES	6
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	BARELY ADEQUATE	5
72. Roadway Alignment:	STRAIGHT; CREST AT BRIDGE; INTERSECTION NORTH	7
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00046

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
**REMOVE THE WEARING SURFACE AND RESURFACE THE BRIDGE DECK AND APPROACHES.
INSTALL TWO ADDITIONAL END MARKERS.**

76. Improvement Length: 000032 feet
94. Bridge Imp. Costs: \$ 8 X 1000
95. Rdwy. Imp. Costs: \$ 5 X 1000
96. Total Project Costs: \$ 13 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000920
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/30/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	01	years
B. Deck:	11	years
C. Joints:	NA	years
D. Superstructure:	11	years
E. Substructure:	11	years
F. Approach:	03	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

PILES ARE LEANING OUT AT THE NORTHEAST CORNER; THE SLAB IS DISTORTED. THE SLAB SAGS NOTICEABLY. TWO OF FOUR END MARKERS ARE MISSING - ONE IS TWISTED. THE TIMBER RAIL IS NOT STANDARD.

Bridge No. 47



Looking Easterly



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00047

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00047
8A. NBI Number:	1800200	8C. Old Bridge Number:	
5A. Inventory Route On:	151001780	5B. Rd. Number On:	0178
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	JAKES CREEK		
7. Facility Carried:	MOORE ROAD		
9A. Location:	330N 165W	9B Map Location:	E-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.2 Min.	17. Longitude:	085 Deg. 24.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	03 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1983	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	003118	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	01 1 MILE		

GEOMETRIC DATA:

48. Maximum Span Length:	0015.0 Feet	49. Structure Length:	0048.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	035.9 Feet
51. Bridge Roadway Width:	034.6 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	024 Feet	35. Structure Flared:	0 NO
34. Skew:	12 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	34.6 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00047

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 19 LOCAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	GOOD-LT RANDOM SURF CRACKS	7
59. Super:	TIMBER	FAIR-WEATHERED FROM SEEPAGE	6
60. Sub:	TIMBER PILE BTS & MUDWALLS	FAIR-MUDWALLS UNDERMINED	6
61. Channel:	RIPRAP	FAIR-SLOPES ERODED	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-SETTLEMENT, DROP-OFFS	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 240
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	WEATHERED. SEEPAGE.	6
68. Geometry:	TWO LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	LEVEL. DRIVEWAY SOUTHWEST. CURVE WEST.	7
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00047

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
ADD MATERIAL AT THE APPROACH SHOULDERS. CRACKSEAL THE DECK. PLACE RIPRAP AT THE ENDBENTS. REPLACE THE NUTS ON THE WEST SPREADER BEAM. REPLACE ROTTED APPROACH RAIL POSTS. ADD BOTTOM RAILS.

76. Improvement Length: 000048 feet
94. Bridge Imp. Costs: \$ 3 X 1000
95. Rdwy. Imp. Costs: \$ 3 X 1000
96. Total Project Costs: \$ 6 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 004100
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/14/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	08	years
C. Joints:	NA	years
D. Superstructure:	08	years
E. Substructure:	08	years
F. Approach:	15	years
G. Channel:	06	years
H. Culvert:	NA	years

Remarks:

TWO OF FOUR END MARKERS ARE MISSING. THERE ARE DROP-OFFS AT THE CORNERS. THE APPROACH RAILS ARE TOO HIGH (36" TO 42" AT THE SHOULDERS). THERE IS A WHITE MOLD ON THE BOTTOM OF THE SLAB. THE TIMBER RAIL IS HIGH AND NOT STANDARD. SOME APPROACH RAIL POSTS ARE ROTTEN. THE ENDS OF THE SLAB ARE EXPOSED AT THE SHOULDERS, POSING TRAFFIC HAZARDS. THE MUDWALLS ARE UNDERMINED; THERE IS NO RIPRAP AT THE BANKS. THERE IS A HOLE IN THE SHOULDER AT THE NORTHEAST CORNER DUE TO FILL LOSS.

Bridge No. 48



Looking Northerly



Looking Northwesterly

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00048

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00048
8A. NBI Number:	1800038	8C. Old Bridge Number:	
5A. Inventory Route On:	141000030	5B. Rd. Number On:	0003
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	KILLBUCK CREEK		
7. Facility Carried:	RD 925 W		
9A. Location:	290N 925W	9B Map Location:	A-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.0 Min.	17. Longitude:	085 Deg. 33.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1994	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000100	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0026.5 Feet	49. Structure Length:	0064.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	028.0 Feet
51. Bridge Roadway Width:	026.5 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	016 Feet	35. Structure Flared:	0 NO
34. Skew:	00 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	26.5 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00048

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	GOOD-LONG & TRANS CRACKS	7
59. Super:	TIMBER SLAB	GOOD-2 BOARDS SPLIT @ N SPAN	8
60. Sub:	TIMBER PILES	GOOD	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		GOOD-SETTLING	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 240
66A. Inventory Rating: 236 64B. Year of Rating: 1994
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 OPEN
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	2 SPLIT BOARDS, WEARING SURFACE CRACKED	8
68. Geometry:	TWO LANES	7
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STR ON HORIZ CURVE, FIELD ENTR SE, SEE NOTE	5
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00048

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:

CRACKSEAL THE ASPHALT WEARING SURFACE. REPLACE THE NORTHWEST END MARKER. REPOSITION THE NORTHEAST END MARKER OR TRIM THE TREES. SWEEP SAND FROM THE DECK. TIGHTEN THE NUTS IN THE SPREADER BEAMS.

76. Improvement Length: 000064 feet
94. Bridge Imp. Costs: \$ 1 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 2 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/6/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	08	years
B. Deck:	19	years
C. Joints:	NA	years
D. Superstructure:	19	years
E. Substructure:	19	years
F. Approach:	12	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

END MARKERS ARE IN PLACE - ONE HAS BEEN VANDALIZED, ANOTHER IS HIDDEN FROM VIEW. DUE TO THE CURVE, TRAFFIC TRACKS SIGNIFICANTLY OVER THE CENTERLINE AT THE SOUTH END OF THE BRIDGE. CONSEQUENTLY, SAND ACCUMULATES IN THE INTENDED TRAFFIC LANES, POSING AN ADDITIONAL TRAFFIC HAZARD. THE TIMBER RAIL IS HIGH AND NOT STANDARD. THERE IS MINOR COLLISION DAMAGE TO THE EAST CURB NEAR THE SOUTH INTERIOR BENT. ONE NUT IS LOOSE IN THE NORTH SPREADER BEAM.

Bridge No. 49



Looking West



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00049

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00049
8A. NBI Number:	1800039	8C. Old Bridge Number:	
5A. Inventory Route On:	141001660	5B. Rd. Number On:	0166
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	DRY BR KILLBUCK CREEK		
7. Facility Carried:	RD 300 N		
9A. Location:	300N 960W	9B Map Location:	A-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.0 Min.	17. Longitude:	085 Deg. 34.1 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	319A MULTIPLATE ARCH - UNDER FILL		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	N Not Applicable	108B. Membrane:	N Not Applicable
108C. Protection:	N Not Applicable	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1981	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0006.3 Feet	49. Structure Length:	0024.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	000.0 Feet	52. Deck Width (o-o):	000.0 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	26.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00049

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	N/A		N/A
59. Super:	N/A		N/A
60. Sub:	N/A		N/A
61. Channel:	EARTH/VEGETATION	GOOD	8
62. Culv/Ret:	CMP ARCH	GOOD-SLIGHT DEFLECTIONS	7
65. Approach Roadway:		ASPH-SETTLED BETWEEN PIPES	6

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 212
66A. Inventory Rating: 210 64B. Year of Rating: 1984
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 07 / 03

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SLIGHT DEFLECTION IN ALL PIPES. LOAD RATING	3
68. Geometry:	N/A	N/A
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	STRAIGHT AND LEVEL	7
36A. Traffic Safety Features:	1101 GOOD RAILING -NO APPROACH RAIL	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	L NONE - U.F.	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00049

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INCREASE THE AMOUNT OF FILL OVER THE PIPES TO IMPROVE THE LOAD RATING. ADD END MARKERS.

76. Improvement Length: 000024 feet
94. Bridge Imp. Costs: \$ 7 X 1000
95. Rdwy. Imp. Costs: \$ 15 X 1000
96. Total Project Costs: \$ 22 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/6/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: NA years
B. Deck: NA years
C. Joints: NA years
D. Superstructure: NA years
E. Substructure: NA years
F. Approach: 08 years
G. Channel: 15 years
H. Culvert: 19 years

Remarks:

TWO OF FOUR END MARKERS ARE MISSING - THE NORTHEAST END MARKER IS NOT PROPERLY SET. THERE IS INSUFFICIENT COVER FOR AN H-20 LOADING. THERE IS SLIGHT SHOULDER LOSS AT THE TILE VENT ON THE NORTHEAST CORNER AND AT THE NORTH SHOULDER. THERE ARE POTHOLES IN THE ASPHALT AT EACH END AWAY FROM THE STRUCTURE.

Bridge No. 50



Looking South



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00050

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00050
8A. NBI Number:	1800040	8C. Old Bridge Number:	
5A. Inventory Route On:	141003350	5B. Rd. Number On:	0335
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	HEDGELAND DITCH		
7. Facility Carried:	WHEELING AVENUE		
9A. Location:	1060N 410W	9B Map Location:	D-10
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 20.7 Min.	17. Longitude:	085 Deg. 27.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1965	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1991
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001657	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0022.0 Feet	49. Structure Length:	0024.0 Feet
50. Sidewalk/Curb Left:	00.8 Right: 00.8		
51. Bridge Roadway Width:	028.3 Feet	52. Deck Width (o-o):	030.0 Feet
32. Approach Roadway Width:	026 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	20 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	28.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00050**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
104A. Highway System - Over: **0 S-4318** 104B. - Under:
26A. Functional Class Over: **07 MAJOR COLLECTOR - RURAL**
26B. Functional Class Under:
100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TOP OF BEAMS W/ ASPHALT W.S.	FAIR-CRACKS AT ABUTMENTS	6
59. Super:	PRESTRESSED BOX BEAMS	GOOD-SEEPAGE BETWEEN BEAMS	7
60. Sub:	TIMBER ENDBENTS	FAIR-PARTIAL DECAY IN N PILE	4
61. Channel:	EARTH/VEGETATION	FAIR-SILTING;FLOW AT BENTS	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT-FAIR-CRACKED	6

LOAD RATING AND POSTING:

31. Design Load: **0 OTHER/UNKNOWN**
64A. Operating Rating: **218**
66A. Inventory Rating: **216** 64B. Year of Rating:
66B. Gross Tons or H Rating: **16**
70. Bridge Posting: **5 LEGAL LIMIT**
41. Open, Posted, or Closed: **A OPEN**
66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	DECAY IN N CENTER PILE AND CAP	4
68. Geometry:	TWO LANES-SLIGHTLY NARROW FOR MAJOR COLLECTOR	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQ OPENING AND SKEW; RESTRICTIVE FENCE	5
72. Roadway Alignment:	HORIZ CURVE & HILL NORTH, DRIVE NORTHWEST	5
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00050

PROPOSED IMPROVEMENTS:

73. Year Needed: 2006
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE THE BRIDGE BY CONTRACT DUE TO THE ROTTING BENT CAP. MEANWHILE PLACE APPROPRIATE END MARKERS AND APPROACH RAIL.

76. Improvement Length: 000024 feet
94. Bridge Imp. Costs: \$ 120 X 1000
95. Rdwy. Imp. Costs: \$ 35 X 1000
96. Total Project Costs: \$ 155 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 002750
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/4/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	08	years
B. Deck:	30	years
C. Joints:	NA	years
D. Superstructure:	30	years
E. Substructure:	02	years
F. Approach:	12	years
G. Channel:	05	years
H. Culvert:	NA	years

Remarks:

THE CHANNEL FLOWS AGAINST THE ENDBENTS. END MARKERS ARE IN PLACE. THERE IS SEEPAGE ONTO THE TIMBER PILES. THE CENTER PILE AT THE NORTH ENDBENT IS ROTTING. THE SOUTH CAP JUST EAST OF CENTER IS ALSO ROTTING. THE SOUTHWEST END MARKER IS NOT IN PLACE. THERE IS A CURVE AND HILL TO THE NORTH WHICH HAVE MINIMAL SIGHT DISTANCE. THE WINGWALLS DROP OFF STEEPLY WITH NO RAIL PROTECTION. SEVERAL WING POSTS ARE ROTTEN.

Bridge No. 51



Looking West



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00051

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00051
8A. NBI Number:	1800041	8C. Old Bridge Number:	
5A. Inventory Route On:	141000520	5B. Rd. Number On:	0052
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	KILLBUCK CREEK		
7. Facility Carried:	RD 200 N		
9A. Location:	200N 940W	9B Map Location:	A-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 13.1 Min.	17. Longitude:	085 Deg. 33.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	402E COMPOSITE CONTINUOUS STEEL GIRDER		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	3 Latex Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1960	106A. Reconstructed:	1999
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	5 FAIR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	55 HWY.,PED/WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	004634	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0074.0 Feet	49. Structure Length:	0196.0 Feet
50. Sidewalk/Curb Left:	02.0 Right: 02.0		
51. Bridge Roadway Width:	030.3 Feet	52. Deck Width (o-o):	036.4 Feet
32. Approach Roadway Width:	034 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	30 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	30.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00051**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 S-8018** 104B. - Under:
 26A. Functional Class Over: **07 MAJOR COLLECTOR - RURAL**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE - OVERLAID	FAIR-HAUNCHES DAMAGED BELOW	6
59. Super:	STEEL BEAM	FAIR-LIGHT RUST, SLIGHT SAG	6
60. Sub:	CONCRETE	FAIR-E PIER CRACKED AT NOSE	6
61. Channel:	CONCRETE SLOPEWALL	FAIR-E BERM CRACKED, SETTLED	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		SETTLED, EB DIPS AT E SLAB	4

LOAD RATING AND POSTING:

31. Design Load: **0 OTHER/UNKNOWN**
 64A. Operating Rating: **245**
 66A. Inventory Rating: **236** 64B. Year of Rating:
 66B. Gross Tons or H Rating:
 70. Bridge Posting: **5 OPEN**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	EXPANS MAY BE IMPEDED-ENDS, RUSTED BRG PLATES	6
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	6
72. Roadway Alignment:	INTERSECTION & HILL EAST, STRAIGHT, HILL WEST	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	E CONC. W. 2 METAL TUBES	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00051

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT

Describe Item 75:

REPLACE THE JOINTS. REPLACE THE BEARINGS. REPLACE AND EXTEND THE GUARDRAIL AT ALL CORNERS EXCEPT THE SOUTHEAST. BLAST AND PAINT THE OUTSIDE BEAMS AND SOME AREAS OF THE INSIDE BEAMS.

76. Improvement Length: 000196 feet

94. Bridge Imp. Costs: \$ 65 X 1000

95. Rdwy. Imp. Costs: \$ 50 X 1000

96. Total Project Costs: \$ 115 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 007600

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/6/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 13 years

B. Deck: 11 years

C. Joints: 00 years

D. Superstructure: 20 years

E. Substructure: 22 years

F. Approach: 05 years

G. Channel: 08 years

H. Culvert: NA years

Remarks:

THE JOINTS ARE OPEN, ALLOWING SEEPAGE AT THE ENDBENTS. THE DECK HAS NUMEROUS TRANSVERSE AND RANDOM CRACKS BELOW; SOME MEDIUM WIDTH CRACKS EXTEND THROUGH THE COPINGS. THERE ARE MINOR DECK SPALLS BELOW IN THE WEST AND MIDDLE SPANS AND MODERATE TO HEAVY SPALLS IN THE EAST SPAN. THERE ARE LONGITUDINAL HAIRLINE CRACKS IN THE WEARING SURFACE. SIGNIFICANT RUST AND SOME SECTION LOSS WAS FOUND AT THE WEST END OF THE SECOND BEAM FROM THE NORTH. THERE IS MINOR BRIDGE RAIL DAMAGE AT THE TOP AND BOTTOM TUBES ON THE SOUTH SIDE. THE APPROACH RAIL IS LOW AND INADEQUATE AT THE NORTHEAST, NORTHWEST, AND SOUTHWEST CORNERS. TWO END MARKERS ARE IN PLACE; THE SOUTHWEST END MARKER IS THE WRONG DIRECTION. THE WEST CONCRETE APPROACH PAD HAS SPALLS NEXT TO THE BRIDGE JOINT. THE EAST APPROACH HAS ASPHALT OVER THE CONCRETE APPROACH PAD WITH POTHOLES IN THE ASPHALT NEXT TO THE JOINT.

Bridge No. 52



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00052

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00052
8A. NBI Number:	1800042	8C. Old Bridge Number:	
5A. Inventory Route On:	151003230	5B. Rd. Number On:	0323
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	JAKES CREEK		
7. Facility Carried:	RD 300 W		
9A. Location:	390N 300W	9B Map Location:	D-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.8 Min.	17. Longitude:	085 Deg. 26.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	03 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1984	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	001298	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0026.0 Feet	49. Structure Length:	0054.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	027.3 Feet
51. Bridge Roadway Width:	026.0 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	020 Feet	35. Structure Flared:	0 NO
34. Skew:	00 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
47A. Total Hor. Clr. - Over:	26.0 Feet	54A. Type:	N/A
47C. Total Hor. Clr. - Under:	Feet	55A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)		
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00052

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-280 104B. - Under:
26A. Functional Class Over: 17 COLLECTOR - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-TRANS, LONG CRACKING	7
59. Super:	TIMBER SLAB	GOOD-MINOR SEEPAGE	8
60. Sub:	TIMBER	GOOD	8
61. Channel:	RIPRAP	GOOD-DEBRIS	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD, SETTLING	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 240
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR DEFICIENCIES	8
68. Geometry:	TWO LANES	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE. HEAVY DEBRIS DOWNSTREAM	7
72. Roadway Alignment:	STRAIGHT AND LEVEL. INTERSECTION NORTH.	6
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00052

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REPAIR THE PIPE AND FILL THE HOLE AT THE SOUTHWEST CORNER. DRAW THE SPREADER BEAM TIGHT TO THE DECK AND TIGHTEN THE NUTS. REFASTEN THE LOOSE STRAP. CRACKSEAL THE WEARING SURFACE. CUT OFF THE DRAIN PIPE AT SOUTHWEST CORNER; REPAIR THE PIPE JOINT TO THE CONCRETE PIPE.

76. Improvement Length: 000054 feet
94. Bridge Imp. Costs: \$ 4 X 1000
95. Rdwy. Imp. Costs: \$ 2 X 1000
96. Total Project Costs: \$ 6 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 001720
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/14/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	05	years
B. Deck:	09	years
C. Joints:	NA	years
D. Superstructure:	09	years
E. Substructure:	09	years
F. Approach:	11	years
G. Channel:	11	years
H. Culvert:	NA	years

Remarks:

DRIVEWAYS ARE LOCATED AT THE NORTHWEST AND SOUTHWEST CORNERS. THERE IS A SINKHOLE AT THE SOUTHWEST APPROACH SHOULDER AS THE RESULT OF SEPARATION AT THE CONCRETE PIPE JOINT. TWO OF FOUR END MARKERS ARE MISSING. ANOTHER JOINT IS SEPARATED NEAR THE OUTLET WHERE CONCRETE PIPE MATCHES THE METAL PIPE. THERE IS A SMALL AMOUNT OF MOLD ON THE SLAB BELOW. THE SPREADER BEAMS ARE NOT DRAWN TIGHT TO THE SLAB: MOVEMENT IN THE SLABS IS VISIBLY AND AUDIBLY NOTICEABLE. AT LEAST ONE STRAP BETWEEN THE SLAB ENDS OVER THE SOUTH INTERIOR BENT IS NOT FASTENED. THERE IS MINOR DEBRIS IN THE STREAM.

Bridge No. 53



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00053

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00053
8A. NBI Number:	1800201	8C. Old Bridge Number:	
5A. Inventory Route On:	151003230	5B. Rd. Number On:	0323
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	EAGLE BRANCH CREEK		
7. Facility Carried:	RD 300 W		
9A. Location:	310N 300W	9B Map Location:	D-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.1 Min.	17. Longitude:	085 Deg. 26.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	03 Inches

AGE AND SERVICE:

27A. Year Built:	1983	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	002117	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0021.0 Feet	49. Structure Length:	0024.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	031.5 Feet	52. Deck Width (o-o):	032.2 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	31.5 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00053

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 M-280 104B. - Under:
26A. Functional Class Over: 16 MINOR ARTERIAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	FAIR-TRANS & LONG CRACKING	6
59. Super:	PRESTRESSED BOX BEAMS	GOOD-SEEPAGE, EFFLORESCENCE	7
60. Sub:	CONCRETE ABUTMENTS	FAIR-SEEPAGE	6
61. Channel:	RIPRAP	FAIR-UNDERCUT AT SE CORNER	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - ROUGH & SETTLING	4

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SEEPAGE AT BOX BEAM JOINTS AND ABUTS, EROSION	6
68. Geometry:	TWO LANES	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	SLIGHTLY INADEQUATE	6
72. Roadway Alignment:	STRAIGHT AND LEVEL. DRIVE NORTHEAST	7
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	3 SCOUR CRIT. - UNSTABLE	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00053

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
**UNDERPIN THE ABUTMENTS AND REBUILD THE RIPRAP. ADD MATERIAL AT THE SHOULDERS.
ADD POSTS TO THE APPROACH RAIL.**

76. Improvement Length: 000024 feet
94. Bridge Imp. Costs: \$ 4 X 1000
95. Rdwy. Imp. Costs: \$ 2 X 1000
96. Total Project Costs: \$ 6 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 002820
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/14/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:
A. Wearing Surface: 12 years
B. Deck: 35 years
C. Joints: NA years
D. Superstructure: 35 years
E. Substructure: 23 years
F. Approach: 04 years
G. Channel: 01 years
H. Culvert: NA years

Remarks:

TWO OF FOUR END MARKERS ARE IN PLACE. BOTH ABUTMENTS ARE UNDERMINED; THE SOUTH ABUTMENT IS THE WORST. PILES ARE EXPOSED AND RUSTING AT THE SOUTHEAST CORNER. THE SHOULDERS ARE SETTLING APPARENTLY DUE TO FILL LOSS. THE APPROACH RAIL POSTS ARE SPACED AT 12'-6". THE POSTS AT THE WEST RAIL TRANSITIONS ARE COMPROMISED BY EROSION AT THE BRIDGE CORNERS. THE APPROACHES AND BRIDGE HAVE BEEN RESURFACED SINCE THE LAST INSPECTION.

Bridge No. 54



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00054

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00054
8A. NBI Number:	1800044	8C. Old Bridge Number:	
5A. Inventory Route On:	141000350	5B. Rd. Number On:	0035
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	EAGLE BRANCH CREEK		
7. Facility Carried:	RD 400 W		
9A. Location:	360N 400W	9B Map Location:	D-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.5 Min.	17. Longitude:	085 Deg. 27.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1961	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1994
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001500	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0044.0 Feet	49. Structure Length:	0047.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	022.2 Feet	52. Deck Width (o-o):	025.6 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	25 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	22.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00054

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-7318 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-POPOUTS/CRACKS IN W.S.	6
59. Super:	PRESTRESSED BOX BEAMS	GOOD-MINOR SEEPAGE	8
60. Sub:	CONCRETE END BENTS	GOOD-MINOR SEEPAGE	7
61. Channel:	RIPRAP/NATURAL	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		GOOD-CRACKED, POTHOLE	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	POPOUTS AND CRACKING, MINOR SEEPAGE	7
68. Geometry:	TWO LANES. NARROW FOR A.D.T.	3
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	6
72. Roadway Alignment:	STRAIGHT AND LEVEL	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00054

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
PLACE A MODIFIED CONCRETE DECK OVERLAY. INSTALL GUARD RAIL WITH TRANSITIONS, INCLUDING CURB TRANSITIONS, AND END TREATMENTS AT ALL CORNERS.

76. Improvement Length: 000047 feet
94. Bridge Imp. Costs: \$ 33 X 1000
95. Rdwy. Imp. Costs: \$ 11 X 1000
96. Total Project Costs: \$ 44 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 002540
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/14/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	03	years
B. Deck:	23	years
C. Joints:	NA	years
D. Superstructure:	23	years
E. Substructure:	23	years
F. Approach:	12	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

END MARKERS ARE IN PLACE; THE NORTH END MARKERS EACH HAVE THE TOP BOLT MISSING. THE WEARING SURFACE HAS ONLY A LIGHT BROOM FINISH. THE WEARING SURFACE HAS LONGITUDINAL AND TRANSVERSE HAIRLINE CRACKS AND SOME DELAMINATION, SPALLS, AND POPOUTS. A POTHOLE AND CRACKS ARE DEVELOPING AT THE NORTHBOUND SIDE OF THE NORTH APPROACH. THE PRIORITY SHOWN IN THE PRIORITY LIST IS FOR THE APPROACH RAILS DUE TO THE ADT AND SPEED; THE OVERLAY IS NOT A HIGH PRIORITY.

Bridge No. 55



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00055

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00055
8A. NBI Number:	1800045	8C. Old Bridge Number:	131
5A. Inventory Route On:	141000350	5B. Rd. Number On:	0035
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	JAKES CREEK		
7. Facility Carried:	RD 400 W		
9A. Location:	375N 400W	9B Map Location:	D-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.6 Min.	17. Longitude:	085 Deg. 27.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1969	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1994
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001500	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.0 Feet	49. Structure Length:	0062.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	025.2 Feet	52. Deck Width (o-o):	028.7 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	10 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	25.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00055

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-7318 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-SPALLING, CRACKING	6
59. Super:	CONTINUOUS REINF CONC SLAB	FAIR-MIN EFFLOR, MIN CRACK	7
60. Sub:	CONCRETE	GOOD-MINOR EFFLORESCENCE	7
61. Channel:	NATURAL	FAIR-ANIMAL BURROWS AT ABUTS	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-CRACKED, HOLE SOUTH	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	POPOUTS, SPALLING, EFFLORESCENCE	7
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	STRAIGHT AND LEVEL. FIELD ENTRANCE SOUTHWEST.	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	J CONC. - STEEL ENCASED	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00055

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT

Describe Item 75:

PLACE A MODIFIED CONCRETE BRIDGE DECK OVERLAY. INSTALL APPROACH RAIL WITH END TREATMENTS AT ALL CORNERS ALONG WITH TRANSITIONS, INCLUDING CURB TRANSITIONS. REPAIR THE HOLE IN THE SOUTH APPROACH PAVEMENT. UNDERPIN THE ENDBENTS. ADD EXTENSIONS TO THE DRAIN OUTLETS.

76. Improvement Length: 000062 feet

94. Bridge Imp. Costs: \$ 60 X 1000

95. Rdwy. Imp. Costs: \$ 10 X 1000

96. Total Project Costs: \$ 70 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 002540

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/14/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	01	years
B. Deck:	20	years
C. Joints:	NA	years
D. Superstructure:	20	years
E. Substructure:	25	years
F. Approach:	12	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

END MARKERS ARE IN PLACE. THE PLAQUE READS BRIDGE NUMBER 131. THERE IS SOME UNDERCUT AT THE ENDBENTS. THERE IS A HAIRLINE CRACKS AT THE CENTERLINE OF THE NORTH SPAN BELOW, TWO NARROW CRACKS AT THE CENTERLINE AND OTHER LONGITUDINAL HAIRLINE CRACKS IN THE CENTER SPAN BELOW AND NUMEROUS CRACKS AND SURFACE SPALLS IN THE WEARING SURFACE. THE EAST SHOULDER OF THE WEARING SURFACE HAS A TWO-INCH DEEP AREA OF DETERIORATION APPROXIMATELY TWO FEET WIDE BY FIVE FEET LONG. THE DRAINS SEEP ONTO THE BOTTOM OF THE DECK: NO APPARENT DAMAGE NOTED.

Bridge No. 56



Looking East



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00056

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00056
8A. NBI Number:	1800046	8C. Old Bridge Number:	
5A. Inventory Route On:	151001780	5B. Rd. Number On:	0178
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	51876 MUNCIE
3. County:	18 DELAWARE		
6. Features Intersected:	EAGLE BRANCH CREEK		
7. Facility Carried:	RD 350 N		
9A. Location:	350N 385W	9B Map Location:	D-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.5 Min.	17. Longitude:	085 Deg. 27.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	506 PRESTRESSED CONCRETE BOX BEAMS - SPREAD		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	8 Unknown	108D. Thickness of Asph:	02 Inches

AGE AND SERVICE:

27A. Year Built:	1966	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	002744	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0057.0 Feet	49. Structure Length:	0059.0 Feet
50. Sidewalk/Curb Left:	00.6 Right: 00.6		
51. Bridge Roadway Width:	024.2 Feet	52. Deck Width (o-o):	026.0 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	40 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00056

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 19 LOCAL - URBAN
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	GOOD	8
59. Super:	SPREAD PRESTRESSED BOX BM	GOOD	8
60. Sub:	CONCRETE END BENTS	GOOD	8
61. Channel:	CONCRETE SLOPEWALL	POOR-BROKEN & UNDERCUT	4
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	BROKEN AND UNDERCUT SLOPEWALL, OTHERWISE GOOD	8
68. Geometry:	TWO LANES - SLIGHTLY NARROW	3
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQ OPENING & SKEW; CHANNEL CURVES UPSTREAM	6
72. Roadway Alignment:	STRAIGHT & LEVEL. INTERSECTION WEST.	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00056

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL APPROACH RAIL WITH END TREATMENTS AT ALL CORNERS. ADD CURB TRANSITIONS. REPAIR THE SLOPEWALLS. REPAIR THE BRIDGE RAIL.

76. Improvement Length: 000059 feet
94. Bridge Imp. Costs: \$ 12 X 1000
95. Rdwy. Imp. Costs: \$ 12 X 1000
96. Total Project Costs: \$ 24 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 003630
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/14/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	10	years
B. Deck:	29	years
C. Joints:	NA	years
D. Superstructure:	29	years
E. Substructure:	29	years
F. Approach:	10	years
G. Channel:	01	years
H. Culvert:	NA	years

Remarks:

THE WEST SLOPEWALL IS UNDERCUT AND BROKEN. END MARKERS ARE IN PLACE. THE NORTHWEST BRIDGE RAIL IS BADLY DAMAGED. THE EXPOSED END OF THE CURBS POSE CRASH HAZARDS. THE CREEK RUNS ALONG THE ROAD TO THE SOUTHEAST; THE EAST APPROACH RAIL IS LOW AND INADEQUATE.

Bridge No. 57



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00057

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00057
8A. NBI Number:	1800047	8C. Old Bridge Number:	
5A. Inventory Route On:	141001250	5B. Rd. Number On:	0125
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	JAKES CREEK		
7. Facility Carried:	RD 750 W		
9A. Location:	390N 750W	9B Map Location:	B-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.8 Min.	17. Longitude:	085 Deg. 31.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	01 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1991	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000250	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0032.0 Feet	49. Structure Length:	0067.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	025.8 Feet
51. Bridge Roadway Width:	024.4 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	024 Feet	35. Structure Flared:	0 NO
34. Skew:	42 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.4 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00057**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
104A. Highway System - Over: **0 NON FA** 104B. - Under:
26A. Functional Class Over: **09 LOCAL - RURAL**
26B. Functional Class Under:
100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-CRACKS IN WEARING SURF	7
59. Super:	TIMBER SLAB	GOOD-MINOR SEEPAGE	7
60. Sub:	TIMBER	GOOD	7
61. Channel:	RIPRAP	GOOD-CATTLE GATE EAST	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		GOOD-SETTLING	7

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
64A. Operating Rating: **240**
66A. Inventory Rating: **236** 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: **5 LEGAL LIMIT**
41. Open, Posted, or Closed: **A OPEN**
66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR CRACKING & SEEPAGE, MISSING RAIL BOLTS	7
68. Geometry:	TWO LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT AND LEVEL	8
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00057

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

REPLACE MISSING BOLTS AT THE WEST GUARDRAIL. INSTALL APPROACH RAIL AT THE NORTHWEST AND SOUTHWEST CORNERS. REPAIR THE WEARING SURFACE AT THE NORTHEAST CORNER OF THE DECK. SEAL CRACKS IN THE WEARING SURFACE. REMOVE DEBRIS.

76. Improvement Length: 000067 feet

94. Bridge Imp. Costs: \$ 3 X 1000

95. Rdwy. Imp. Costs: \$ 6 X 1000

96. Total Project Costs: \$ 9 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 000410

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/14/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 04 years

B. Deck: 18 years

C. Joints: NA years

D. Superstructure: 18 years

E. Substructure: 18 years

F. Approach: 10 years

G. Channel: 20 years

H. Culvert: NA years

Remarks:

TWO END MARKERS ARE MISSING. A PORTION OF THE TIMBER DECK IS EXPOSED DUE TO DETERIORATION OF THE WEARING SURFACE AT THE NORTHEAST CORNER. THERE IS MINOR DEBRIS AT INTERIOR BENTS AND UPSTREAM AT THE CATTLE GATE. THE TIMBER RAIL IS HIGH (34" TO 36") AND NOT STANDARD. THE TIMBER RAIL AT THE SOUTHWEST CORNER IS NOT CONNECTED AND THE END IS EXPOSED TO TRAFFIC.

Bridge No. 58



Looking South



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00058

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00058
8A. NBI Number:	1800048	8C. Old Bridge Number:	
5A. Inventory Route On:	141003350	5B. Rd. Number On:	0335
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	KILLBUCK CREEK		
7. Facility Carried:	WHEELING AVENUE		
9A. Location:	710N 320W	9B Map Location:	D-9
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 17.5 Min.	17. Longitude:	085 Deg. 26.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	319A MULTIPLATE ARCH - UNDER FILL		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	N Not Applicable	108B. Membrane:	N Not Applicable
108C. Protection:	N Not Applicable	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1994	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	003213	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	06 6 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0021.5 Feet	49. Structure Length:	0022.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	000.0 Feet	52. Deck Width (o-o):	000.0 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	30 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	26.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00058

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-4318 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	N/A		N/A
59. Super:	N/A		N/A
60. Sub:	N/A		N/A
61. Channel:	RIPRAP	FAIR	6
62. Culv/Ret:	ALUMINUM	POOR-DEFLECTION & DISTORTION	4
65. Approach Roadway:		CRACKED, SETTLED OVER PIPE	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 240
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	DEFLECTED & DISTORTED; ROAD SETTLED OVER PIPE	4
68. Geometry:	TWO LANES - SLIGHTLY NARROW	N/A
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT AND LEVEL, FIELD ENTRANCE SOUTHWEST	7
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	L NONE - U.F.	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00058

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT
Describe Item 75:
REPLACE THE STRUCTURE. WIDEN THE APPROACH SHOULDERS.

76. Improvement Length: 000022 feet
94. Bridge Imp. Costs: \$ 100 X 1000
95. Rdwy. Imp. Costs: \$ 85 X 1000
96. Total Project Costs: \$ 185 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 005350
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/18/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: Y12
93. Crit. Feat. Insp. Date: A: B: C: 0405

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	NA	years
B. Deck:	NA	years
C. Joints:	NA	years
D. Superstructure:	NA	years
E. Substructure:	NA	years
F. Approach:	11	years
G. Channel:	10	years
H. Culvert:	02	years

Remarks:

END MARKERS ARE IN PLACE. THE SHOULDERS ARE VERY NARROW FOR THE ADT. THE ARCH IS DEFLECTED 6" TO 12". THE ARCH IS DISTORTED. THE RAIL SPACING IS TOO LONG (12'-6" TO 25'). THE WEST RAIL IS TOO LOW. THE BRIDGE IDENTIFICATION SIGN READS "48".

Bridge No. 59



Looking South



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00059

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00059
8A. NBI Number:	1800049	8C. Old Bridge Number:	120
5A. Inventory Route On:	141000330	5B. Rd. Number On:	0033
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	KILLBUCK CREEK		
7. Facility Carried:	RD 450 W		
9A. Location:	660N 450W	9B Map Location:	D-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 17.1 Min.	17. Longitude:	085 Deg. 28.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1968	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000244	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0032.0 Feet	49. Structure Length:	0082.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	023.2 Feet	52. Deck Width (o-o):	026.8 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	30 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	23.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00059

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-POPOUTS, MINOR CRACKS	5
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD-SEEPAGE AT DRAINS	7
60. Sub:	CONCRETE	FAIR-EXPOSED PILES	6
61. Channel:	EARTH/VEGETATION	FAIR-EROSION S SLOPE; DEBRIS	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - SETTLED, ROUGH	4

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	EXPOSED PILES AT ABUTMENTS. MINOR CRACKS	6
68. Geometry:	TWO LANES - NARROW	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	6
72. Roadway Alignment:	STRAIGHT, LEVEL; ABANDON RR S, INTERSECTION NW	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	D CONC. SPREAD FOOTINGS - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00059

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT
Describe Item 75:
REPAIR THE UNDERMINED AREAS AT THE ENDBENTS. RIPRAP THE SPILLSLOPES. RESURFACE THE APPROACHES. INSTALL APPROACH RAIL AND END MARKERS.

76. Improvement Length: 000082 feet
94. Bridge Imp. Costs: \$ 10 X 1000
95. Rdwy. Imp. Costs: \$ 25 X 1000
96. Total Project Costs: \$ 35 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000440
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/18/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	05	years
B. Deck:	22	years
C. Joints:	NA	years
D. Superstructure:	22	years
E. Substructure:	22	years
F. Approach:	02	years
G. Channel:	03	years
H. Culvert:	NA	years

Remarks:

BOTH APPROACHES ARE SETTLING. ALL FOUR END MARKERS ARE MISSING. THE PLAQUE READS BRIDGE 120. THERE IS SEEPAGE AT THE NORTH ENDBENT SEAT. THERE IS MINOR SPALLING ALONG THE CENTER OF THE MIDDLE SPAN AND MINOR EFFLORESCENCE ALONG THE CENTERLINE CONSTRUCTION JOINT. THERE ARE NARROW CRACKS IN THE COPINGS AT THE EAST SIDE OVER THE SOUTH PIER AND AT THE WEST SIDE OVER THE NORTH PIER. THERE ARE MODERATE SPALLS AROUND THE DRAIN OUTLETS IN THE DECK BELOW.

Bridge No. 61



Looking East



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00061

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00061
8A. NBI Number:	1800050	8C. Old Bridge Number:	
5A. Inventory Route On:	141000680	5B. Rd. Number On:	0068
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	KILLBUCK CREEK		
7. Facility Carried:	RD 500 N		
9A. Location:	500N 675W	9B Map Location:	C-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 15.7 Min.	17. Longitude:	085 Deg. 30.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1991	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000300	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0026.0 Feet	49. Structure Length:	0078.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	025.6 Feet
51. Bridge Roadway Width:	024.2 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	023 Feet	35. Structure Flared:	0 NO
34. Skew:	45 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.2 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00061

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-CRACKS IN WEARING SURF	7
59. Super:	TIMBER SLAB	GOOD	8
60. Sub:	TIMBER CAPS, PILE BENTS	GOOD-TIMBER & STEEL PILES	7
61. Channel:	RIPRAP	GOOD-DEBRIS	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - SOME SETTLEMENT	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 240
66A. Inventory Rating: 236 64B. Year of Rating: 1992
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO SIGNIFICANT STRUCTURAL PROBLEMS	7
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	NOT ADEQUATE - DEBRIS AT DECK LEVEL	5
72. Roadway Alignment:	STRAIGHT. HILL TO WEST, INTERSECTION NW.	5
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	M OTHER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00061

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:

REPLACE MISSING NUTS AT THE BRIDGE RAIL POST AT THE SOUTHWEST AND NORTHWEST CORNERS. INSTALL END MARKERS. CLEAR CHANNEL DEBRIS. CRACKSEAL THE WEARING SURFACE. UPDATE THE TRANSITION CONNECTION AND ADD APPROACH RAIL POSTS AT THE NORTHWEST CORNER. REPAIR FILL LOSS AT THE EAST APPROACH. PLACE RIPRAP AT THE NORTHWEST CORNER.

76. Improvement Length: 000078 feet
94. Bridge Imp. Costs: \$ 4 X 1000
95. Rdwy. Imp. Costs: \$ 4 X 1000
96. Total Project Costs: \$ 8 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000620
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/14/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	04	years
B. Deck:	16	years
C. Joints:	NA	years
D. Superstructure:	16	years
E. Substructure:	16	years
F. Approach:	10	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

THREE OF FOUR END MARKERS ARE MISSING. THE WEST INTERIOR BENT AND ENDBENT HAS TIMBER PILES. H-PILES WERE USED AT THE EAST INTERIOR BENT AND ENDBENT. THE TIMBER RAIL IS NOT STANDARD. A NUT IS MISSING AT A BRIDGE RAIL POST CONNECTION ON EACH SIDE OF THE BRIDGE AT THE WEST END. THERE IS APPARENT FILL LOSS AT THE EAST END; THERE IS A HOLE IN THE PAVEMENT. THERE IS HEAVY DEBRIS ACCUMULATION ON THE BANKS, ESPECIALLY AT THE NORTHEAST CORNER. RIPRAP HAS BEEN WASHED AWAY FROM THE BANK AT THE NORTHWEST CORNER. ADDITIONAL APPROACH RAIL POSTS ARE NEEDED AT THE NORTHWEST CORNER. THE RAIL TRANSITION HARDWARE IS INADEQUATE AT THE NORTHWEST CORNER. THERE IS SOME ROT IN THE TIMBER ENDS IN THE SUBSTRUCTURE.

Bridge No. 62



Looking South



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00062

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00062
8A. NBI Number:	1800051	8C. Old Bridge Number:	
5A. Inventory Route On:	141008410	5B. Rd. Number On:	0841
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	JAKES CREEK		
7. Facility Carried:	RD 500 W		
9A. Location:	340N 500W	9B Map Location:	C-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.4 Min.	17. Longitude:	085 Deg. 28.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	02 Inches

AGE AND SERVICE:

27A. Year Built:	1983	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000508	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0045.0 Feet	49. Structure Length:	0115.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	026.8 Feet	52. Deck Width (o-o):	027.2 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	25 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	26.8 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00062

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	GOOD-MINOR CRACKS IN W.S.	7
59. Super:	PRESTRESSED BOX BEAM	GOOD-SEEPAGE, EFFLORESCENCE	7
60. Sub:	CONC CAPS W/ STEEL H PILES	GOOD	7
61. Channel:	RIPRAP	FAIR-RESTRICTIVE FENCE WEST	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SEEPAGE, LEAKING JOINTS	7
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	STRAIGHT. HILL TO THE NORTH.	7
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	F STEEL PILES - H COLUMNS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00062

PROPOSED IMPROVEMENTS:

73. Year Needed: 2006
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
**REPLACE JOINTS AT THE INTERIOR PIERS. REPLACE RIPRAP AT THE TOPS OF THE BERMS.
ADD END MARKERS**

76. Improvement Length: 000115 feet
94. Bridge Imp. Costs: \$ 20 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 21 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000850
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/14/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	07	years
B. Deck:	30	years
C. Joints:	01	years
D. Superstructure:	30	years
E. Substructure:	35	years
F. Approach:	15	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

TWO OF FOUR END MARKERS ARE MISSING. A CATTLE GATE HANGS AT THE WEST COPING. THE WEARING SURFACE IS CRACKSEALED; THERE ARE SOME OPEN CRACKS. SOME OF THE RIPRAP HAS BEEN DISPLACED. THE ENDS OF SOME OF THE OUTSIDE BEAMS HAVE SPALLED ALONG THE VERTICAL EDGE; REINFORCING STEEL IS EXPOSED.

Bridge No. 63



Looking North



Looking Northwest

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00063

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00063
8A. NBI Number:	1800052	8C. Old Bridge Number:	
5A. Inventory Route On:	141003310	5B. Rd. Number On:	0331
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	KILLBUCK CREEK		
7. Facility Carried:	RD 850 W		
9A. Location:	315N 850W	9B Map Location:	B-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.1 Min.	17. Longitude:	085 Deg. 32.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1983	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000100	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0032.0 Feet	49. Structure Length:	0084.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	027.7 Feet
51. Bridge Roadway Width:	026.2 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	024 Feet	35. Structure Flared:	0 NO
34. Skew:	35 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	26.2 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00063**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
104A. Highway System - Over: **0 NON FA** 104B. - Under:
26A. Functional Class Over: **09 LOCAL - RURAL**
26B. Functional Class Under:
100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-TRANS, LONG CRACKING	6
59. Super:	TIMBER SLAB	GOOD-SEEPAGE	7
60. Sub:	TIMBER BENTS & WINGWALLS	GOOD-ONE SPLIT BRACE	7
61. Channel:	RIPRAP	FAIR-DEBRIS	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-SETTLED AT BR CORNERS	5

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
64A. Operating Rating: **240**
66A. Inventory Rating: **236** 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: **5 LEGAL LIMIT**
41. Open, Posted, or Closed: **A OPEN**
66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR DEFICIENCIES	7
68. Geometry:	TWO LANES - SLIGHTLY NARROW	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE OPENING, DEBRIS	7
72. Roadway Alignment:	HILL NORTH, HUMP AT STRUCTURE, STRAIGHT	6
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00063

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
WEDGE THE APPROACHES AND REPAVE THE BRIDGE DECK. PLACE RIPRAP AT THE SOUTH ENDBENT. ADD TWO END MARKERS. REPLACE THE SPLIT TIMBER BRACE. ADJUST THE HEIGHT OF THE M-RAIL.

76. Improvement Length: 000084 feet
94. Bridge Imp. Costs: \$ 13 X 1000
95. Rdwy. Imp. Costs: \$ 2 X 1000
96. Total Project Costs: \$ 15 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/14/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	01	years
B. Deck:	08	years
C. Joints:	NA	years
D. Superstructure:	08	years
E. Substructure:	08	years
F. Approach:	08	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

TWO OF FOUR END MARKERS ARE MISSING; ONE IS HIDDEN BY VEGETATION. THERE IS SOME WEATHERING OF TIMBERS IN THE NORTH SPAN DUE TO SEEPAGE. THE TIMBER BRIDGE RAIL POSTS ARE NOT STANDARD AND THE TOP OF THE M-BEAM RAIL IS JUST AT OR, IN SOME CASES, ABOVE THE TOP OF THE POSTS. THE TOP OF THE EAST RAIL HAS MINOR DAMAGE IN TWO PLACES. THE APPROACH RAIL POSTS ARE SPACED AT 12'-6". THERE IS A POTHOLE IN THE WEARING SURFACE. SOME PILES IN THE NORTH INTERIOR BENT ARE SPLIT OR CHECKED NEAR THE TOP. SOME RIPRAP IS DISPLACED AT THE SOUTH ENDBENT.

Bridge No. 64



Looking South



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00064

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00064
8A. NBI Number:	1800198	8C. Old Bridge Number:	
5A. Inventory Route On:	141003310	5B. Rd. Number On:	0331
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	PLEASANT RUN CREEK		
7. Facility Carried:	RD 850 W		
9A. Location:	210N 850W	9B Map Location:	B-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 13.2 Min.	17. Longitude:	085 Deg. 32.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	319A MULTIPLATE ARCH - UNDER FILL		
43C. Main Widening Type:		45. No. of Spans - Main:	002
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	N N/A - U.F.		
108A. Wearing Surface:	N Not Applicable	108B. Membrane:	N Not Applicable
108C. Protection:	N Not Applicable	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1977	106A. Reconstructed:	1981
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0012.0 Feet	49. Structure Length:	0027.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	000.0 Feet	52. Deck Width (o-o):	000.0 Feet
32. Approach Roadway Width:	018 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	20 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00064

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	N/A		N/A
59. Super:	N/A		N/A
60. Sub:	N/A		N/A
61. Channel:	EARTH/VEGETATION	FAIR-HEAVY VEG & DEBRIS	6
62. Culv/Ret:	CMP ARCH	FAIR-DEFL IN PIPES, SEEPAGE	6
65. Approach Roadway:		ASPH-STEEP,NARROW SHOULDERS	6

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 212
66A. Inventory Rating: 210 64B. Year of Rating: 1984
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 10 / 96

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	DEFL IN PIPES, SMALL HOLES, LOW LOAD RATING	2
68. Geometry:	N/A	N/A
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE. TREES, DEBRIS AT INLET.	6
72. Roadway Alignment:	STRAIGHT AND LEVEL. INTERSECTION SOUTH.	5
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	L NONE - U.F.	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00064

PROPOSED IMPROVEMENTS:

73. Year Needed: 2006
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT. WIDEN THE APPROACH SHOULDERS. REPLACE AND EXTEND THE GUARD RAIL.

76. Improvement Length: 000045 feet
94. Bridge Imp. Costs: \$ 130 X 1000
95. Rdwy. Imp. Costs: \$ 80 X 1000
96. Total Project Costs: \$ 210 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/14/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	NA	years
B. Deck:	NA	years
C. Joints:	NA	years
D. Superstructure:	NA	years
E. Substructure:	NA	years
F. Approach:	12	years
G. Channel:	08	years
H. Culvert:	10	years

Remarks:

TWO OF FOUR END MARKERS ARE MISSING; ONE IS LEANING. BOTH PIPES HAVE SEEPAGE. THERE IS SLIGHT DISPLACEMENT AT THE PIPE JOINTS. THE RAIL IS LOW (24"); POSTS ARE SPACED AT 12'-6". THE SOUTHWEST AND NORTHEAST END TREATMENTS ARE BENT BY COLLISION. THERE ARE TREES GROWING AT THE INLETS. THERE IS A FENCE AT THE OUTLETS. THE NORTHBOUND LOAD LIMIT SIGN IS PARTIALLY OBSCURED BY VEGETATION. SEVERAL SMALL HOLES ARE PUNCHED THROUGH THE PIPES - ALL ARE LESS THAN 8" LONG BY 2" WIDE. THERE IS SOME RUST JUST ABOVE THE WATERLINE.

Bridge No. 65



Looking South



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00065

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00065
8A. NBI Number:	1800054	8C. Old Bridge Number:	
5A. Inventory Route On:	141000190	5B. Rd. Number On:	0019
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	KILLBUCK CREEK		
7. Facility Carried:	RD 700 W		
9A. Location:	470N 700W	9B Map Location:	B-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 15.6 Min.	17. Longitude:	085 Deg. 31.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1988	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000100	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0026.0 Feet	49. Structure Length:	0078.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	025.5 Feet
51. Bridge Roadway Width:	024.1 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	016 Feet	35. Structure Flared:	0 NO
34. Skew:	20 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.1 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00065**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
104A. Highway System - Over: **0 NON FA** 104B. - Under:
26A. Functional Class Over: **09 LOCAL - RURAL**
26B. Functional Class Under:
100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-CRACKS IN W.S.	7
59. Super:	TIMBER SLAB	GOOD	8
60. Sub:	TIMBER	GOOD	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - FAIR, SETTLING	6

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
64A. Operating Rating: **240**
66A. Inventory Rating: **236** 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: **5 LEGAL LIMIT**
41. Open, Posted, or Closed: **A OPEN**
66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	CRACKS IN WEARING SURF-NO SIGNIF DEFICIENCIES	8
68. Geometry:	TWO LANES - ALIGNED TO THE WEST	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	STRAIGHT, HILL TO SOUTH	7
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00065

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

WEDGE APPROACHES AND SEAL CRACKS IN THE WEARING SURFACE. INSTALL FOUR NEW END MARKERS. ADD CURB TRANSITIONS. EXTEND THE APPROACH RAIL, ESPECIALLY AT THE NORTHWEST CORNER.

76. Improvement Length: 000078 feet

94. Bridge Imp. Costs: \$ 2 X 1000

95. Rdwy. Imp. Costs: \$ 6 X 1000

96. Total Project Costs: \$ 8 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 000210

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/14/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	04	years
B. Deck:	13	years
C. Joints:	NA	years
D. Superstructure:	13	years
E. Substructure:	13	years
F. Approach:	05	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THREE END MARKERS ARE MISSING, THE FOURTH IS LEANING. THE EXPOSED ENDS OF THE CURBS POSE CRASH HAZARDS. A DEEP DITCH RUNS ALONG THE ROAD AT THE NORTHWEST CORNER. POTHOLES ARE DEVELOPING AT THE APPROACH AT THE NORTH END OF THE BRIDGE. THE TIMBER RAIL IS NON-STANDARD. THE SECOND PILE FROM THE WEST IN THE NORTH INTERIOR BENT HAS AN AREA OF SOFT SURFACE NEAR THE WATERLINE. THERE IS A THREE-FOOT DEEP HOLE JUST UPSTREAM OF THE SOUTH INTERIOR BENT.

Bridge No. 66



Looking East



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00066

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00066
8A. NBI Number:	1800055	8C. Old Bridge Number:	
5A. Inventory Route On:	141001720	5B. Rd. Number On:	0172
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	KILLBUCK CREEK		
7. Facility Carried:	RD 406 N		
9A. Location:	410N 765W	9B Map Location:	B-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 15.0 Min.	17. Longitude:	085 Deg. 31.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1986	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000512	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0040.0 Feet	49. Structure Length:	0102.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	028.0 Feet	52. Deck Width (o-o):	030.5 Feet
32. Approach Roadway Width:	024 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	28.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00066

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-8218 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD	8
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD	8
60. Sub:	CONCRETE CAPS, SEC PILES	GOOD-PAINT PEELING ON PILES	7
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD, SETTLED	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO SIGNIFICANT DEFICIENCIES	7
68. Geometry:	TWO LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	STRAIGHT AND LEVEL	8
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	J CONC. - STEEL ENCASED	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00066

PROPOSED IMPROVEMENTS:

73. Year Needed: 2006
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
LOCATE AND CLEAN THE ENDBENT DRAINS. BLAST AND PAINT THE PILES.

76. Improvement Length: 000102 feet
94. Bridge Imp. Costs: \$ 4 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 4 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000860
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/14/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	18	years
B. Deck:	43	years
C. Joints:	NA	years
D. Superstructure:	43	years
E. Substructure:	43	years
F. Approach:	08	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

FOUR END MARKERS IN PLACE; THEY ARE 6" BY 12" SOLID COLOR PANELS. THERE IS A SURVEY BENCHMARK AT THE NORTHWEST CORNER. THE SOUTHEAST ENDBENT DRAIN IS PLUGGED; THE DRAIN IS MARKED BY A DELINEATOR POST.

Bridge No. 67



Looking North



Looking Northwest

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00067

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00067
8A. NBI Number:	1800056	8C. Old Bridge Number:	
5A. Inventory Route On:	141000190	5B. Rd. Number On:	0019
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	JAKES CREEK		
7. Facility Carried:	RD 700 W		
9A. Location:	390N 700W	9B Map Location:	B-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 19.8 Min.	17. Longitude:	085 Deg. 31.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1991	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000712	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0037.0 Feet	49. Structure Length:	0096.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	028.0 Feet	52. Deck Width (o-o):	031.0 Feet
32. Approach Roadway Width:	028 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	10 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	28.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00067

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-8218 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD	8
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD	8
60. Sub:	CONC CAPS W/ S.E.C. PILES	GOOD-MINOR RUST ON PILES	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		CONC/ASPH-GOOD, MINOR CRACKS	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 1992
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO SIGNIFICANT DEFICIENCIES	8
68. Geometry:	TWO LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT. INTERSECTIONS NORTH AND SOUTH.	6
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	A CONC. BARRIER RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	J CONC. - STEEL ENCASED	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00067

PROPOSED IMPROVEMENTS:

73. Year Needed: 2006
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
BLAST AND PAINT THE PILES. REMOVE THE ALUMINUM DOWNSPOUT MATERIAL FROM THE SCUPPERS TO ALLOW BETTER DRAINAGE. ADD END MARKERS.

76. Improvement Length: 000096 feet
94. Bridge Imp. Costs: \$ 3 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 4 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 001220
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/14/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	25	years
B. Deck:	45	years
C. Joints:	NA	years
D. Superstructure:	45	years
E. Substructure:	45	years
F. Approach:	18	years
G. Channel:	25	years
H. Culvert:	NA	years

Remarks:

TWO OF FOUR END MARKERS ARE IN PLACE; ONE IS A 6" BY 12" SOLID COLOR PANEL. THE DECK HAS AT SOME POINT BEEN REPOINTED BELOW IN THE NORTH SPAN. THE SCUPPERS WERE FORMED USING ALUMINUM DOWNSPOUTS: THESE BLOCK DEBRIS. THERE ARE MINOR AREAS OF DISPLACED RIPRAP.

Bridge No. 68



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00068

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00068
8A. NBI Number:	1800057	8C. Old Bridge Number:	
5A. Inventory Route On:	141000250	5B. Rd. Number On:	0025
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	JAKES CREEK		
7. Facility Carried:	RD 600 W		
9A. Location:	370N 600W	9B Map Location:	C-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.6 Min.	17. Longitude:	085 Deg. 30.0 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	3 Latex Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1957	106A. Reconstructed:	1999
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	002500	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0028.0 Feet	49. Structure Length:	0072.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	024.2 Feet	52. Deck Width (o-o):	027.7 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	15 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00068

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-6918 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-MINOR CRACKS IN OVERLAY	7
59. Super:	CONTINUOUS REINF CONC SLAB	FAIR-EFFLOR AT CONSTR JTS	6
60. Sub:	CONC CAPS W/ STEEL PILES	FAIR-WATERLINE RUST, SEC LOSS	4
61. Channel:	CONCRETE SLOPEWALL	GOOD-CRACKED, VOIDS	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-SETTLED	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SLAB SPALLED W/POPOUTS; PILES CRACKED	4
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	2
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	DRIVEWAY SOUTH. HILLS NORTH AND SOUTH.	5
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	J CONC. - STEEL ENCASED	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00068

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL APPROACH RAILS WITH END TREATMENTS AT ALL CORNERS. ENCASE THE STEEL PILES AT THE INTERIOR PIERS IN REINFORCED CONCRETE.

76. Improvement Length: 000072 feet
94. Bridge Imp. Costs: \$ 26 X 1000
95. Rdwy. Imp. Costs: \$ 10 X 1000
96. Total Project Costs: \$ 36 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 004540
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/14/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	20	years
C. Joints:	NA	years
D. Superstructure:	20	years
E. Substructure:	02	years
F. Approach:	12	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

END MARKERS ARE IN PLACE. THERE IS UP TO 100% SECTION LOSS OF INTERIOR STEEL PILE SHELLS; THE CONCRETE IN SEVERAL OF THE PILES IS CRACKED THROUGH. THREE TO FOUR TRANSVERSE FLEXURAL CRACKS WERE FOUND IN THE DECK BELOW IN EACH SPAN. THE WEARING SURFACE HAS SEVERAL RANDOM CRACKS.

Bridge No. 69



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00069

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00069
8A. NBI Number:	1800058	8C. Old Bridge Number:	
5A. Inventory Route On:	141000250	5B. Rd. Number On:	0025
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	KILLBUCK CREEK		
7. Facility Carried:	RD 600 W		
9A. Location:	550N 600W	9B Map Location:	C-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 16.3 Min.	17. Longitude:	085 Deg. 30.0 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	07 Inches

AGE AND SERVICE:

27A. Year Built:	1951	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	002685	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0037.0 Feet	49. Structure Length:	0101.0 Feet
50. Sidewalk/Curb Left:	01.0 Right: 01.0		
51. Bridge Roadway Width:	024.0 Feet	52. Deck Width (o-o):	028.0 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	22 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00069

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-6918 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE WITH ASPHALT W.S.	FAIR-SPALLED BRIDGE RAIL	6
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD-MIN EFFLOR; ENDS CRACKED	7
60. Sub:	CONCRETE	GOOD-ENDBENTS UNDERMINED	7
61. Channel:	EARTH/VEGETATION	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-N APPR ROUGH	8

LOAD RATING AND POSTING:

31. Design Load: 3 HS-15
64A. Operating Rating: 236
66A. Inventory Rating: 227 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SPALLED GUARDRAIL, MINOR LEACHING, UNDERMINED	6
68. Geometry:	TWO LANES - VERY NARROW FOR A.D.T.	2
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT AND LEVEL	7
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00069

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 341 WIDENING - WITH DECK REHAB. - CONTRACT
Describe Item 75:
DUE TO GEOMETRY, WIDEN THE DECK. REMOVE THE WEARING SURFACE AND PLACE MODIFIED P.C.C. OVERLAY. INSTALL APPROACH RAIL AT ALL CORNERS. UNDERPIN THE ENDBENTS AND ADD RIPRAP. CLEAN THE DRAINS.

76. Improvement Length: 000101 feet
94. Bridge Imp. Costs: \$ 175 X 1000
95. Rdwy. Imp. Costs: \$ 35 X 1000
96. Total Project Costs: \$ 210 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 004430
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/14/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	10	years
B. Deck:	18	years
C. Joints:	NA	years
D. Superstructure:	18	years
E. Substructure:	18	years
F. Approach:	04	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

PILE ENCASEMENTS AT THE PIERS ARE LIGHTLY SPALLED. FOUR END MARKERS ARE IN PLACE. THE BRIDGE RAIL IS LOW DUE TO EXCESS ASPHALT ON THE DECK. THERE IS FILL LOSS AT THE SOUTH APPROACH AND AN EIGHT-INCH DIAMETER HOLE IN THE PAVEMENT. THE DECK DRAINS ARE PLUGGED. THERE IS COLLISION DAMAGE TO THE END OF THE RAIL AT THE SOUTHWEST CORNER. THERE ARE HAIRLINE CRACKS AT THE ENDS OF THE SLAB AND OVER THE INTERIOR BENTS IN THE SHEAR ZONES. THERE ARE HAIRLINE FLEXURAL CRACKS AT THE MIDSPANS. THERE ARE NUMEROUS BURROWS UNDER EACH ENDBENT.

Bridge No. 70



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00070

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00070
8A. NBI Number:	1800517	8C. Old Bridge Number:	
5A. Inventory Route On:	141000000	5B. Rd. Number On:	0000
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	PLEASANT RUN CREEK		
7. Facility Carried:	N EXECUTIVE PRK DR		
9A. Location:	190N 900W	9B Map Location:	B-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 13.0 Min.	17. Longitude:	085 Deg. 33.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	111D PRECAST CONCRETE ARCH		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	2002	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	05 Under: 00		
29A. ADT - Over:	000230	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	18 Percent		
19. Bypass Detour Length:	99A DEAD END ROAD		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.5 Feet	49. Structure Length:	0026.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	067.1 Feet	52. Deck Width (o-o):	072.1 Feet
32. Approach Roadway Width:	067 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	67.1 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00070

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 104B. - Under:
26A. Functional Class Over: 08 MINOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-CRACK	7
59. Super:	CONSPAN PRECAST ARCH	GOOD-PATCHES LOOSE	7
60. Sub:	CONCRETE	GOOD	8
61. Channel:	RIPRAP	GOOD-NO RIPRAP AT ARCH BASE	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		CONCRETE - SLIGHTLY SETTLED	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 OPEN
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SOME CRACKS AND LOOSE PATCHES	7
68. Geometry:	FIVE LANES INCLUDING 1 CENTER TURN LANE	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	GOOD-CURVE TO THE SOUTH	8
36A. Traffic Safety Features:	1010 BR & APP RAILING	
36B Bridge Rail Type:	O	
113A. Scour Critical Bridges:	8 STABLE - EXEL. COND.	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00070

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

REPAIR THE DETERIORATED PATCHES IN THE ARCH. ADD TRANSITION RAIL POSTS AT EACH CORNER. SEAL THE JOINTS AND CRACKS IN THE DECK. PLACE AN END MARKER AT THE SOUTHEAST AND NORTHWEST CORNERS.

76. Improvement Length: 000026 feet

94. Bridge Imp. Costs: \$ 2 X 1000

95. Rdwy. Imp. Costs: \$ 2 X 1000

96. Total Project Costs: \$ 4 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 001690

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/6/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	25	years
B. Deck:	48	years
C. Joints:	NA	years
D. Superstructure:	60	years
E. Substructure:	60	years
F. Approach:	25	years
G. Channel:	40	years
H. Culvert:	NA	years

Remarks:

THERE ARE SOME HONEYCOMBS IN THE BRIDGE RAIL. FORMING NAILS AND TIE RODS WERE LEFT IN PLACE. THERE IS A TRANSVERSE CRACK IN THE SOUTH HALF OF THE DECK. TWO AREAS IN THE ARCH WERE PATCHED AT THE TIME OF MANUFACTURE - THESE PATCHES HAVE DETERIORATED. ADDITIONAL APPROACH RAIL POSTS ARE NEEDED AT THE TRANSITIONS. JOINT SEALS IN THE DECK ARE LOOSE. THERE IS MINOR EFFLORESCENCE AT THE INTERFACE BETWEEN THE PRECAST ARCH AND THE ENDWALL.

Bridge No. 72



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00072

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00072
8A. NBI Number:	1800213	8C. Old Bridge Number:	
5A. Inventory Route On:	141003550	5B. Rd. Number On:	0355
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	KILLBUCK CREEK		
7. Facility Carried:	WHEELING AVENUE		
9A. Location:	620N 280W	9B Map Location:	D-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 17.0 Min.	17. Longitude:	085 Deg. 26.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	2 CONC. PRECAST		
108A. Wearing Surface:	2 Integral Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	2001	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	003213	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	05 Percent		
19. Bypass Detour Length:	05 5 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0037.2 Feet	49. Structure Length:	0040.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	027.8 Feet	52. Deck Width (o-o):	028.3 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	27.8 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00072

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TOP OF CONCRETE BOX BEAMS	GOOD	8
59. Super:	PRESTRESSED BOX BEAMS-MULT	GOOD	8
60. Sub:	CONCRETE ON PILES	GOOD-MINOR CRACKS	7
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT & CONC - CRACKED	7

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 OPEN
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO SIGNIFICANT PROBLEMS	7
68. Geometry:	TWO LANES - NARROW FOR A.D.T.	3
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT	8
36A. Traffic Safety Features:	1011 GOOD RAILING - NO TRANSITION	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	8 STABLE - EXEL. COND.	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00072

PROPOSED IMPROVEMENTS:

73. Year Needed: 2007

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

PLACE AN ASPHALT WEARING SURFACE. ADD AN ADDITIONAL APPROACH RAIL POST BETWEEN THE POST EMBEDDED IN THE CONCRETE AND THE NEXT POST DRIVEN IN DIRT.

76. Improvement Length: 000040 feet

94. Bridge Imp. Costs: \$ 6 X 1000

95. Rdwy. Imp. Costs: \$ 4 X 1000

96. Total Project Costs: \$ 10 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 005550

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 4/18/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 10 years

B. Deck: 40 years

C. Joints: NA years

D. Superstructure: 55 years

E. Substructure: 55 years

F. Approach: 10 years

G. Channel: 40 years

H. Culvert: NA years

Remarks:

NO EXPANSION JOINT MATERIAL WAS PROVIDED BETWEEN THE BEAMS AND WINGWALLS. END MARKERS ARE IN PLACE. AN ADDITIONAL POST IS NEEDED AT THE NORTHWEST AND SOUTHEAST TRANSITIONS. THE SUBSTRUCTURE IS CRACKED AT THE NORTHWEST AND SOUTHEAST CORNERS.

Bridge No. 73



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00073

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00073
8A. NBI Number:	1800062	8C. Old Bridge Number:	
5A. Inventory Route On:	141000720	5B. Rd. Number On:	0072
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MUD CREEK		
7. Facility Carried:	RD 700 N		
9A. Location:	700N 130W	9B Map Location:	E-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 17.5 Min.	17. Longitude:	085 Deg. 24.8 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1988	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000100	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0014.0 Feet	49. Structure Length:	0054.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	025.3 Feet
51. Bridge Roadway Width:	024.0 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	021 Feet	35. Structure Flared:	0 NO
34. Skew:	35 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.0 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00073**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
104A. Highway System - Over: **0 NON FA** 104B. - Under:
26A. Functional Class Over: **09 LOCAL - RURAL**
26B. Functional Class Under:
100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-WEARING SURFACE CRACKED	6
59. Super:	TIMBER SLAB	GOOD-MINOR SEEPAGE	7
60. Sub:	TIMBER PILE BENTS	GOOD	7
61. Channel:	RIPRAP/NATURAL	GOOD-SILTING	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - FAIR, SETTLEMENT	6

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
64A. Operating Rating: **240**
66A. Inventory Rating: **236** 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: **5 LEGAL LIMIT**
41. Open, Posted, or Closed: **A OPEN**
66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	GOOD-SEEPAGE. WEATHERED TIMBER.	7
68. Geometry:	TWO LANES	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	6
72. Roadway Alignment:	STRAIGHT & LEVEL	8
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00073

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
INSTALL THREE END MARKERS. WEDGE APPROACHES. REMOVE AND REPLACE ASPHALT WEARING SURFACE. TIGHTEN NUTS ON SPREADER BEAMS. REMOVE DEBRIS AT THE EAST INTERIOR BENT.

76. Improvement Length: 000054 feet
94. Bridge Imp. Costs: \$ 4 X 1000
95. Rdwy. Imp. Costs: \$ 3 X 1000
96. Total Project Costs: \$ 7 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/21/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	03	years
B. Deck:	15	years
C. Joints:	NA	years
D. Superstructure:	15	years
E. Substructure:	15	years
F. Approach:	05	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

ALL END MARKERS ARE DAMAGED OR MISSING. THE TIMBER RAIL IS HIGH AND NOT STANDARD. SOME DEBRIS IS BUILT UP AT THE EAST INTERIOR BENT.

Bridge No. 74



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00074

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00074
8A. NBI Number:	1800063	8C. Old Bridge Number:	
5A. Inventory Route On:	141000450	5B. Rd. Number On:	0045
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MUD CREEK		
7. Facility Carried:	RD 100 W		
9A. Location:	650N 100W	9B Map Location:	E-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 17.1 Min.	17. Longitude:	085 Deg. 24.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1987	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000253	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0018.0 Feet	49. Structure Length:	0053.7 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	027.0 Feet
51. Bridge Roadway Width:	024.2 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	019 Feet	35. Structure Flared:	0 NO
34. Skew:	20 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.2 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00074**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
104A. Highway System - Over: **0 NON FA** 104B. - Under:
26A. Functional Class Over: **09 LOCAL - RURAL**
26B. Functional Class Under:
100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-CRACKS IN W.S.	6
59. Super:	TIMBER SLAB	GOOD-MINOR SEEPAGE	7
60. Sub:	TIMBER PILE BENTS	GOOD	7
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - WEDGED & SETTLED	5

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
64A. Operating Rating: **240**
66A. Inventory Rating: **236** 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: **5 LEGAL LIMIT**
41. Open, Posted, or Closed: **A OPEN**
66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	PAVEMENT CRACKS, SETTLED APPROACHES, SEEPAGE	7
68. Geometry:	TWO LANES	7
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	STRAIGHT AND LEVEL, DRIVE SOUTHEAST	7
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00074

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

WEDGE THE APPROACHES. REPLACE NUTS ON THE GUARDRAIL POSTS AT THE SOUTHEAST AND SOUTHWEST CORNERS. TIGHTEN THE NUTS ON THE SPREADER BEAMS. SEAL CRACKS IN THE WEARING SURFACE. REPLACE THE ROTTEN RAIL POST AT THE NORTHEAST BURIED END.

76. Improvement Length: 000054 feet

94. Bridge Imp. Costs: \$ 1 X 1000

95. Rdwy. Imp. Costs: \$ 3 X 1000

96. Total Project Costs: \$ 4 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 000415

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/21/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	03	years
B. Deck:	12	years
C. Joints:	NA	years
D. Superstructure:	12	years
E. Substructure:	12	years
F. Approach:	05	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

A TELEPHONE CONDUIT IS ON THE WEST COPING. TWO OF FOUR END MARKERS ARE MISSING, ANOTHER IS TWISTED. THE TIMBER RAIL IS HIGH AND NOT STANDARD. THE BRIDGE TIMBER IS SLIGHTLY WEATHERED. TWO NUTS ARE MISSING AT THE BRIDGE RAIL. ONE POST IS ROTTED AT THE NORTHEAST GUARDRAIL BURIED END TREATMENT.

Bridge No. 75



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00075

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00075
8A. NBI Number:	1800064	8C. Old Bridge Number:	
5A. Inventory Route On:	141000450	5B. Rd. Number On:	0045
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	KILLBUCK CREEK		
7. Facility Carried:	RD 100 W		
9A. Location:	520N 100W	9B Map Location:	E-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 16.0 Min.	17. Longitude:	085 Deg. 24.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	02 Inches

AGE AND SERVICE:

27A. Year Built:	1961	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001297	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0020.0 Feet	49. Structure Length:	0052.4 Feet
50. Sidewalk/Curb Left:	01.0 Right: 01.0		
51. Bridge Roadway Width:	024.0 Feet	52. Deck Width (o-o):	028.0 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00075

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	GOOD-W.S. WORN AND CRACKED	7
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD-MINOR CRACK & LEACHING	7
60. Sub:	CONCRETE PILE BENTS & ABUT	POOR-SEE REMARKS	4
61. Channel:	EARTH/VEGETATION	POOR-UNDERMINING AT ABUTS	4
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - FAIR, WEDGED	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 234 64B. Year of Rating: 1999
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	HEAVY LOSS OF PILE ENCASEMENT, EROSION	4
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	BARELY ADEQUATE	6
72. Roadway Alignment:	STRAIGHT AND LEVEL	7
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00075

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

ADD CURB TRANSITIONS AND APPROACH RAIL AT ALL CORNERS. REPAIR SPALLED PILES AT THE INTERIOR BENTS. REPAIR EXPOSED PILING AND WASHOUTS AT THE ENDBENTS. RIPRAP THE SLOPE. ADD END MARKERS. CLEAN THE DECK.

76. Improvement Length: 000052 feet

94. Bridge Imp. Costs: \$ 15 X 1000

95. Rdwy. Imp. Costs: \$ 10 X 1000

96. Total Project Costs: \$ 25 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 002200

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/21/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 15 years

B. Deck: 22 years

C. Joints: NA years

D. Superstructure: 22 years

E. Substructure: 06 years

F. Approach: 10 years

G. Channel: 01 years

H. Culvert: NA years

Remarks:

THE INTERIOR PILE BENTS HAVE MODERATE TO HEAVY SPALLING AT THE WATERLINE, EXPOSING THE STEEL PILES WHICH HAVE HEAVY SURFACE RUST. PILES ARE EXPOSED AT THE ENDBENTS. ONE END MARKER IS IN PLACE. THE APPROACHES AND BRIDGE HAVE BEEN RESURFACED AND TWO FOOT STONE SHOULDERS HAVE BEEN ADDED SINCE THE LAST INSPECTION. DEBRIS AT THE BRIDGE SHOULDERS IS PARTIALLY BLOCKING THE DRAINS.

Bridge No. 76



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00076

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00076
8A. NBI Number:	1800065	8C. Old Bridge Number:	
5A. Inventory Route On:	141000490	5B. Rd. Number On:	0049
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MUD CREEK		
7. Facility Carried:	NORTH CENTER ROAD		
9A. Location:	610N 00E	9B Map Location:	F-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 16.6 Min.	17. Longitude:	085 Deg. 23.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB		
43C. Main Widening Type:	000	45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	8 TIMBER		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	02 Inches

AGE AND SERVICE:

27A. Year Built:	2003	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	N NOT APPLICABLE	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001022	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	03 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0025.0 Feet	49. Structure Length:	0050.0 Feet
50. Sidewalk/Curb Left:	00.7 Right: 00.7		
51. Bridge Roadway Width:	028.2 Feet	52. Deck Width (o-o):	029.6 Feet
32. Approach Roadway Width:	028 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	28.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00076

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	GOOD-NEW	8
59. Super:	TIMBER SLAB	GOOD-NEW	8
60. Sub:	TIMBER	GOOD-NEW	8
61. Channel:	RIPRAP	GOOD-DEBRIS	7
62. Culv/Ret:	NA		N/A
65. Approach Roadway:		GOOD-NEW	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 230
66A. Inventory Rating: 222 64B. Year of Rating: 2003
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NEW - INVENTORY RATING LOW FOR ADT	5
68. Geometry:	TWO LANES	5
69. Underclearance:	NA	N/A
71. Waterway Adequacy:	ADEQUATE-DEBRIS	7
72. Roadway Alignment:	SLIGHT CURVE IN PANTED CENTERLINE	5
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	8 STABLE - EXEL. COND.	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00076

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REMOVE ADVANCE NOTICE SIGN AT THE NORTH INTERSECTION. ADD END MARKERS.

76. Improvement Length: 000050 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 1 X 1000
96. Total Project Costs: \$ 1 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 001740
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/21/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	30	years
C. Joints:	NA	years
D. Superstructure:	30	years
E. Substructure:	30	years
F. Approach:	20	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

A TIMBER SLAB BRIDGE WAS BUILT TO REPLACE THE ENCASED STEEL BEAM BRIDGE SINCE THE LAST INSPECTION. THE TIMBER RAIL IS SOMEWHAT HIGH AND NON-STANDARD. THERE IS A HEAVY BUILDUP OF CORNSTALKS AT THE NORTH BANK - UP TO 2' THICK.

Bridge No. 82



Looking Easterly



Looking Southerly

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00082

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00082
8A. NBI Number:	1800068	8C. Old Bridge Number:	
5A. Inventory Route On:	141001860	5B. Rd. Number On:	0186
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	CAMPBELL CREEK		
7. Facility Carried:	RD 425 N		
9A. Location:	425N 480E	9B Map Location:	H-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 15.2 Min.	17. Longitude:	085 Deg. 17.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	506 PRESTRESSED CONCRETE BOX BEAMS - SPREAD		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1971	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000250	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0043.0 Feet	49. Structure Length:	0131.0 Feet
50. Sidewalk/Curb Left:	00.8 Right: 00.8		
51. Bridge Roadway Width:	024.3 Feet	52. Deck Width (o-o):	027.8 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	45 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00082

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-W.S. POPOUTS, OPEN JTS	7
59. Super:	PRESTRESSED BOX BEAMS	GOOD	7
60. Sub:	CONCRETE	GOOD-SEEPAGE OVER PIERS	7
61. Channel:	RIPRAP	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - FAIR, ROUGH	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	OPEN JOINTS;POPOUTS;SEEPAGE OVER PIERS, ABUTS	7
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	7
72. Roadway Alignment:	LEVEL. CURVES AT BOTH ENDS	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00082

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
CLEAN AND SEAL THE DECK. REPLACE THE EXPANSION JOINT MATERIAL. INSTALL NEW APPROACH RAIL, END TREATMENTS, AND TRANSITIONS INCLUDING CURB TRANSITIONS AT THE CORNERS.

76. Improvement Length: 000131 feet
94. Bridge Imp. Costs: \$ 25 X 1000
95. Rdwy. Imp. Costs: \$ 15 X 1000
96. Total Project Costs: \$ 40 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000520
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/17/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	05	years
B. Deck:	25	years
C. Joints:	00	years
D. Superstructure:	25	years
E. Substructure:	25	years
F. Approach:	03	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

GUARD RAIL IS NEEDED SEVERAL HUNDRED FEET ON EACH END OF THE BRIDGE. ONE END MARKER IS IN POOR CONDITION. THE PLAQUE READS BRIDGE #64. THE EAST BENT IS SLIGHTLY UNDERMINED. THE EXPOSED ENDS OF THE CURBS POSE CRASH HAZARDS. THERE ARE SOME SPALLS ALONG THE JOINTS. THE EAST APPROACH HAS POTHOLE.

Bridge No. 84



Looking North



Looking Southwest

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00084

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00084
8A. NBI Number:	1800069	8C. Old Bridge Number:	
5A. Inventory Route On:	141000710	5B. Rd. Number On:	0071
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MISSISSINewa RIVER		
7. Facility Carried:	DOWDEN AVENUE		
9A. Location:	715N 740E	9B Map Location:	J-9
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 17.7 Min.	17. Longitude:	085 Deg. 14.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	602 CONTINUOUS PRESTRESSED CONCRETE I-BEAMS		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1974	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	001000	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0089.0 Feet	49. Structure Length:	0267.5 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	030.0 Feet	52. Deck Width (o-o):	032.5 Feet
32. Approach Roadway Width:	021 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	25 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	30.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00084

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-9318 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-POPOUTS, LIGHT CRACKS	7
59. Super:	PRESTRESSED I-BEAM	GOOD-SEEPAGE AT ENDBENTS	8
60. Sub:	PILE ENDS, SPREAD INTERIOR	GOOD-S ENDBENT UNDERMINED	7
61. Channel:	RIPRAP	GOOD-DEBRIS	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPH,CONC-SETTL,CRKS,POPOUTS	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	DETER JTS, WORN W.S., ENDBENT UNDERMINED	7
68. Geometry:	TWO LANES	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	HUMP OVER BR, CURVE & INTERSECTION S,DRIVE NE	5
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	R COMBINATION OF A AND D	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00084

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT
Describe Item 75:
REPAIR THE APPROACH AND BRIDGE RAIL. OVERLAY THE BRIDGE DECK. REPLACE THE APPROACH SLABS AND JOINTS. CLEAR DEBRIS FROM THE PIERS. ADD APPROACH RAIL AND END TREATMENT AT THE SOUTHWEST CORNER. ADD APPROACH RAIL POSTS AND TRANSITIONS. UNDERPIN THE ENDBENTS. RAISE THE CONDUIT.

76. Improvement Length: 000267 feet
94. Bridge Imp. Costs: \$ 290 X 1000
95. Rdwy. Imp. Costs: \$ 50 X 1000
96. Total Project Costs: \$ 340 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 001520
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/29/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: Y48 C: N/A
93. Crit. Feat. Insp. Date: A: B: 0403 C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	02	years
B. Deck:	30	years
C. Joints:	00	years
D. Superstructure:	30	years
E. Substructure:	30	years
F. Approach:	02	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THE APPROACH RAIL IS DAMAGED, ESPECIALLY AT THE NORTHWEST CORNER. THE WEST BRIDGE RAIL HAS TWO DAMAGED POSTS JUST NORTH OF THE NORTH PIER. THE CONDUIT ON THE WEST COPING TRAPS DEBRIS ON THE DECK. THE APPROACHES HAVE LARGE CRACKS AND IS SETTLED ABOUT TWO INCHES. THERE IS NO APPROACH RAIL AT THE SOUTHWEST CORNER. THE APPROACH RAIL POSTS ARE SPACED AT 12'-6". DEBRIS IS ACCUMULATED AT THE PIERS. THE WEARING SURFACE IS NOT TEXTURED. FOUR END MARKERS ARE IN PLACE AT THE BRIDGE ENDS; ADDITIONAL END MARKERS ARE NEEDED AT THE APPROACH RAIL ENDS.

Bridge No. 85



Looking Northeast



Looking Northwest

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00085

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00085
8A. NBI Number:	1800070	8C. Old Bridge Number:	
5A. Inventory Route On:	141003210	5B. Rd. Number On:	0321
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MISSISSINewa RIVER		
7. Facility Carried:	RD 800 E		
9A. Location:	690N 800E	9B Map Location:	K-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 17.5 Min.	17. Longitude:	085 Deg. 14.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	310B STEEL THRU TRUSS		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	8 TIMBER		
108A. Wearing Surface:	7 Timber	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1905	106A. Reconstructed:	1985
27B. Paint Date:		106B. Repaired:	2003
59B. Paint Rating:	3 VERY POOR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	01 Under: 00		
29A. ADT - Over:	000384	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	02 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0175.0 Feet	49. Structure Length:	0177.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	015.5 Feet	52. Deck Width (o-o):	015.7 Feet
32. Approach Roadway Width:	021 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	14 ' 00 "	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	15.5 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	16 ' 00 "	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00085

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-9318 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 3 ONE LANE BR 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 3 POSSIBLY ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER	FAIR-SPLITTING, RATTLES	5
59. Super:	STEEL THRU TRUSS	POOR-SECTION LOSS	3
60. Sub:	CONCRETE	POOR-LARGE CRACKS IN ABUTS	4
61. Channel:	EARTH/VEGETATION	FAIR	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - FAIR, ROUGH	4

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 207
66A. Inventory Rating: 207 64B. Year of Rating: 2005
66B. Gross Tons or H Rating: 07
70. Bridge Posting: 3 7 TON LIMIT AND "ONE LANE BRIDGE"
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 07 66D. Date Posted/Closed: 06 / 05

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SECTION LOSS-LOWER CHORDS & CONNECTIONS	2
68. Geometry:	ONE LANE	2
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	SOMEWHAT INADEQUATE - DEBRIS ON DECK	6
72. Roadway Alignment:	POOR HORIZONTAL ALIGNMENT	3
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	H MISC. STEEL RAILINGS	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00085

PROPOSED IMPROVEMENTS:

73. Year Needed: 2006
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT.

76. Improvement Length: 000210 feet
94. Bridge Imp. Costs: \$ 450 X 1000
95. Rdwy. Imp. Costs: \$ 150 X 1000
96. Total Project Costs: \$ 600 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000580
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 3/29/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: Y12 B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: 0305 B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	04	years
B. Deck:	03	years
C. Joints:	NA	years
D. Superstructure:	01	years
E. Substructure:	08	years
F. Approach:	05	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

CRITICAL FEATURE INSPECTION IS REQUIRED ON FLOOR BEAMS, STRINGERS, AND TRUSS. THE BRIDGE RATTLES LOUDLY UNDER TRAFFIC. REPAIRS AND RETROFITTING HAVE BEEN DONE SINCE THE LAST INSPECTION. THREE END MARKERS ARE IN PLACE - ONLY ONE IS GOOD. SEE THE CRITICAL FEATURE INSPECTION REPORT FOR ADDITIONAL INFORMATION. LOAD RATING HAS BEEN CHANGED FROM 15 TONS DUE TO CONTINUED DETERIORATION AT HANGERS AND PRIMARY MEMBERS DESPITE REPAIRS.

Bridge No. 86



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00086

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00086
8A. NBI Number:	1800071	8C. Old Bridge Number:	
5A. Inventory Route On:	141000710	5B. Rd. Number On:	0071
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	CAMPBELL CREEK		
7. Facility Carried:	RD 650 E		
9A. Location:	370N 650E	9B Map Location:	J-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.6 Min.	17. Longitude:	085 Deg. 15.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1982	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000500	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0026.0 Feet	49. Structure Length:	0062.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	028.0 Feet
51. Bridge Roadway Width:	026.6 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	020 Feet	35. Structure Flared:	0 NO
34. Skew:	00 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	26.6 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00086

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 08 MINOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	FAIR-HEAVY CRACKS & SEEPAGE	5
59. Super:	TIMBER SLAB	FAIR-MOD SAG, BROKEN TIMBER	6
60. Sub:	TIMBER	GOOD	7
61. Channel:	RIPRAP	FAIR-FENCE & DEBRIS	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - FAIR, SETTLED	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 235
66A. Inventory Rating: 230 64B. Year of Rating: 1992
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	BROKEN TIMBER-S SPAN, SEEPAGE, MODERATE SAG	6
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE; RESTRICTIVE FENCE ON E SIDE	6
72. Roadway Alignment:	STRAIGHT AND LEVEL; INTERSECTION SOUTH	7
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00086

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
REMOVE THE ASPHALT WEARING SURFACE. RESURFACE THE DECK AND WEDGE THE APPROACHES. CLEAR DEBRIS FROM THE CHANNEL.

76. Improvement Length: 000062 feet
94. Bridge Imp. Costs: \$ 5 X 1000
95. Rdwy. Imp. Costs: \$ 3 X 1000
96. Total Project Costs: \$ 8 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000765
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/10/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	00	years
B. Deck:	07	years
C. Joints:	NA	years
D. Superstructure:	07	years
E. Substructure:	07	years
F. Approach:	05	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

END MARKERS ARE IN PLACE. A CATTLE FENCE IS HANGING ON EAST SIDE OF THE BRIDGE. THERE IS MODERATE SAG IN THE CENTER SPAN. THERE IS DIRT ACCUMULATED AT THE CURBS, BLOCKING DRAINAGE OF THE DECK, ESPECIALLY ON THE WEST SIDE. WOOD RAIL POSTS ARE NOT STANDARD. THE RAIL IS HIGH.

Bridge No. 87



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00087

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00087
8A. NBI Number:	1800072	8C. Old Bridge Number:	
5A. Inventory Route On:	141003150	5B. Rd. Number On:	0315
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	CAMPBELL CREEK		
7. Facility Carried:	RD 850 E		
9A. Location:	250N 850E	9B Map Location:	K-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 13.7 Min.	17. Longitude:	085 Deg. 13.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302A ENCASED STEEL BEAM (I-BEAMS)		
43C. Main Widening Type:	RCG	45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	02 Inches

AGE AND SERVICE:

27A. Year Built:	1920	106A. Reconstructed:	1974
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000200	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0032.0 Feet	49. Structure Length:	0034.0 Feet
50. Sidewalk/Curb Left:	00.0	Right:	00.0
51. Bridge Roadway Width:	018.1 Feet	52. Deck Width (o-o):	020.6 Feet
32. Approach Roadway Width:	014 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	15 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	18.1 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type:	N/A
56. Lateral Left:	00.0 N/A	55A. Type:	N/A

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00087

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE W/ ASPHALT W.S.	POOR-SPALLED UNDER DECK	4
59. Super:	ENCASED STL BMS/RC GIRDER	POOR-EXP REINF & FLANGES	3
60. Sub:	CONCRETE	FAIR-NE WING CRACKED, MOVING	5
61. Channel:	EARTH/VEGETATION	FAIR-NO PROTECTION	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		POOR-ROUGH & SETTLED	4

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 211
66A. Inventory Rating: 210 64B. Year of Rating:
66B. Gross Tons or H Rating: 10
70. Bridge Posting: 3 10 TON LIMIT. POSTED "NARROW BR"
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 10 66D. Date Posted/Closed: 10 / 96

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	ENC STL BEAMS SPALLED; EXPOSED BOTTOM STEEL	2
68. Geometry:	TWO LANES - VERY NARROW	3
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE SKEW. INADEQUATE OPENING	5
72. Roadway Alignment:	NARROW. CURVE TO SOUTH	5
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00087

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT. MEANWHILE, PLACE NEW END MARKERS.

76. Improvement Length: 000055 feet
94. Bridge Imp. Costs: \$ 140 X 1000
95. Rdwy. Imp. Costs: \$ 40 X 1000
96. Total Project Costs: \$ 180 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000420
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/5/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	02	years
B. Deck:	05	years
C. Joints:	NA	years
D. Superstructure:	01	years
E. Substructure:	06	years
F. Approach:	04	years
G. Channel:	05	years
H. Culvert:	NA	years

Remarks:

THERE IS HEAVY DELAMINATION WITH SOME SECTION LOSS IN THE STEEL BEAMS. BOTH CONCRETE WINGWALLS ON THE NORTH SIDE ARE CRACKED. ONE END MARKER IS MISSING, TWO ARE TWISTED OR LEANING. THE NORTHBOUND "NARROW BRIDGE" SIGN IS TWISTED; THE SOUTHBOUND SIGN IS MISSING. THE EAST OUTSIDE REINFORCED CONCRETE BEAM IS HEAVILY SPALLED AT THE BOTTOM - THE REINFORCING STEEL HAS SIGNIFICANT SECTION LOSS. THE SOUTH ABUTMENT IS DETERIORATED SOMEWHAT AT THE WATERLINE.

Bridge No. 88



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00088

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00088
8A. NBI Number:	1800073	8C. Old Bridge Number:	
5A. Inventory Route On:	141003170	5B. Rd. Number On:	0317
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	MUD CREEK		
7. Facility Carried:	RD 850 E		
9A. Location:	490N 850E	9B Map Location:	K-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 15.8 Min.	17. Longitude:	085 Deg. 13.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302D SIMPLE STEEL BEAM		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	8 Unknown	108D. Thickness of Asph:	04 Inches

AGE AND SERVICE:

27A. Year Built:	1920	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:	3 VERY POOR	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0036.0 Feet	49. Structure Length:	0038.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	019.5 Feet	52. Deck Width (o-o):	021.2 Feet
32. Approach Roadway Width:	014 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	19.5 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00088

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE WITH ASPHALT W.S.	FAIR	5
59. Super:	STEEL BEAMS	FAIR-MODERATE RUST ON BEAMS	5
60. Sub:	CONCRETE	FAIR-FTGS EXPOSED;SCOURD NE	5
61. Channel:	EARTH/BEDROCK	FAIR-CHANNEL PONDS	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-DROP-OFF AT CORNERS	6

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 218
66A. Inventory Rating: 214 64B. Year of Rating: 1999
66B. Gross Tons or H Rating: 08
70. Bridge Posting: 3 8 TON LIMIT
41. Open, Posted, or Closed: P POSTED FOR LOAD
66C. Tons Posted: 08 66D. Date Posted/Closed: 03 / 99

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	RUST ON BEAMS;FOOTINGS EXPOSED, LOAD RATING	4
68. Geometry:	TWO LANES - NARROW WITH NARROW APPROACHES	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE OPENING AND SKEW	5
72. Roadway Alignment:	NO GUARDRAIL; NARROW ROAD; INTERSECTION NORTH	4
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00088

PROPOSED IMPROVEMENTS:

73. Year Needed: 2008
75. Type of Work: 311 REPLACEMENT - LOAD / GEOMETRY - CONTRACT
Describe Item 75:
REPLACE BY CONTRACT.

76. Improvement Length: 000060 feet
94. Bridge Imp. Costs: \$ 225 X 1000
95. Rdwy. Imp. Costs: \$ 50 X 1000
96. Total Project Costs: \$ 275 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/10/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	04	years
B. Deck:	15	years
C. Joints:	NA	years
D. Superstructure:	15	years
E. Substructure:	15	years
F. Approach:	03	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

THE BRIDGE RAIL IS LOW. END MARKERS ARE IN PLACE. A PREVIOUS REPORT INDICATES THE STREAMBED CONSISTS OF BEDROCK - SILT AND ROCKS WAS ENCOUNTERED. THE NORTH FOOTING HAS HEAVY SCALING AND DETERIORATION.

Bridge No. 89



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00089

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00089
8A. NBI Number:	1800074	8C. Old Bridge Number:	
5A. Inventory Route On:	141000650	5B. Rd. Number On:	0065
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	CAMPBELL CREEK		
7. Facility Carried:	RD 525 E		
9A. Location:	480N 525E	9B Map Location:	H-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 15.6 Min.	17. Longitude:	085 Deg. 17.4 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1972	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000271	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0040.0 Feet	49. Structure Length:	0101.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	026.0 Feet	52. Deck Width (o-o):	028.5 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	35 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	26.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00089

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 08 MINOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-POPOUTS IN WEARING SURF	7
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD-LT CRACKING OVER PIERS	7
60. Sub:	CONCRETE	GOOD-HAIRLINE CRACKS	7
61. Channel:	RIPRAP	GOOD	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		FAIR-CRACKED AND SETTLING	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236
64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted:
66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	LT CRACKS OVER PIERS;LT SEEPAGE AT N ENDBENT	7
68. Geometry:	TWO LANES	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	CURVES TO NORTH & SOUTH, DRIVE TO NORTHWEST	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	B ALUMINUM	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00089

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

ATTACH THE APPROACH RAIL TO THE BRIDGE RAIL AND EXTEND THE GUARD RAIL AT ALL CORNERS. ADD RAIL POSTS AT THE APPROACH RAIL AND AT THE TRANSITIONS. ADD TRANSITIONS FROM ALUMINUM TO CONCRETE RAIL. WEDGE THE APPROACHES.

76. Improvement Length: 000101 feet

94. Bridge Imp. Costs: \$ 2 X 1000

95. Rdwy. Imp. Costs: \$ 10 X 1000

96. Total Project Costs: \$ 12 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 000460

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/10/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 10 years

B. Deck: 30 years

C. Joints: NA years

D. Superstructure: 30 years

E. Substructure: 30 years

F. Approach: 10 years

G. Channel: 20 years

H. Culvert: NA years

Remarks:

TWO OF FOUR END MARKERS ARE MISSING, ANOTHER IS OBSCURED BY VEGETATION. THE PLAQUE READS BRIDGE NUMBER 65. THERE ARE CRACKS AND SPALLS AT THE BOTTOM OF THE SLAB ALONG THE COPINGS. THERE ARE NUMEROUS HAIRLINE CRACKS IN THE SLAB BELOW, APPROXIMATELY TRANSVERSE TO THE CENTERLINE OF THE BRIDGE. THERE ARE A FEW VERTICAL HAIRLINE CRACKS AT THE PIERS. THE APPROACH RAIL POSTS ARE SPACED AT 12'-6".

Bridge No. 90



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00090

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00090
8A. NBI Number:	1800075	8C. Old Bridge Number:	
5A. Inventory Route On:	141000650	5B. Rd. Number On:	0065
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	CAMPBELL CREEK		
7. Facility Carried:	RD 500 E		
9A. Location:	360N 500E	9B Map Location:	H-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.5 Min.	17. Longitude:	085 Deg. 17.6 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1997	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000500	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0026.0 Feet	49. Structure Length:	0076.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	027.5 Feet
51. Bridge Roadway Width:	026.2 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	019 Feet	35. Structure Flared:	0 NO
34. Skew:	15 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	26.2 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00090

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 08 MINOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	GOOD-CRACKS IN WEARING SURF	7
59. Super:	TIMBER SLAB	GOOD	8
60. Sub:	TIMBER PILES	GOOD	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - GOOD	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating: 1999
66B. Gross Tons or H Rating: 20
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO DEFICIENCIES	8
68. Geometry:	TWO LANES	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	SLIGHTLY INADEQUATE - DEBRIS IN CAPS	6
72. Roadway Alignment:	INTERSECTION SOUTH, HILL NORTH	5
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	8 STABLE - EXEL. COND.	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00090

PROPOSED IMPROVEMENTS:

73. Year Needed: 2006
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
CRACKSEAL THE WEARING SURFACE. CLEAR DEBRIS AT THE SOUTH INTERIOR BENT. CLEAN DIRT AND SAND FROM THE BRIDGE SHOULDERS. TIGHTEN THE NUTS AT THE SPREADER BEAMS.

76. Improvement Length: 000076 feet
94. Bridge Imp. Costs: \$ 2 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 2 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 001100
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/17/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	22	years
C. Joints:	NA	years
D. Superstructure:	22	years
E. Substructure:	22	years
F. Approach:	20	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

THE SOUTHEAST APPROACH RAIL IS SLIGHTLY DAMAGED. THE NUTS ARE LOOSE AT THE SPREADER BEAMS. DEBRIS HAS ACCUMULATED AT THE SOUTH INTERIOR BENT. SAND AND DIRT HAS ACCUMULATED AT THE CURBS, PARTIALLY BLOCKING DECK DRAINAGE. TWO OF FOUR END MARKERS ARE IN PLACE.

Bridge No. 91



Looking East



Looking North

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00091

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00091
8A. NBI Number:	1800076	8C. Old Bridge Number:	
5A. Inventory Route On:	141002560	5B. Rd. Number On:	0256
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	BRANCH CAMBELL CREEK		
7. Facility Carried:	RD 200 N		
9A. Location:	200N 820E	9B Map Location:	K-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 13.2 Min.	17. Longitude:	085 Deg. 14.1 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	302D SIMPLE STEEL BEAM		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	8 TIMBER		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	01 Inches

AGE AND SERVICE:

27A. Year Built:	1985	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	1991
59B. Paint Rating:	6 SATISFACTORY	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000100	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0040.0 Feet	49. Structure Length:	0041.0 Feet
50. Sidewalk/Curb Left:	00.3 Right: 00.3		
51. Bridge Roadway Width:	022.8 Feet	52. Deck Width (o-o):	024.0 Feet
32. Approach Roadway Width:	023 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	18 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	23.8 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00091

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	GOOD-CRACKED, MINOR SEEPAGE	6
59. Super:	STL BMS & O.S. CHANNEL BMS	GOOD-LIGHT RUST	7
60. Sub:	CONCRETE	FAIR-NO WINGS	6
61. Channel:	EARTH/VEGETATION	FAIR-POOLS AGAINST W ABUT	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		POOR-STEEP SHOULDERS;SETTLED	4

LOAD RATING AND POSTING:

31. Design Load: 0 OTHER/UNKNOWN
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO WINGS, LIGHT SEEPAGE, LIGHT RUST	6
68. Geometry:	TWO LANES - SOMEWHAT NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE - DRIFT ON FLANGES	5
72. Roadway Alignment:	STRAIGHT AND LEVEL, INTERSECTION WEST	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	G STEEL - M SHAPED	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	A CONC. SPREAD FOOTINGS - NO PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00091

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
**WEDGE AND WIDEN THE APPROACHES. INSTALL APPROACH RAIL WITH END TREATMENTS.
RIPRAP THE SLOPES AND ENDBENTS. ADD CONCRETE WINGS TO THE ENDBENTS.**

76. Improvement Length: 000041 feet
94. Bridge Imp. Costs: \$ 10 X 1000
95. Rdwy. Imp. Costs: \$ 10 X 1000
96. Total Project Costs: \$ 20 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000210
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/5/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	06	years
B. Deck:	15	years
C. Joints:	NA	years
D. Superstructure:	33	years
E. Substructure:	33	years
F. Approach:	05	years
G. Channel:	10	years
H. Culvert:	NA	years

Remarks:

THE CHANNEL FORKS JUST UPSTREAM OF THE STRUCTURE. A FENCE HANGS FROM THE SOUTH COPING. TWO OF FOUR END MARKERS ARE MISSING. THE SHOULDERS WERE REPAIRED SINCE THE LAST INSPECTION; THE SOUTHWEST SHOULDER DROPS OFF IN FRONT OF THE GUARDRAIL.

Bridge No. 92



Looking East



Looking South

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00092

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00092
8A. NBI Number:	1800077	8C. Old Bridge Number:	
5A. Inventory Route On:	141000700	5B. Rd. Number On:	0070
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	CAMPBELL CREEK		
7. Facility Carried:	RD 520 N		
9A. Location:	520N 540E	9B Map Location:	H-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 15.9 Min.	17. Longitude:	085 Deg. 17.1 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	104 CONCRETE TEE BEAM		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	6 Bituminous	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	03 Inches

AGE AND SERVICE:

27A. Year Built:	1958	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000375	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0041.0 Feet	49. Structure Length:	0044.0 Feet
50. Sidewalk/Curb Left:	01.0 Right: 01.0		
51. Bridge Roadway Width:	024.2 Feet	52. Deck Width (o-o):	027.7 Feet
32. Approach Roadway Width:	024 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	25 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.2 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00092

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 09 LOCAL - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
110. Designated Nat. Network: NO 103. Temp. Struc. Des.: N/A
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 20. Toll: 3 NO TOLL
37. Historical Significance: 5 NOT ELIGIBLE 22. Owner: 02 COUNTY HIGHWAY

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE WITH ASPHALT W.S.	GOOD-MINOR EFFLORESCENCE	7
59. Super:	REINFORCED CONCRETE GIRDER	FAIR-FLEXURAL CRACKS	6
60. Sub:	CONCRETE/STONE MASONRY	FAIR-SPALLING	6
61. Channel:	NATURAL/BEDROCK	FAIR-FLOW AGAINST ABUTMENTS	6
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPH-CRACKED, ERODED CORNERS	5

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 238
66A. Inventory Rating: 229 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MODERATE SPALLS AND HAIRLINE CRACKS	6
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	INADEQUATE OPENING, BEDROCK	6
72. Roadway Alignment:	HILL WEST, HILL AND HORIZONTAL CURVE EAST	4
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	U UNKNOWN FOUNDATION	
113B. Foundation Type:	O UNKNOWN TYPE	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00092

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

REPAIR WASHOUTS AT THE CORNERS. BUILD UP THE WINGS AND INSTALL APPROACH RAIL AT ALL CORNERS. ADD CURB TRANSITIONS. REPLACE THE INCORRECT END MARKER; ADD TWO MORE. EXTEND THE DRAINS PAST THE BOTTOM OF THE BEAMS.

76. Improvement Length: 000044 feet

94. Bridge Imp. Costs: \$ 4 X 1000

95. Rdwy. Imp. Costs: \$ 16 X 1000

96. Total Project Costs: \$ 20 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 000620

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/10/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	10	years
B. Deck:	25	years
C. Joints:	NA	years
D. Superstructure:	19	years
E. Substructure:	15	years
F. Approach:	02	years
G. Channel:	15	years
H. Culvert:	NA	years

Remarks:

TWO END MARKERS ARE IN PLACE EASTBOUND; A THIRD ONE AT THE NORTHWEST CORNER IS INTENDED FOR RIGHT SIDE APPLICATION AND IS LEANING. THERE IS SOME SPALLING AT THE WEST ABUTMENT AT THE WATERLINE. THE DECK DRAINS ONTO THE OUTSIDE BEAMS. BOTH OUTSIDE BEAMS HAVE HAIRLINE TO NARROW FLEXURE CRACKS AND OTHER CRACKS AT MIDSPAN. THE SHOULDERS ARE ERODED AT THE CORNERS; THE EXPOSED CURB AND RAIL ENDS POSE CRASH HAZARDS. THE STREAMBED IS BEDROCK. THE STRUCTURE TYPE WAS CHANGED TO CONCRETE TEE-BEAM TO MORE ACCURATELY DESCRIBE THE BRIDGE.

Bridge No. 93



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00093

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00093
8A. NBI Number:	1800078	8C. Old Bridge Number:	
5A. Inventory Route On:	141000710	5B. Rd. Number On:	0071
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	MUD CREEK		
7. Facility Carried:	RD 650 E		
9A. Location:	170N 650E	9B Map Location:	J-6
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 12.9 Min.	17. Longitude:	085 Deg. 15.9 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	505 PRESTRESSED CONCRETE BOX BEAMS - MULTIPLE		
43C. Main Widening Type:		45. No. of Spans - Main:	001
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1969	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000823	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	04 4 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0047.0 Feet	49. Structure Length:	0050.0 Feet
50. Sidewalk/Curb Left:	01.0 Right: 01.0		
51. Bridge Roadway Width:	022.0 Feet	52. Deck Width (o-o):	026.0 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	30 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	22.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00093**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
104A. Highway System - Over: **0 NON FA** 104B. - Under:
26A. Functional Class Over: **08 MINOR COLLECTOR - RURAL**
26B. Functional Class Under:
100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-LIGHT POPOUTS & CRACKS	6
59. Super:	PRESTRESSED BOX BEAMS	GOOD	7
60. Sub:	CONCRETE	FAIR-UNDERCUT END BENTS	6
61. Channel:	EARTH/VEGETATION	POOR-EROSION;SLOPES FAILING	4
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - WEDGED & SETTLED	5

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
64A. Operating Rating: **244**
66A. Inventory Rating: **236** 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: **5 LEGAL LIMIT**
41. Open, Posted, or Closed: **A OPEN**
66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	BOTH END BENTS UNDERCUT. LIGHT CRACKS.	6
68. Geometry:	TWO LANES - NARROW	4
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	6
72. Roadway Alignment:	STRAIGHT AND LEVEL	7
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	4 STABLE - ACTION NEEDED	
113B. Foundation Type:	E CONC. CAP ON SOIL - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00093

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
**CLEAN AND SEAL THE DECK. UNDERPIN THE ENDBENT CAPS. INSTALL APPROACH RAIL AND
END TREATMENTS AT ALL CORNERS. PLACE RIPRAP ON THE SLOPES. ADD END MARKERS.**

76. Improvement Length: 000050 feet
94. Bridge Imp. Costs: \$ 12 X 1000
95. Rdwy. Imp. Costs: \$ 9 X 1000
96. Total Project Costs: \$ 21 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 001370
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/5/2005
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

91. Des. Insp. Frequency: 24 months

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	10	years
B. Deck:	30	years
C. Joints:	NA	years
D. Superstructure:	30	years
E. Substructure:	25	years
F. Approach:	08	years
G. Channel:	05	years
H. Culvert:	NA	years

Remarks:

**TWO END MARKERS ARE IN PLACE ON THE EAST SIDE ONLY. THE BRIDGE ROADWAY IS
NARROW WITH NO APPROACH RAIL. CRACKS IN THE WEARING SURFACE FOLLOW THE BEAM
LINES. THE SLOPES ARE ERODED AND THE ENDBENT CAPS ARE UNDERMINED.**

Bridge No. 95



Looking North



Looking Southwest

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00095

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00095
8A. NBI Number:	1800079	8C. Old Bridge Number:	
5A. Inventory Route On:	141000650	5B. Rd. Number On:	0065
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	MISSISSINewa RIVER		
7. Facility Carried:	RD 525 E		
9A. Location:	560N 525E	9B Map Location:	H-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 16.1 Min.	17. Longitude:	085 Deg. 17.3 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	402E COMPOSITE CONTINUOUS STEEL GIRDER		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1989	106A. Reconstructed:	0000 N/A
27B. Paint Date:	0589	106B. Repaired:	
59B. Paint Rating:	8 VERY GOOD	B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000241	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	06 6 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0181.0 Feet	49. Structure Length:	0363.0 Feet
50. Sidewalk/Curb Left:	00.3 Right: 00.3		
51. Bridge Roadway Width:	025.0 Feet	52. Deck Width (o-o):	028.8 Feet
32. Approach Roadway Width:	020 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	22 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	25.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00095

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 NON FA 104B. - Under:
26A. Functional Class Over: 08 MINOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0
102. Direction of Traffic: 2 2 WAY
101. Parallel Struc. Des.: NONE
103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO
20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD-MINOR CRACKS & LEACHING	8
59. Super:	STEEL I-BEAM	GOOD	8
60. Sub:	CONCRETE	GOOD	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		GOOD-MINOR SETTLEMENT NORTH	8

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 250
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO SIGNIFICANT STRUCTURAL DEFICIENCIES	8
68. Geometry:	TWO LANES - SLIGHTLY NARROW.	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	8
72. Roadway Alignment:	STRAIGHT AND LEVEL	8
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	A CONC. BARRIER RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	D CONC. SPREAD FOOTINGS - ON PILES	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00095

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
CLEAN THE DECK AND DRAINS. REPLACE THE SOUTHWEST END MARKER. REPLACE A LENGTH OF RAIL AT THE SOUTHWEST TRANSITION.

76. Improvement Length: 000363 feet
94. Bridge Imp. Costs: \$ 2 X 1000
95. Rdwy. Imp. Costs: \$ 0 X 1000
96. Total Project Costs: \$ 2 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000410
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/10/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	20	years
B. Deck:	45	years
C. Joints:	10	years
D. Superstructure:	45	years
E. Substructure:	45	years
F. Approach:	18	years
G. Channel:	30	years
H. Culvert:	NA	years

Remarks:

END MARKERS ARE IN PLACE BUT THE ONE AT THE SOUTHWEST CORNER IS NOT FACED. THE SOUTHEAST CONCRETE BRIDGE RAIL IS SPALLED AT THE TOP. DEBRIS IS ACCUMULATED ON THE DECK AND IN THE DRAINS. THE SOUTHWEST TRANSITION RAIL IS DAMAGED. THE ASPHALT APPROACH PAVEMENT IS CRACKED. THE PIERS ARE OUT OF THE CHANNEL, SO THE UNDERWATER INSPECTION REQUIREMENT HAS BEEN ELIMINATED.

Bridge No. 97



Looking North



Looking East

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00097

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00097
8A. NBI Number:	1800080	8C. Old Bridge Number:	
5A. Inventory Route On:	141003010	5B. Rd. Number On:	0301
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD	4. City/Town:	00000 NONE
3. County:	18 DELAWARE		
6. Features Intersected:	CAMPBELL CREEK		
7. Facility Carried:	RD 750 E		
9A. Location:	330N 750E	9B Map Location:	K-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.4 Min.	17. Longitude:	085 Deg. 14.7 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	701 TIMBER SLAB	45. No. of Spans - Main:	003
43C. Main Widening Type:		46. No. of Spans - Appr:	0000 NONE
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO		
107. Deck Structure Type:	8 TIMBER	108B. Membrane:	0 None
108A. Wearing Surface:	6 Bituminous	108D. Thickness of Asph:	02 Inches
108C. Protection:	0 None		

AGE AND SERVICE:

27A. Year Built:	1997	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00	30A. ADT Year - Over:	2003
29A. ADT - Over:	000100	30B. ADT Year - Under:	
29B. ADT - Under:			
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0026.0 Feet	49. Structure Length:	0060.0 Feet
50. Sidewalk/Curb Left:	00.4 Right: 00.4	52. Deck Width (o-o):	025.5 Feet
51. Bridge Roadway Width:	024.1 Feet	33. Bridge Median:	0 NO MEDIAN
32. Approach Roadway Width:	014 Feet	35. Structure Flared:	0 NO
34. Skew:	00 Degrees	10B. Under:	' " (N/A)
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)		
47A. Total Hor. Clr. - Over:	24.1 Feet	54B. Underclearance:	00 ' 00 " (N/A)
47C. Total Hor. Clr. - Under:	Feet	54A. Type:	N/A
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	55A. Type:	N/A
55B. Lateral Right:	99.9 N/A		
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00097**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
 111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
 104A. Highway System - Over: **0 NON FA** 104B. - Under:
 26A. Functional Class Over: **09 LOCAL - RURAL**
 26B. Functional Class Under:
 100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
 102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
 110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
 21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
 37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	TIMBER W/ ASPHALT W.S.	GOOD-MINOR SAG, W.S. CRACKS	7
59. Super:	TIMBER SLAB	GOOD-SPREADER BEAM NOT SNUG	7
60. Sub:	TIMBER	GOOD	8
61. Channel:	RIPRAP	FAIR-DEBRIS, SILTED	6
62. Culv/Ret:	N/A	N/A	N/A
65. Approach Roadway:		ASPHALT - GOOD	8

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
 64A. Operating Rating: **245**
 66A. Inventory Rating: **236** 64B. Year of Rating: **1999**
 66B. Gross Tons or H Rating: **20**
 70. Bridge Posting: **5 LEGAL LIMIT**
 41. Open, Posted, or Closed: **A OPEN**
 66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	MINOR SAG. SPREADER BEAM NOT SNUG.	7
68. Geometry:	TWO LANES	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	ADEQUATE	8
72. Roadway Alignment:	HILL TO NORTH & SOUTH; STRAIGHT	8
36A. Traffic Safety Features:	0000A NOT CURRENT STANDARDS	
36B Bridge Rail Type:	J TIMBER	
113A. Scour Critical Bridges:	8 STABLE - EXEL. COND.	
113B. Foundation Type:	I TIMBER	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00097

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES

Describe Item 75:

CRACKSEAL THE ASPHALT WEARING SURFACE. CLEAR THE DEBRIS AT THE INTERIOR BENT. PLACE FOUR END MARKERS. ADJUST THE RAIL HEIGHT OR ADD BOTTOM RAILS. DISPOSE OF THE TIRES IN THE ROADWAY. TIGHTEN THE NUTS AT THE SPREADER BEAMS.

76. Improvement Length: 000060 feet

94. Bridge Imp. Costs: \$ 2 X 1000

95. Rdwy. Imp. Costs: \$ 0 X 1000

96. Total Project Costs: \$ 2 X 1000

97. Year of Cost Estimate: 2005

114. Future ADT: 000210

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/10/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	15	years
B. Deck:	22	years
C. Joints:	NA	years
D. Superstructure:	22	years
E. Substructure:	22	years
F. Approach:	20	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

NO END MARKERS ARE IN PLACE. THERE IS A UTILITY CONDUIT ON WEST CURB. THE RAIL IS HIGH (27" TO BOTTOM) AND NOT STANDARD. THE ENDS OF THE SPREADER BEAMS ARE NOT DRAWN TIGHT TO THE SLAB. SEVERAL TIRES ARE STACKED NEXT TO THE BRIDGE RAIL IN THE ROADWAY. DEBRIS HAS ACCUMULATED AT THE SOUTH INTERIOR BENT.

Bridge No. 98



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00098

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00098
8A. NBI Number:	1800081	8C. Old Bridge Number:	
5A. Inventory Route On:	141000810	5B. Rd. Number On:	0081
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	CAMPBELL CREEK		
7. Facility Carried:	RD 800 E		
9A. Location:	310N 800E	9B Map Location:	K-7
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 14.1 Min.	17. Longitude:	085 Deg. 14.1 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	1 Epoxy Coated Rebar	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1987	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000112	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	02 2 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0026.0 Feet	49. Structure Length:	0068.0 Feet
50. Sidewalk/Curb Left:	00.0 Right: 00.0		
51. Bridge Roadway Width:	024.0 Feet	52. Deck Width (o-o):	027.0 Feet
32. Approach Roadway Width:	022 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	05 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.0 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00098

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-9318 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	GOOD	8
59. Super:	REINFORCED CONCRETE SLAB	GOOD-MINOR CRACKS	8
60. Sub:	CONCRETE	GOOD-MINOR UNDERCUT	8
61. Channel:	RIPRAP	GOOD	8
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT-CRACKED & SETTLED	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 245
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	NO SIGNIFICANT DEFICIENCIES	8
68. Geometry:	TWO LANES	6
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	8
72. Roadway Alignment:	STRAIGHT AND LEVEL. DRIVE NORTHEAST.	8
36A. Traffic Safety Features:	1111 ALL FEATURES ACCEPTABLE	
36B Bridge Rail Type:	A CONC. BARRIER RAILING	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00098

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 382 OTHER STRUCTURAL WORK - LOCAL FORCES
Describe Item 75:
WEDGE THE APPROACHES. INSTALL THREE END MARKERS.

76. Improvement Length: 000068 feet
94. Bridge Imp. Costs: \$ 0 X 1000
95. Rdwy. Imp. Costs: \$ 2 X 1000
96. Total Project Costs: \$ 2 X 1000
97. Year of Cost Estimate: 2003
114. Future ADT: 000190
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/10/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	18	years
B. Deck:	45	years
C. Joints:	NA	years
D. Superstructure:	45	years
E. Substructure:	45	years
F. Approach:	08	years
G. Channel:	20	years
H. Culvert:	NA	years

Remarks:

TWO OF FOUR END MARKERS ARE MISSING, ONE IS LEANING AND PARTIALLY DEFACED.
THERE ARE NARROW CRACKS IN THE COPING OVER THE PIERS. THE NORTH ENDBENT CAP
HAS MINOR UNDERCUT.

Bridge No. 99



Looking South



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00099

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00099
8A. NBI Number:	1800082	8C. Old Bridge Number:	
5A. Inventory Route On:	141000810	5B. Rd. Number On:	0081
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	MUD CREEK		
7. Facility Carried:	RD 800 E		
9A. Location:	565N 800E	9B Map Location:	K-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 16.3 Min.	17. Longitude:	085 Deg. 14.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1967	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000240	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0024.0 Feet	49. Structure Length:	0062.0 Feet
50. Sidewalk/Curb Left:	00.9 Right: 00.9		
51. Bridge Roadway Width:	024.3 Feet	52. Deck Width (o-o):	027.7 Feet
32. Approach Roadway Width:	021 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00099**NAVIGATION DATA:**

38. Navigational Control: **0 NO NAV. CONTROL** 39. Vertical: **000** Ft. 40. Horizontal: **0000** Ft.
111. Pier/Abutment Protection: **NOT APPLICABLE** 116. Vert. Cl. Lift Bridge: **N/A**

CLASSIFICATION:

112. NBIS Bridge Length: **YES**
104A. Highway System - Over: **0 S-9318** 104B. - Under:
26A. Functional Class Over: **07 MAJOR COLLECTOR - RURAL**
26B. Functional Class Under:
100. Defense Hwy. Designation: **0** 101. Parallel Struc. Des.: **NONE**
102. Direction of Traffic: **2 2 WAY** 103. Temp. Struc. Des.: **N/A**
110. Designated Nat. Network: **NO** 20. Toll: **3 NO TOLL**
21. Maintenance Responsibility: **02 COUNTY HIGHWAY** 22. Owner: **02 COUNTY HIGHWAY**
37. Historical Significance: **5 NOT ELIGIBLE**

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-POPOUTS,SCALING,CRACKS	6
59. Super:	CONTINUOUS REINF CONC SLAB	GOOD-LIGHT CRACKING AT PIERS	7
60. Sub:	CONCRETE	GOOD-LT SCALING ON PILE ENC	7
61. Channel:	CONCRETE SLOPEWALL	FAIR-EROSION, N WALL CRACKED	5
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		GOOD	7

LOAD RATING AND POSTING:

31. Design Load: **5 HS-20**
64A. Operating Rating: **245**
66A. Inventory Rating: **236** 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: **5 LEGAL LIMIT**
41. Open, Posted, or Closed: **A OPEN**
66C. Tons Posted: 66D. Date Posted/Closed: **/**

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	SEEPAGE AT DRAINS.LT CRACKING AT PIERS & DECK	7
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE - SILTING	5
72. Roadway Alignment:	STRAIGHT AND LEVEL	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00099

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005

75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT

Describe Item 75:

**FILL THE VOIDS UNDER THE SLOPEWALLS. RIPRAP ALL CORNERS OF THE SLOPEWALLS.
INSTALL APPROACH RAIL WITH END TREATMENTS AT ALL CORNERS. ADD CURB TRANSITIONS.**

76. Improvement Length: 000062 feet

94. Bridge Imp. Costs: \$ 10 X 1000

95. Rdwy. Imp. Costs: \$ 10 X 1000

96. Total Project Costs: \$ 20 X 1000

97. Year of Cost Estimate: 2003

114. Future ADT: 000410

115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/10/2005

91. Des. Insp. Frequency: 24 months

92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A

93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface: 04 years

B. Deck: 25 years

C. Joints: NA years

D. Superstructure: 25 years

E. Substructure: 25 years

F. Approach: 12 years

G. Channel: 05 years

H. Culvert: NA years

Remarks:

**END MARKERS ARE IN PLACE. THERE IS SIGNIFICANT FLOW FROM THE SLOPEWALL AT THE
SOUTHEAST CORNER - POSSIBLE TILE BREAKDOWN. THE SLOPEWALLS ARE UNDERMINED.
THERE IS ONE MODERATE SPALL IN THE CENTER SPAN NEAR THE WEST COPING. THERE ARE
TRANSVERSE HAIRLINE CRACKS IN THE SLAB OVER THE PIERS. THE EXPOSED ENDS OF THE
CURBS POSE CRASH HAZARDS.**

Bridge No. 100



Looking North



Looking West

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 1

BRIDGE NO. 00100

IDENTIFICATION:

1. State:	185 INDIANA	8B. Bridge Number:	00100
8A. NBI Number:	1800083	8C. Old Bridge Number:	
5A. Inventory Route On:	141000810	5B. Rd. Number On:	0081
5C. Inventory Route Under:		5D. Rd. Number Under:	
2. District:	03 GREENFIELD		
3. County:	18 DELAWARE	4. City/Town:	00000 NONE
6. Features Intersected:	MUD CREEK		
7. Facility Carried:	RD 800 E		
9A. Location:	590N 800E	9B Map Location:	K-8
11A. Milepoint (over):	00000		
11B. Milepoint (under):			
16. Latitude:	40 Deg. 16.6 Min.	17. Longitude:	085 Deg. 14.2 Min.
98. Border Bridge:			
99. Border Bridge Number:			

STRUCTURE DATA:

43A. Structure Type - Main:	201A CONTINUOUS REINFORCED CONCRETE SLAB		
43C. Main Widening Type:		45. No. of Spans - Main:	003
44A. Str. Type - Approach	000 NONE		
44C. Other Approach Types:	NO	46. No. of Spans - Appr:	0000 NONE
107. Deck Structure Type:	1 CONC. CAST-IN-PLACE		
108A. Wearing Surface:	1 Concrete	108B. Membrane:	0 None
108C. Protection:	0 None	108D. Thickness of Asph:	Inches

AGE AND SERVICE:

27A. Year Built:	1967	106A. Reconstructed:	0000 N/A
27B. Paint Date:		106B. Repaired:	
59B. Paint Rating:		B. Contract Number:	
59C. Tons of Steel:		8D. Des. Number:	
42. Type of Service:	15 HWY./WTRWY		
28A. Lanes on Structure:	02 Under: 00		
29A. ADT - Over:	000240	30A. ADT Year - Over:	2003
29B. ADT - Under:		30B. ADT Year - Under:	
109. Average Truck Traffic:	01 Percent		
19. Bypass Detour Length:	03 3 MILES		

GEOMETRIC DATA:

48. Maximum Span Length:	0032.0 Feet	49. Structure Length:	0082.0 Feet
50. Sidewalk/Curb Left:	00.8 Right: 00.8		
51. Bridge Roadway Width:	024.3 Feet	52. Deck Width (o-o):	027.8 Feet
32. Approach Roadway Width:	021 Feet	33. Bridge Median:	0 NO MEDIAN
34. Skew:	00 Degrees	35. Structure Flared:	0 NO
10A. Defense Vert. Clr. - Over:	99 ' 99 " (UNLIMITED)	10B. Under:	' " (N/A)
47A. Total Hor. Clr. - Over:	24.3 Feet		
47C. Total Hor. Clr. - Under:	Feet		
53. Vertical Clear. Over Deck:	99 ' 99 " (UNLIMITED)	54B. Underclearance:	00 ' 00 " (N/A)
55B. Lateral Right:	99.9 N/A	54A. Type: N/A	55A. Type: N/A
56. Lateral Left:	00.0 N/A		

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 2

BRIDGE NO. 00100

NAVIGATION DATA:

38. Navigational Control: 0 NO NAV. CONTROL 39. Vertical: 000 Ft. 40. Horizontal: 0000 Ft.
111. Pier/Abutment Protection: NOT APPLICABLE 116. Vert. Cl. Lift Bridge: N/A

CLASSIFICATION:

112. NBIS Bridge Length: YES
104A. Highway System - Over: 0 S-9318 104B. - Under:
26A. Functional Class Over: 07 MAJOR COLLECTOR - RURAL
26B. Functional Class Under:
100. Defense Hwy. Designation: 0 101. Parallel Struc. Des.: NONE
102. Direction of Traffic: 2 2 WAY 103. Temp. Struc. Des.: N/A
110. Designated Nat. Network: NO 20. Toll: 3 NO TOLL
21. Maintenance Responsibility: 02 COUNTY HIGHWAY 22. Owner: 02 COUNTY HIGHWAY
37. Historical Significance: 5 NOT ELIGIBLE

CONDITION:

	<u>MATERIAL</u>	<u>CONDITION</u>	<u>RATING</u>
58. Deck:	CONCRETE	FAIR-POPOUTS, SCALING, CRACKS	6
59. Super:	CONTINUOUS REINF CONC SLAB	FAIR-CRACKS, SPALLS	6
60. Sub:	CONCRETE	FAIR-PILE ENCASEMENT SPALLED	6
61. Channel:	SLOPEWALL/BEDROCK	GOOD-CRACKED NORTH & SOUTH	7
62. Culv/Ret:	N/A		N/A
65. Approach Roadway:		ASPHALT - WEDGED, ROUGH	6

LOAD RATING AND POSTING:

31. Design Load: 5 HS-20
64A. Operating Rating: 244
66A. Inventory Rating: 236 64B. Year of Rating:
66B. Gross Tons or H Rating:
70. Bridge Posting: 5 LEGAL LIMIT
41. Open, Posted, or Closed: A OPEN
66C. Tons Posted: 66D. Date Posted/Closed: /

APPRAISAL:

	<u>DEFICIENCIES</u>	<u>RATING</u>
67. Structural:	HAIRLINE CRK AT PIERS, PILE ENCASEMENT SPALLS	6
68. Geometry:	TWO LANES - SLIGHTLY NARROW	5
69. Underclearance:	N/A	N/A
71. Waterway Adequacy:	APPEARS ADEQUATE	7
72. Roadway Alignment:	STRAIGHT, HILL TO NORTH, DRIVES NW & SE	6
36A. Traffic Safety Features:	1000 BR RAILING ONLY	
36B Bridge Rail Type:	F MISC. CONC. RAILINGS	
113A. Scour Critical Bridges:	5 STABLE - WITHIN LIMITS	
113B. Foundation Type:	G STEEL PILES - SHELLS	

Ratings Summary: 0 FAILED, 1 - 4 POOR, 5 - 6 FAIR, 7 - 9 GOOD

STRUCTURE INVENTORY AND APPRAISAL REPORT

PAGE 3

BRIDGE NO. 00100

PROPOSED IMPROVEMENTS:

73. Year Needed: 2005
75. Type of Work: 351 REHABILITATION - DETERIORATION - CONTRACT
Describe Item 75:
EXTEND APPROACH RAIL. INSTALL RAIL TRANSITIONS, ADDITIONAL POSTS, AND END TREATMENTS. ADD CURB TRANSITIONS. REPOINT THE SPALLED PILE ENCASEMENT. PLACE A BRIDGE DECK OVERLAY.

76. Improvement Length: 000082 feet
94. Bridge Imp. Costs: \$ 38 X 1000
95. Rdwy. Imp. Costs: \$ 14 X 1000
96. Total Project Costs: \$ 52 X 1000
97. Year of Cost Estimate: 2005
114. Future ADT: 000420
115. Year of Future ADT: 2025

INSPECTIONS:

90. Inspection Date: 5/10/2005
91. Des. Insp. Frequency: 24 months
92. Crit. Feat. Inspection: A: N/A B: N/A C: N/A
93. Crit. Feat. Insp. Date: A: B: C:

ESTIMATED LIFE:

63. Estimated Remaining Life:

A. Wearing Surface:	04	years
B. Deck:	22	years
C. Joints:	NA	years
D. Superstructure:	22	years
E. Substructure:	18	years
F. Approach:	12	years
G. Channel:	12	years
H. Culvert:	NA	years

Remarks:

SPALLING WITH EXPOSED REINFORCING WAS FOUND AT THE PILE ENCASEMENTS. END MARKERS ARE IN PLACE. THERE IS SPALLING IN THE SLAB BELOW AT THE DRAINS AND AT THE COPINGS - SOME REINFORCING BARS ARE EXPOSED. THE EXPOSED ENDS OF THE CURBS POSE CRASH HAZARDS.