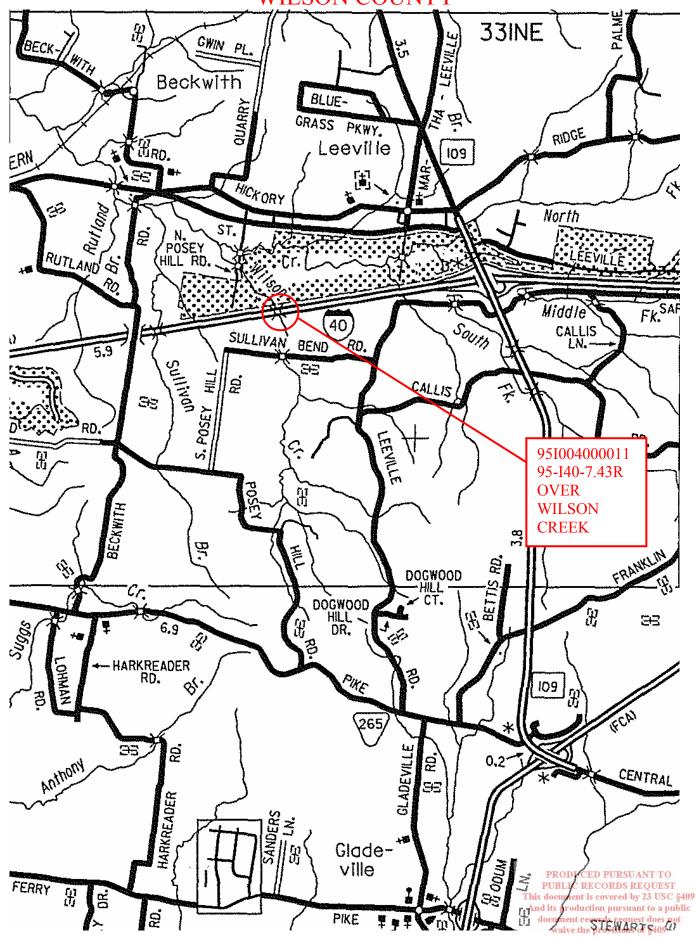
WILSON COUNTY



BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: WILSON

LOCATION: 95-I0040-07.43-R

CO. SEQ.: 1 SPEC. CASE: 0

MILEPOST: 230.13

CROSSING: WILSON CREEK

FED. BRIDGE NO.: 95100400011



REPAIR LIST NO.:

DATE ADDED:

MAINT. DIST.: 95		REVISE	D:	02/26/2010
FACILITY CARRIED:	140	NUMBER OF MAI	N SPANS:	3
HIGHWAY SYSTEM: 02-INT	ERSTATE URBAN	NUMBER OF APP	ROACH SPAI	NS: 0
BRIDGE WIDTH (CURB TO CURB):	41 FT 11 IN	BRIDGE LENGTH	(FT):	155
BRIDGE WIDTH (OUT TO OUT):	43 FT 11 IN	MAXIMUM SPAN :	LENGTH (F	r): 52
APPROACH ROADWAY (W/SHOULDERS):	36 FT 1 IN	SKEW ANGLE (D	EGREES):	90
MAINTAINED BY:		STATE HIGHWAY A	AGENCY	
MAIN SPAN MATERIAL:	PRESTRESSED	CONCRETE CONT	INUOUS	
MAIN SPAN DESIGN TYPE:	STRINGER/	MULTI-BEAM OR (GIRDER	
APPROACH SPAN MATERIAL:	OTH	ER OR NOT APPL	ICABLE	
APPROACH SPAN DESIGN TYPE:	OTH	ER OR NOT APPL	ICABLE	
INSPECTION DATE: 02/26/2010	GE	ENERAL CONDITIC	N:	GOOD
EVALUATION DATE: 03/07/2008	SI	TRUCTURALLY DEF	'ICIENT:	NO
PPRM PIN NUMBER:				
H TRUCK RATING @ INV.: 20 TONS	St	JFFICIENCY RATI	NG:	91.3
No. RECOMMEND	PATIONS		REPAIR DATE	REPAIRED BY

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS	
REPAIR ASPHALT APPROACH JOINT	

GENERAL C	OMMENTS:
-----------	----------

CLEAN DECK & CUT TREES 04/19/2207

REPAIR BENT CAPS

PRODUCED PURSUANT TO PUBLIC RECORDS REQUEST
This document is covered by 23 USC §409 And its production pursuant to a public document records request does not waive the provisions of §409



Bridge Condition Coding Form

Revised 03/02/2010

County: 95 DEPARTMENT OF TRANSPORTATION **Route: I0040** Bridge Number: 951004000111 (Includes Item 5A) **Special Case:** 0 **Feature Intersected:** WILSON CREEK **County Sequence:** 1 Log Mile: 7.43 **Evaluation Status:** OTHER ITEM(S) HAVE BEEN CHANGED

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

CODL	ONET THOSE VILLED VI		III	11
TEM#	DESCRIPTION	VALUE		
90	LAST INSPECTION DATE	02/26/20	010	
	EARLIEST DATE OF	12/28/20	011	
	NEXT REGULAR INSPECTION	/ /	'	
10	MINIMUM V.C. OVER DECK	99 FT.		IN
	(ROADWAY + SHOULDERS) —	FT		IN
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. FT		IN IN
36	TRAFFIC SAFETY FEATURES Br. Rail Trans. Appr. Rail Te	rminal SD	EED I II	мт
	1 1 1 1	1	70	VII
				_
41	STRC OPEN/CLOSED/POSTED A K P	A		
58	DECK	8		
59	SUPERSTRUCTURE	8		
60	SUBSTRUCTURE	6		
61	CHANL/CHANL PROTECTION	7		
62	CULVERT AND RETAIN WALL	N		
71	WATERWAY ADEQUACY	7		
72	APPROACH RDWY ALIGNMENT	8		
521	OVERALL CONDITION	GOO)D	
	LATITUDE 17 LONGITUD N 36° 10.8510′ W 86° 26.1960			•
	TEAM LEADER SIGNATURE	/ REVIEV	/ W DATE	

CONDITION CODING GUIDELINES

(Values for Coding Items 58, 59, 60 and 62)

- N NOT APPLICABLE
- 9 EXCELLENT CONDITION
- **VERY GOOD CONDITION NO** PROBLEMS NOTED.
- 7 GOOD CONDITION SOME MINOR PROBLEMS.
- SATISFACTORY CONDITION MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
- 5 FAIR CONDITION ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
- 4 POOR CONDITION ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
- 3 SERIOUS CONDITION LOSS OF SECTION, **DETERIORATION, SPALLING OR SCOUR HAVE** SERIOUSLY AFFECTED PRIMARY STRUCTURAL COMPONENTS. LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT.
- CRITICAL CONDITION ADVANCED **DETERIORATION OF PRIMARY STRUCTURAL** ELEMENTS. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT OR SCOUR MAY HAVE REMOVED SUBSTRUCTURE SUPPORT. UNLESS **CLOSELY MONITORED IT MAY BE** NECESSARY TO CLOSE THE BRIDGE UNTIL CORRECTIVE ACTION IS TAKEN.
- "IMMINENT" FAILURE CONDITION MAJOR **DETERIORATION OR SECTION LOSS** PRESENT IN CRITICAL STRUCTURAL COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING STRUCTURAL STABILITY. BRIDGE IS **CLOSED TO TRAFFIC BUT CORRECTIVE** ACTION MAY PUT IT BACK IN LIGHT SERVICE.

PRODUCED PURSUANT TO

FAILED CONDITION OF SERVICE AND BEYOND CORRECTLY ELACTION and to a public

document records request does not waive the provisions of §409



VIEW ACROSS DECK



A-APPROACH



B-APPROACH



JOINT @ A-APPROACH



BRIDGE NO.



ABUTMENT TYPICAL



BENT TYPICAL



SPALLS W/EXP REBAR BACKSIDE OF CAP BENT-1



BOTTOM DECK VIEW TYPICAL



INLET ELEVATION



UPSTREAM



DOWNSTREAM

BRIDGE INS	SPECTION REPORT		Page No
Form BIR 3.0	Field Report No.		
(Rev. 9-22-98)	Previous Report No.		Date <u>2/21/2008</u>
DT-0069	Plans:	YES	
Bridge No. <u>95l00400011</u>	Bridge Location No.	95 -	10040 - 7.43 R
Eleven Digit No.	ON ODEEK *	Co.	Route Log Mile
Road Name Over WILS	Crossing Crossing	Struct	ure Name (If Named)
Year Constructed 1962	County Wilson		enance District 32
Year Widened	Year Rehabilitated 1990		ACT
Teal Widefied	Teal Reliabilitated 1990		ACT
FEATURES			<u>INSPECTORS</u>
Wearing Surface ASPHALT	Depth 2 (in.)	1.	HUNTER
Flared Width Med	dian Width NONE	2.	HALLIBURTON
Navigational Contro <u>l</u> Brid	lge Skew <u>90°</u>	3.	
Structure Type (Main Span) PPCIB		_ 4.	
Structure Type (Appr.Spans)			WHEELEY
No. Main Spans 3 No. Approa	ach Spans	6.	WALLER
Maximum Span Length 51 (**.	* ft.)	7.	
Total Length 154.6 (**.	* ft.)	8.	
	1	<u>I</u>	
WIDTHS (*.* ft.)	<u>CLEARANCES</u>		
Deck Out-to-Out43'	Min. Vertical Clearance ov	er Dec	` '
Roadway Curb/Curb40'	Min. Vertical Under Cleara	nce	(ftin.)
Roadway Rail/Rail40'	Min. Lateral Under Clearar	nce Rt.	(*.* ft.)
Sidewalk Rt Lt	Min. Lateral Under Clearar	nce Lt.	(*.* ft.)
Approach Roadway 24 (Does Not Include Shoulders)	FRACTURE CRITICAL: 1		
Approach Shoulder Rt. 12' Lt. 4'	NBIS Bridge Length (<25 f	t. <u>)</u>	>25 (ftin.)

UNDERWATER INSPECTION

To Be Performed By:	NONE RI	EQUIRED	Date		_	
Change in Structural C	condition:	NO	Major Repairs Made:	NO	BRIDGE is:	OPEN

COMMENTS:

Form BIR 3.1								Pa	age No
(Rev. 9-22-98)		Bridae	Location No	. 95	- 10040) -	7.43 R	Date 2	2/26/2010
DT-0080		J		Co.			Log Mile		
PERFORMANCE	EVA	LUATIO	<u> </u>						
Time of Day Ins	pecte	d 10:1	5 A.M V	Veath	er Conditi	ions	CLOUDY 40	DEGREES	
Vehicles Observ	ved A	LL TYP	ES						
LIVE LOAD BE	HAVIO	<u>OR</u>							
Substructure		Yes/No					Comments		
Horiz./ Vei	rt. Def	i. NO							
Vibration		NO							
Superstructure	Э								
Horiz./ Ver	rt. Def	i. NO							
Vibration		YES							
<u>APPROACH</u>	Rat	ing					Comments		
Alignment	GO	OD							
Slab	N.	A							
Joints	N.	A							
Pavement	GO	OD							
Embankment	GO	OD							
Drains	GO	OD							
	·v	ATUDE	0						
TRAFFIC SAFET	1 FE	Rating	─ Standa				Comments		
Bridgerailing	ſ	GOO							
Transitions	ľ	GOO		.D					
Guardrail	ŀ	GOO		:D					
Guardrail Terr	ninal	GOO	STANDAR	.D					
<u>SIGNING</u>			Yes/ N	No/ Nee	eded		Weight I	_imit Posted	NO
Paddleboards				YES]	Gross	_	Tons
Vertical Clear		<14'-6"		NO		1	2 Axle		Tons
Narrow Bridge Signs			NO		1		e Axles	Tons	

NO

Other Signs or Plaques:

One Lane Bridge Signs

Comments Regarding any Problems with Signing:

Form BIR 3.2						Page No
(Rev. 9-22-98) DT-0081	Bridge I	Location No.	95 - 1004 Co. Rout		R Date	2/26/2010
<u>DECK</u>	Rating			Commen	nts	
Wearing Surface	GOOD					
Deck - Structural Condition	GOOD					
Curbs	NA					
Median	NA					
Sidewalks	NONE					
Parapet	GOOD					
Railing	NONE					
Paint	NA					_
Drains	GOOD					
Lighting Standards						
Utilities	NONE					
Joint Leakage	NONE					
Expansion Joints	NONE					
SUPERSTRUCTUR	<u> </u>					
Bearing Devices	GOOD					
Girders or Beams	GOOD					
Floor Beams	NONE					
Stringers	NONE					
Diaphragms	GOOD					
Bracing	NONE					
Trusses - General	NONE					
Portals	NONE					
Bracing	NONE					
Paint	NONE					
Alignment of Members	GOOD					
TEXTURE COAT						
Condition Rating	FAIR	Needs S	Spot Painting	NO		
Overall Appearance	FAIR	_	Repainting	YES		
Staining Rating	FAIR	_				PURSUANT TO
Fading Rating	FAIR	- Comme	าเร		This document is c	ORDS REQUEST overed by 23 USC §409
Scaling Rating	GOOD	- -			document recor	n pursuant to a public ds request does not ovisions of §409

Form BIR 3.3	
(Rev. 9-22-98)	
DT-0082	

Page No.___

Bridge Location No. 95 - 10040 - 7.43 R
Co. Route Log Mile

Date 2/26/2010

SUBSTRUCTURE

<u>ABUTMENTS</u>	Rating	Comments
Caps	GOOD	
Breastwall	NA	
Wings	GOOD	
Backwall	GOOD	
Plumb	GOOD	
Footing	NV	
Piles	NV	
Embankment	GOOD	
Bearing Surface	GOOD	
Slope Paving	NA	
Rip Rap	GOOD	
<u>PIERS</u>		
Caps	NA	
Columns	NA	
Plumb	NA	
Footings	NA	
Piles	NA	
Bearing Surface	NA	
<u>BENTS</u>		
Caps	FAIR	2" DEEP SPALLS WITH HEAVILY RUSTED REBAR
Columns	GOOD	
Plumb	GOOD	
Footings	GOOD	
Piles	NA	
Bearing Surface	GOOD	
-		•

Piles Need Replacement: NO

Piles To Be Replaced:

Page	No
------	----

Bridge Location No. <u>95 - 10040 - 7.43 R</u>

Co. Route Log Mile

Date 2/26/2010

STREAM CHANNEL DATA AND CONDITIONS

		Stream Crossing: WILSON CREEK *					
I.	1.	Type of bed material? BEDROCK					
	2.	Has channel shifted? NO (Yes/ No/ Not Apparent)					
	3.	Condition of rip-rap? NA Est. % failed%					
	4.	Overall condition of channel? GOOD					
	5.	Item 61 - Code values 0 thru 9 according to the recording and coding guide currently in effect: 7					
	6.	Underwater diver inspection recommended? NO lf yes, why?					
II.	Ch	annel and bank stability conditions: (yes if applicable)					
	1.	Steep bank conditions: Failures upstream Failures downstream					
	2.	Moderate bank erosion					
	3.	Bank vegetation: a. low growth b. large timber YES c. clear banks d. dead trees upstream NO e. dead trees downstream NO					
	4.	Sediment or gravel accumulation: NO (Yes/ No/ Unknown)					
	5.	Channel altered or straightened: NO (Yes/ No/ Unknown)					
	6.	Stable conditions: a. live growth YES b. bedrock YES c. boulders d. flat slopes (<=2:1)					
III.	Wa	aterway adequacy and debris characteristics: (yes if applicable)					
	1.	Bridge deck elevations:					
		 a. level with approach roadway					
	2. Abutment encroaches into channel						
	3.	Large scour (blowhole) under bridge					
	4. Indications that flood waters overtop bridge: NO (Yes/No) If YES, Answer: Occasionally, Frequently, or Unknown						
	5.	Debris characteristics:					
		a. debris/drift present NO b. debris/drift likely to accumulate NO c. dead trees upstream NO dead trees downstream NO					
IV.	Со	omments:					

SPECIAL INSPECTION DATA - FOR REASONS OTHER THAN FC OR SCOUR

- I. Does this bridge need a special inspection? NO
- II. Reason for special inspection:

SUMMARY 95-I40-7.43 RT 2/26/2010

I40/Wilson Cr 3 Span/P.P.C. I-Beam

This bridge was inspected and found to be in **good** condition. The approach pavement is good. The embankment and drains are in good condition. All traffic safety features are in place and are standard type. There are paddleboard decals at the approach rail terminals at the "A" approach.

The concrete wearing surface is in good condition. There are deck drains which are open and good, and the joint leakage is good. The superstructure elements and substructure units are in good condition. The caps are fair due to 2" spalls and $\frac{1}{4}$ " cracks with moderate delamanation. The channel appears adequate, and there was no scour detected at time of inspection.

Gilbert Wayne Hunter

Stream Profile

Date 2/26/2010

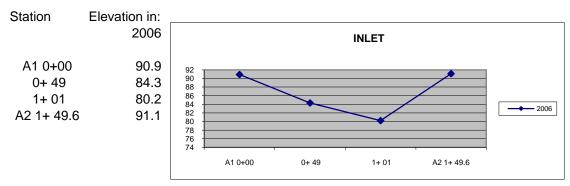
Bridge Location No. 95 I40 7.43 RT

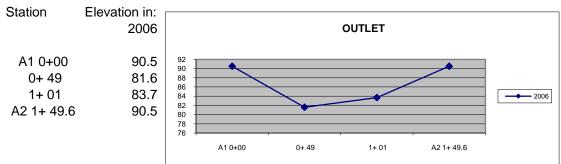
County Route Logmile

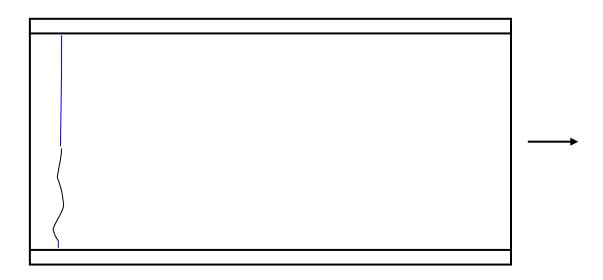
Elevations:

Benchmark Location: TOP OF BRIDGERAIL

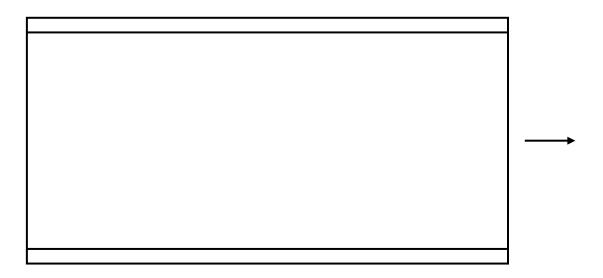
Assumed elevation 100 FT



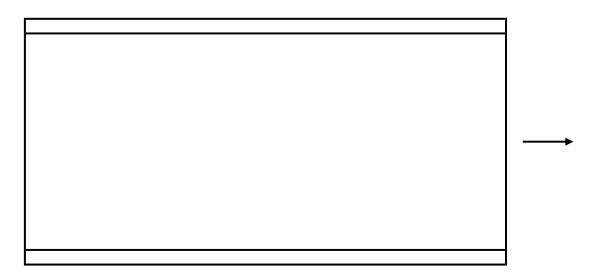




DECK	NV	SEPARATION CRACK AT JOINT
PARAPET	GOOD	
DRAINS	GOOD	



DECK	NV	
PARAPET	GOOD	
DRAINS	GOOD	



DECK	NV	SEPARATION CRACK AT JOINT
BEGIN		
PARAPET	GOOD	
DRAINS	GOOD	

Bridge Location No.	95	<u> 140</u>	7.43 RT	
	County	Route	Log Mile	

Α	
D	
В	
С	-
D	
E	
_	

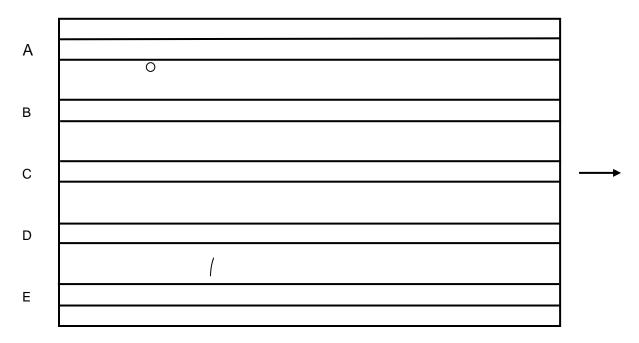
DECK	GOOD	
DIAPHRAGMS	GOOD	
BEAMS	GOOD	

Ε

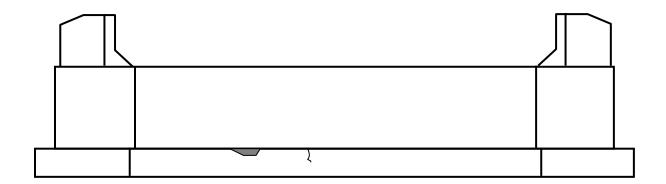
Bridge Location	n No. 95 County	Route	7.43 RT Log Mile		
Α					
В					
С					
D —					

DECK	GOOD	RANDOM TRANVERSE HC
DIAPHRAGMS	GOOD	
BEAMS	GOOD	

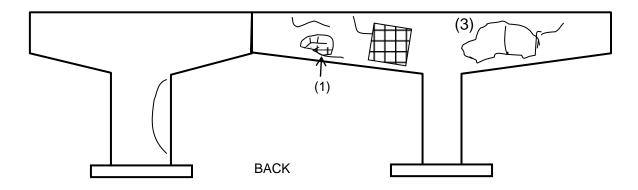
Bridge Location No.	95	I 40	7.43 RT	
	County	Route	Log Mile	

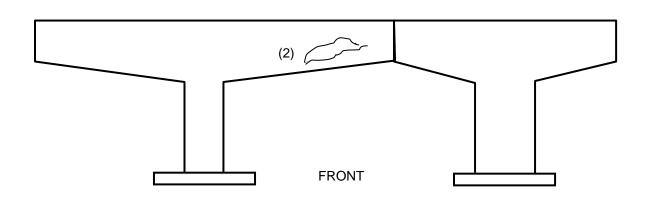


DECK	GOOD	DRILL HOLE BREAKOUT. HC W/LEACH
DIAPHRAGMS	GOOD	
BEAMS	GOOD	

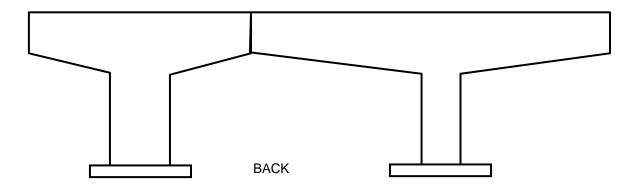


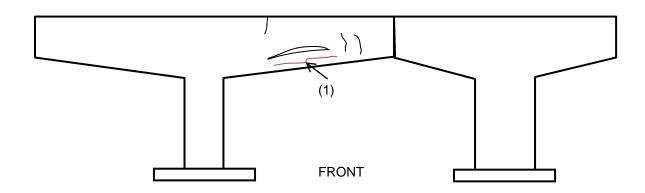
BACKWALL	GOOD	FEW HAIR CRACKS WITH LEACHING
CAP	GOOD	
WINGS	GOOD	
BEARINGS	GOOD	





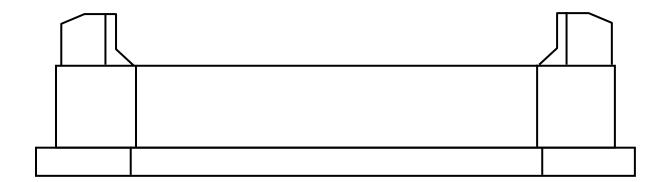
CAP	FAIR	RAMDOM CRACKS, (1) 3' DIAMETER SPALLS UP TO 3" DEEP
		(2) IN PLACE SPALL 3' LONG 2' HIGH
		(3) SPALL 6" L X UP TO 18" H X UP TO 2" DEEP
COLUMN	GOOD	
FOOTING	NV	
BEARING	GOOD	





CAP	FAIR	RAMDOM CRACKS, 1' DIAMETER SPALLS UP TO 1" DEEP		
		(1) 1/16" HORIZONTAL CRACK 2.5' LONG		
COLUMN	GOOD			
FOOTING	GOOD			
BEARING	GOOD			

Bridge Location No.	95	<u> </u>	7.43 RT
	County	Route	Log Mile



BACKWALL	GOOD	
BACKWALL	GOOD	
CAP	GOOD	
WINGS	GOOD	
BEARINGS	GOOD	