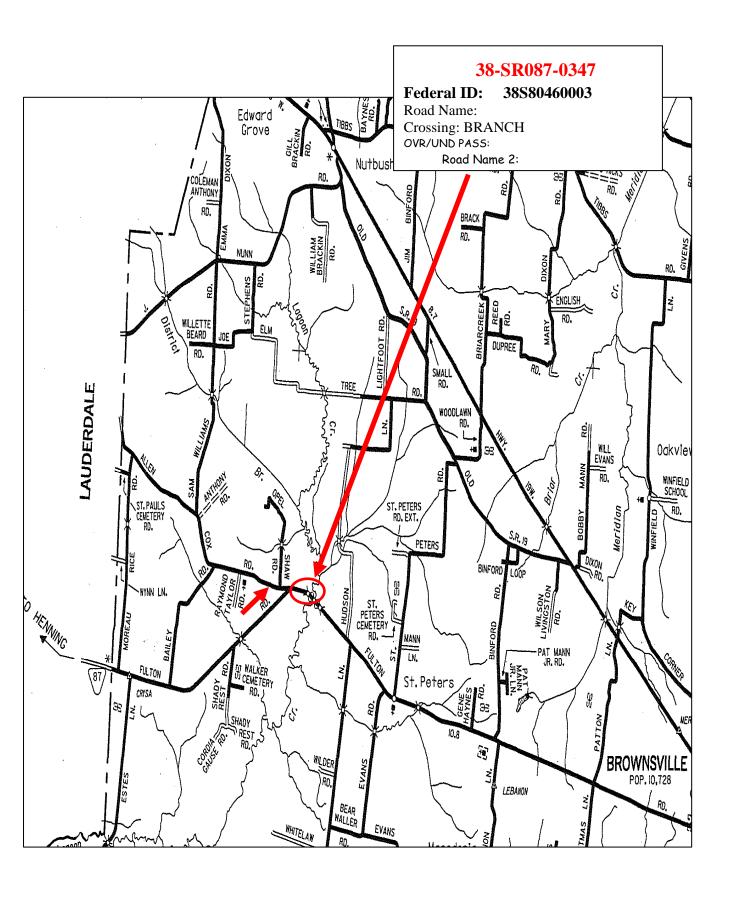
## **HAYWOOD COUNTY**



PRODUCED PURSUANT TO PUBLIC RECORDS REQUES This document is covered by 3 And its production pursuant to Document records request do Waive the provisions of §409

#### BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: HAYWOOD

LOCATION: 38-SR087-03.47-

CO. SEQ.: 1 SPEC. CASE: 0



CROSSING: BRANCH REPAIR LIST NO.:

FED. BRIDGE NO.: 38S80460003 DATE ADDED: 10/11/2016
MAINT. DIST.: 38
REVISED: 08/11/2021

FAS 87 NUMBER OF MAIN SPANS: FACILITY CARRIED: 05-STP RURAL, STATE NUMBER OF APPROACH SPANS: 0 HIGHWAY SYSTEM: 29 BRIDGE WIDTH (OUT TO OUT): 28 FT 6 IN MAXIMUM SPAN LENGTH (FT): 28 APPROACH ROADWAY (W/SHOULDERS):

26 FT 10 IN SKEW ANGLE (DEGREES): 90 MAINTAINED BY: STATE HIGHWAY AGENCY CONCRETE MAIN SPAN MATERIAL: CHANNEL BEAM MAIN SPAN DESIGN TYPE: APPROACH SPAN MATERIAL: OTHER OR NOT APPLICABLE APPROACH SPAN DESIGN TYPE: OTHER OR NOT APPLICABLE INSPECTION DATE: 08/11/2021 GENERAL CONDITION: FAIR STRUCTURALLY DEFICIENT: NO 10/09/2019 EVALUATION DATE: PPRM PIN NUMBER: H TRUCK RATING @ INV.: 15 TONS SUFFICIENCY RATING: 67.2

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS
CLEAR DRAINS
APPROACH GUARDRAIL TERMINALS ARE SUBSTANDARD
APPROACH GUARDRAILS ARE NON-EXISTENT
BRIDGERAILS ARE SUBSTANDARD
REPAIR BRIDGERAIL ON LEFT SIDE OF SPAN NO.1

### GENERAL COMMENTS:

ADDED TO REPAIR LIST 2 PER REQUEST

PRODUCED PURSUANT TO
PUBLIC RECORDS REQUEST
This document is covered by 23 USC §40
And its production pursuant to a public
Document records request does not
Makes the provisions of \$409.



# **Bridge Condition Coding Form**

Revised	08/12/20	121
IXCVISCU	UU/ 14/4U	141

**County:** 38 **Route:** SR087 **Bridge Number:** 38S804600031 (Includes Item 5A) **Special Case:** 0 **Feature Intersected:** BRANCH **County Sequence:** 1 Log Mile: 3.47 **Evaluation Status:** CONDITION ITEM CHANGE

# **CODE ONLY THOSE VALUES WHICH HAVE CHANGED**

ODL	OTTEL THOSE VILLER W		V L CIII
TEM #	DESCRIPTION	VALUE	
90	LAST INSPECTION DATE	08/11/20	)21
	EARLIEST DATE OF	06/12/20	)23
	NEXT REGULAR INSPECTION	/ /	
10	MINIMUM V.C. OVER	99 FT.	99 IN
10	DECK (ROADWAY + SHOULDERS) —	FT	IN
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. FT	99 IN
36	TRAFFIC SAFETY FEATURES		
	Br. Rail Trans. Appr. Rail Te	erminal SPI 0	EED LIMI 55
41	STRC OPEN/CLOSED/POSTED	P	
	A K P		
58	DECK	7	
59	SUPERSTRUCTURE	6	
60	SUBSTRUCTURE	6	
61	CHANL/CHANL PROTECTION	7	
62	CULVERT AND RETAIN WALL	N	
71	WATERWAY ADEQUACY	6	
72	APPROACH RDWY ALIGNMENT	8	
521	OVERALL CONDITION	FAIR	
	LATITUDE 17 LONGITUE N 35 ° 37.9067 W 89 ° 24.7850	_	
	EAM LEADER SIGNATURE	/ REVIEV	/ V DATE

### CONDITION CODING GUIDELINES

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

- N NOT APPLICABLE
- 9 EXCELLENT CONDITION
- 8 VERY GOOD CONDITION NO PROBLEMS NOTED.
- 7 GOOD CONDITION SOME MINOR PROBLEMS.
- 6 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.
- 2 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.
- 1 "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.
- 0 FAILED CONDITION OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.

Bridge Loc. No: 38-SR087-03.47 Date: 8-11-21



**BRIDGE NUMBER** 



APPROACH # 1

Bridge Loc. No: 38-SR087-03.47 Date: 8-11-21



**RIGHT SIDE** 



**VIEW ACROSS TOP OF DECK** 

Bridge Loc. No: 38-SR087-03.47 Date: 8-11-21



LEFT SIDE



**LOOKING AHEAD ON ROUTE** 

Bridge Loc. No: 38-SR087-03.47 Date: 8-11-21



**APPROACH # 1 WEIGHT LIMIT** 



**LOOKING BACK ON ROUTE** 

Bridge Loc. No: 38-SR087-03.47 Date: 8-11-21



APPROACH # 2 LEFT TERMINAL



**APPROACH # 2 WEIGHT LIMIT** 

Bridge Loc. No: 38-SR087-03.47 Date: 8-11-21



LEFT RAIL



ABUTMENT # 2

Bridge Loc. No: 38-SR087-03.47 Date: 8-11-21



**BOTTOM DECK** 



**RIGHT ELEVATION** 

Bridge Loc. No: 38-SR087-03.47 Date: 8-11-21



ABUTMENT # 1



**LEFT ELEVATION** 

# AUG 1 1 2021

# **BRIDGE INSPECTION REPORT**

<u>BRIDGE INSPI</u>	ECTION REPORT	
Form BIR 3.0	Field Report No.: 26	Date: 8/11/21
(Rev. 9-22-98)	Previous Report No.: 25	Date: 9-12-19
DT-0069	Co. Seq <u>01</u> Plans: YES (	) NO ( )
Bridge No. 38S80460003 Bridge Location Eleven Digit No.	No. <u>38 - SR087 - 0347</u> Co. Route Log Mile	OVER/UNDER PASS
	NCH	0.2.00,2
Road Name	Feature Intersected	CITY
Year Constructed 1960	County Haywood Maint. D	Dist: <u>48</u> Maint.Resp: <u>02</u>
Year Widened Year Rehabil		
EE ATUDEO	Structure	Name (If Named)
FEATURES	whaled a Davids O'' (in )	INSPECTORS
Wearing Surface Concrete ( ) Timber ( ) As	•	1. Kee (TL)
, 55 ( ) , 55 ( )	/idth Open() None() Closed()	2. S. Hayer
Navigational Control Yes ( ) No (*) Bridge	Skew 90 ° LT()RT()	3. <u>Lox</u>
Structure Type (Main Span) P. C. C. S.		4. A. Haver
Structure Type (Appr.Spans)		5.
No. Main Spans 1 No. Approach	Spans	6.
Maximum Span Length 29.0 (**.* ft	.)	7.
Total Length 29.0 (**.* ft	)	8.
	•	
WIDTHS (*.* ft.)	<u>CLEARANCES</u>	
Deck Out-to-Out 29.0	Min. Vertical Clearance over Deck	((ftin.)
Roadway Curb/Curb 28.0	Min. Vertical Under Clearance	(ftin.)
Roadway Rail/Rail	Min. Lateral Under Clearance Rt.	(*.* ft.)
Sidewalk Rt. Lt.	Min. Lateral Under Clearance Lt	(*.* ft.)
*Approach Roadway 19.0	FRACTURE CRITICAL:	
*(Does Not Include Shoulders)	(If Yes, Include BIR 3.9)	
Approach Shoulder Rt. 4.0		
Lt. <u>4.0</u>	NBIS Bridge Length (<25 ft.)	(ftin.)
UNDERWATER INSPECTION		
•	Date	
DOT FIELD TEAM ( ) CONTRACT DIVERS ( )	<del>-</del>	
Change in Structural Condition: Yes ( ) No	Major Repairs Made:	Yes() No(x)
<u>COMMENTS:</u>		
LATITUDE: N35 ° 37.9066 '	·	
LONGITUDE: W89 ° 24.7850 '	BRIDGE RATING: ( ) ( )	( ) ( )
G.P.S. Location	GOOD FAIR	POOR CRITICAL
Supervising Bridge Inspector:	st 1cu	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Form BIR 3.1 (Rev. 9-22-98)

Bridge Location No. 38 - SR087 - 3.47

Date \_\_\_\_\_

OT-0080	J	Co.	Route	Log Mile
PERFORMANCE EVAL	.UATION			
Time of Day Inspected	9:50 am	Weather (	Conditions	FSOF = Sumy
Vehicles Observed	P	isogal re	hicles.	
LIVE LOAD BEHAVIO	R			
Substructure	YES NO	<u> </u>	_	Comments
Horiz./ Vert. Defl.	. () (° <u>)</u>	ý		
Vibration	() ()	-	<u> </u>	
Superstructure	·			
Horiz./ Vert. Defl.	. ()(	o		
Vibration	( ) ( <u>ý</u>	0		
APPROACH	Rating			Comments
Alignment	GFPC			
Slab	GFPC			
Joints	GEPC			
Pavement	G(F) P C			
Embankment	GFPC			
Drains	GFPC			
TRAFFIC SAFETY FEA	ATURES			
MAITIO OAILITIL	Rating	STANDARD/S	UB-STANDAI	<del></del>
· Bridgerailing	G F C	( )	(X) _	See 3.2
Transitions	GFPC	( )	( ) _	
Guardrail	GFPC	( )	() -	
Guardrail Terminal	G (F) P C	( )	(X) _	
SIGNING		YES NO	NEEDED	Weight Limit Posted
Paddleboards		( <b>X</b> ) ( )	( )	YES $(\chi)$ NO()
Vertical Clearance (	<14'-6")	( ) (\(\forall \)	( )	Gross Tons
NARROW ( )		() ()	( )	2 Axle <u>40</u> Tons
ONE LANE BRIDGE	≣ ( )	() (X)	( )	3 or more Axles <u>40</u> Tons
Other Signs or Plaq	ues:	None		
Comments Regardi				
Problems with Signi				
			.,	

(Rev. 9-22-98) DT-0081	Bridge Location No.	38 		- 3.47 Log Mile	Date
DECK	Rating			Commer	nts
Wearing Surface	G ∕F) P	С			
Deck - Structural Condition	GFP	С			
Curbs	<b>G</b> F ₽	С			
Median	ĞFP	С			
Sidewalks	GFP	С			
Parapet	GFP	С		San #	Lt (240)
Railing	GF(P	) C		15 CV 11	1 27 (290)
Paint	GFP	C		Alk dais	y (U43)
Drains	G F (P	/c	•	7114 2141	<u> </u>
Lighting Standards	GFP	С	•		
Utilities	GFP	С			
Joint Leakage	GFP	С	•		
Expansion Joints	GFP	С		· · · · · · · · · · · · · · · · · · ·	
SUPERSTRUCTURE					
Bearing Devices	GFP	С			
Beams	GFP	С		<del> </del>	
Girders	GFP	С			
PCCS	G (F) P	С			
BOLTS (PCCS)	(G) F P	С			
Floor Beams	G F P	С			
Stringers	GFP	С			
Diaphragms	GFP	С			
Bracing	GFP	С	•		
Trusses - General	GFP	_	•		
Portals	GFP	_	•		
Bracing	GFP		•		
Paint	GFP	С	•		
Alignment of Members	(G) F P	С			
TEXTURE COAT					
-	G F P C 、		Fading	G F	PC \/
Overall Appearance			-		YES() NO()
Staining Rating	GFPC 🔨		Needs Rep		YES() NO()
Comments					Scaling Rating G F P C
RECOMMENDATIONS	S:				CLEAN SEAL JOINTS ( ) CLEAN DRAINS (X)
					<del></del>

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

Bridge Location No. 38 - SR087 - 3.47

Log Mile Route

Date \_\_\_\_

SUBSTRUCTURE			PILES T REPLA	
<u>ABUTMENTS</u>	Rating	Comments	PILE(S)	ABUTMENT
Caps	GFPC_			
Breastwall	G 阆 P C _			
Wings	G(F)PC_			
Backwall	GFPC_			
Plumb	G)FPC _			
Footing	GFPC_			
Piles	GFPC_			
Embankment	GFPC_			
Bearing	GFPC_			
Slope Paving	GFPC_			
Rip Rap	GFPC_			
Earthquake Device	sGFPC_	· · · · · · · · · · · · · · · · · · ·		
PIERS			PILE(S)	PIER
Caps	GFPC			
Columns	GFPC		<u> </u>	
Plumb	G F P C		<u> </u>	
Footings	GFPC	*** ***	<u> </u>	
Piles	GFPC			<del></del>
Bearing	GFPC		-	
Web	GFPC			
Earthquake Device	es G F P C _			
BENTS			PILE(S)	BENT
Caps	GFPC		1 122(0)	52
Columns	G F P C			<del></del>
Plumb	G F P C			
Footings	G F P C			<del></del>
Piles	GFPC			<del></del>
Bearing	G F P C		_	<del></del>
Bracing	GFPC		<del></del>	<u></u>
Earthquake Devic				
<b>D</b> "	- Naad Daulaassa	onti NO ( V VEC ( )		
	s Need Replaceme	, ,		
	r vegetation	NO(\frac{1}{2}) YES( )		
	EAR DRIFT	NO()/) YES( )		
RECOMMENDATI	ONS:			

ment is covered by 23 USC \$400
doubtion pursuant to a public
of records request does not
provisions of \$400
Form BIR 3.8
(Rev. 9-22-98)
DT-1508

 AUG 1 1 2021 Date

# STREAM CHANNEL DATA AND CONDITIONS

		Stream Crossing: BRANCH
l.	1.	Type of bed material? Sand/s//
	2.	Has channel shifted? YES ( ) NO (X) NOT APPARENT ( )
	3.	Condition of rip-rap? GFPC Est. % failed % N/A ( )
	4.	Overall condition of channel? (G) F P C
	5.	Item 61 - Code values 0 thru 9 according to the recording and coding guide currently in effect:
	6.	Underwater diver inspection recommended? YES ( ) NO (X)  If yes, why?
II.	Ch	nannel and bank stability conditions: (check if applicable)
	1.	Steep bank conditions: - Failures upstream ( ) Failures downstream
	2.	Moderate bank erosion (`)
	3.	Bank vegetation: a. low growth (x) b. large timber (x) c. clear banks () d. dead trees upstream () e. dead trees downstream ()
	4.	Sediment or gravel accumulation: YES ( ) NO (X UNKNOWN ( )
	5.	Channel altered or straightened: YES ( ) NO ( UNKNOWN ( )
	6.	Stable conditions: a. live growth (x) b. bedrock () c. boulders () d. flat slopes (<=2:1) ()
III.	Wa	aterway adequacy and debris characteristics: (check if applicable
	1.	Bridge deck elevations:
		a. level with approach roadway (💢)
		b. higher than approach roadway()
	^	c. roadway approach >= 2 ft. above natural ground line (x)  Abutment encroaches into channel
	2.	, and the state of
	3.	Large scour (blowhole) under bridge
	4.	NO() YES() OCASSIONALLY (*) FREQUENTLY() UNKNOWN()
	5.	Debris characteristics:
		a. debris/drift present  YES ( ) NO (X)  b. debris/drift likely to accumulate  YES ( ) NO (X)
		c. dead trees upstream ( ) dead trees downstream ( )
IV.	Co	omments:
	=	AL INSPECTION DATA - FOR REASONS OTHER THAN FC OR SCOUR
		pes this bridge need a special inspection? YES ( ) NO
		eason for special inspection:

Inspection Team's Summary Bridge Location No. 38 - SR087 -03.47 Inspection Date 8/11/21 Bridge Rating \_ Fair

This is a 1 span p.c.c.s. bride with metal bridge rails & 4 paddle boards.

The bridge is posted @ 40/40 ton on each approach. The asphalt approaches have up to 1/8" cracks & minor settlement.

The a/c wearing surfaces have up to 1/16" cracks.

All drains are filled with debris.

The rail on span # 1 left side has heavy collision damage. The p.c.c.s. have up to 1/8" cracks, efflorescence stains & spalling.

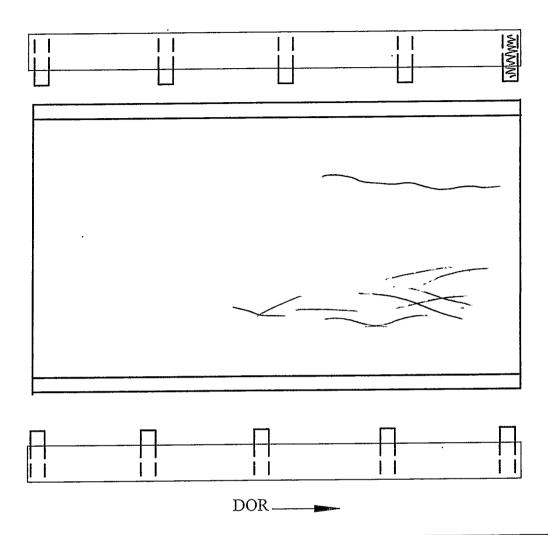
The timber substructure has light to medium weathering, splintered areas & decay.

Scour has no issues.

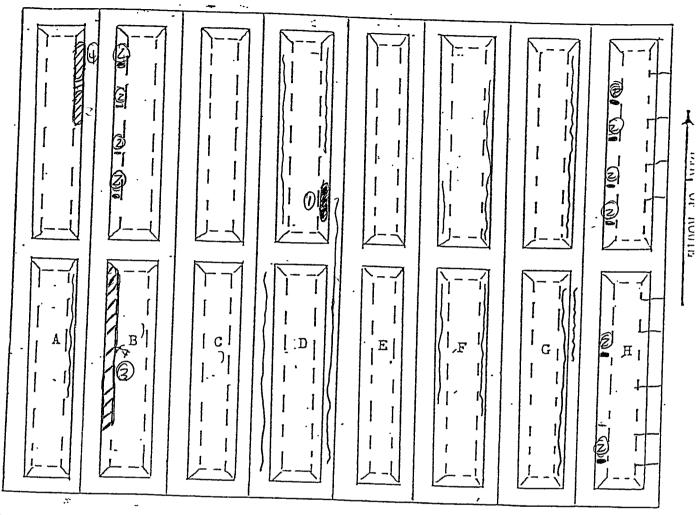
Jacob Kee INSPECTOR

CROSS SECTION: YES () NO (X) BRM: YES (X) NO () Bridge No. 38 - SR81 - 0347 Skew 90 RT.

SPAN. NO. \_\_\_\_



ELEMENT	RATING	COMMENT
TOP DECK	G(F)P C	cracks up to 1/16"
CURBS	GFPC	
RAIL & POST	G FPC	Dange, missing post
PAINT	GFPC	
DRAINS	G FPC	Filled Modebris
JOINT	GFPC	
	GFPC	



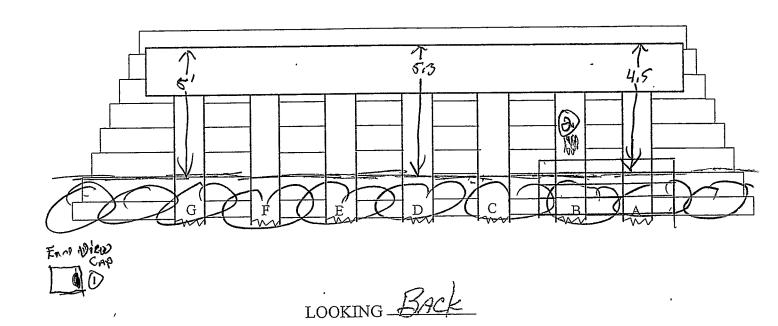
· ELEMENT · ·	DAMTING.		
· BLEAGHT · ·	RATING	CONFIENT	-
BOTTOM DECK SLAB A B C D E F G H BOLTS	© P C	Sec 4, fine cracks Sec 2,3  Sec () 1/8" crack  fine cracks fine cracks  Sec () hairlike cracks	D2'Lx4"Hx?D  Impending Space  Dupto 4"India x 1/2"D  Surface Stre!  B'Lx7"Hx11/2"D  Space to stre!  D21/2'Lx4"Hx11/2"  Space to stre!  Space to stre!
		•	

	Rev. 08/03/00					Date: \iint 🥕	11-21
	OGE NUMBER: SSING: BRAN	38S80460003	<u>38</u>	<u>SR087</u>	<u>0347</u>	Pg. # o	of
DATE	LAST EXPOSURE	ABUT/BENT/ PIER NUMBER	TOTAL H. TOP OF ( (OR GROU DATE FOR	CAP TO IND LINE/	(t) FOOTING THICKNESS	W/FTG @ H= TOP OF CAP TO TOP OF FOOTING	EXPOSURE
-	5.0'	A-1					5,3'
_					, <u>, , , , , , , , , , , , , , , , , , </u>		6.5
_	5.1'	A-2					
_	A				*******		
_				_			
_							
_							
_							
_							
-							
_							
				•			
•							
•		TOP OF CAP TO	O TOP OF V	VATER:		AP: YES: (yc) NO:	
		100.00' UPSTR			- @ PE	BUTMENTS: 145	
		THRU STRUCT			@ BENTS/PIERS:		
•		100.00' DOWN	STHEAM:			OWNSTREAM [ HRU STRUCTURE [	<u> </u>
COMM	MENTS:				'	INTO STRUCTORE [	

38 87 - 3.47

Bridge No. Co. Route Log Mile

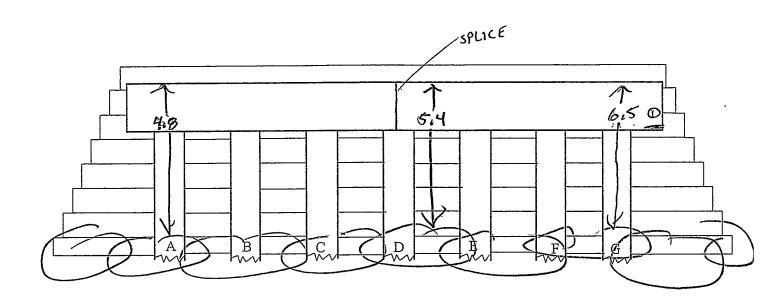
AUG 1 1 2021 ABUT. NO. \_\_\_\_



ELEMENT	RATING	COMMENT
CAP	Ġ 🗗 P C	light to Med Weathering seed O Decay Area 1/4 x 1/2 x 1/8 / Splinter 1/4 x 8/6 x 1/8/6
WINGS	G(F) P C	(Spinoreic /4)
PILES A	GFPC	
В	G <b>()</b> P C	
С	G∕F) P C	
D	G P C	
E	GFP C	
F	G(F) P C	SER (2)
G	G(F)PC	
RIP - RAP	GFPC	
EMB.	<b>⊘</b> FPC	
VEG.	G ₽ P C	MEL
BREASTWALL	GÔPC	lisht to med weathering
Ret. Wall —	G DP C	
	GFPC	•

38 87 3.4 / Bridge No. Co. Route Log Mile

ABUT. NO. AUG 1 1 2021



LOOKING Ahead

ELEMENT	RATING	COMMENT
CAP WINGS PILES A B C D E F	GPPC GPPC GFPC GFPC GFPC GFPC	1:, ht to mad weathering seat Dsglinter  7/24/0  5/2
RIP - RAP EMB. VEG. BREASTWALL	GFPC GFPC GFPC GFPC	med weathering

38S80460003 38 SR087 0347 SKEW: 90

BRIDGE NO.: CO. ROUTE L.M. L/R

Direction of Route

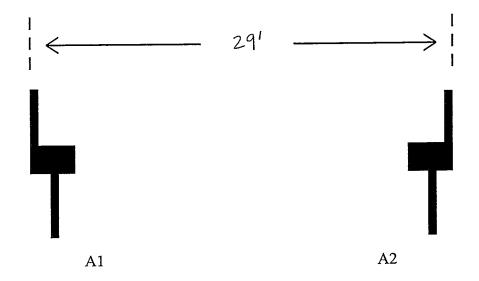
A1 A2

F = FIXED

E = EXPANSION

S = SIMPLE

C = CONTINUOUS



## Your Agency Name

# Your Office Name Your Department Name

# Structure Inventory and Appraisal Sheet (English Units)

Str Unit	Elm/Env	Description	Unit	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4
0	16/3	Re Conc Top Flange	sq.ft	841.00	100%	841.00	0%	0.00	0%	0.00	0%	0.00
0	510/3	Wearing Surfaces	sq.ft	812.00	75%	612.00	25%	200.00	0%	0,00	0%	0.00
0	3220/3	Crack (Wearing Surface)	sq.ft	200,00	0%	0.00	100%	200.00	0%	0.00	0%	0.00
0	116/3	Re Conc Stringer	ft	232.00	36%	84.00	64%	148.00	0%	0.00	0%	0.00
0	1080/3	Delamination/Spall/Patched Area	ft	2.00	0%	0.00	100%	2.00	0%	0.00	0%	0.00
0	1090/3	Exposed Rebar	ft	21.00	0%	0.00	100%	21,00	0%	0.00	0%	0.00
0	1120/3	Efflorescence/Rust Staining	ft	50.00	0%	0.00	100%	50.00	0%	0.00	0%	0.00
0	1130/3	Cracking (RC and Other)	ft	75.00	0%	0.00	100%	75.00	0%	0.00	0%	0.00
0	216/3	Timber Abutment	ft	58.00	95%	55.00	5%	3.00	0%	0.00	0%	0.00
0	1140/3	Decay/Section Loss	ft	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00
0	1170/3	Split/Delamination (Timber)	ft	2.00	0%	0.00	100%	2.00	0%	0.00	0%	0.00
0	330/3	Metal Bridge Ralling	ft	58.00	98%	57.00	2%	1.00	0%	0.00	0%	0.00
0	7000/3	Damage	ft	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00