

Bridge Maintenance Recommendations



Page No. _____
Page 1 of 1

Bridge Location No.: **49 - SR087 - 0518**

Co. Route Log Mile

Bridge Number: **49SR0870013**

Over/Underpass
No:

Crossing: BRANCH

Road Name:

Road Name #2:

Bridge Rating: POOR

Inspection Cycle: 26 County: LAUDERDALE

Inspection Date: 11/10/2021 City:

Region: 04
District: 49 Spec.Cas -0-
Maint.Resp 02 Co.Seq: 01

Pipes:

G.P.S.:

N35 38.1650

W89 48.3950

Comments:

Barrels Length Width

11-22-21 REPAIRED PILES G & H AT BENT 1, BREASTWALL AT BOTH ABUTMENTS AND WINGWALL
AT ABUTMENT 1 (HB)

RECOMMENDATIONS:

Maintenance Completed: by/date

023	REPLACE MISSING LOAD-LIMIT SIGN AT APPROACH NO. _1
141	REPAIR OR REPLACE _TIMBER_ PILES _G & H_ AT BENT NO. _1 (repaired 11-22-21)

SUGGESTED ROUTINE MAINTENANCE:

238	BRIDGERAILS ARE SUBSTANDARD
229	APPROACH GUARDRAILS ARE NON-EXISTENT
241	REPLACE PRECAST CONCRETE CHANNEL SLAB _B_ IN SPAN NO. _1
167	REPAIR _TIMBER_ BREASTWALL AT ABUTMENT NO. _1 & 2 (repaired 11-22-21)
154	REPAIR WINGS AT ABUTMENT NO. _1 (repaired 11-22-21)
204	CUT VEGETATION

COMMENTS:

Bridge Loc. No: 49 - SR087 - 05.18 Date: 11-30-21



REPAIRED PILES "G" & "H" IN BENT #1



REPAIRED PILES "G" & "H" IN BENT #1

Bridge Loc. No: 49 - SR087 - 05.18 Date: 11-30-21



REPAIRED PILES "G" & "H" IN BENT #1



REPAIRED BREASTWALL & WING AT ABUTMENT #1 & BREASTWALL AT ABUTMENT #2

Bridge Loc. No: 49 - SR087 - 05.18 Date: 11-30-21



REPAIRED BREASTWALL & WING AT ABUTMENT #1 & BREASTWALL AT ABUTMENT #2



REPAIRED PILES "G" & "H" IN BENT #1

Bridge Loc. No: 49 - SR087 - 05.18 Date: 11-30-21



REPAIRED PILES "G" & "H" IN BENT #1



REPAIRED PILES "G" & "H" IN BENT #1

Bridge Loc. No: 49 - SR087 - 05.18

Date: 11-30-21

Bridge Maintenance Recommendations Page No. 22
Page 1 of 1

Bridge Location No.: 49 - SR087 - 05.18 Bridge Number: 49SR0870518

Crossing: BRANCH County: LAUDERDALE

Road Name: District: 04

Bridge Rating: POOR Main Span: 02

Inspection Cycle: 24 Piers: 01

Inspection Date: 11/10/2021 Bents: 01

G.P.S.: Comments:

WES 48 3050 Maintenance Completed: 11/22/21

RECOMMENDATIONS:
223 REPLACE MISSING LOAD-LIMIT SIGN AT APPROACH NO. 1
141 REPAIR OR REPLACE TIMBER PILES G & H AT BENT NO. 1 11/22/21

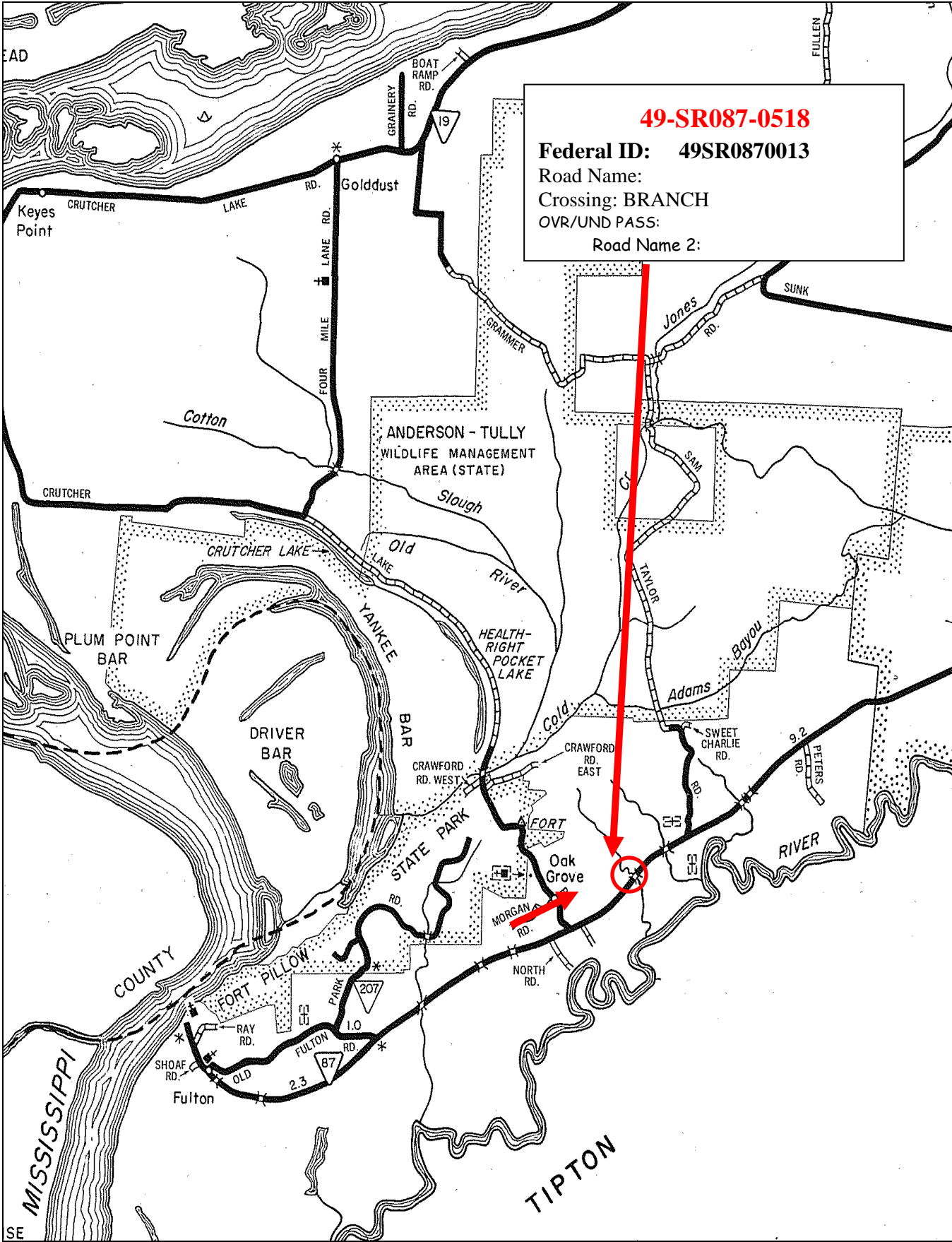
SUGGESTED ROUTINE MAINTENANCE:

238 BRIDGE RAILS ARE SUBSTANDARD
229 APPROACH GUARDRAILS ARE NON-EXISTENT
241 REPLACE PRECAST CONCRETE CHANNEL SLAB B IN SPAN NO. 1
167 REPAIR TIMBER BREASTWALL AT ABUTMENT NO. 1 & 2
154 REPAIR WINGS AT ABUTMENT NO. 1
204 CUT VEGETATION

COMMENTS: 1. Repaired piles G & H in Bent #1.
2. Repaired breastwall at abutment #1 & 2
3. Repaired wingwall at abutment #1 Completed 11/22/21
H.B.

RECOMMENDATIONS SHEET

LAUDERDALE COUNTY



BRIDGE MAINTENANCE RECOMMENDATIONS



Tennessee Department
of Transportation

COUNTY: LAUDERDALE
LOCATION: 49-SR087-05.18-
CO. SEQ.: 1 SPEC. CASE: 0

CROSSING: BRANCH
FED. BRIDGE NO.: 49SR0870013
MAINT. DIST.: 49

REPAIR LIST NO.: 3
DATE ADDED: 05/01/2014
REVISED: 11/10/2021

FACILITY CARRIED:	FAS 87	NUMBER OF MAIN SPANS:	3
HIGHWAY SYSTEM:	05-STP RURAL, STATE	NUMBER OF APPROACH SPANS:	0
BRIDGE WIDTH (CURB TO CURB):	27 FT 10 IN	BRIDGE LENGTH (FT):	53
BRIDGE WIDTH (OUT TO OUT):	28 FT 10 IN	MAXIMUM SPAN LENGTH (FT):	17
APPROACH ROADWAY (W/SHOULDERS):	25 FT 11 IN	SKEW ANGLE (DEGREES):	90
MAINTAINED BY: STATE HIGHWAY AGENCY			
MAIN SPAN MATERIAL: CONCRETE			
MAIN SPAN DESIGN TYPE: CHANNEL BEAM			
APPROACH SPAN MATERIAL: OTHER OR NOT APPLICABLE			
APPROACH SPAN DESIGN TYPE: OTHER OR NOT APPLICABLE			
INSPECTION DATE:	11/10/2021	GENERAL CONDITION:	POOR
EVALUATION DATE:	03/17/2020	STRUCTURALLY DEFICIENT:	NO
PPRM PIN NUMBER:			
H TRUCK RATING @ INV.:	17 TONS	SUFFICIENCY RATING:	66.9

No.	RECOMMENDATIONS	REPAIR DATE	REPAIRED BY
1.	REPLACE MISSING WEIGHT POSTING SIGN		
2.	REPAIR OR REPLACE PILES "G & H" AT BENT NO.1		

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS
REPAIR OR REPLACE PRECAST CONCRETE CHANNEL SLAB "B" IN SPAN NO.1
REPAIR BREASTWALL AT ABUTMENT NO.1 & 2
REPAIR RIGHT WINGWALL AT ABUTMENT NO.1
CUT AND REMOVE VEGETATION FROM CHANNEL
APPROACH GUARDRAILS ARE NON-EXISTENT
BRIDGERAILS ARE SUBSTANDARD

GENERAL COMMENTS:



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 11/12/2021

Bridge Number: 49SR08700131
(Includes Item 5A)
Feature Intersected: BRANCH
Evaluation Status: CONDITION ITEM CHANGE

County: 49
Route: SR087
Special Case: 0
County Sequence: 1
Log Mile: 5.18

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	CONDITION CODING GUIDELINES
90	LAST INSPECTION DATE	<u>11/10/2021</u>	(Values for Coding Items 58, 59, 60 and 62)
	EARLIEST DATE OF NEXT REGULAR INSPECTION	<u>09/11/2023</u>	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	<u>99</u> FT. <u>99</u> IN.	N NOT APPLICABLE
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	<u>99</u> FT. <u>99</u> IN.	9 EXCELLENT CONDITION
36	TRAFFIC SAFETY FEATURES		8 VERY GOOD CONDITION - NO PROBLEMS NOTED.
	Br. Rail Trans. Appr. Rail Terminal SPEED LIMIT	<u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>55</u>	7 GOOD CONDITION - SOME MINOR PROBLEMS.
41	STRC OPEN/CLOSED/POSTED	<u>P</u>	6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
	A K P	<u></u>	5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
58	DECK	<u>7</u>	4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
59	SUPERSTRUCTURE	<u>5</u>	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.
60	SUBSTRUCTURE	<u>4</u>	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.
61	CHANL/CHANL PROTECTION	<u>6</u>	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.
62	CULVERT AND RETAIN WALL	<u>N</u>	0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
71	WATERWAY ADEQUACY	<u>6</u>	
72	APPROACH RDWY ALIGNMENT	<u>8</u>	
521	OVERALL CONDITION	<u>POOR</u>	
16	LATITUDE	<u>N 35° 38.1650'</u>	
17	LONGITUDE	<u>W 89° 48.3950'</u>	
TEAM LEADER SIGNATURE		REVIEW DATE	

Bridge Loc. No: 49-SR087-05.18 Date: 11-10-21



BRIDGE NUMBER



APPROACH # 1

Bridge Loc. No: 49-SR087-05.18 Date: 11-10-21



TOP DECK LOOKING FORWARD



DIRECTION OF ROUTE

Bridge Loc. No: 49-SR087-05.18 Date: 11-10-21



APPROACH # 2



OPPOSITE DIRECTION OF ROUTE

Bridge Loc. No: 49-SR087-05.18

Date: 11-10-21



APPROACH # 2 WEIGHT LIMIT SIGN



ABUTMENT # 1

Bridge Loc. No: 49-SR087-05.18 Date: 11-10-21



BENT # 1 LOOKING FORWARD



BENT # 2 LOOKING FORWARD

Bridge Loc. No: 49-SR087-05.18 Date: 11-10-21



BENT # 1 LOOKING BACK



SPAN # 2 BOTTOM DECK

Bridge Loc. No: 49-SR087-05.18 Date: 11-10-21



ABUTMENT # 2



BENT # 2 LOOKING BACK

Bridge Loc. No: 49-SR087-05.18 Date: 11-10-21



ABUTMENT # 2



RIGHT ELEVATION

Bridge Loc. No: 49-SR087-05.18 Date: 11-10-21



LOOKING LEFT UP STREAM



LEFT ELEVATION

Bridge Loc. No: 49-SR087-05.18 Date: 11-10-21



SPAN # 1 SLAB "B" SPALL TO STEEL



BENT # 2 PILE "A" ALIGNMENT

Bridge Loc. No: 49-SR087-05.18 Date: 11-10-21



ABUTMENT # 1 BREAST BOARD DECAYED



ABUTMENT # 2 BREAST BOARD DECAYED

NOV 10 2021

BRIDGE INSPECTION REPORT

Form BIR 3.0
(Rev. 9-22-98)
DT-0069

Field Report No.: 26

Date: 11-10-21

Previous Report No.: 25

Date: 11/6/20

Co. Seq 01 Plans: YES () NO ()

Bridge No. 49SR0870013 Bridge Location No. 49 - SR087 - 0518

Eleven Digit No.

Co. Route Log Mile

OVER/UNDER PASS

BRANCH

Road Name

Feature Intersected

CITY

Year Constructed 1925

County Lauderdale Maint. Dist: 49 Maint. Resp: 02

Year Widened _____ Year Rehabilitated _____

Structure Name (If Named)

FEATURES

Wearing Surface Concrete () Timber () Asphalt (X) Depth 3" (in.)

Flared Width Yes () No (X) Median Width Open () None (X) Closed ()

Navigational Control Yes () No (X) Bridge Skew 90 ° LT () RT ()

Structure Type (Main Span) P. C. C. S.

Structure Type (Appr. Spans) _____

No. Main Spans 3 No. Approach Spans _____

Maximum Span Length 18.0 (**. * ft.)

Total Length 52.0 (**. * ft.)

INSPECTORS

1. Young TL
2. Brown
3. Bedford
4. Coughlin
5. Seager
6. McNeal
7. _____
8. _____

WIDTHS (*. * ft.)

Deck Out-to-Out 28.1

Roadway Curb/Curb 27.2

Roadway Rail/Rail _____

Sidewalk Rt. _____ Lt. _____

*Approach Roadway 20.0

*(Does Not Include Shoulders)

Approach Shoulder Rt. 4.0

Lt. 4.0

CLEARANCES

Min. Vertical Clearance over Deck _____ (ft.-in.)

Min. Vertical Under Clearance _____ (ft.-in.)

Min. Lateral Under Clearance Rt. _____ (*. * ft.)

Min. Lateral Under Clearance Lt. _____ (*. * ft.)

FRACTURE CRITICAL: _____

(If Yes, Include BIR 3.9)

NBIS Bridge Length (<25 ft.) _____ (ft.-in.)

UNDERWATER INSPECTION

To Be Performed By: _____ Date _____

DOT FIELD TEAM () CONTRACT DIVERS () NONE REQUIRED (X)

Change in Structural Condition: Yes () No (X)

Major Repairs Made: Yes () No (X)

COMMENTS:

LATITUDE: N35 ° 38.1650 '

LONGITUDE: W89 ° 48.3950 '

G.P.S. Location

BRIDGE RATING: () () (X) ()

GOOD FAIR POOR CRITICAL

Supervising Bridge Inspector: _____

Richard Young

NOV 10 2021

Form BIR 3.1

(Rev. 9-22-98)

DT-0080

Bridge Location No. 49 - SR087 - 0518

Co. Route Log Mile

Date _____

PERFORMANCE EVALUATION

Time of Day Inspected 2:05 PM Weather Conditions Partly Cloudy 77°

Vehicles Observed All Types

LIVE LOAD BEHAVIOR

Substructure	YES	NO	Comments
Horiz./ Vert. Defl.	()	(X)	
Vibration	()	(X)	
Superstructure			
Horiz./ Vert. Defl.	()	(X)	
Vibration	()	(X)	

APPROACH

	Rating	Comments
Alignment	G F P C	
Slab	G F P C	
Joints	G F P C	
Pavement	G F P C	
Embankment	G F P C	
Drains	G F P C	

TRAFFIC SAFETY FEATURES

	Rating	STANDARD/ SUB-STANDARD	Comments
Bridgerailing	G F P C	() (X)	
Transitions	G F P C	() ()	None
Guardrail	G F P C	() ()	
Guardrail Terminal	G F P C	() ()	

SIGNING

	YES	NO	NEEDED	Weight Limit Posted
Paddleboards	(X)	()	()	YES (X) NO ()
Vertical Clearance (<14'-6")	()	(X)	()	Gross..... 40 Tons
NARROW ()	()	(X)	()	2 Axle..... Tons
ONE LANE BRIDGE ()	()	(X)	()	3 or more Axles.. Tons

Other Signs or Plaques: _____

Comments Regarding any
Problems with Signing: _____

APP-227
any
(023) (1-)

NOV 10 2021

Form BIR 3.2

(Rev. 9-22-98)

DT-0081

Bridge Location No. 49 - SR087 - 0518
Co. Route Log Mile

Date _____


DECK

	Rating				Comments
Wearing Surface	G	F	P	C	
Deck - Structural Condition	G	F	P	C	See PCCS
Curbs	G	F	P	C	
Median	G	F	P	C	
Sidewalks	G	F	P	C	
Parapet	G	F	P	C	
Railing	G	F	P	C	
Paint	G	F	P	C	
Drains	G	F	P	C	
Lighting Standards	G	F	P	C	
Utilities	G	F	P	C	
Joint Leakage	G	F	P	C	
Expansion Joints	G	F	P	C	

SUPERSTRUCTURE

Bearing Devices	G	F	P	C	
Beams	G	F	P	C	
Girders	G	F	P	C	
PCCS	G	F	P	C	Spew-1-B (241)
BOLTS (PCCS)	G	F	P	C	
Floor Beams	G	F	P	C	
Stringers	G	F	P	C	
Diaphragms	G	F	P	C	
Bracing	G	F	P	C	
Trusses - General	G	F	P	C	
Portals	G	F	P	C	
Bracing	G	F	P	C	
Paint	G	F	P	C	
Alignment of Members	G	F	P	C	

TEXTURE COAT

Condition Rating	G	F	P	C		Fading	G	F	P	C
Overall Appearance	G	F	P	C		Needs Spot Painting	YES () NO ()			
Staining Rating	G	F	P	C		Needs Repainting	YES () NO ()			

Comments _____ Scaling Rating G F P C

RECOMMENDATIONS: _____ CLEAN SEAL JOINTS ()

_____ CLEAN DRAINS ()

NOV 10 2021

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

Bridge Location No. 49 - SR087 - 0518
Co. Route Log Mile

Date _____

SUBSTRUCTURE

PILES TO BE
REPLACED

ABUTMENTS

	Rating	Comments	PILE(S)	ABUTMENT
Caps	G <u>(E)</u> P C			
Breastwall	G <u>(E)</u> P C	Abut 1-2 (167)		
Wings	G <u>(E)</u> P C	Abut 1-2 (154)		
Backwall	G F P C			
Plumb	G <u>(E)</u> P C			
Footing	G F P C			
Piles	G <u>(E)</u> P C			
Embankment	G <u>(E)</u> P C			
Bearing <i>Ret Wall</i>	G <u>(E)</u> P C			
Slope Paving	G F P C			
Rip Rap	G <u>(E)</u> P C			
Earthquake Devices	G F P C			

PIERS

			PILE(S)	PIER
Caps	G F P C			
Columns	G F P C			
Plumb	G F P C			
Footings	G F P C			
Piles	G F P C			
Bearing	G F P C			
Web	G F P C			
Earthquake Devices	G F P C			

BENTS

			PILE(S)	BENT
Caps	G <u>(E)</u> P C			
Columns	G F P C			
Plumb	G <u>(E)</u> P C			
Footings	G F P C			
Piles	G F <u>(E)</u> C	Bent 1 - G.H (141)	<u>(1)</u>	
Bearing	G F P C			
Bracing	G <u>(E)</u> P C			
Earthquake Devices	G F P C			

Piles Need Replacement:

NO () YES (X)

CUT VEGETATION

NO () YES (X) (204)

CLEAR DRIFT

NO (X) YES ()

RECOMMENDATIONS:

NOV 10 2021

Form BIR 3.8

(Rev. 9-22-98)

DT-1508

Bridge Location No. 49 - SR087 - 0518

Co. Route Log Mile

Date _____

STREAM CHANNEL DATA AND CONDITIONS

Stream Crossing: BRANCH

- I. 1. Type of bed material? Silt
2. Has channel shifted? YES () NO () NOT APPARENT ()
3. Condition of rip-rap? G F P C Est. % failed 0 % 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
6. Underwater diver inspection recommended? YES () NO (X)
If yes, why? _____

II. Channel and bank stability conditions: (check if applicable)

1. Steep bank conditions: - Failures upstream () Failures downstream ()
2. Moderate bank erosion (X)
3. Bank vegetation: a. low growth (X) b. large timber (X) c. clear banks ()
d. dead trees upstream (X) e. dead trees downstream (X)
4. Sediment or gravel accumulation: YES () NO (X) UNKNOWN ()
5. Channel altered or straightened: YES () NO (X) UNKNOWN ()
6. Stable conditions: a. live growth () b. bedrock ()
c. boulders () d. flat slopes ($\leq 2:1$) ()

III. Waterway adequacy and debris characteristics: (check if applicable)

1. Bridge deck elevations:
- a. level with approach roadway. (X)
- b. higher than approach roadway. ()
- c. roadway approach ≥ 2 ft. above natural ground line. ()
2. Abutment encroaches into channel. ()
3. Large scour (blowhole) under bridge. ()
4. Indications that flood waters overtop bridge:
NO (X) YES () OCCASIONALLY () FREQUENTLY () UNKNOWN ()
5. Debris characteristics:
- a. debris/drift present YES () NO (X)
- b. debris/drift likely to accumulate YES (X) NO ()
- c. dead trees upstream (X) dead trees downstream (X)

IV. Comments: _____

SPECIAL INSPECTION DATA - FOR REASONS OTHER THAN FC OR SCOUR

- I. Does this bridge need a special inspection? YES () NO (X)
- II. Reason for special inspection: _____

Inspection Team's Summary

Bridge Location No. 49 - SR087 - 05.18

Inspection Date 11/10/21

Bridge Rating Poor

This is a 3 span p.c.c.s. & timber bridge in poor condition.
There are metal rails, 4 paddle board signs & a 40 ton weight
limit sign on approach # 2 left.

Approaches # 1 & 2 a/c pavements have fine cracks.

A/c wearing surface has a fine crack.

Span # 1 p.c.c.s. "b" is spalled to steel.

Bent # 1 piles "g & h" are decayed.

Abutments # 1 & 2 breast walls & abutment # 1 left wing are
decayed.

Vegetation is heavy.

Note: item # 60 has changed from a 6 to a 4 due to decayed
piles @ bent # 1.

Richard Young

INSPECTOR

CROSS SECTION: YES (X) NO () BRM: YES (X) NO ()

No change

NOV 10 2021

GROUND ELEVATIONS

FEDERAL NUMBER ----- 49SR0870013
BRIDGE NO. ----- 49-SR087-05.21¹⁹
CROSSING ----- BRANCH
NUMBER OF PIERS ----- 2
LOCATION OF PIERS ----- 17, 35
BENCH MARK ELEV. ----- 108
BENCH MARK LOC. ---- TOP CAP RT. A-1
WATER ELEVATION -----

DATE : 11/16/2000
N/C 7/7/08
N/C 11-18-21

INSPECTORS
BOMARS CREW

Young's Crew

DISTANCE OF 0.00 = TOP OF BANK APPROACH 1 SIDE

DISTANCE AND ELEVATIONS ARE IN STANDARD MEASUREMENT

UPSTREAM GROUND ELEVATION @ EDGE OF BRIDGE

11/16/2000	
Distance from B.M.	Elevation
0	103.2
4	89.3
17	84
35	85
48	91.2
52	103.2

NOV 10 2021

BRIDGE NO. -----

49-SR087-05¹⁹

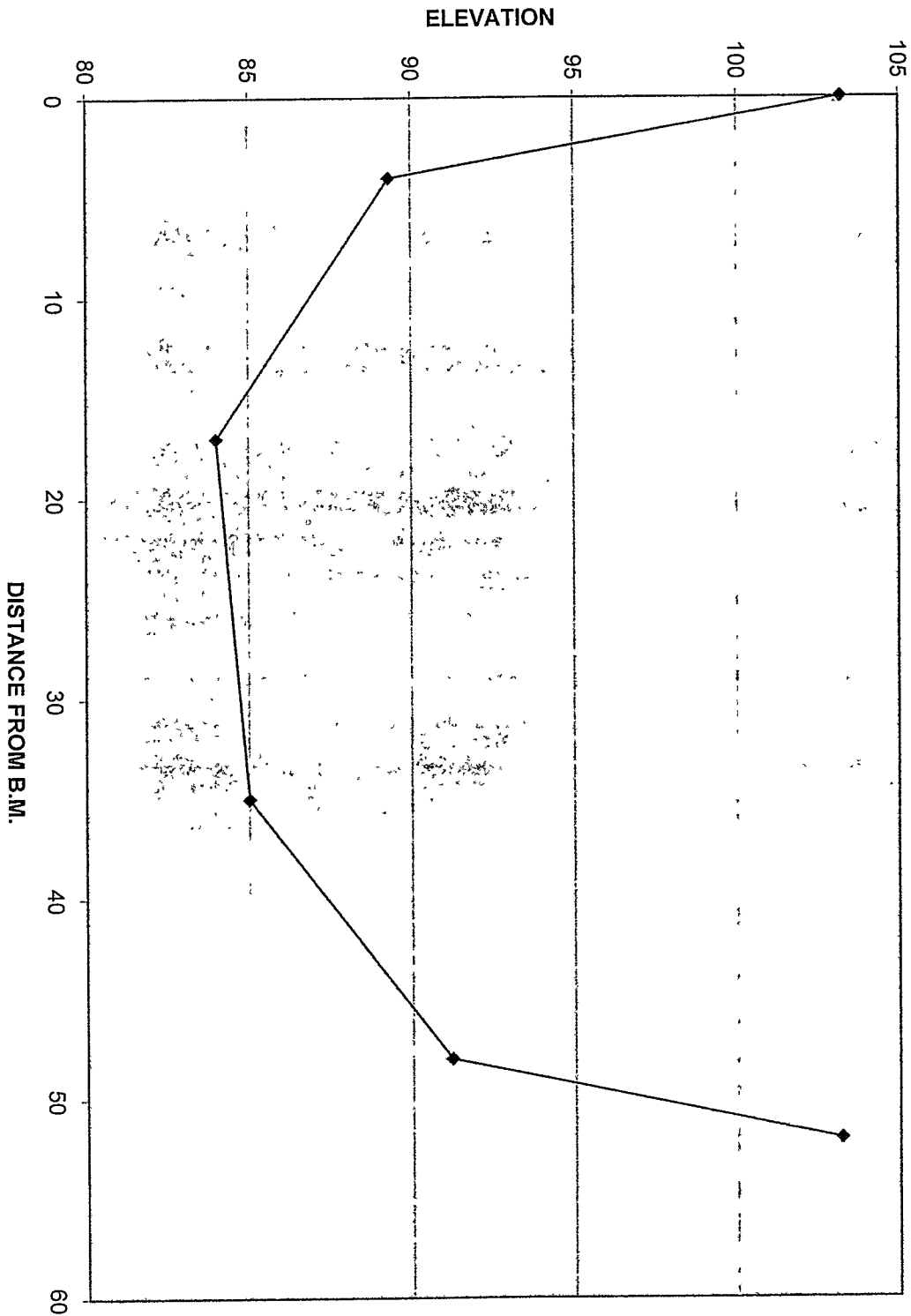
DATE : 11/16/2000

DOWNSTREAM GROUND ELEVATION @ EDGE OF BRIDGE

11/16/2000	
Distance from B.M.	Elevation
0	103.2
4	88.2
17	83.7
35	86.3
48	93
52	103.2

NOV 10 2021

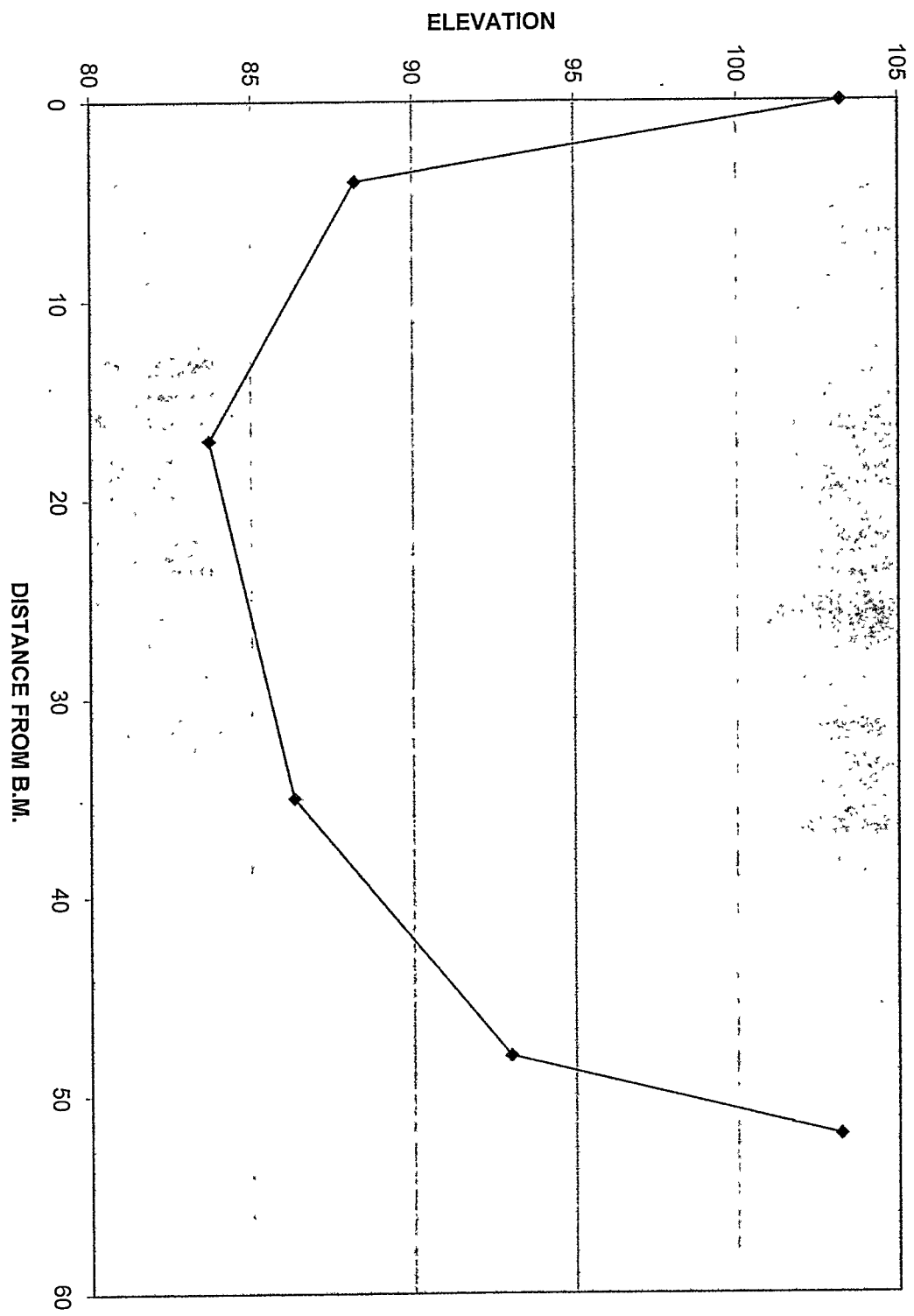
49SR0870013 UPSTREAM D.L.



—◆— 11/16/2000
N/C 7/7/08

NOV 10 2021

49SR0870013 DOWNSTREAM D.L.



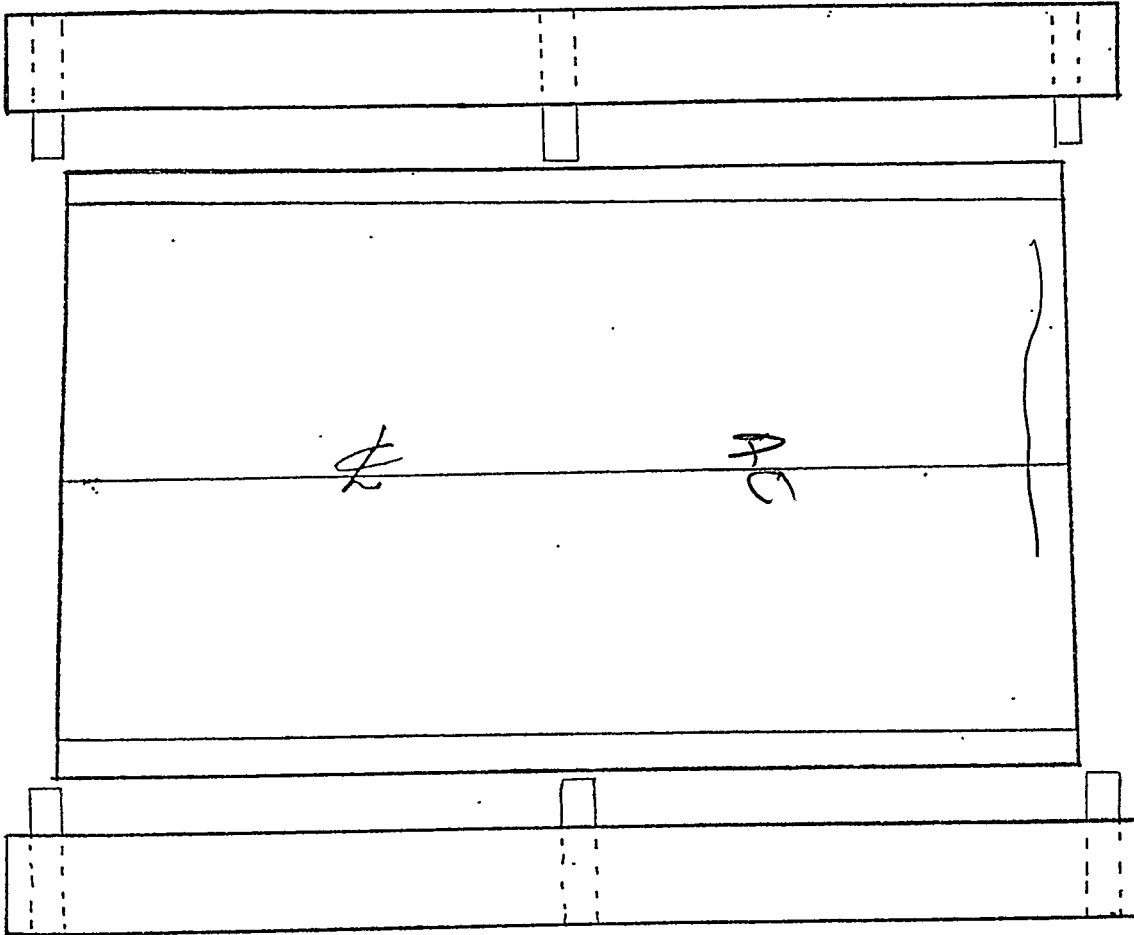
11/16/2000
N/C 7/7/08

NOV 10 2021

BRIDGE NO. 49 87 54

SPAN NO. 1

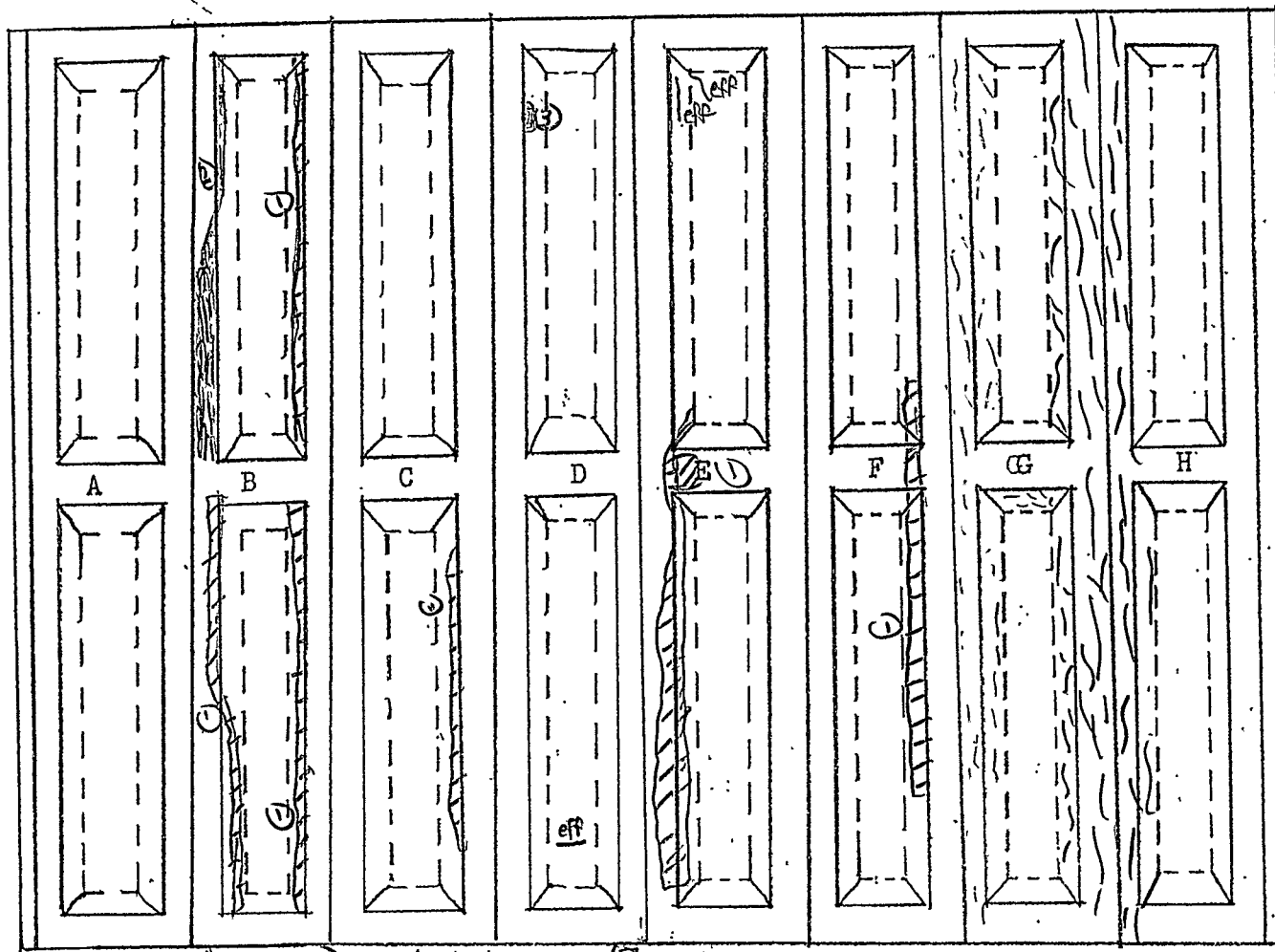
DIR. OF ROUTE →



ELEMENT	RATING	COMMENTS
TOP DECK	G <u>F</u> P C	Five Cracks
RAIL & POST	G <u>F</u> P C	Minor Collision Damage
PAINT	G <u>F</u> P C	LT-RT Sides
DRAINS	<u>G</u> F P C	Light Scaling
EXP. JOINT	G F P C	
CURBS	<u>G</u> F P C	

BRIDGE NO. 49 87 5.10

8 PRE-CAST CONC. SLABS



① up to impending spall 7' L x 2" H x 6" W
② Spalled steel w/ 6' L x 4" W x 2" D
③ Spall in 4" H x 3" L x 1/16" D
6-1090 42-1080
410-1122

ELEMENT	RATING	COMMENT
SLAB A	G F P C	
B	G F P C	Spall in see ①②
C	G F P C	Spall in see ①
D	G F P C	Spall in see ③ + hairline crack w/eff
E	G F P C	Spall in see ① + hairline cracks w/eff
F	G F P C	Spall in see ①
G	G F P C	hairline cracks w/eff
H	G F P C	" " "
BOLTS	G F P C	Some bolts have medium corrosion

NOV 10 2021

BRIDGE NO.

49

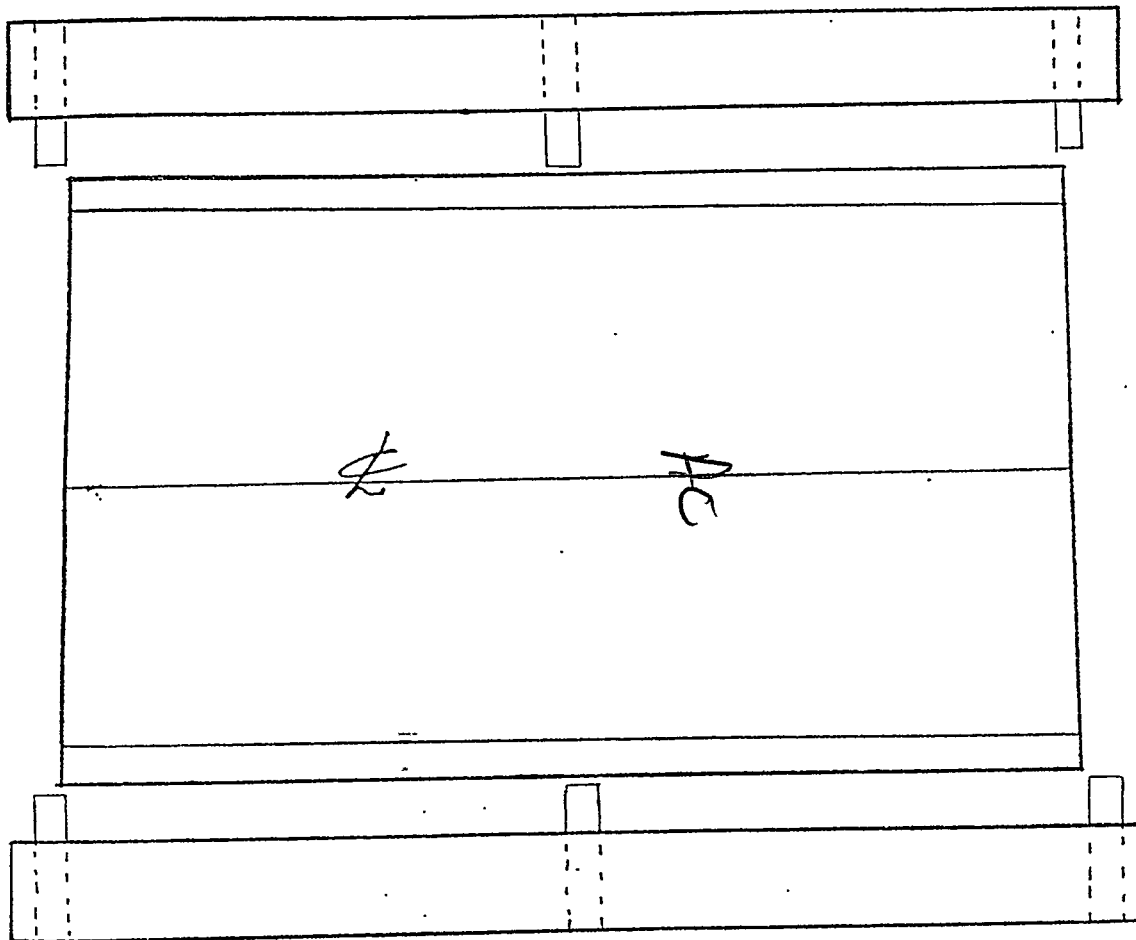
87

SE

SPAN NO.

2

DIR. OF ROUTE



ELEMENT

RATING

COMMENTS

TOP DECK

G F P C

RAIL & POST

G F P C

PAINT

G F P C

DRAINS

G F P C

EXP.
JOINT

G F P C

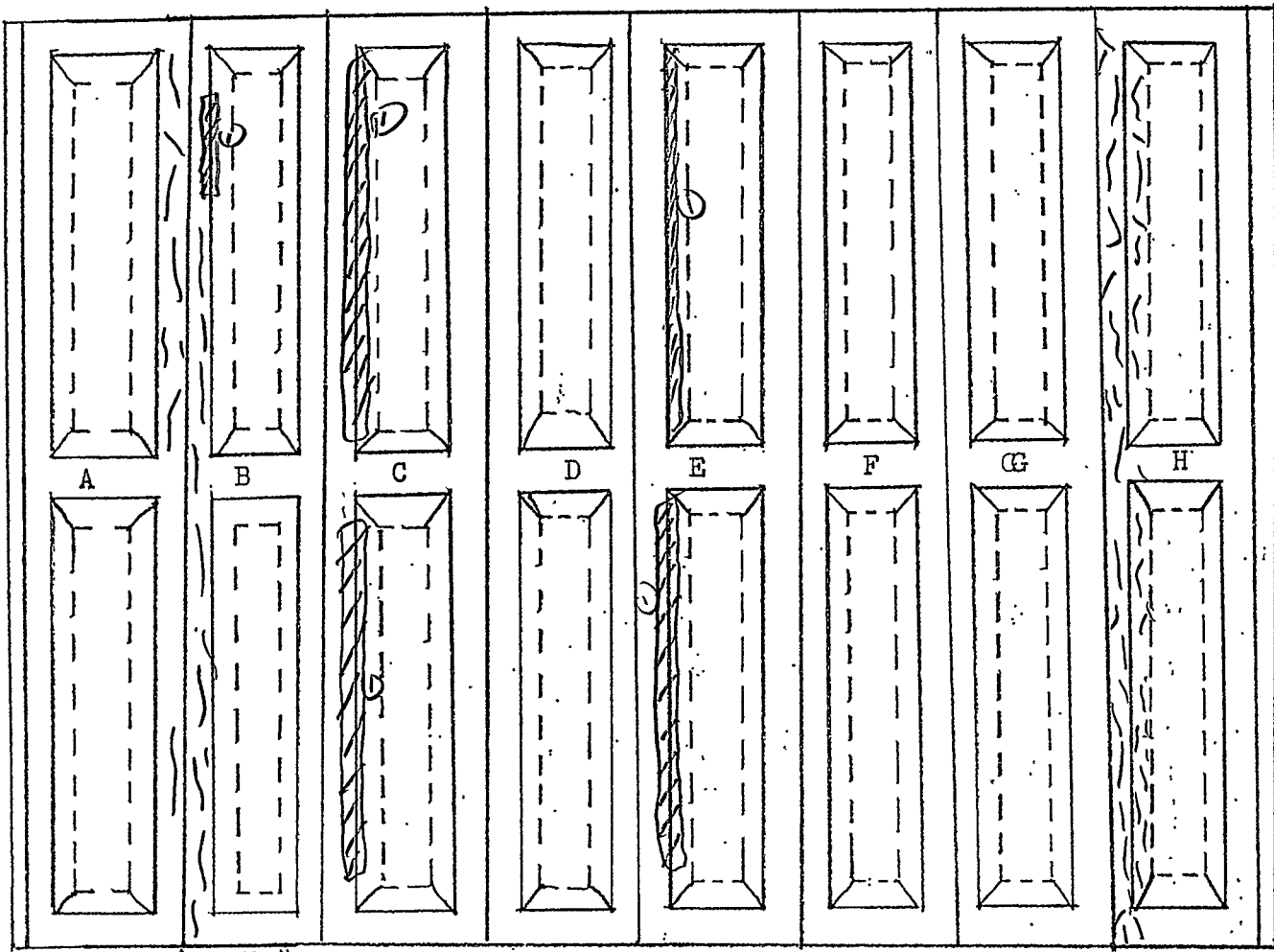
CURBS

G F P C

Minor Collision Damage LTR Side
Light Scalloping

BRIDGE NO. 49 87 5.3/8

8 PRE-CAST CONC. SLABS



① Impending Spall
up to 7'4" x 2'4" x 5" w

35-1020
50-1120

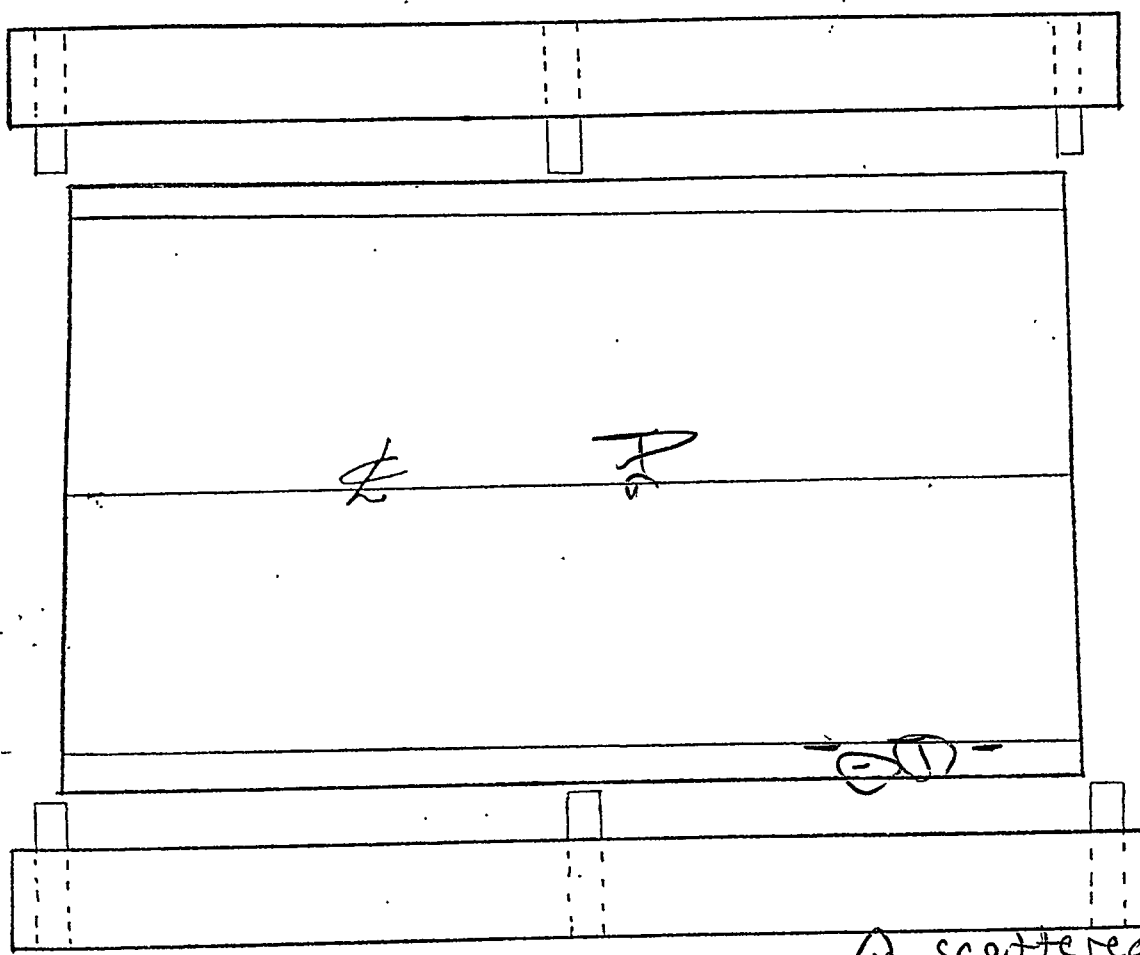
ELEMENT	RATING	COMMENT
SLAB A	(G) F P C	hairline cracks w/eff + spallin see ①
B	G (F) P C	
C	G (F) P C	Spallin see ①
D	(G) F P C	Spallin see ①
E	G (F) P C	
F	(G) F P C	hairline cracks w/eff
G	(G) F P C	
H	G (F) P C	
BOLTS	(G) F P C	

NOV 10 2021

BRIDGE NO. 49 87 5K

SPAN NO. 3

DIR. OF ROUTE →



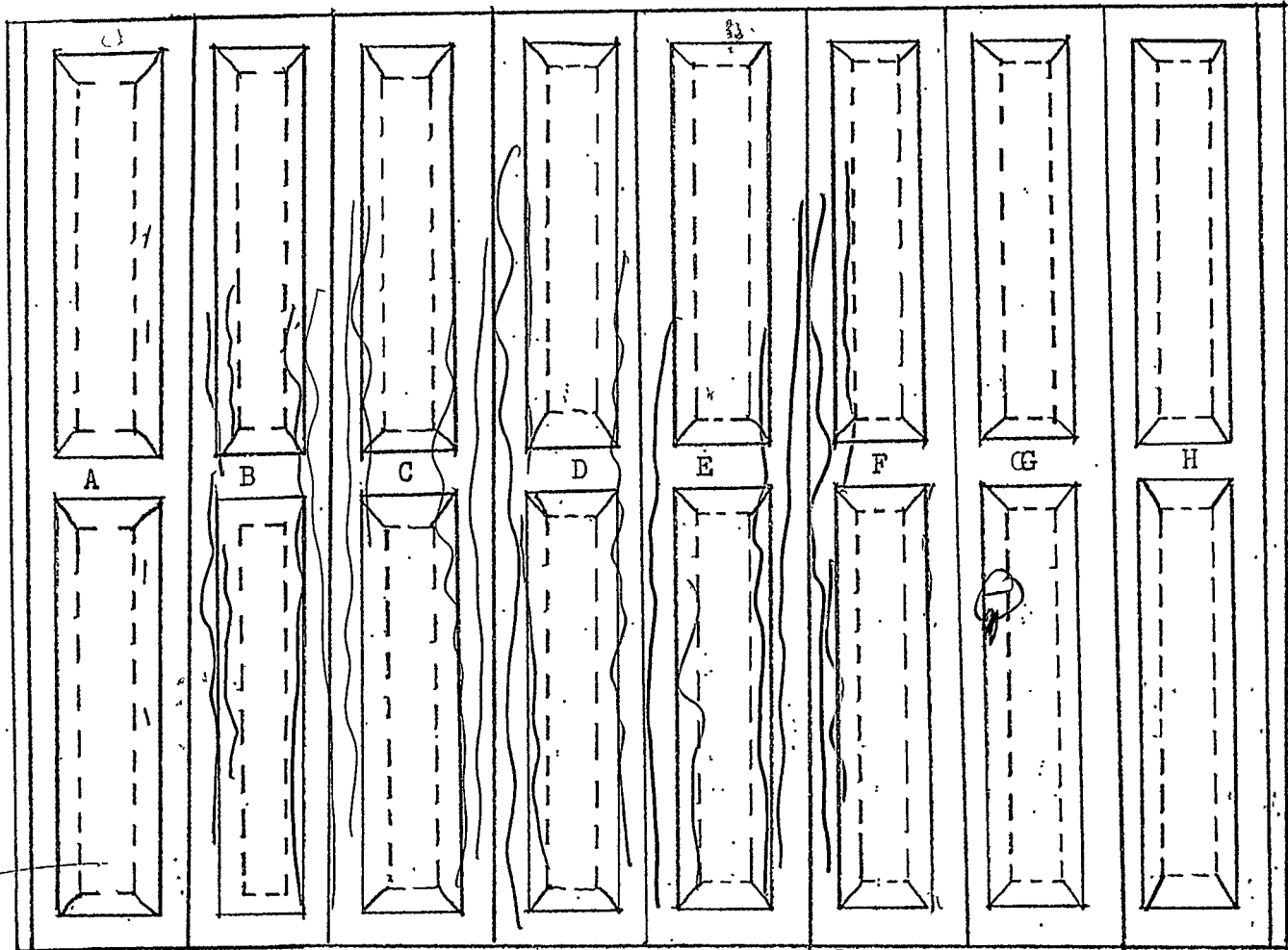
① scattered
spalling up
to 20' x 6' x 1'

ELEMENT	RATING	COMMENTS
TOP DECK	G F P C	
RAIL & POST	G <u>F</u> P C	Minor collision Damage LTRT Side & light scaling
PAINT	G <u>F</u> P C	
DRAINS	G F P C	
EXP. JOINT	G F P C	
CURBS	G F P C -	See <u>B</u>

BRIDGE NO. 49 87 51B

NOV 18 2021 NO. 3

8 PRE-CAST CONC. SLABS



① Spotted area
8" L x 3" W x 1" D

ELEMENT	RATING	COMMENT
SLAB A	G F P C	scattered potters Five to 1/4" cracks Light ERF staining see ① Five cracks Light ERF staining Five cracks Light ERF staining
B	G F P C	
C	G F P C	
D	G F P C	
E	G F P C	
F	G F P C	
G	G F P C	
H	G F P C	
BOLTS	G F P C	

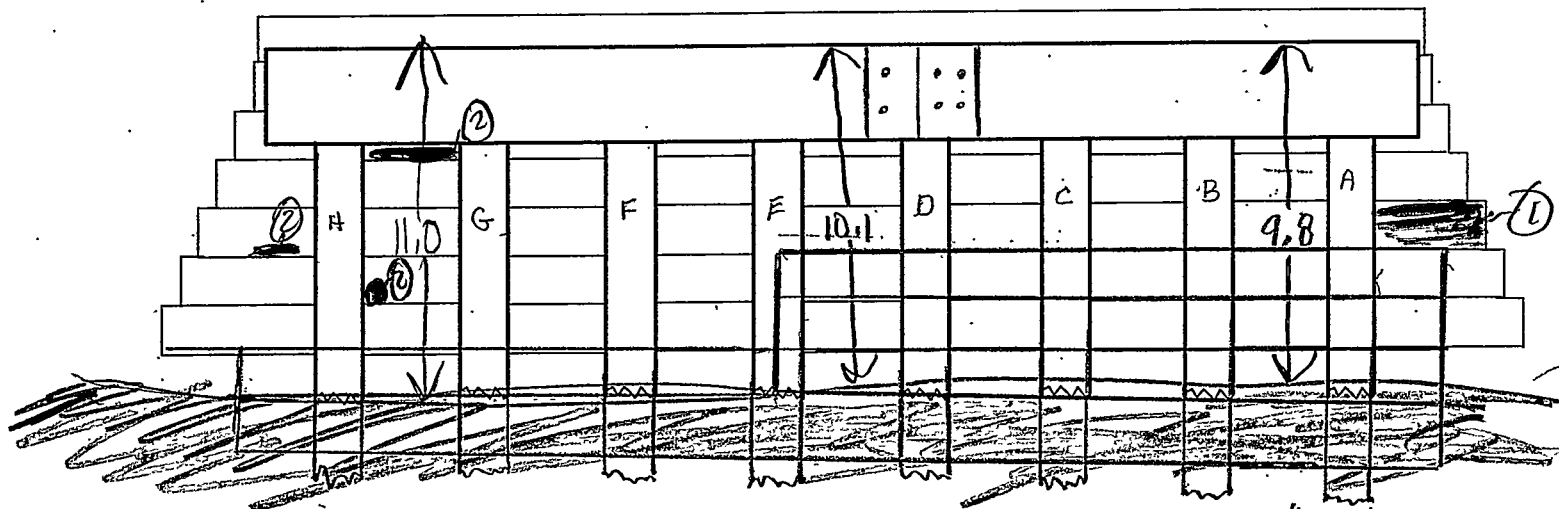
COMMENTS: _____

NOV 10 2021

49 87 5.18

Bridge No. Co. Route Log Mile

ABUT. NO. 1



① broken section on
wing 3' x 8" high

LOOKING BACK

② detected
broken
Area $2' \times 6" \times 4"$

ELEMENT	RATING	COMMENT
CAP A	G F P C	light to medium weathering
B	G F P C	
WINGS	G F (P) C	See ① + light to medium weathering
PILES A-H	G F P C	light to medium weathering
B	G F P C	
C	G F P C	
D	G F P C	
E	G F P C	
F	G F P C	
G	G F P C	
H	G F P C	
BREASTWALL	G F (P) C	See ②
EMB.	G F P C	light washing
VEG.	G F (P) C	heavy growth
RIP - RAP	G F P C	
Ret. Wall	G F P C	light to medium weathering

NOV 10 2021

① Spattered Area
 $\frac{1'}{H} \times \frac{4''}{W} \times \frac{2''}{D}$

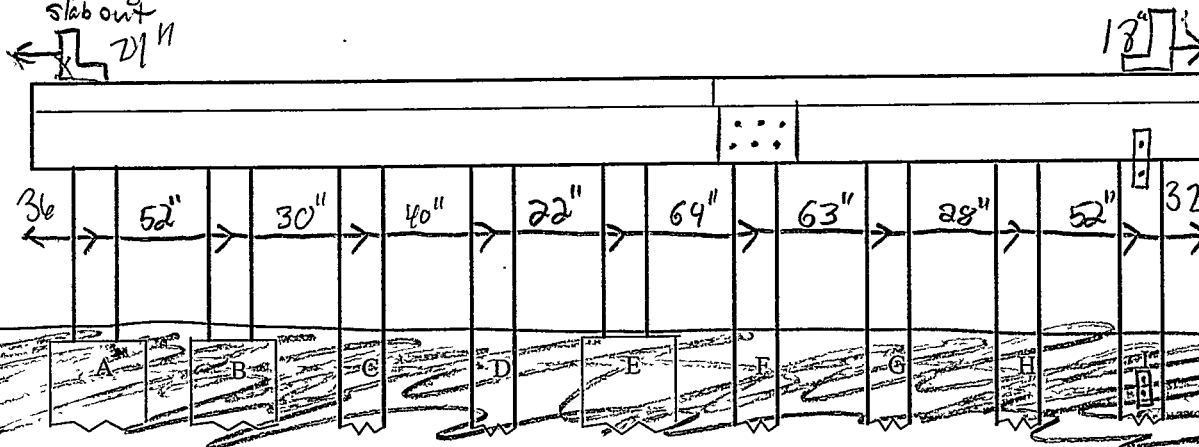
② Decay
 $\frac{1'}{H} \times \frac{8''}{W} \times \frac{4''}{D}$

③ Spattered Area
 $\frac{2'}{H} \times \frac{12''}{W} \times \frac{1''}{D}$

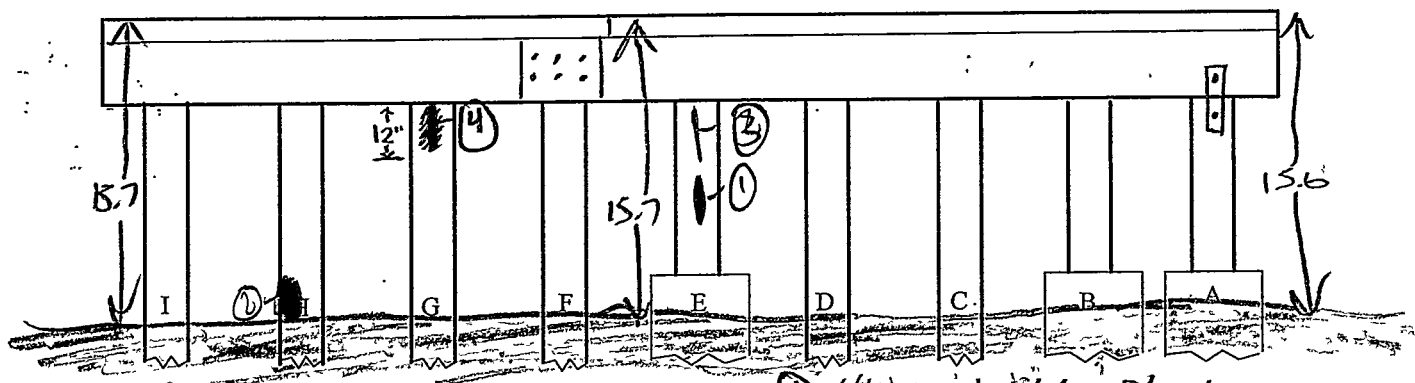
Bridge No. 49 - SR087 - 5.18

BENT. NO. 1

slab out



FRONT VIEW



REAR VIEW

④ 4 inch outside shell

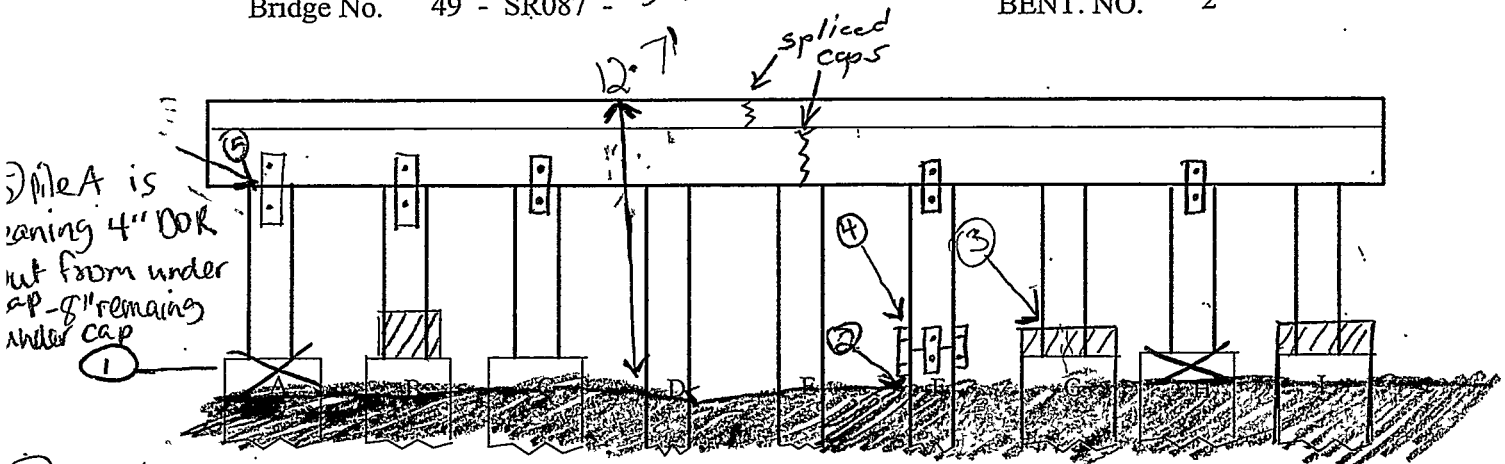
ELEMENT	RATING	COMMENT
CAP A	G (F) P C	light to medium weathering
B	G (F) P C	
PILES A 10"	G (F) P C	light to medium weathering
B 12"	G (F) P C	
C 12"	G (F) P C	
D 11"	G (F) P C	
E 11"	G (F) P C	see ① & ③
F 11"	G (F) P C	light to medium weathering
G 12"	G (F) P C	see ④
H 11"	G (F) P C	see ②
I 11"	G (F) P C	light to medium weathering
CONC. CASING	G (F) P C	
BRACING	G (F) P C	light to medium weathering
Rip-Rap	G (F) P C	Scattered

NOV 10 2021

① No conc. casing @ Pile 'A' or 'H'

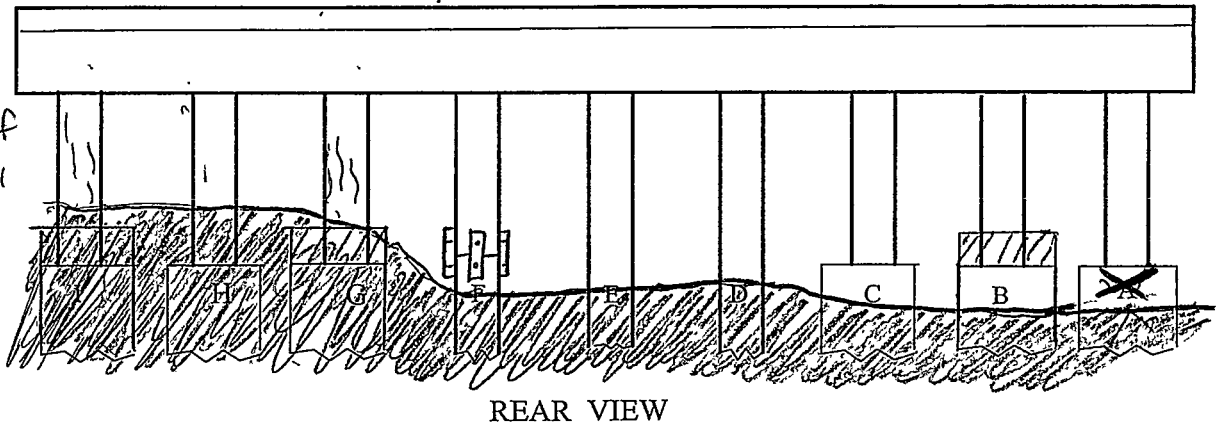
Bridge No. 49 - SR087 -

BENT. NO. 2



② up to 1/2' deep decay around bottom 5" of pile

③ 5" center core remaining
top bottom of pile up to 6" off center

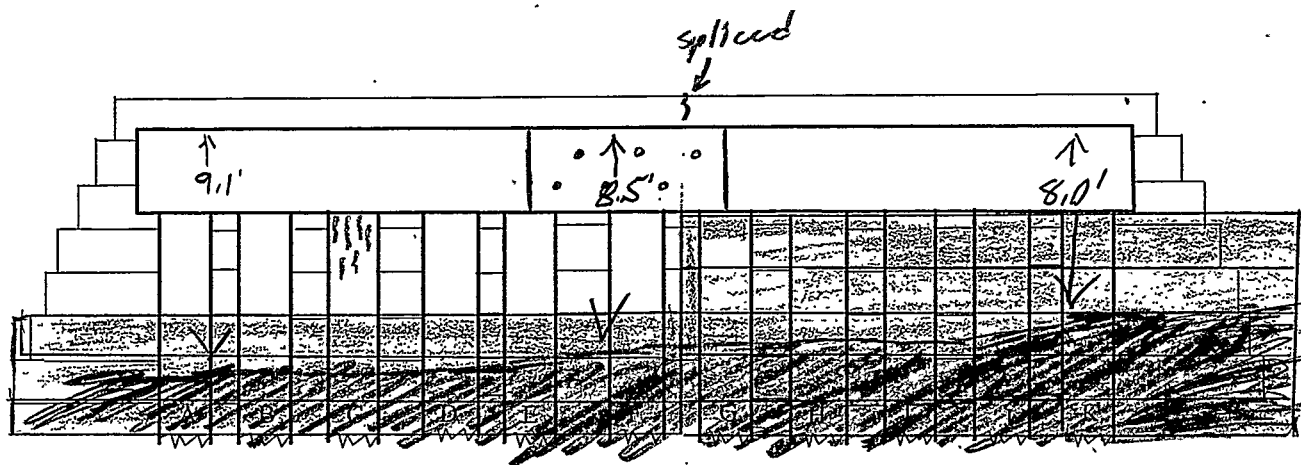


ELEMENT		RATING	COMMENT
CAP	A	G (E) P C	light to med. weathering
	B	G (E) P C	" " "
PILES	A	G (E) P C	see ① & ⑤ light to med. weathering
	B	G (E) P C	light to med weathering
	C	G (E) P C	
	D	G (E) P C	
	E	G (E) P C	
	F	G (E) P C	see ② & ④ + med weathering
	G	G (F) P C	see ③ + up to 1/8" grain cracks + med weathering
	H	G (E) P C	light to med weathering
	I	G (E) P C	up to 1/8" grain cracks + med weathering
CONC. CASING		G (E) F P C	
BRACING		G (E) F P C	
Steel grader blades		(fair)	med corrosion

NOV 10 2021

Bridge No. 49 - SR087 - 5, 18

ABUT. NO. 2



LOOKING AHEAD

ELEMENT	RATING	COMMENT
CAP	G F P C	light to med weathering
WINGS	G F P C	" "
PILES A	G F P C	med weathering
B	G F P C	
C	G F P C	Heavy weathering + Decay + Replaced by 'D'
D	G F P C	med weathering
E	G F P C	med weathering
F	G F P C	med weathering
G	G F P C	N/V
H	G F P C	
I	G F P C	
J	G F P C	
K	G F P C	
BREASTWALL	G F P C	Heavy decayed + missing areas
EMB.	G F P C	
VEG.	G F P C	med growth
RIP RAP	G F P C	none
Ret. Wall	G F P C	med weathering

NOV 10 2021

49SR0870013 49 SR087 0518
BRIDGE NO.: CO. ROUTE L.M. L/R

SKEW: 90

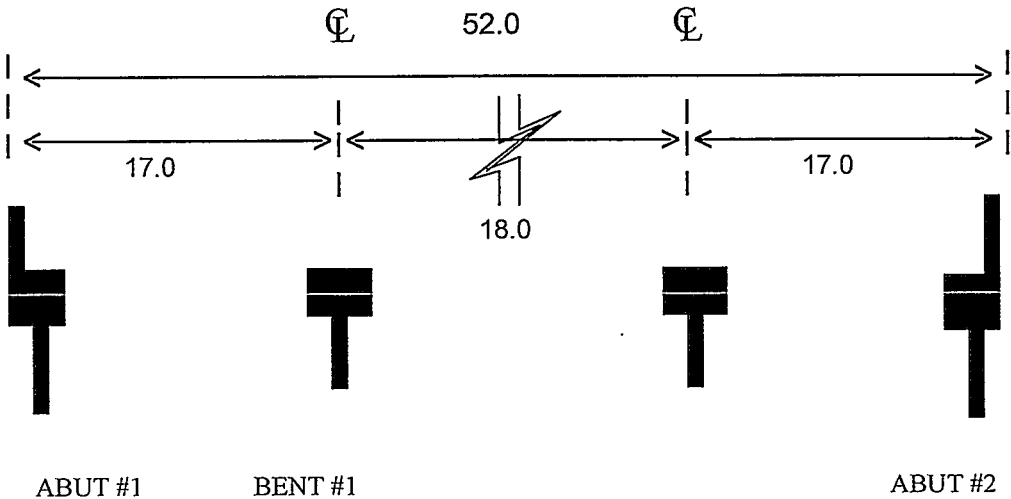
No. of Spans: 3

No. of Approach Spans:

Direction of Route



F = FIXED
E = EXPANSION
S = SIMPLE
C = CONTINUOUS



ABUT #1

BENT #1

ABUT #2

SIDE OF BRIDGE

NOV 10 2021

Your Agency Name

Your Office Name

Your Department Name

Structure Inventory and Appraisal Sheet (English Units)

ELEMENT CONDITION STATE DATA

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	1,461.00	100%	1,461.00	0%	0.00	0%	0.00	0%	0.00
0	510/3	Wearing Surfaces	sq.ft	1,414.00	100%	1,414.00	0%	0.00	0%	0.00	0%	0.00
0	116/3	Re Conc Stringer	ft	416.00	29%	120.00	70%	290.00	1%	6.00	0%	0.00
0	1080/3	Delamination/Spall/Patched Area	ft	80.00	0%	0.00	100%	80.00	0%	0.00	0%	0.00
0	1090/3	Exposed Rebar	ft	6.00	0%	0.00	0%	0.00	100%	6.00	0%	0.00
0	1120/3	Efflorescence/Rust Staining	ft	90.00	0%	0.00	100%	90.00	0%	0.00	0%	0.00
0	1130/3	Cracking (RC and Other)	ft	120.00	0%	0.00	100%	120.00	0%	0.00	0%	0.00
0	216/3	Timber Abutment	ft	60.00	88%	53.00	12%	7.00	0%	0.00	0%	0.00
0	1140/3	Decay/Section Loss	ft	7.00	0%	0.00	100%	7.00	0%	0.00	0%	0.00
0	228/3	Timber Pile	(EA)	18.00	72%	13.00	22%	4.00	6%	1.00	0%	0.00
0	1140/3	Decay/Section Loss	(EA)	5.00	0%	0.00	80%	4.00	20%	1.00	0%	0.00
0	235/3	Timber Pier Cap	ft	60.00	100%	60.00	0%	0.00	0%	0.00	0%	0.00
0	330/3	Metal Bridge Railing	ft	104.00	100%	104.00	0%	0.00	0%	0.00	0%	0.00
0	7000/3	Damage	ft	3.00	100%	3.00	0%	0.00	0%	0.00	0%	0.00