Asset **#49SR0870025**(Cursory, Repair)

**County:** 49 - Lauderdale, **Route:** SR087, **Log mile:** 11.750

**Team Lead:** Jason Ellison, **Inspection Date:** 06/13/2024

Latitude:35.68061, Longitude:-89.70639

Region 04, 49 - Lauderdale County

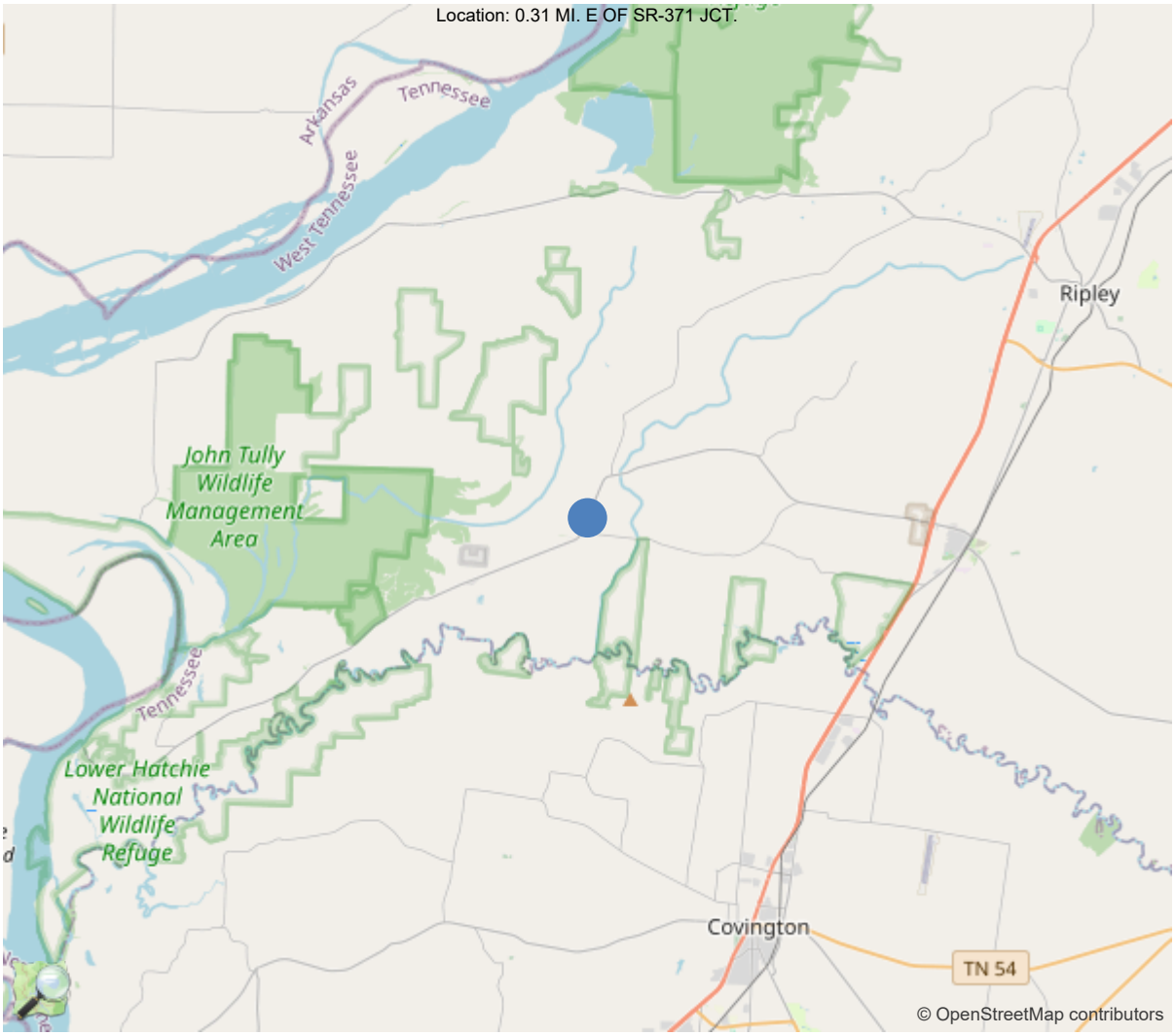
Team Leader: Jason Ellison

Inspectors: Jacob Seager, Tonjuanita James, Tyler Prince, Jacob Castellaw

Asset **#49SR0870025**(Cursory, Repair)

**County:** 49 - Lauderdale, **Route:** SR087, **Log mile:** 11.750

**Team Lead:** Jason Ellison, **Inspection Date:** 06/13/2024




SR-87 Crossing BRANCH

35.68061, -89.70639

TN TDOT Department of Transportation

Asset **#49SR0870025**(Cursory, Repair)

**Region:** 04, **County:** 49 - Lauderdale

**Team Lead:** Jason Ellison, **Inspection Date:** 06/13/2024

| | |
|---|---|
| **90 - LAST INSPECTION DATE** | 06/13/2024 |
| **10 - MIN. V.C. OVER DECK (ROADWAY + SHOULDERS)** | 99.99 FT. |
| **520 - MIN. V.C. OVER DECK (EXCLUDES SHOULDERS)** | 99.99 FT. |

**36 - TRAFFIC SAFETY FEATURES**

| Br. Rail | Trans. | Appr. Rail | Terminal | SPEED LIM. |
|---|---|---|---|---|
| 0 | 0 | 0 | 1 | 55 |

| | |
|---|---|
| **41 - STRC OPEN/CLOSED/POSTED** | P |
| **58 - DECK** | 6 |
| **59 - SUPERSTRUCTURE** | 6 |
| **60 - SUBSTRUCTURE** | 6 |
| **61 - CHANL/CHANL PROTECTION** | 6 |
| **62 - CULVERT AND RETAIN WALL** | N |
| **71 - WATERWAY ADEQUACY** | 6 |
| **72 - APPROACH RDWY ALIGNMENT** | 8 |
| **521 - OVERALL CONDITION** | 2 - Fair |

| 16 - LATITUDE | 17 - LONGITUDE |
|---|---|
| 35.680611 | -89.706388 |

JASON ELLISON

Digitally signed by JASON ELLISON
Date: 2024.06.14 09:49:59 -05'00'

**TEAM LEADER SIGNATURE**

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 CORREC

TN TDOT Department of Transportation

Asset **#49SR0870025**(Cursory, Repair)

**County:** 49 - Lauderdale, **Route:** SR087, **Log mile:** 11.750

**Team Lead:** Jason Ellison, **Inspection Date:** 06/13/2024

| IDENTIFICATION | |
|---|---|
| (1) State Names | 47 - Tennessee |
| (8) Structure Number | 49SR0870025 |
| (5) Inventory Route | 1 |
| (2) Highway Agency District | Region 4 |
| (3) County Code | 49 - Lauderdale |
| (4) Place Code | 00000 |
| (6) Features Intersected | BRANCH |
| (7) Facility Carried | FAS 87 |
| (9) Location | 0.31 MI. E OF SR-371 JCT. |
| (11) Mile Point | 11.750 mi |
| (12) Base Highway Network | No |
| (13) LRS Inventory Rte & Subrte | |
| (16) Latitude | 35.680611 |
| (17) Longitude | -89.706388 |
| (98) Border Bridge State Code | |
| (99) Border Bridge Structure No. | |
| **STRUCTURE TYPE AND MATERIAL** | |
| (43) Main Structure Type | 122 |
| Material | 1 - Concrete |
| Type | 22 - Channel beam |
| (44) Approach Structure Type | 00 |
| Material | 0 - Other / None |
| Type | 0 - Other / None |
| (45) No. of Spans in Main Unit | 1 |
| (46) No. of Approach Spans | 0 |
| (107) Deck Structure Type | 1 - Concrete Cast-in-Place |
| (108) Wearing Surface/Protective System | |
| Type of Wearing Surface | 6 - Bituminous |
| Type of Membrane | 0 - None |
| Type of Deck Protection | 0 - None |
| **AGE AND SERVICE** | |
| (27) Year Built | 1986 |
| (106) Year Reconstructed | 0 |
| (42) Type of Service | 15 |
| On | 1 - Highway |
| Under | 5 - Waterway |
| (28) Lane | |
| On | 2 |
| Under | 0 |
| (29) Average Daily Traffic | 957 |
| (30) Year of ADT | 2021 |
| (109) Truck ADT | 5 % |
| (19) Bypass, Detour Length | 10 mi |
| **GEOMETRIC DATA** | |
| (48) Length of Maximum Span | 28.5 ft |
| (49) Structure Length | 28.5 ft |
| (50) Curb or Sidewalk Width | |
| Left | 0.0 ft |
| Right | 0.0 ft |
| (51) Bridge Roadway Width Curb to Curb | 27.7 ft |
| (52) Deck Width Out to Out | 27.7 ft |
| (32) Approach Roadway Width (W/Shoulders) | 22.0 ft |
| (33) Bridge Median | 0 - No median |
| (34) Skew | 90 Deg |
| (35) Structure Flared | 0 - No flare |
| (10) Inventory Route Min Vert Clear | 99.99 ft |
| (47) Inventory Route Total Horiz Clear | 27.7 ft |
| (53) Min Vert Clear Over Bridge Rdwy | 99.99 ft |
| (54) Min Vert Underclear | 0.00 ft |
| Ref: | |
| (55) Min Lat Underclear RT | 0.0 ft |
| Ref: | |
| (56) Min Lat Underclear LT | 0.0 ft |
| **NAVIGATION DATA** | |
| (38) Navigation Control | 0 - No navigation control on w |
| (111) Pier Protection | |
| (39) Navigation Vertical Clearance | 0.0 ft |
| (116) Vert-Lift Bridge Nav Min Vert Clear | ft |
| (40) Navigation Horizontal Clearance | 0.0 ft |

| CLASSIFICATION | |
|---|---|
| (112) NBIS Bridge Length | Y |
| (104) Highway System | 0 |
| (26) Functional Class | 7 - Rural Major Collector |
| (100) Defense Highway | 0 - The inventory route is not |
| (101) Parallel Structure | N - No parallel structure exis |
| (102) Direction of Traffic | 2 - way traffic |
| (103) Temporary Structure | |
| (105) Federal Lands Highways | 0 - N/A |
| (110) Designated National Network | 0 - The inventory route is not |
| (20) Toll | 3 - On free road. The structu |
| (21) Maintain | 1 - State Highway Agency |
| (22) Owner | 1 - State Highway Agency |
| (37) Historical Significance | 4 - Historical significance is |
| **CONDITION** | |
| (58) Deck | 6 |
| (59) Superstructure | 6 |
| (60) Substructure | 6 |
| (61) Channel & Channel Protection | 6 |
| (62) Culverts | N |
| **LOAD RATING AND POSTING** | |
| (31) Design Load | 0 - Other or Unknown |
| (63) Operating Rating Method | 7 |
| (64) Operating Rating | |
| Type | 7 - Allowable Stress (AS) rating reported |
| Rating | 5.83 |
| (65) Inventory Rating Method | 7 - Allowable Stress (AS) rati |
| (66) Inventory Rating | |
| Type | |
| Rating | 4.21 |
| (70) Bridge Posting | 0 - > 39.9% below |
| (41) Structure Open/Posted/Closed | P - Posted for load (may inclu |
| **APPRAISAL** | |
| (67) Structural Evaluation | 3 |
| (68) Deck Geometry | 5 |
| (69) Clearances, Vertical/Horizontal | N |
| (71) Waterway Adequacy | 6 |
| (72) Approach Roadway Alignment | 8 |
| (36A) Bridge Railings | 0 - Inspected feature does not meet |
| (36B) Transitions | 0 - Inspected feature does not meet |
| (36C) Approach Guardrail | 0 - Inspected feature does not meet |
| (36D) Approach Guardrail Ends | 1 - Inspected feature meets current |
| (113) Scour Critical Bridges | 8 - Bridge foundations determined t |
| **PROPOSED IMPROVEMENTS** | |
| (75) Type of Work | 35 - Bridge rehabilitation bec |
| (76) Length of Structure Improvement | 28.9 ft |
| (94) Bridge Improvement Cost | $ 156 |
| (95) Roadway Improvement Cost | $ 16 |
| (96) Total Project Cost | $ 235 |
| (97) Year of Improvement Cost Estimate | 2021 |
| (114) Future ADT | 1253 |
| (115) Year of Future ADT | 2041 |

| INSPECTIONS * | | | |
|---|---|---|---|
| (90) Inspection Date | | | 11/30/2023 |
| (91) Frequency | | | 24 |
| (92) Critical Feature Inspection | Done | Freq. (Mon) | Date |
| A: Fracture Critical Detail | No | | |
| B: Underwater Inspection | No | | |
| C: Other Special Inspection | Yes | 1 | 06/13/2024 |

* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.

TN TDOT Department of Transportation

Asset **#49SR0870025**(Cursory, Repair)
**County:** 49 - Lauderdale, **Route:** SR087, **Log mile:** 11.750
**Team Lead:** Jason Ellison, **Inspection Date:** 06/13/2024

## PERFORMANCE EVALUATION

Time of Day Inspected 2:00 Weather Conditions 87 clear

Vehicles Observed All types

## LIVE LOAD BEHAVIOR

| | | |
|---|---|---|
| **Sub Horiz./ Vert. Defl** | (No) | |
| **Sub Vibration** | (Yes) | |
| **Super Horiz./ Vert. Defl** | (No) | |
| **Super Vibration** | (Yes) | |

## APPROACH

| | | |
|---|---|---|
| **Alignment** | (Good) | |
| **Pavement** | (Fair) | Approach 2 asphalt spalled and settled |
| **Embankment** | (Good) | |

## TRAFFIC SAFETY FEATURES

| | | |
|---|---|---|
| **Bridge Railing Rating** | (Good) | |
| **Transitions Rating** | (NA) | |
| **Guardrail Rating** | (Good) | |
| **Guardrail Terminal Rating** | (Good) | |

## SIGNS POSTED ON ROUTE

| | | | |
|---|---|---|---|
| Paddleboards | Yes | Weight Limit Posted | Yes |
| Vertical Clearance (<14'-6") | | Gross ..... | Tons |
| Posted Height | | Single-unit Vehicle | 3 Tons |
| Narrow Bridge Signs | | Multi-unit Vehicle | 3 Tons |
| One Lane Bridge Signs | | 564 Assigned Bridge Name | |
| Other Signs or Plaques | | | |

## ATTACHED SIGNS

| Sign No | Location | Text on Sign | Noted Defects |
|---|---|---|---|

TN TDOT Department of Transportation

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**Team Lead:** Jason Ellison, **Inspection Date:** 06/13/2024

## DECK

| | | | |
|---|---|---|---|
| **Wearing Surface Type** | Asphalt | **Wearing Surface Depth** | 4 |

| | | |
|---|---|---|
| **Wearing Surface** | (Good) | |
| **Deck - Structural Condition** | (NA) | |
| **Curbs** | (Good) | |
| **Railing** | (Good) | |
| **Deck Drains** | (Poor) | Asphalt over |

## SUPERSTRUCTURE

| | | |
|---|---|---|
| **Alignment of Members** | (Good) | |

## TEXTURE COAT

| | | |
|---|---|---|
| **PCCS** | (Good) | Hairline cracks, damage |
| **PCCS/CBB Bolts** | (Good) | |

TN TDOT Department of Transportation

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## ABUTMENTS

| | | |
|---|---|---|
| **Abutment Caps** | (Fair) | Medium weathering and 1/8” checks |
| **Abutment Breastwall** | (Poor) | Decay at abutment 2 |
| **Abutment Wings** | (Fair) | Medium weathering and decay |
| **Abutment Plumb** | (Good) | |
| **Abutment Piles** | (Fair) | Medium weathering |
| **Abutment Embankment** | (Good) | |
| **Abutment Bearing Surface** | (Good) | |

## PIERS

## BENTS

## Inspection Team's Summary

This is a BER inspection. This is now a one span PCCS bridge with timber substructure. The safety features are metal approach rails, metal bridge rails, and paddle boards. There is a weight limit posting at Approach 1 and 2(3T/3T). The asphalt roadway has cracks up to 1/4”. The PCCSs have hairline cracks and damage. The timber substructure has light to medium weathering and up to 1/8” checks. Abutment 2 breastwall has heavy decay. The scour has no problems.

The superstructure went from a 4 to a 6 due to new superstructure members.

## General Inspection Comment

## HQ notes to TL

TN TDOT Department of Transportation

Asset **#49SR0870025**(Cursory, Repair)

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**Team Lead:** Jason Ellison, **Inspection Date:** 06/13/2024

| ELEMENTS | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|---|---|---|---|---|---|---|---|
| 38 | Re Concrete Slab | SF | 789 | 787 | 2 | 0 | 0 |
| 1080 | Delamination/Spall/Patched Area | SF | 2 | 0 | 2 | 0 | 0 |
| 1130 | Cracking (RC and Other) | SF | 3 | 3 | 0 | 0 | 0 |
| 510 | Wearing Surfaces | SF | 789 | 789 | 0 | 0 | 0 |
| 216 | Timber Abutment | LF | 70 | 70 | 0 | 0 | 0 |
| (216) Element record added 2016-04-06. | | | | | | | |
| 330 | Metal Bridge Railing | LF | 58 | 58 | 0 | 0 | 0 |
| (330) Element record added 2016-04-06. | | | | | | | |

TN TDOT Department of Transportation

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## STREAM CHANNEL DATA AND CONDITIONS

| | |
|---|---|
| Stream Crossing | BRANCH |
| Type of bed material | Mud |
| Has channel shifted? | No |
| Condition of rip-rap | N/A |
| Est. % failed | % |
| Overall condition of channel | Fair |
| Underwater Inspection Req? | |
| Why UW required? | |

## Channel and bank stability conditions

| | |
|---|---|
| Steep bank cond - Failure US | No |
| Steep bank cond - Failure DS | No |
| Bank Vegetation: | |
| Low Growth | Yes |
| Large Timber | No |
| Clear Banks | No |
| Dead Trees - US | Yes |
| Dead Trees - DS | |
| Moderate Bank Erosion | Yes |
| Sediment or Gravel Accumulation | Yes |
| Channel Altered or Straightened | No |
| Stable Conditions: | |
| Live Growth | Yes |
| Bedrock | No |
| Boulders | No |
| FlatSlopes (<=2:1) | No |

## Waterway adequacy and debris characteristics

| | |
|---|---|
| Bridge deck elevations: | |
| Level with Approach Roadway | Yes |
| Higher than Approach Roadway | No |
| Road Appr >2' Above Natural Ground | No |
| Abutment Encroaches into Channel | Yes |
| Large Scour Under Bridge | No |
| Indications Flood Overtop Bridge | Occasionally |
| Debris / Drift - Present | No |
| Debris / Drift - Likely to Accumulate | Yes |

## Substructure Exposure

| Last Exposure | Abut/Bent/Pier Number | Total height | Footing Thickness | Exposure |
|---|---|---|---|---|
| 1.9 | ABUT 1 | | | 2.5 |
| 5.3 | ABUT 2 | | | 6.6 |

| | | | |
|---|---|---|---|
| Last Exposure Upstream | | Rip-Rap | Y |
| Last Exposure Downstream | | @ Abutment | 2 |
| Top of cap to top of water | | @ Bents | |
| Upstream Distance | | @ Piers | |
| Upstream Depth | | Upstream | |
| Thru structure | | Downstream | |
| Downstream Distance | | Thru Structure | |
| Downstream Depth | | | |

# Equipment List

## General Inspection

_____ Pocket knife
Yes Sounding/chipping hammer
_____ Chain drag
_____ Range pole
Yes 25' rod - depth and clearance

## Visual Aid

_____ Binoculars
_____ Flashlight
_____ Magnifying glass
_____ Hand mirror

## Cleaning

_____ Wisk broom
Yes Wire brush
_____ Flat bladed screwdriver
_____ Hand shovel
_____ Penetrating oil (WD-40, etc.)

## Tools For Access

_____ Ladders
_____ Rope
Yes Waders
_____ Machete or bush axe

## Comment

## Reach-All Approval and Comments

## Tools For Measuring

Yes Masonry/Wood Ruler
_____ 6’ Pocket Tape
Yes 25’ and 100’ Tape
_____ Calipers
Yes Thermometer
_____ Carpenter’s Level
_____ String and Weighted line (plumb bob)

## Special Purpose Equipment

_____ Reach All
_____ Bucket Truck
_____ Traffic control
_____ Boat
_____ Sonar depth finder
_____ Increment borer
_____ Survey equipment
_____ Safety Harness
_____ Climbing equipment
_____ Dye penetrant
_____ Drone
_____ Air Meter

## Special Purpose Equipment

Abutment 2

Approach 2

TN TDOT Department of Transportation

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Opposite Direction of Route


Weight limit sign, Approach 2

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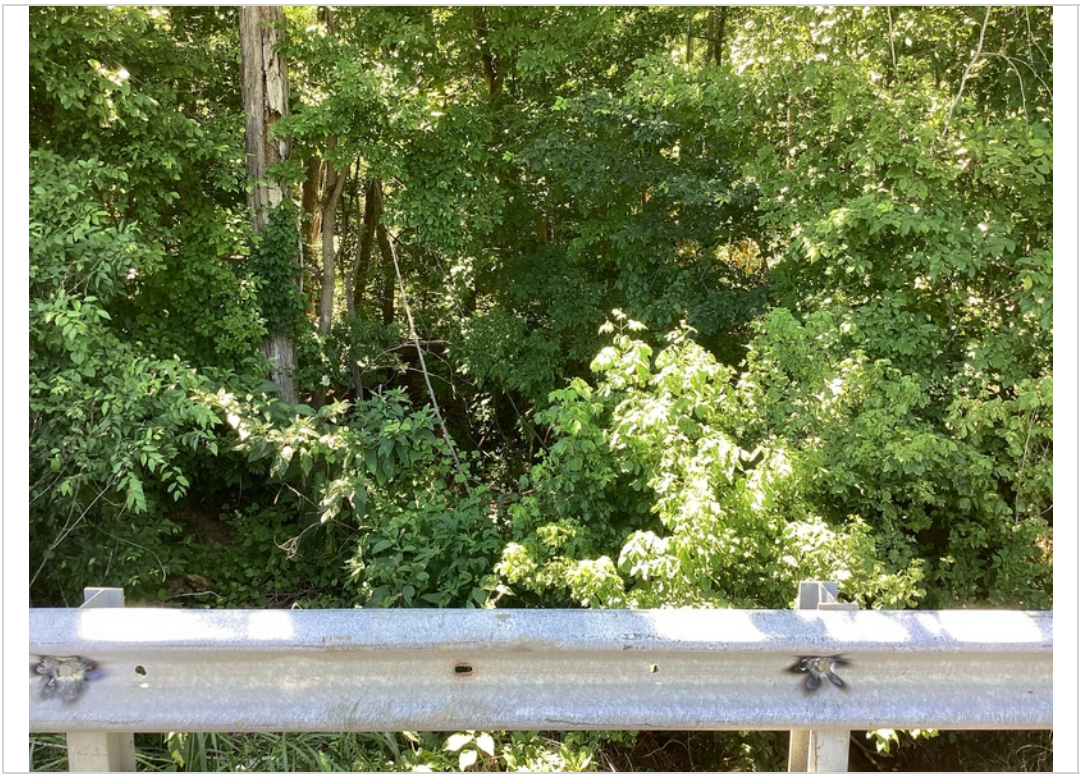

View from top, looking left

View from top, looking right

View across Deck

Approach 1

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Approach 1 weight limit sign

Direction of Route

Left elevation

Span 1 slab A, damage

Span 1

Right elevation

Span 1 slab H, hairline cracks

Breast wall at abutment 2 decay

Abutment 1

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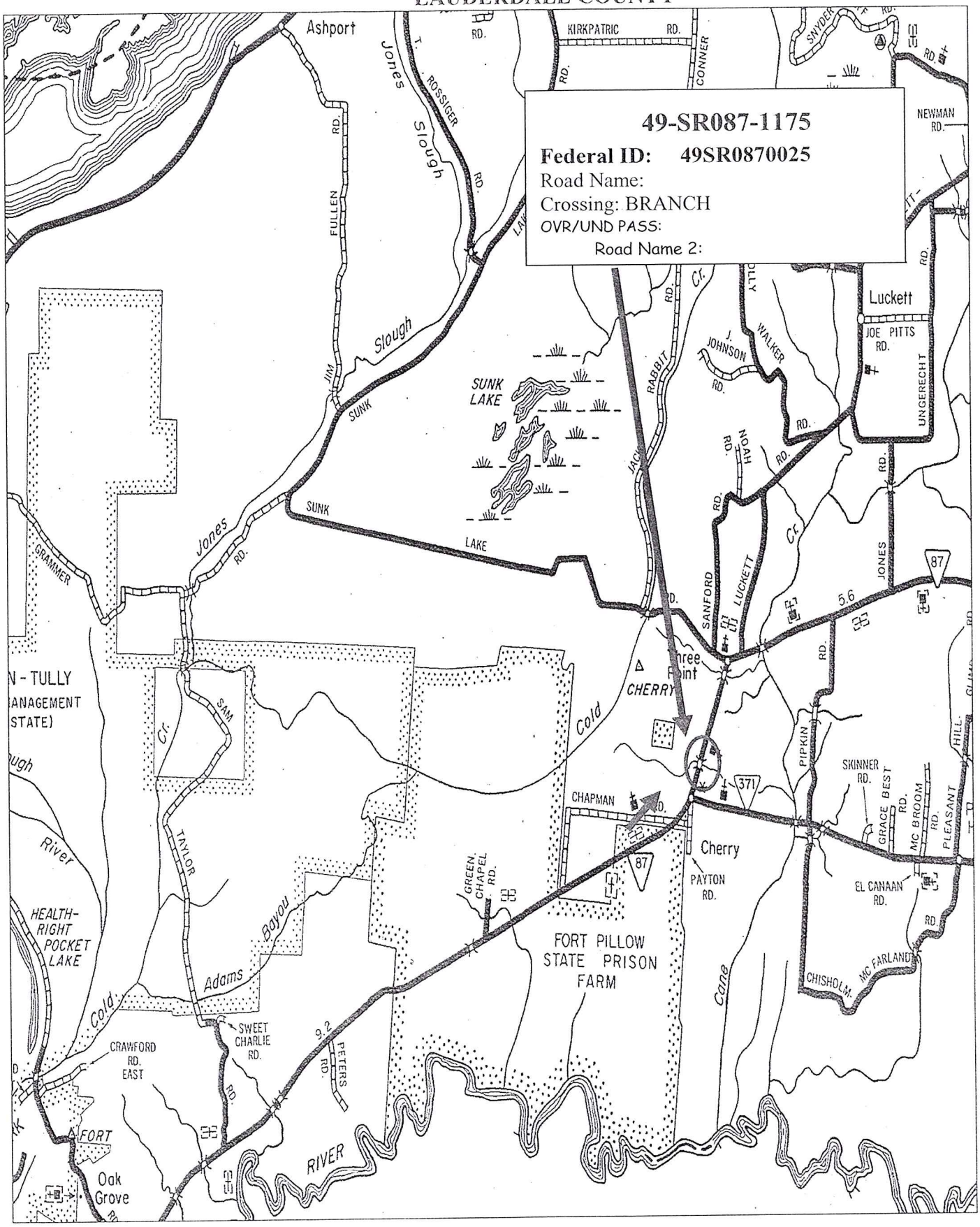
## Maintenance Recommendations

525 - Repair List # 1 523 - Repair List Add Date _____ 524 - Repair List Revise Date 6/5/2024 1

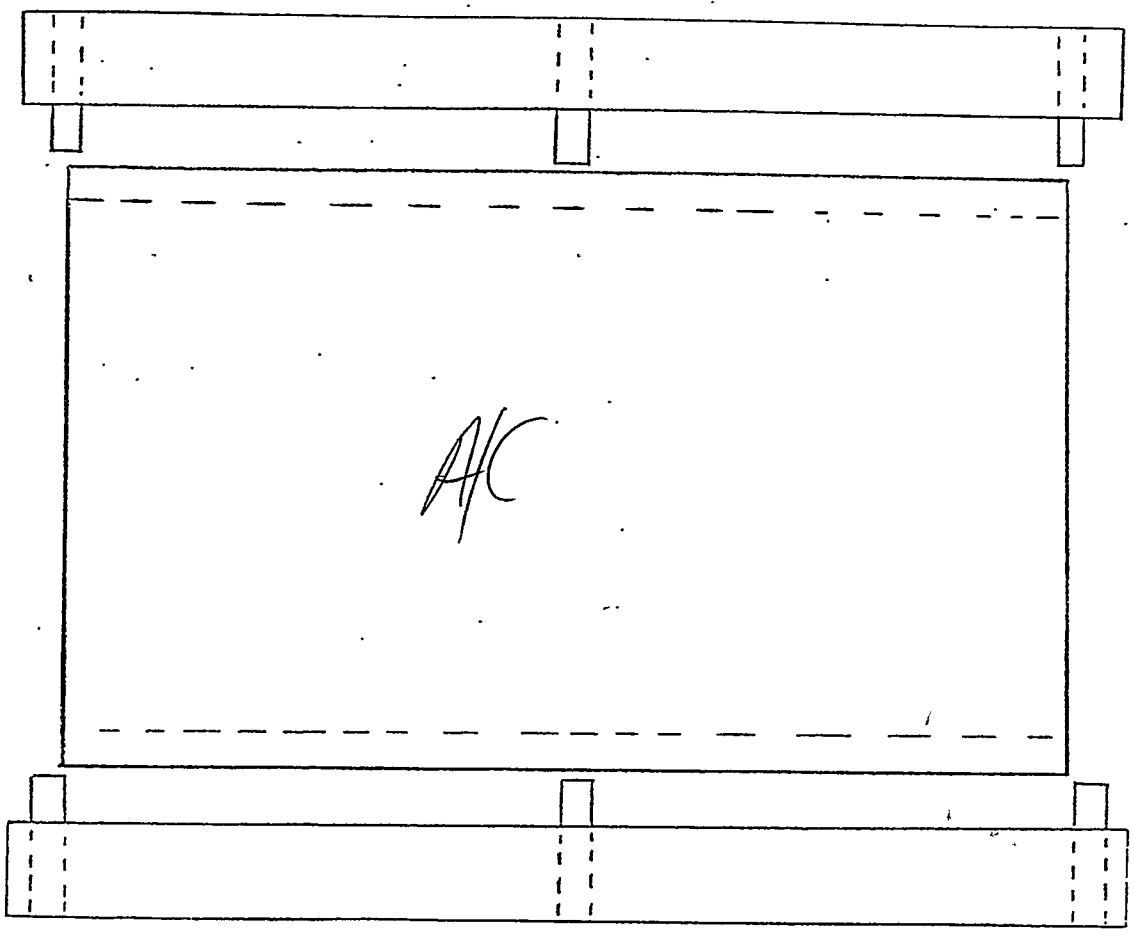
| Date Added | Recommendation | Priority |
|---|---|---|
| 06/13/2024 | BRIDGERAILS ARE SUBSTANDARD | |
| 06/13/2024 | APPROACH GUARDRAILS ARE SUBSTANDARD | |

# LAUDERDALE COUNTY



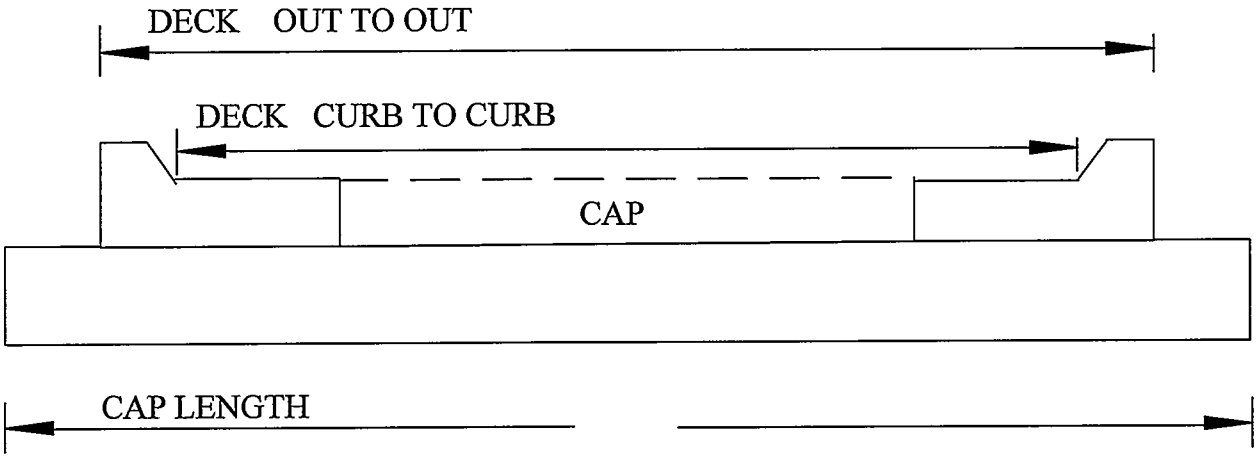
BR. NO. 49 87 11 25 SK. 90° SPAN NO. 1

DIR. OF ROUTE →

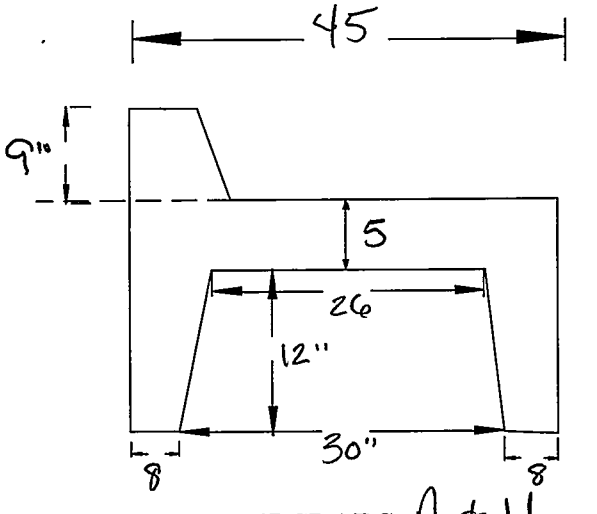



| ELEMENT | RATING | COMMENT |
|---|---|---|
| TOP DECK | (G) F P C | |
| RAILS & POST | (G) F P C | |
| PAINT | ~~G F P C~~ | |
| DRAINS | ~~G F P C~~ | |
| JOINTS | ~~G F P C~~ | |
| CURBS | (G) F P C | |

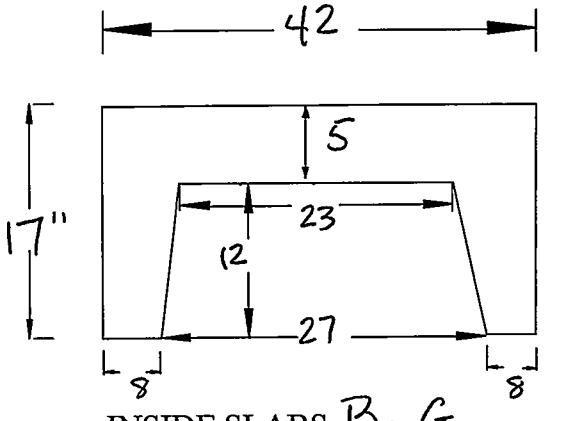
BR. NO. 49 -- SR087 -- 11.75 SPAN NO. 1




26 1/7

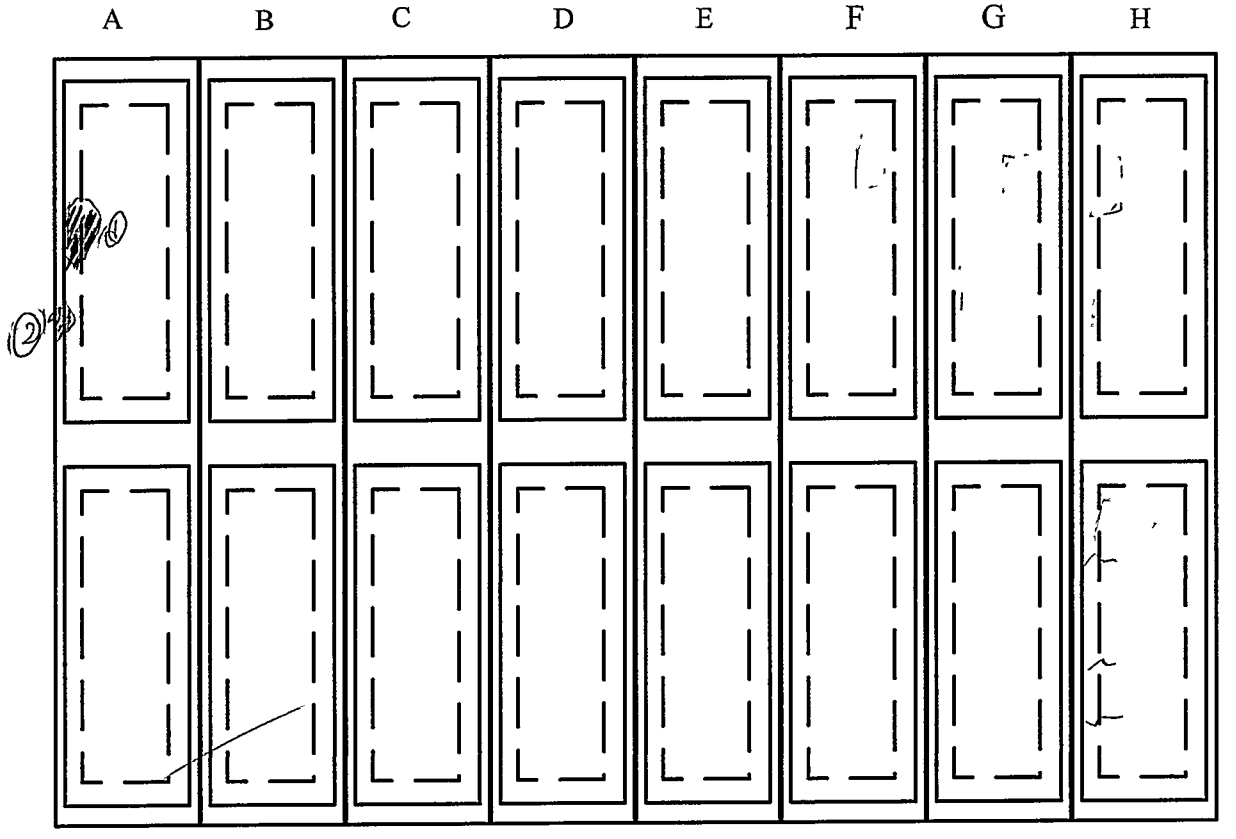



OUT SIDE SLABS A & H




INSIDE SLABS B - G

Bridge No. 49 -- SR087 -- 11.75 SPAN. NO. 1




| ELEMENT | RATING | COMMENT |
|---|---|---|
| SLABS A | G F P C | See (1), (2) |
| 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 | Hairline Cracks |
| BOLTS | G F P C | |

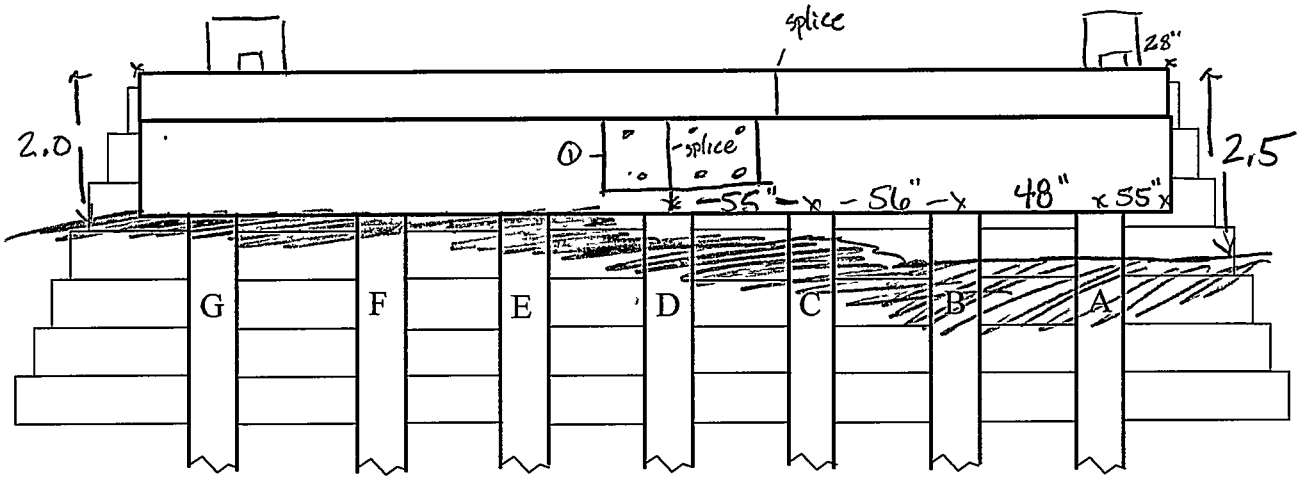
(1) Delamination 1"Ø x 1/2" D

(2) Damage 6"L x 3"H x 1/2"D

49 -- SR087 -- 11.75

Bridge No. Co. Route Log Mile

ABUT. NO. 1




① 4 x 12 x 48"

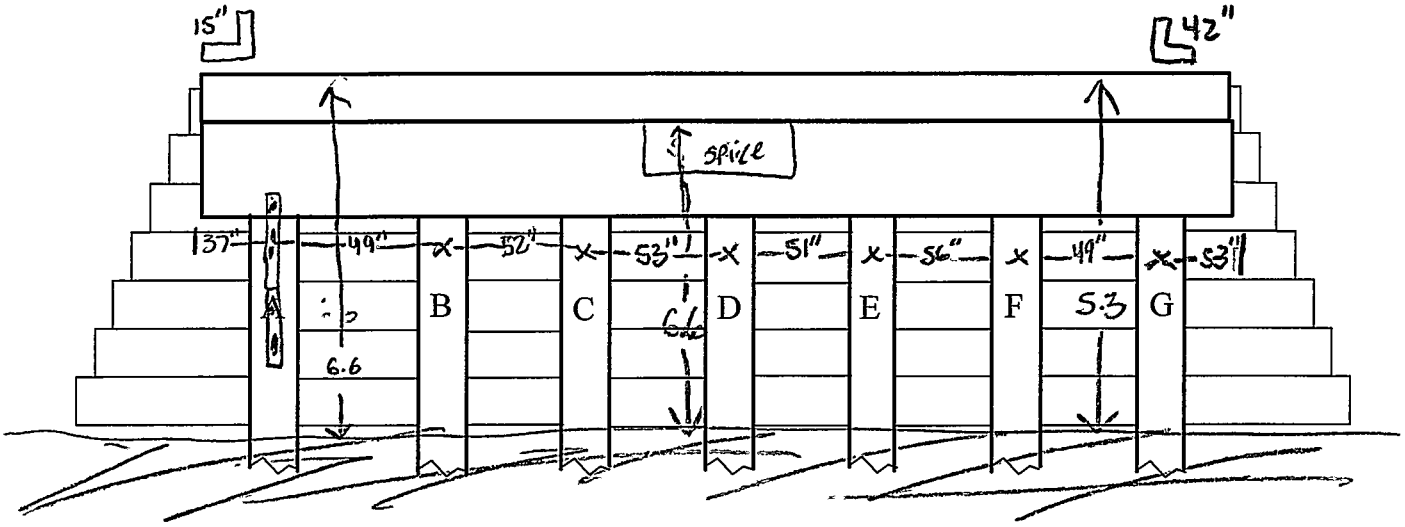
LOOKING BACK

| ELEMENT | RATING | COMMENT |
|---|---|---|
| New CAP A 8" X 16" | G F P C | |
| New CAP B ~~12"~~ 14" X 14" | G F P C | |
| PILES A 11" | G (F) P C | Medium weathering |
| B 12" | G (F) P C | |
| C 12" | G (F) P C | |
| D 12" | G (F) P C | |
| E | G F P C | |
| F | G F P C | |
| G | G F P C | |
| BREASTWALL | G (F) P C | light weathering |
| WINGS | G (F) P C | Medium weathering |
| EMB. | (G) F P C | |
| VEG. | (G) F P C | |
| ~~RIP - RAP~~ | G F P C | |
| | G F P C | |

49 -- SR087 -- 11.75

Bridge No. Co. Route Log Mile

ABUT. NO. 2




pile A spiked

26" from bottom of cap

LOOKING AHEAD

| ELEMENT | RATING | COMMENT |
|---|---|---|
| CAP A 8" X 16" | G (F) P C | medium weathering & 1/8" checks |
| CAP B 14" X 14" | G (F) P C | medium weathering & 1/8" checks |
| PILES A 12" | G (F) P C | |
| B 12" | G (F) P C | |
| C 13" | G (F) P C | |
| D 12" | G (F) P C | |
| E 12" | G (F) P C | |
| F 11" | G (F) P C | |
| G 12" | G (F) P C | |
| BREASTWALL | G F (P) C | decay areas |
| WINGS | G (F) P C | medium weathering |
| EMB. | (G) F P C | |
| VEG. | G (F) P C | light growth |
| RIP - RAP | (G) F P C | |
| | G F P C | |

# GROUND ELEVATIONS

**FEDERAL NUMBER --------** 49SR0870025

**BRIDGE NO. ----------** **49-SR087-11.75** **DATE :** **6/13/2024**

**CROSSING ----------** BRANCH

**NUMBER OF PIERS ---------**

**LOCATION OF PIERS -------**

**BENCH MARK ELEV. -----** 102.1

**INSPECTORS**
ELLISON CREW

**BENCH MARK LOC. ----** TOP CAP RT. A-1

**WATER ELEVATION -------**

**DISTANCE OF 0.00 = TOP OF BANK APPROACH 1 SIDE**

**DISTANCE AND ELEVATIONS ARE IN STANDARD MEASUREMENT**

## UPSTREAM GROUND ELEVATION @ EDGE OF BRIDGE

6/13/2024

| Distance from B.M. | Elevation |
|---|---|
| -5 | 101.7 |
| 0 | 101.1 |
| 2 | 98.1 |
| 7 | 97.3 |
| 11 | 93.3 |
| 16 | 93.2 |
| 21 | 95 |
| 26 | 94.8 |
| 28 | 101.6 |
| 33 | 101.7 |

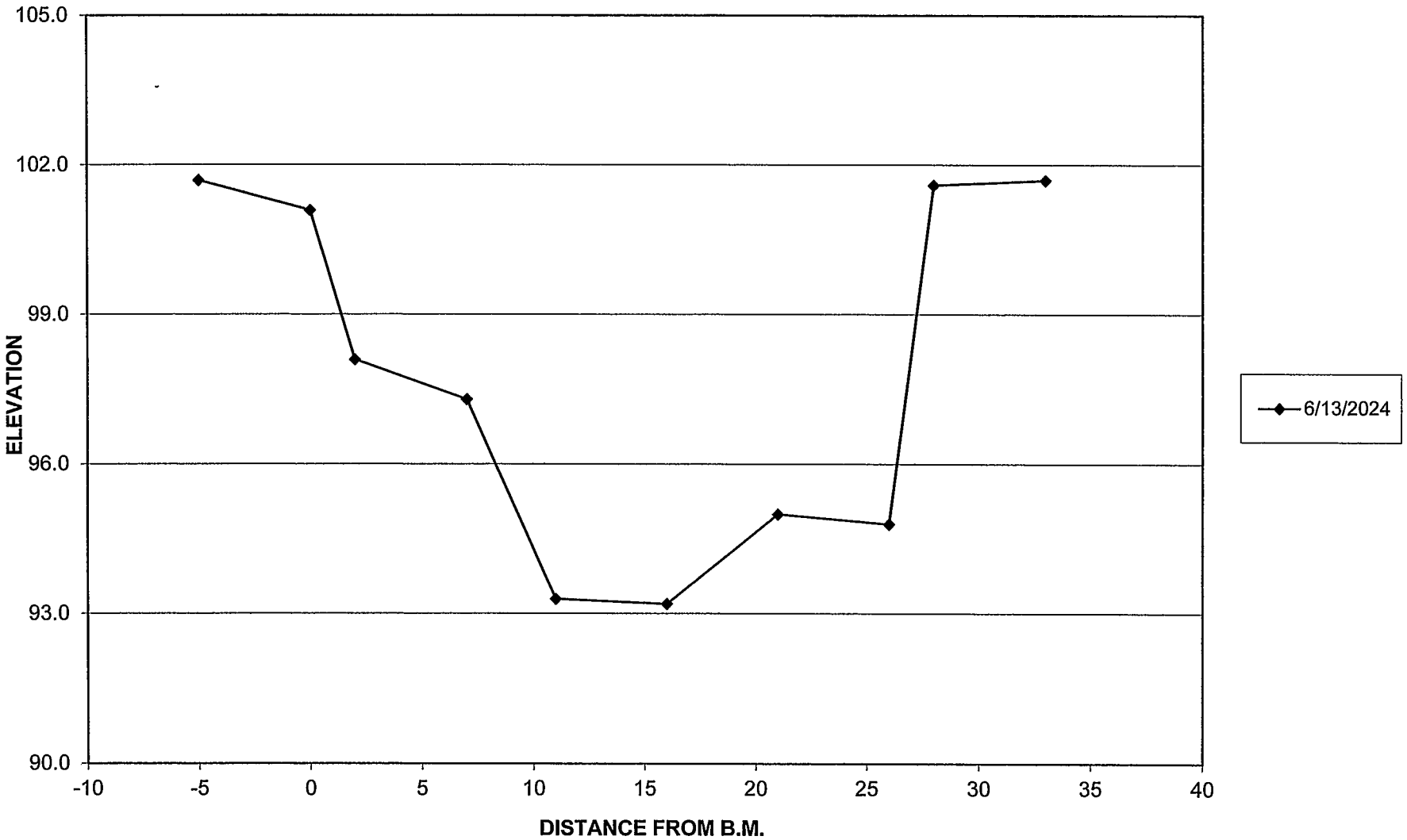
**BRIDGE NO. ----------** **49-SR087-11.75** **DATE :** **6/13/2024**

## DOWNSTREAM GROUND ELEVATION @ EDGE OF BRIDGE

6/13/2024

| Distance from B.M. | Elevation |
|---|---|
| -5 | 101.8 |
| 0 | 101.7 |
| 2 | 97.2 |
| 7 | 97.2 |
| 11 | 95.2 |
| 16 | 93.1 |
| 21 | 93 |
| 26 | 93.4 |
| 28 | 101.7 |
| 33 | 101.7 |

# 49SR0870025 UPSTREAM D.L.



## 49SR0870025 DOWNSTREAM D.L.