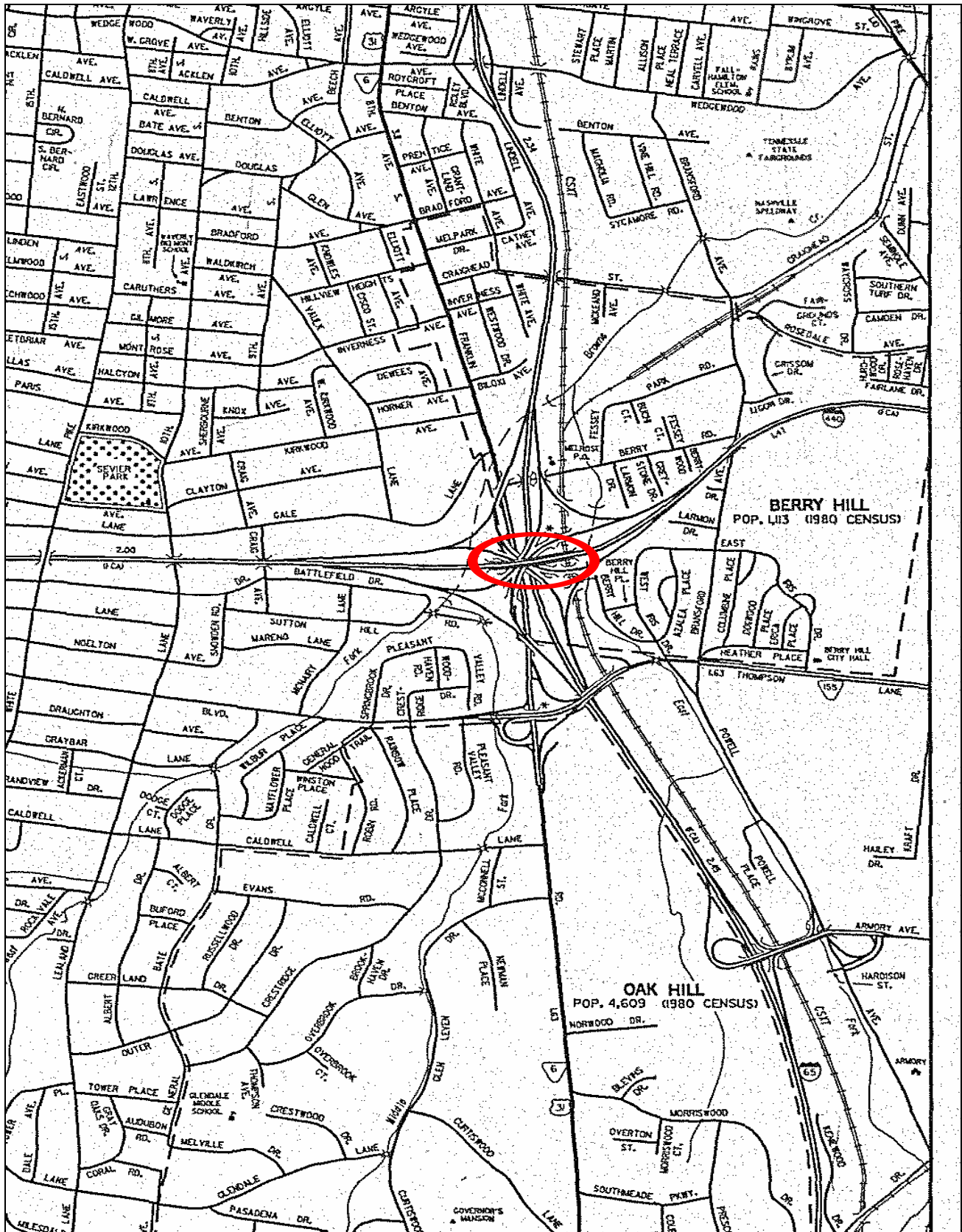


DAVIDSON COUNTY



19100650114
19-I0440-4.85 LT
L4-SN 166 LL/L3-SN 164 & 165

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BRIDGE MAINTENANCE RECOMMENDATIONS



Tennessee Department of Transportation

COUNTY: DAVIDSON
 LOCATION: 19-I0440-04.85-L
 CO. SEQ.: 1 SPEC. CASE: 0
 MILEPOST: 4.79

CROSSING: L4-SN166-LL/L3-SN164&165
 FED. BRIDGE NO.: 19I00650114
 MAINT. DIST.: 19

REPAIR LIST NO.: 1
 DATE ADDED: 04/16/2014
 REVISED: 02/12/2018

| | | | |
|---|---------------------|---------------------------|------|
| FACILITY CARRIED: | I440 | NUMBER OF MAIN SPANS: | 6 |
| HIGHWAY SYSTEM: | 02-INTERSTATE URBAN | NUMBER OF APPROACH SPANS: | 0 |
| BRIDGE WIDTH (CURB TO CURB): | 41 FT 11 IN | BRIDGE LENGTH (FT): | 1018 |
| BRIDGE WIDTH (OUT TO OUT): | 43 FT 11 IN | MAXIMUM SPAN LENGTH (FT): | 282 |
| APPROACH ROADWAY (W/SHOULDERS): | 41 FT 11 IN | SKEW ANGLE (DEGREES): | 90 |
| MAINTAINED BY: STATE HIGHWAY AGENCY | | | |
| MAIN SPAN MATERIAL: STEEL CONTINUOUS | | | |
| MAIN SPAN DESIGN TYPE: BOX BEAM OR GIRDERS - SINGLE OR SPREAD | | | |
| APPROACH SPAN MATERIAL: OTHER OR NOT APPLICABLE | | | |
| APPROACH SPAN DESIGN TYPE: OTHER OR NOT APPLICABLE | | | |
| INSPECTION DATE: | 02/12/2018 | GENERAL CONDITION: | FAIR |
| EVALUATION DATE: | 03/28/2016 | STRUCTURALLY DEFICIENT: | YES |
| PPRM PIN NUMBER: | 119954.00 | | |
| H TRUCK RATING @ INV.: | 20 TONS | SUFFICIENCY RATING: | 39.0 |

| No. | RECOMMENDATIONS | REPAIR DATE | REPAIRED BY |
|-----|--------------------------------|-------------|-------------|
| 1. | REPAIR POTHOLE AT 'A' APPROACH | | |

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS
 CLEAN AND PAINT ALL STRUCTURAL STEEL

GENERAL COMMENTS:

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 02/12/2018

Bridge Number:
(Includes Item 5A)

Feature Intersected:

Evaluation Status:

County:

Route:

Special Case:

County Sequence:

Log Mile:

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

| ITEM # | DESCRIPTION | VALUE | CONDITION CODING GUIDELINES |
|--------|---|---|---|
| 90 | LAST INSPECTION DATE | <input type="text" value="02/12/2018"/> | (Values for Coding Items 58, 59, 60 and 62) |
| | EARLIEST DATE OF NEXT REGULAR INSPECTION | <input type="text" value="12/14/2019"/> | |
| | | <input type="text" value="/ /"/> | |
| 10 | MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS) | 99 FT. 99 IN. | 9 EXCELLENT CONDITION 8 VERY GOOD CONDITION - NO PROBLEMS NOTED. |
| | | <input type="text"/> FT. <input type="text"/> IN. | |
| 520 | MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS) | 99 FT. 99 IN. | 7 GOOD CONDITION - SOME MINOR PROBLEMS. 6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS. |
| | | <input type="text"/> FT. <input type="text"/> IN. | |
| 36 | TRAFFIC SAFETY FEATURES | | 5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR. |
| | Br. Rail Trans. Appr. Rail Terminal SPEED LIMIT | 1 0 0 1 55 | |
| 41 | STRC OPEN/CLOSED/POSTED | A | 4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR. |
| | A K P | <input type="text"/> | |
| 58 | DECK | 5 | 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. |
| 59 | SUPERSTRUCTURE | 6 | |
| 60 | SUBSTRUCTURE | 6 | 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 | N | |
| 62 | CULVERT AND RETAIN WALL | N | 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. |
| 71 | WATERWAY ADEQUACY | N | |
| 72 | APPROACH RDWY ALIGNMENT | 6 | 0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION. |
| 521 | OVERALL CONDITION | FAIR | |
| 16 | LATITUDE | 17 LONGITUDE | |
| | N 36° 6.9450' | W 86° 46.4960' | |
| | <input type="text"/> | <input type="text"/> | |

TEAM LEADER SIGNATURE REVIEW DATE

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Bridge ID#: 19I00650114

Date: 02/12/2018



TUB "A" REPAIRS TYP.



TUB "A" DECK PANEL TYP.

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APPROACH "B" I440



VIEW ACROSS TOP OF WEARING SURFACE

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GUARDRAIL "B" LT. SIDE W/ CORROSION



APPR. "B" JOINT W/ DEBRIS BLD-UP

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ABUTMENT #2 LT. WING W/ MAP CRACKING



EMBANKMENT ABUTMENT #2 W/ EROSION

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BENT #6 - BACK VIEW



PIN - TYP.

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NUT W/ PIN VIEW - TYP.



BEARING DEVICE "B" ABUTMENT #2 W/ CORROSION

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UNDERSIDE VIEW SPAN #6



TUB "B" DECK PANEL SP. #6 W/ REPAIRS

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TUB "B" SP. #5 DIAPHRAGM W/ 1 MISSING BOLT



TUB "B" SP. #5 STIFFNER W/ 2 LOOSE BOLTS

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TUB "B" SP. #5 DIAPH. #5 W/ 1 MISSING BOLT



TUB "B" SP. #4 DIAPH. # 6 W/ 1 MISSING BOLT

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TUB "B" SP. #4 DIAPH. #5 W/ 1 MISSING BOLT



TUB "B" SP. #4 DIAPH. #3 W/ 1 MISSING BOLT

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TUB "B" SP. #3 DIAPH. #6 W/ 1 MISSING BOLT



TUB "B" DECK PANELS SP. #3 W/ REPAIRS

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TUB "B" SP. #3 DIAPH. #4 W/ 1 MISSING BOLT



TUB "B" SP. #2 DIAPH. #6 W/ 2 MISSING BOLTS

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TUB "B" SP. #1 DIAPHRAGM #1 W/ REPAIRS TYP



ABUTMENT #1

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BRIDGE NO.



BEARING DEVICE "A" ABUT. #1 W/ REPAIR

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Date: 02/12/2018



BACKWALL ABUTMENT #1 W/ MAP CRACKING



APPR. "A" JOINT W/ MEMBRANE FAILURE

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BRIDGE INSPECTION REPORT

Page No. _____

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

Field Report No. 22 Date 2/12/2018
Previous Report No. 21 Date 3/7/2016
Plans: DESIGN

Bridge No. 19I00650114
Eleven Digit No.

Bridge Location No. 19 - I0440 - 4.85 LT
Co. Route Log Mile

L4-SN166-LL over L3-SN164 165
Road Name Crossing Structure Name (If Named)

Year Constructed 1985 ACTUAL County Davidson Maintenance District 37

Year Widened _____ Year Rehabilitated _____

FEATURES

Wearing Surface CONCRETE Depth _____ (in.)

Flared Width NO Median Width OPEN

Navigational Control NO Bridge Skew 90°

Structure Type (Main Span) STG

Structure Type (Appr.Spans) _____

No. Main Spans 6 No. Approach Spans _____

Maximum Span Length 281.7' (**.* ft.)

Total Length 1018.3' (**.* ft.)

INSPECTORS

- TL. BILLINGSLEY
- 2. VOGEL
- 3. BROWN
- 4. LOVE
- 5. ALEXANDER
- 6. HAYNES
- 7. GON
- 8. BALLARD

WIDTHS (*.* ft.)

Deck Out-to-Out 44'

Roadway Curb/Curb _____

Roadway Rail/Rail 42'

Sidewalk Rt. _____ Lt. _____

*Approach Roadway 24'

*(Does Not Include Shoulders)

Approach Shoulder Rt. 13

Lt. 5

CLEARANCES

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

Min. Vertical Under Clearance 16' 11" (ft.-in.)

Min. Lateral Under Clearance Rt. 8' (*.* ft.)

Min. Lateral Under Clearance Lt. 6' (*.* ft.)

FRACTURE CRITICAL: YES

(If Yes, Include BIR 3.9)

NBIS Bridge Length (<25 ft.) OVER 25' (ft.-in.)

UNDERWATER INSPECTION

To Be Performed By: N/A Date _____

Change in Structural Condition: YES Major Repairs Made: YES BRIDGE is: OPEN

COMMENTS:

Supervising Bridge Inspector: GEREMY BILLINGSLEY

BRIDGE RATING: FAIR

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PERFORMANCE EVALUATION

Time of Day Inspected 9:00 AM Weather Conditions CLDY 38
Vehicles Observed ALL TYPES

LIVE LOAD BEHAVIOR

| Substructure | Yes/No | Comments |
|---------------------|--------|----------|
| Horiz./ Vert. Defl. | YES | |
| Vibration | YES | |
| Superstructure | | |
| Horiz./ Vert. Defl. | YES | |
| Vibration | NO | |

APPROACH

| | Rating | Comments |
|------------|--------|---------------------------------|
| Alignment | GOOD | |
| Slab | NA | PAVED OVER |
| Joints | GOOD | |
| Pavement | POOR | 'A' END-TRANSV. CRACK & POTHOLE |
| Embankment | GOOD | |
| Drains | GOOD | |

TRAFFIC SAFETY FEATURES

| | Rating | Standard/ SubStandard | Comments |
|--------------------|--------|--------------------------|---|
| Bridgerailing | GOOD | STANDARD | |
| Transitions | POOR | SUBSTANDARD | INCORRECT BLOCKOUTS, DISCONNECTED @ PARAPET |
| Guardrail | FAIR | SUBSTANDARD | INCORRECT BLOCKOUTS, LGH-MOD RUST |
| Guardrail Terminal | GOOD | STANDARD | PAINT FLAKING |

SIGNING

| | Yes/ No/ Needed |
|------------------------------|-----------------|
| Paddleboards | NO/DECALS |
| Vertical Clearance (<14'-6") | NO |
| Narrow Bridge Signs | NO |
| One Lane Bridge Signs | NO |

Weight Limit Posted NO
Gross..... _____ Tons
2 Axle..... _____ Tons
3 or more Axles.. _____ Tons

Other Signs or Plaques:

Comments Regarding any
Problems with Signing:

DECK

| | Rating | Comments |
|-----------------------------|--------|--|
| Wearing Surface | GOOD | CONCRETE--THIN EPOXY OVERLAY |
| Deck - Structural Condition | FAIR | BTM (N/V)--DECK PANEL'S W/ H.C.'S & NUMEROUS PANELS REPAIRED W/EPOXY INJECTION |
| Curbs | NA | |
| Median | NA | |
| Sidewalks | NA | |
| Parapet | GOOD | NUMEROUS VERT. CRACKS W/ EFF. |
| Railing | NA | |
| Paint | NA | |
| Drains | NA | |
| Lighting Standards | NA | |
| Utilities | NA | |
| Joint Leakage | FAIR | MOD DEBRIS & STAINS ON CAPS |
| Expansion Joints | FAIR | LGH. DEBRIS BLD-UP |

SUPERSTRUCTURE

| | | |
|----------------------|------|---|
| Bearing Devices | FAIR | ABUT #1 SLID BACKSTATION 2.0". ABUT #2 "A" & "B" SLID BACKSTATION 1" , MOD CORR & PACK RUST ABUT #1 |
| Girders or Beams | FAIR | REPAIRED 2017 |
| Floor Beams | NA | |
| Stringers | NA | |
| Diaphragms | FAIR | REPAIRED 2017 |
| Bracing | GOOD | |
| Trusses - General | NA | |
| Portals | NA | |
| Bracing | NA | |
| Paint | FAIR | HVY FADING, CHALKING, & FLAKING |
| Alignment of Members | GOOD | |

TEXTURE COAT

| | | | |
|--------------------|-------------|---------------------|------------|
| Condition Rating | <u>FAIR</u> | Needs Spot Painting | <u>NO</u> |
| Overall Appearance | <u>FAIR</u> | Needs Repainting | <u>YES</u> |
| Staining Rating | <u>FAIR</u> | Comments | |
| Fading Rating | <u>FAIR</u> | | |
| Scaling Rating | <u>FAIR</u> | | |

SUBSTRUCTURE

ABUTMENTS

| | Rating | Comments |
|-----------------|--------|---|
| Caps | FAIR | VERT, HORIZ, & MAP CRACKING UP TO 1/16" OPEN, ABUT #2 - SPALL W/EXP. STL. |
| Breastwall | NA | |
| Wings | FAIR | MAP CRACKING |
| Backwall | FAIR | ABUT. #1-SPALL W/EXP STL -PATCHED 2017 |
| Plumb | GOOD | |
| Footing | NA | |
| Piles | NA | |
| Embankment | FAIR | ABUT #2-EROSION LT SIDE |
| Bearing Surface | GOOD | |
| Slope Paving | GOOD | |
| Rip Rap | NA | |

PIERS

| | | |
|-----------------|------|--------------|
| Caps | GOOD | |
| Columns | GOOD | |
| Plumb | GOOD | |
| Footings | GOOD | VERT. H.C.'S |
| Piles | NV | |
| Bearing Surface | GOOD | |

BENTS

| | | |
|-----------------|----|--|
| Caps | NA | |
| Columns | | |
| Plumb | | |
| Footings | | |
| Piles | | |
| Bearing Surface | | |

Piles Need Replacement: NO

Piles To Be Replaced:

FRACTURE CRITICAL MEMBERS AND DETAILS

Form BIR 3.9
(Rev. 9-22-98)
DT-1507

Bridge Location No. 19 - I0440 - 4.85 LT
Co. Route Log Mile

Date 2/12/2018

Note: Questions I and II Both Must be Answered.

- I. Is This a Non-Redundant Bridge? YES (If YES then Answer Question III)
- II. Does It Have Fracture Critical Details? YES (If YES then Answer Question IV)

Note: Answer YES to Only Those Items That Apply for Questions III and IV.

III. Type of Non-Redundant Bridge

- 1. Simply Supported Two Girder System.....
- 2. Continuous Two Girder System..... YES
- 3. Simply Supported Truss.....
- 4. Continuous Truss.....
- 5. Simply Supported Longitudinal Box Beam..
- 6. Continuous Longitudinal Box Beam.....
- 7. Suspension Bridge.....
- 8. Tied Arch Bridge.....
- 9. Steel Pier/Bent Cap..... YES
- 10. Single Bearing Device..... YES

IV. Fracture Critical Details:

- 1. Changes in Cross Section at:
 - a. Cover Plates..... NO
 - b. Insert Plates..... NO
 - c. Coped Sections..... NO
- 2. Framing System Member Connected at Tension Areas of:
 - a. Floor Beams..... NO
 - b. Bracing Mambers..... YES
 - c. Diaphragms or Cross Frames..... YES
- 3. Web Stiffeners..... YES
- 4. Eyebars..... NO
- 5. Pin and Hanger Connections..... NO
- 6. Single Bearing Devices..... YES

IV. Structural Condition of Fracture Critical Member and Details: (Note Location)

- 1. a. Cracking of Fracture Critical Members. NO
- b. Cracking of Fracture Critical Details.... NO
- 2. a. Corrosion of Fracture Critical Members.. NO
- b. Corrosion of Fracture Critical Details..... NO

IV. Comments:

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Inspection Team's Summary
Bridge Location No. 19 - I0440 - 4.85 LT
Inspection Date 2/12/2018
Bridge Rating FAIR

Approach alignment is good. The approach slabs have been paved over. Approach Embankment is fair due to moderate erosion at the 'B' end. The approach joints are good. Approach drains are poor with settlement and debris accumulation at the 'B' end. Bridge rail is standard and good. Approach guardrailing is good. Approach transition is poor being disconnected at the 'A' end left side.

The thin epoxy overlay is good. Deck panels have hairline cracks with efflorescence, and epoxy injected repaired areas. Expansion joints are fair with light debris build-up. Joint leakage shows some moderate debris and stains over the abutment caps.

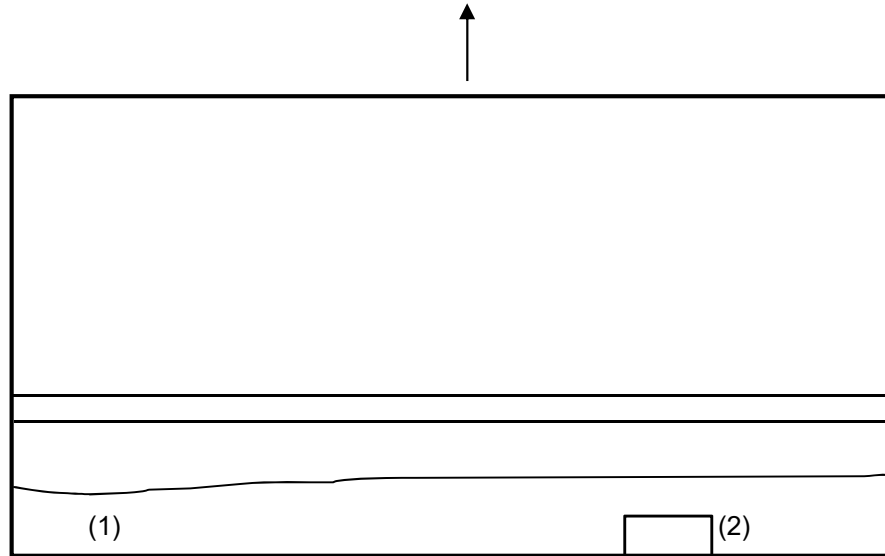
Box girders are fair with repairs in 2017. Diaphragms are fair with repairs made in 2017. Single pin bearing devices, bracing, and alignment of these members are good. Paint is poor with heavy fading, flaking, and chalking.

Abutment bearings are fair with moderate corrosion, plates have shifted 2" - 3" from centerline of bearings. Abutments caps, backwalls, and wings are fair with vertical, horizontal, and map cracks noted. Bents are good. Slope pavement is fair at abutment #2 due to moderate erosion along the left side.

Approach 'A'

Date 2/12/2018
JB

Bridge Location No. 19 I-440 4.85 LT
County Route Log Mile

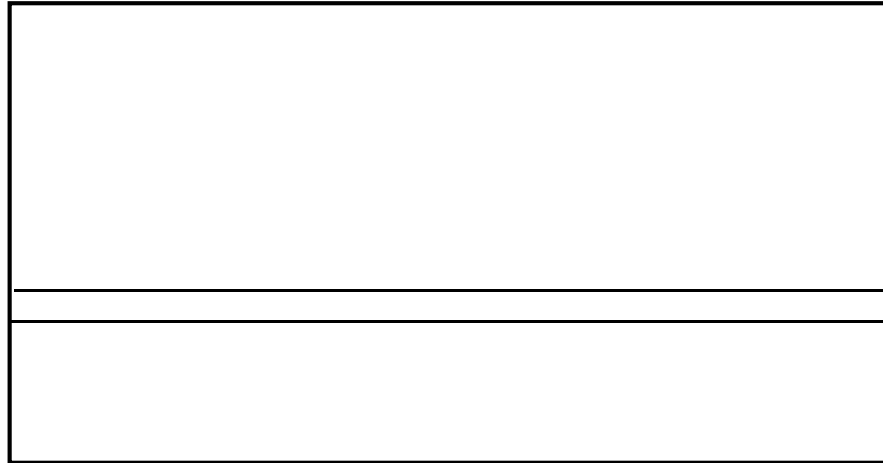


| | | |
|----------|------|---|
| SLAB | GOOD | |
| | | |
| | | |
| JOINTS | GOOD | |
| | | |
| | | |
| PAVEMENT | POOR | CONCRETE- (1) TRANSV. CRACK UP TO 1/2" OPEN, (2) POTHOLE/FAILING A/C PATCHES 20'L X 8"W X 4"DP |
| | | |
| | | |
| EMBANK | GOOD | |
| | | |
| | | |
| DRAINS | GOOD | |
| | | |
| | | |
| G-RAIL | GOOD | |
| | | |
| | | |

Approach 'B'

Date 2/12/2018
JB

Bridge Location No. 19 I-440 4.85 LT
County Route Log Mile

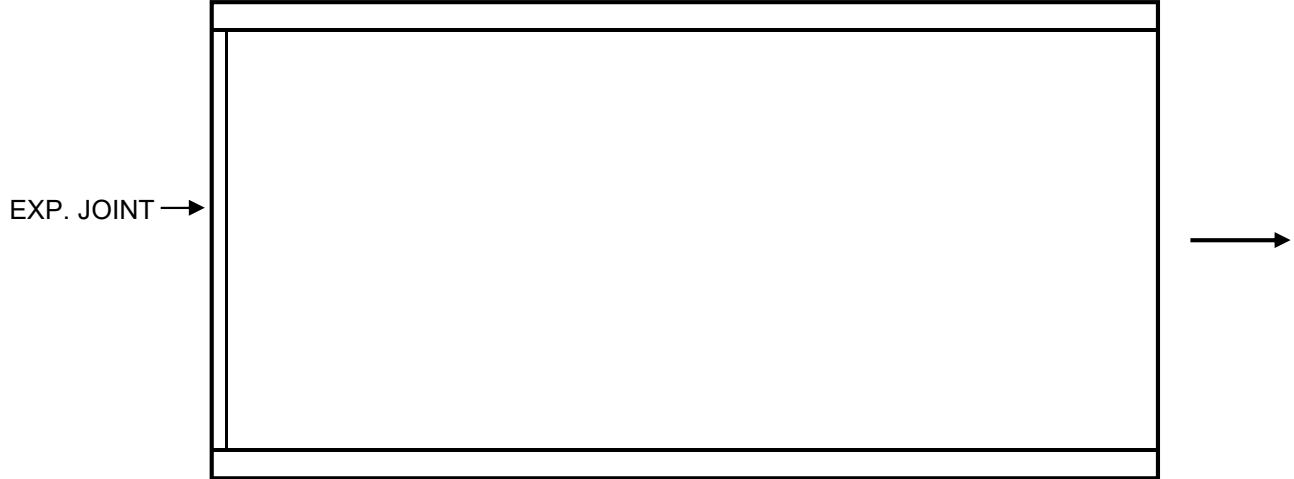


| | | |
|----------|------|---------------------|
| SLAB | GOOD | |
| | | |
| | | |
| JOINTS | GOOD | |
| | | |
| | | |
| PAVEMENT | GOOD | CONCRETE |
| | | |
| | | |
| EMBANK | GOOD | (1) LIGHT CORROSION |
| | | |
| | | |
| DRAINS | GOOD | |
| | | |
| | | |
| G-RAIL | FAIR | MOD. RUST/CORROSION |
| | | |
| | | |

Top of Deck Span No. 1

Date 2/12/2018
JB

Bridge Location No. 19 I-440 4.85 LT
County Route Log Mile

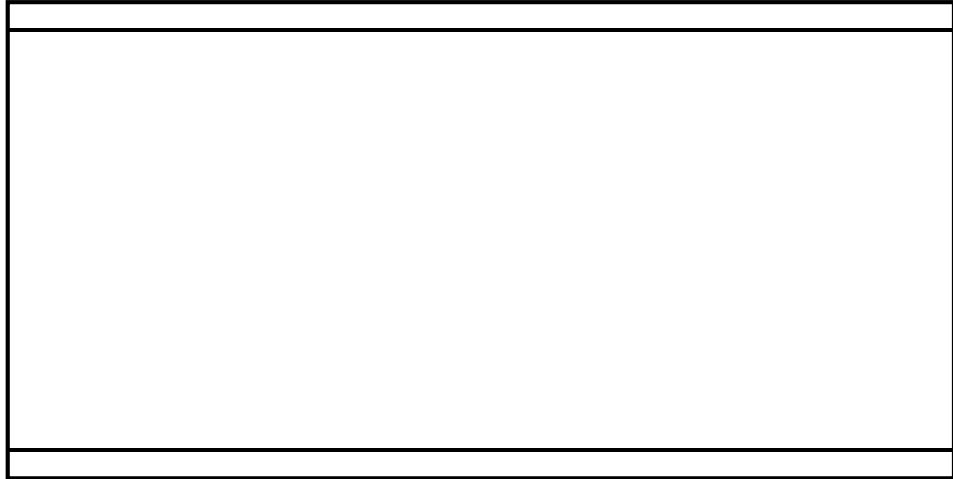


| | | |
|---------|------|---------------------------------------|
| DECK | GOOD | NEW THIN EPOXY OVERLAY-TYP |
| | | |
| PARAPET | GOOD | RANDOM VERT. H.C.'S, NEW TEXTURE COAT |
| | | |
| JOINT | GOOD | LGH. BLD-UP ON SHOULDERS |
| | | |
| | | |
| | | |
| | | |

Top of Deck Span No. 2

Date 2/12/2018
JB

Bridge Location No. 19 I-440 4.85 LT
County Route Log Mile

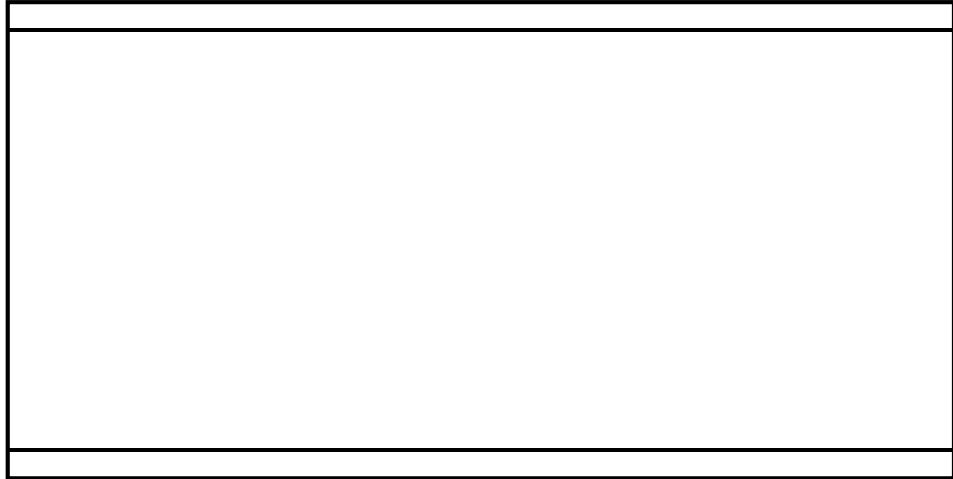


| | | |
|---------|------|---------------------------------------|
| DECK | GOOD | THIN EPOXY OVERLAY |
| | | |
| | | |
| PARAPET | GOOD | RANDOM VERT. H.C.'S, NEW TEXTURE COAT |
| | | |
| | | |
| | | |
| | | |
| | | |

Top of Deck Span No. 3

Date 2/12/2018
JB

Bridge Location No. 19 I-440 4.85 LT
County Route Log Mile

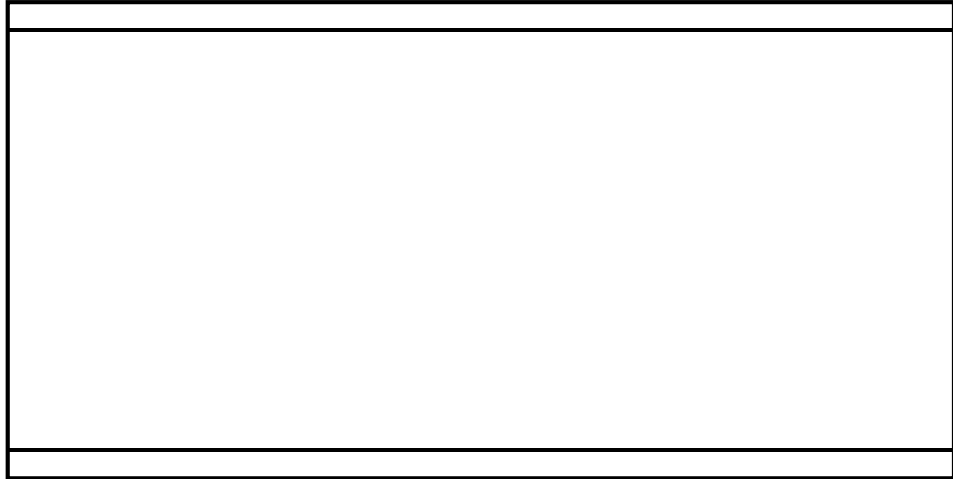


| | | |
|---------|------|---------------------------------------|
| DECK | GOOD | THIN EPOXY OVERLAY |
| | | |
| | | |
| PARAPET | GOOD | RANDOM VERT. H.C.'S, NEW TEXTURE COAT |
| | | |
| | | |
| | | |
| | | |
| | | |

Top of Deck Span No. 4

Date 2/12/2018
JB

Bridge Location No. 19 I-440 4.85 LT
County Route Log Mile

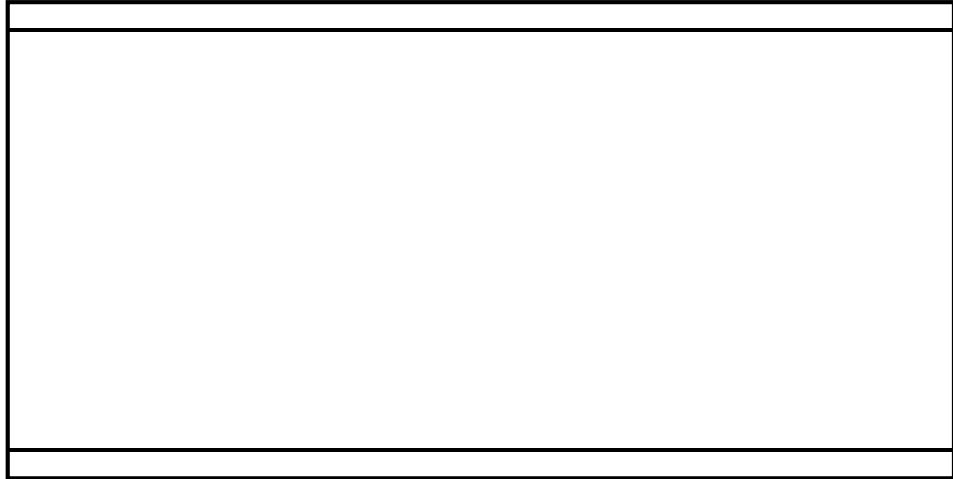


| | | |
|---------|------|---------------------|
| DECK | GOOD | THIN EPOXY OVERLAY |
| | | |
| | | |
| PARAPET | GOOD | RANDOM VERT. H.C.'S |
| | | |
| | | |
| | | |
| | | |
| | | |

Top of Deck Span No. 5

Date 2/12/2018
JB

Bridge Location No. 19 I-440 4.85 LT
County Route Log Mile

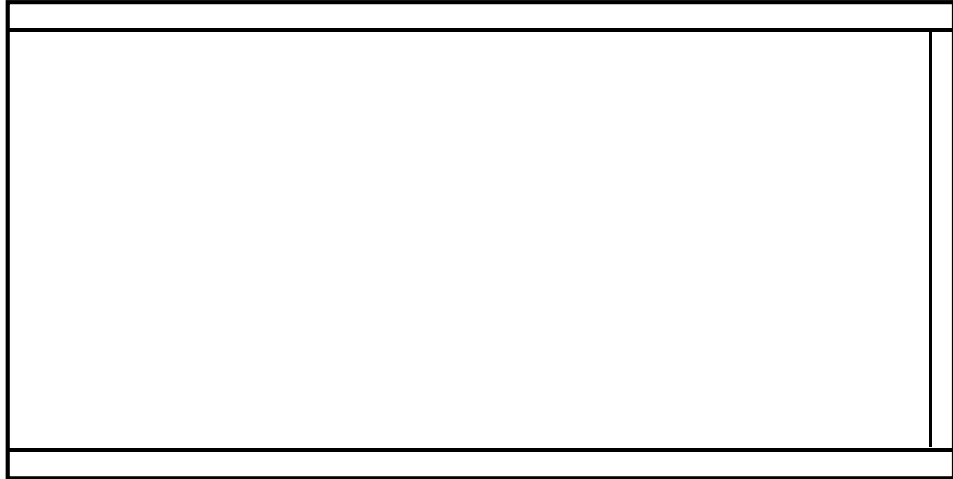


| | | |
|---------|------|---------------------|
| DECK | GOOD | THIN EPOXY OVERLAY |
| | | |
| | | |
| PARAPET | GOOD | RANDOM VERT. H.C.'S |
| | | |
| | | |
| | | |
| | | |

Top of Deck Span No. 6

Date 2/12/2018
JB

Bridge Location No. 19 I-440 4.85 LT
County Route Log Mile

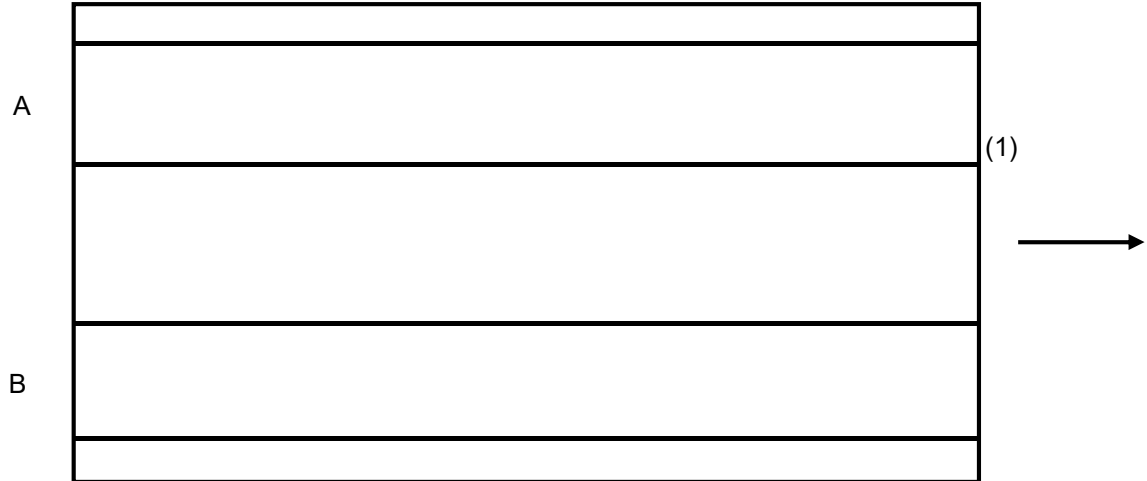


| | | |
|---------|------|---------------------|
| DECK | FAIR | |
| | | |
| | | |
| PARAPET | GOOD | RANDOM VERT. H.C.'S |
| | | |
| | | |
| JOINT | FAIR | LGH. DEBRIS BLD-UP |
| | | |
| | | |
| | | |
| | | |

Bottom of Slab Span No. 1

Date 2/12/2018
MA

Bridge Location No. 19 I440 4.85 LT.
County Route Log Mile

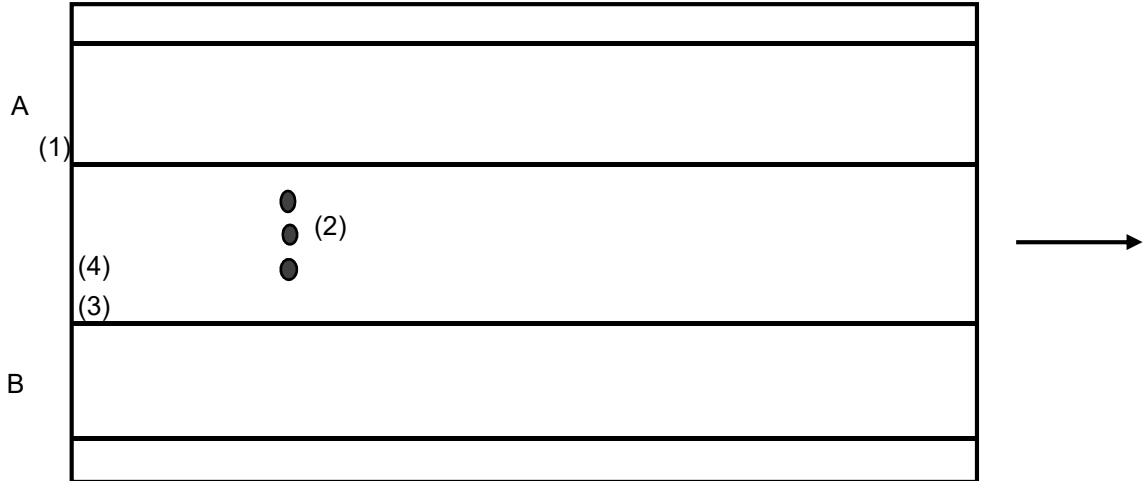


| | | |
|------------|------|--|
| DECK | FAIR | LIGHT HONEYCOMB AREAS TYP. ALL SPANS, NUMEROUS REPAIRED AREAS WITH EPOXY INJECTION. FAILED EXPOXY REPAIRE TUB 'A' PANEL #7 |
| | | |
| DIAPH. | FAIR | REPAIRED 2017 |
| | | |
| TUBS | FAIR | REPAIRED 2017 |
| | | |
| OVER-HANGS | GOOD | H.L. CRACKS W/ EFF. TYP. ALL SPANS |
| | | |
| PAINT | POOR | HVY FADING, CHAULKING, & FLAKING |
| | | |

Bottom of Slab Span No. 2

Date 2/12/2018
MA

Bridge Location No. 19 I440 4.85 LT.
County Route Log Mile

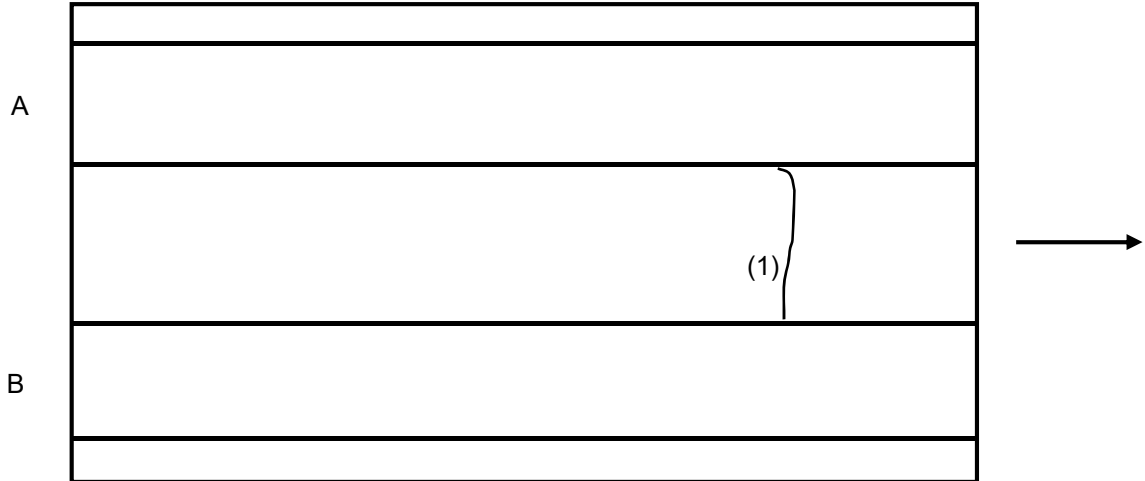


| | | |
|----------|------|--|
| DECK | FAIR | LIGHT HONEYCOMB AREAS TYP. ALL SPANS, NUMEROUS REPAIRED AREAS |
| | | WITH EPOXY INJECTION. (2) SPALLS UP TO 1' X 1' DP @ 6TH PANEL FROM |
| | | PIER 1 |
| DIAPH. | FAIR | TUB 'B' DIAPH #6-2 MISSING BOLTS, REPAIRED 2017 |
| | | |
| | | |
| TUBS | FAIR | REPAIRED 2017 |
| | | |
| | | |
| | | |
| | | |
| | | |
| OVERHANG | GOOD | |
| | | |

Bottom of Slab Span No. 3

Date 2/12/2018
MA

Bridge Location No. 19 I440 4.85 LT.
County Route Log Mile

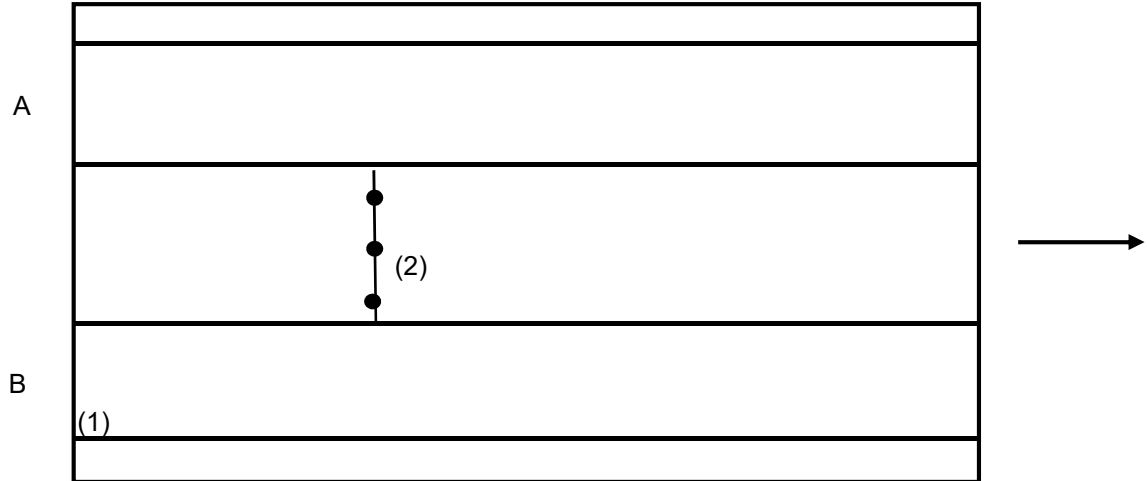


| | | |
|------------|------|---|
| DECK | FAIR | LIGHT HONEYCOMB AREAS TYP. ALL SPANS, NUMEROUS REPAIRED AREAS WITH EPOXY INJECTION. GIRDER 'B' PANEL #6 TRANSV H.C. W/EFF & FAILING PATCH, (1) H.L. TRANSV CRACK W/EFF @ 6TH PANEL FROM BENT 3, JOINT LEAKAGE BTWN PANELS GIRDER #6, TUB 'B' DECK PANEL BTWN DIAPH #3 & #4-SPALL 4" X 3" X 1/2" DP. |
| DIAPH. | FAIR | TUB 'B' DIAPH'S #2 & #5-MISSING BOLTS & NUTS, REPAIRED 2017 |
| TUBS | FAIR | REPAIRED 2017 |
| OVER-HANGS | GOOD | |
| PAINT | POOR | HVY FADING, CHAULKING, & FLAKING |

Bottom of Slab Span No. 4

Date 2/12/2018
MA

Bridge Location No. 19 I440 4.85 LT.
County Route Log Mile

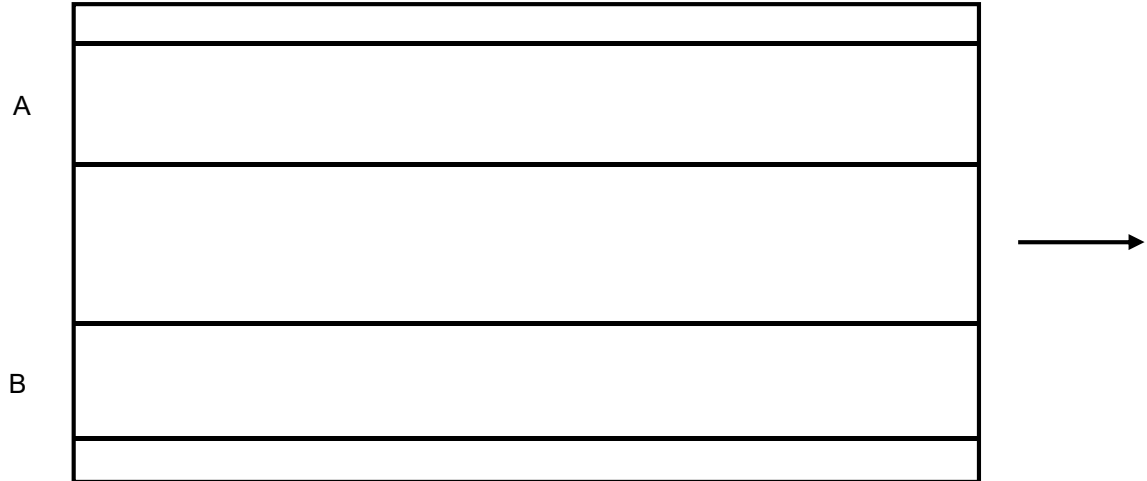


| | | |
|------------|------|--|
| DECK | FAIR | LIGHT HONEYCOMB AREAS TYP. ALL SPANS, NUMEROUS REPAIRED AREAS |
| | | W/EPOXY INJECTION., (2) SPALLS UP TO 6" DIA W/TRANS. H.C. @ PANEL #6 |
| DIAPH. | FAIR | REPAIRED 2017, TUB 'B' DIAPHS #2 , #3, & #5-MISSING NUTS & BOLTS |
| TUBS | FAIR | REPAIRED 2017 |
| OVER-HANGS | GOOD | |
| PAINT | POOR | HVY CHAULKING, FADING, & FLAKING |
| | | |
| | | |

Bottom of Slab Span No. 5

Date 2/12/2018
MA

Bridge Location No. 19 I440 4.85 LT.
County Route Log Mile

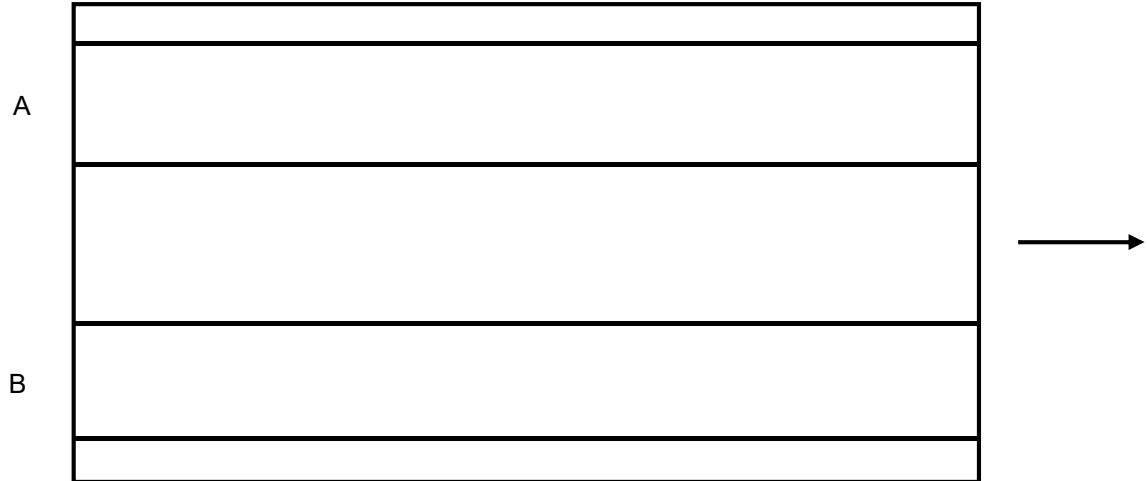


| | | |
|------------|------|--|
| DECK | FAIR | LIGHT HONEYCOMB AREAS TYP. ALL SPANS, NUMEROUS REPAIRED AREAS WITH EPOXY INJECTION. |
| | | |
| DIAPH. | FAIR | REPAIRED 2017, TUB 'B' DIAPH #5 & #6-MISSING BOLT & NUT, TUB 'B' STRINGER BTWN DIAPH'S #3 & #4 LOOSE NUT |
| | | |
| TUBS | FAIR | REPAIRED 2017 |
| | | |
| OVER-HANGS | GOOD | |
| | | |
| PAINT | POOR | HVY CHAULKING, FADING, & FLAKING |
| | | |

Bottom of Slab Span No. 6

Date 2/12/2018
MA

Bridge Location No. 19 I440 4.85 LT.
County Route Log Mile

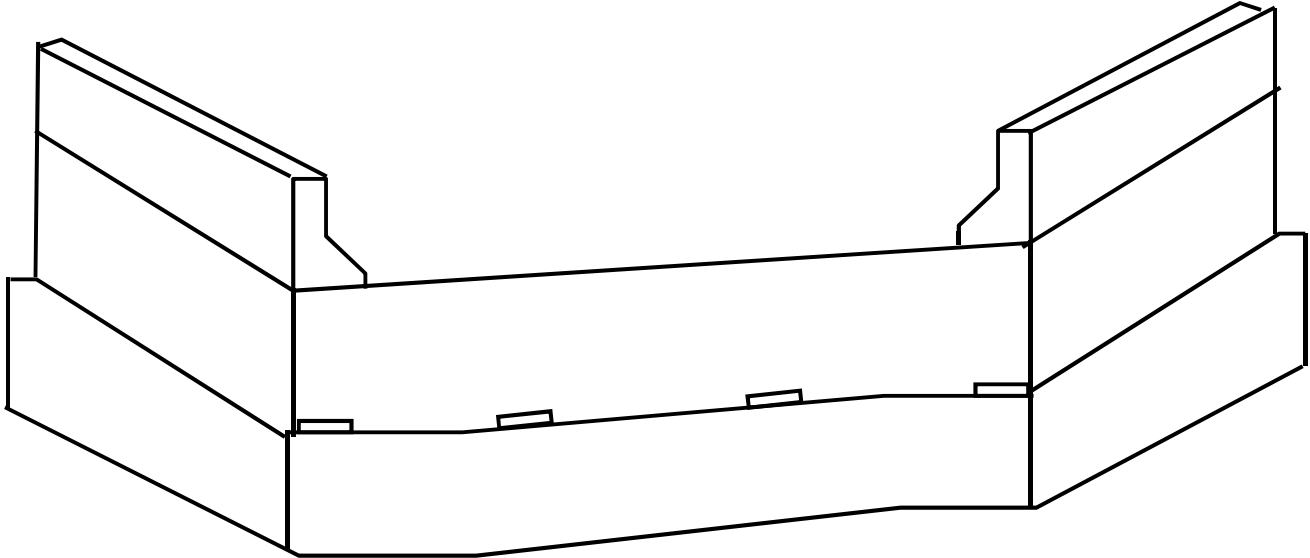


| | | |
|------------|------|---|
| DECK | FAIR | LIGHT HONEYCOMB AREAS TYP. ALL SPANS, NUMEROUS REPAIRED AREAS WITH EPOXY INJECTION. |
| | | |
| DIAPH. | FAIR | REPAIRS 2017 |
| | | |
| TUBS | FAIR | REPAIRS 2017 |
| | | |
| OVER-HANGS | GOOD | |
| | | |
| PAINT | POOR | HVY FADING, CHAULKING, & FLAKING |
| | | |
| | | |

Abutment No. 1

Date 2/12/2018
MA

Bridge Location No. 19 I440 4.85 LT.
County Route Log Mile

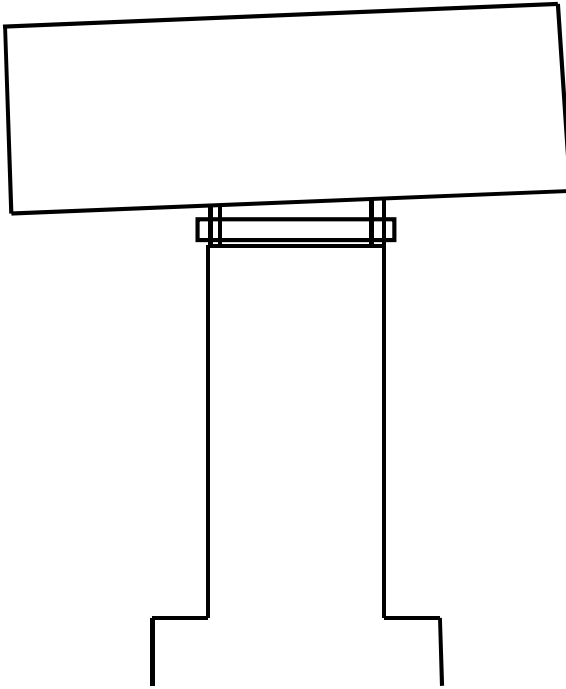


| | | |
|----------|------|---|
| BACKWALL | FAIR | PATTERN & MAP CRACKS, PATCHES |
| | | |
| CAP | FAIR | VERT. HORIZ, & MAP CRACKS UP TO 1/16" OPEN |
| | | |
| WINGS | FAIR | MAP CRACKS |
| | | |
| RISERS | GOOD | |
| | | |
| BEARINGS | FAIR | MOD RUST, CORR., & FLAKING ALL BEARINGS ARE SHIFTED |
| | | BACKSTATION 2" |
| | | |

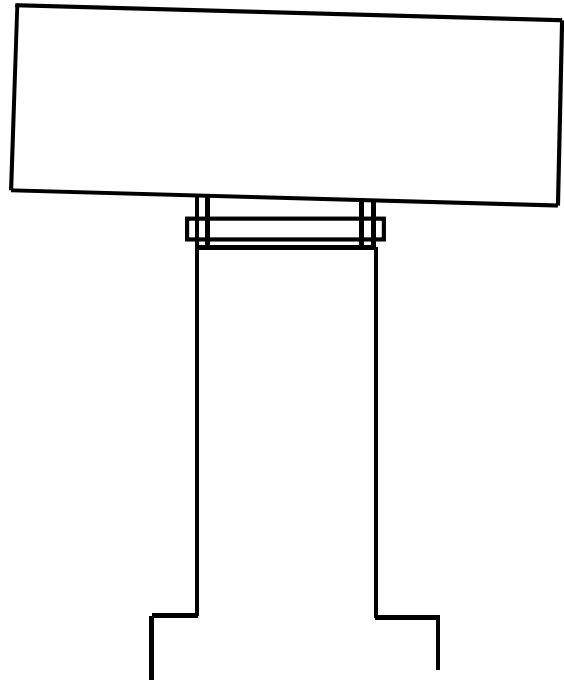
BENT # 1

Date 2/12/2018
MA

Bridge Location No. 19 I440 4.85 LT.
County Route Log Mile



FRONT



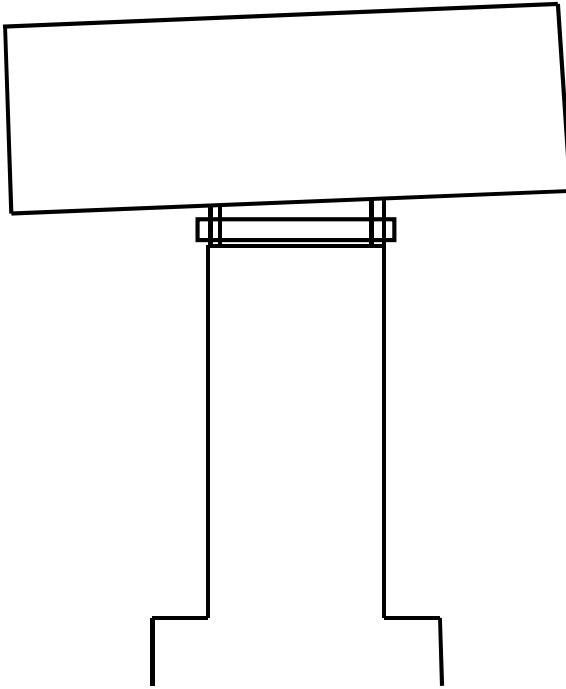
BACK

| | | |
|---------|------|--------------------------------|
| CAP | NA | |
| | | |
| COLUMN | GOOD | |
| | | |
| PIN | GOOD | |
| | | |
| FOOTING | GOOD | RANDOM VERT. CRACKS 1/16" OPEN |
| | | |
| | | |
| | | |

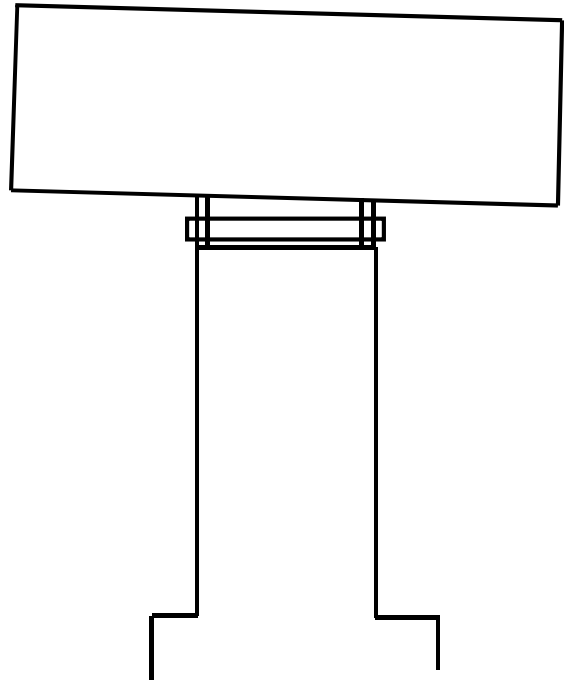
BENT # 2

Date 2/12/2018
MA

Bridge Location No. 19 1440 4.85 LT.
County Route Log Mile



FRONT



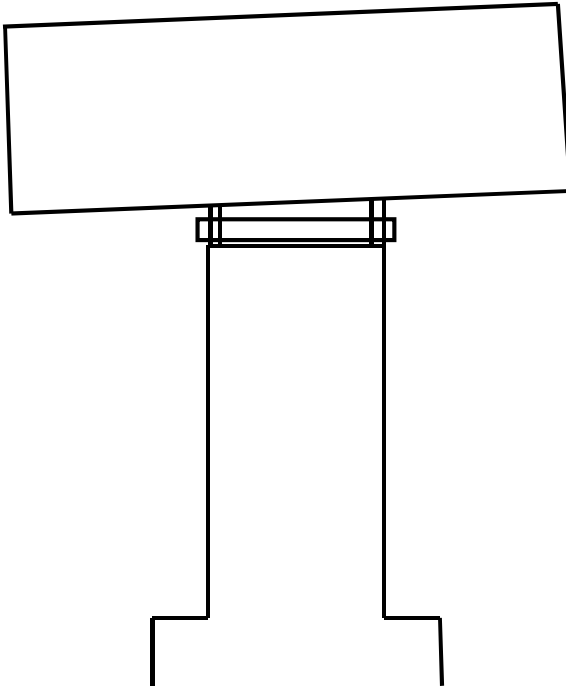
BACK

| | | |
|---------|------|--------------------------------|
| CAP | NA | |
| | | |
| COLUMN | GOOD | |
| | | |
| PIN | GOOD | |
| | | |
| FOOTING | GOOD | RANDOM VERT. CRACKS 1/16" OPEN |
| | | |
| | | |
| | | |

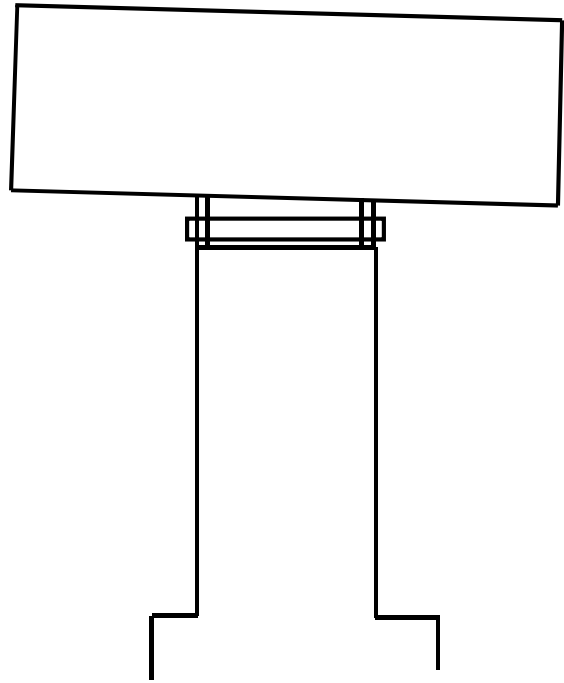
PIER # 3

Date 2/12/2018
MA

Bridge Location No. 19 I440 4.85 LT.
County Route Log Mile



FRONT



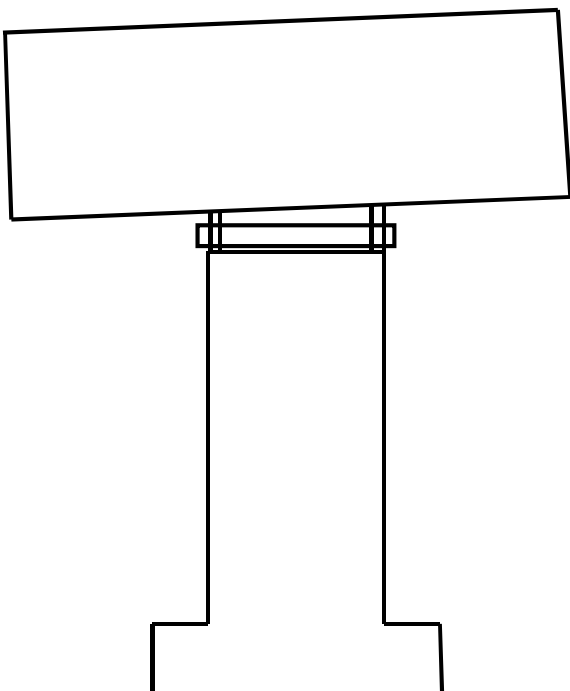
BACK

| | | |
|---------|------|--------------------------------------|
| CAP | NA | |
| | | |
| COLUMN | GOOD | |
| | | |
| PIN | GOOD | |
| | | |
| FOOTING | GOOD | RANDOM VERT. CRACKS UP TO 1/16" OPEN |
| | | |
| | | |
| | | |

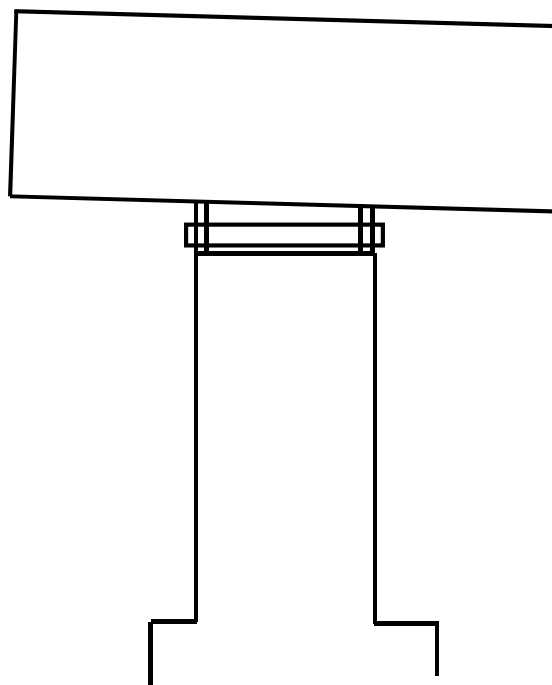
PIER# 4

Date 2/12/2018
MA

Bridge Location No. 19 I440 4.85 LT.
County Route Log Mile



FRONT



BACK

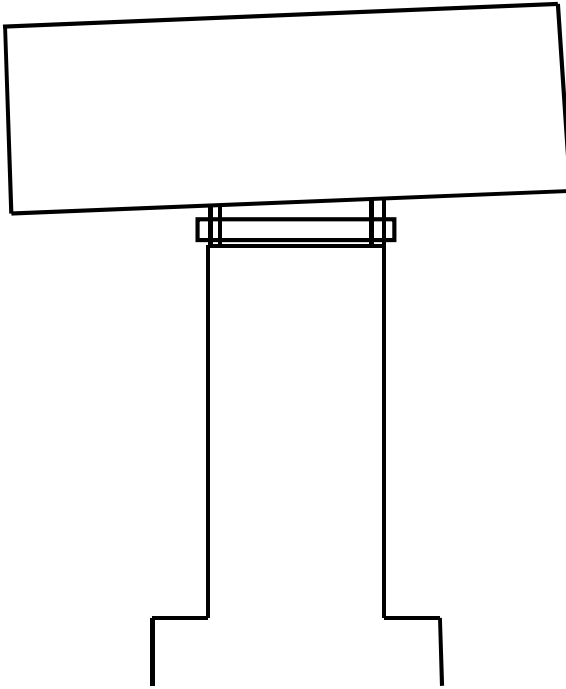
| | | |
|---------|------|--|
| CAP | NA | |
| | | |
| COLUMN | GOOD | |
| | | |
| PIN | GOOD | |
| | | |
| FOOTING | GOOD | |
| | | |
| | | |
| | | |

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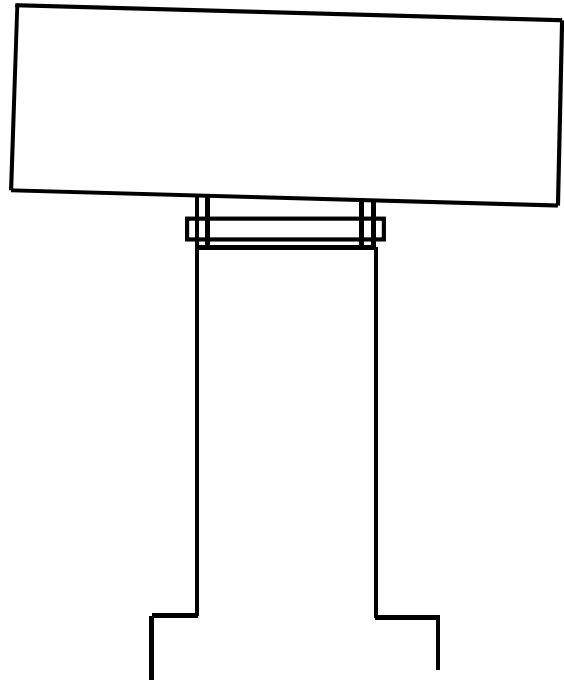
PIER # 5

Date 2/12/2018
MA

Bridge Location No. 19 1440 4.85 LT.
County Route Log Mile



FRONT



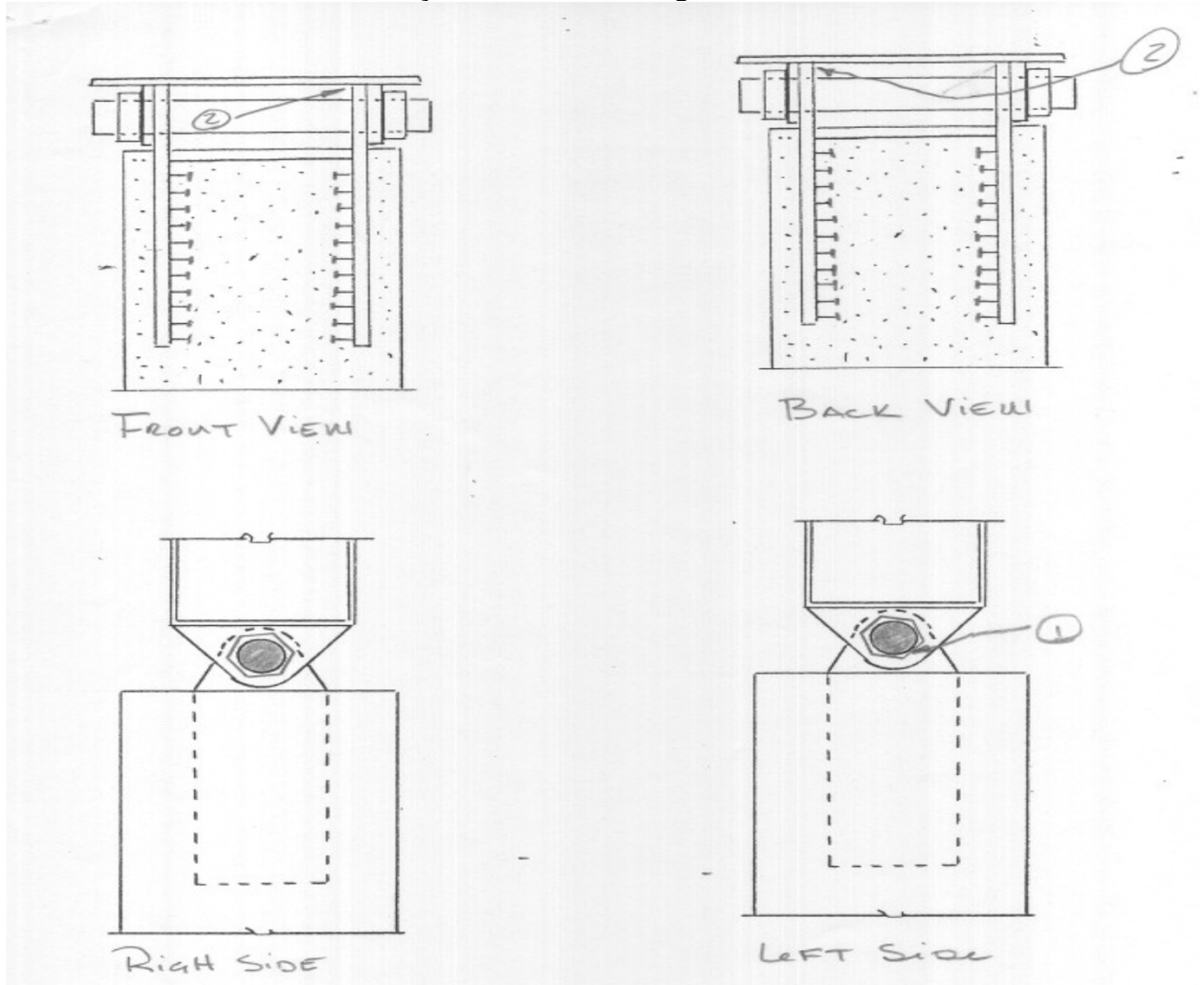
BACK

| | | |
|---------|------|--|
| CAP | NA | |
| | | |
| COLUMN | GOOD | |
| | | |
| PIN | GOOD | |
| | | |
| FOOTING | GOOD | RANDOM VERT. CRACKS UP TO 1/16" OPEN W/ EFF. |
| | | |
| | | |
| | | |

PIER # 5

Date 2/12/2018
MA

Bridge Location No. 19 I440 4.85 LT.
County Route Log Mile



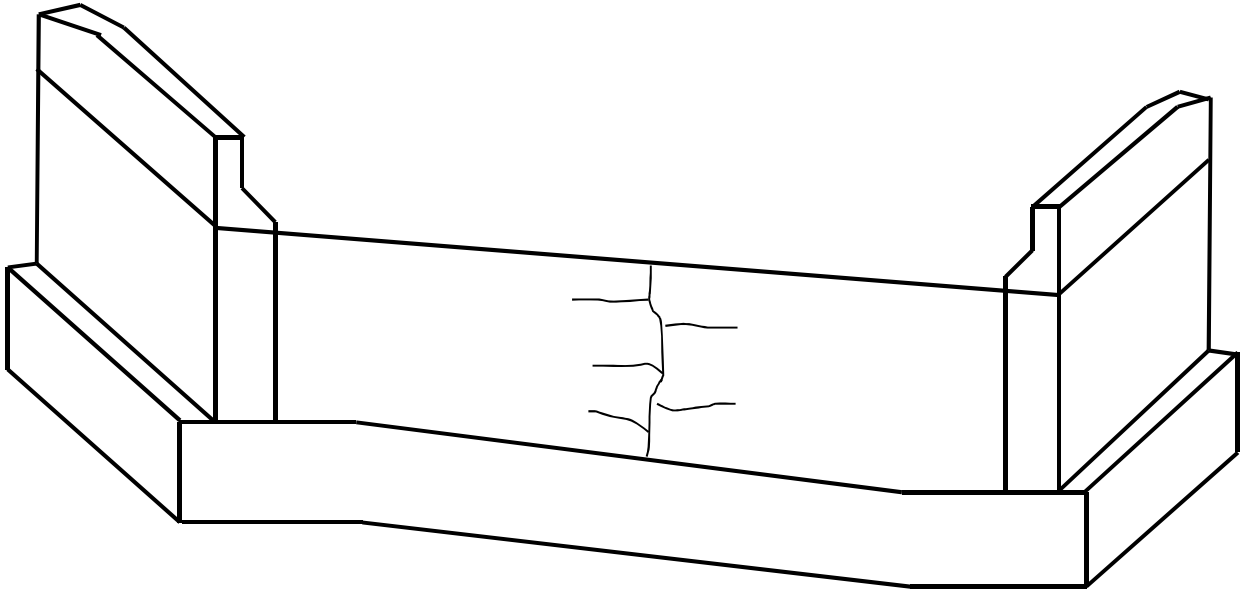
| | | |
|---------|------|-----------------------------------|
| BEARING | GOOD | |
| | | |
| PIN | GOOD | |
| | | |
| NUT | GOOD | (1) ROTATION RT. SD. |
| | | |
| PLATES | GOOD | |
| | | |
| WELDS | GOOD | INCOMPLETE WELD INSIDE SOLE PLATE |
| | | |

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Abutment No. 2

Date 2/12/2018
MA

Bridge Location No. 19 I440 4.85 LT.
County Route Log Mile



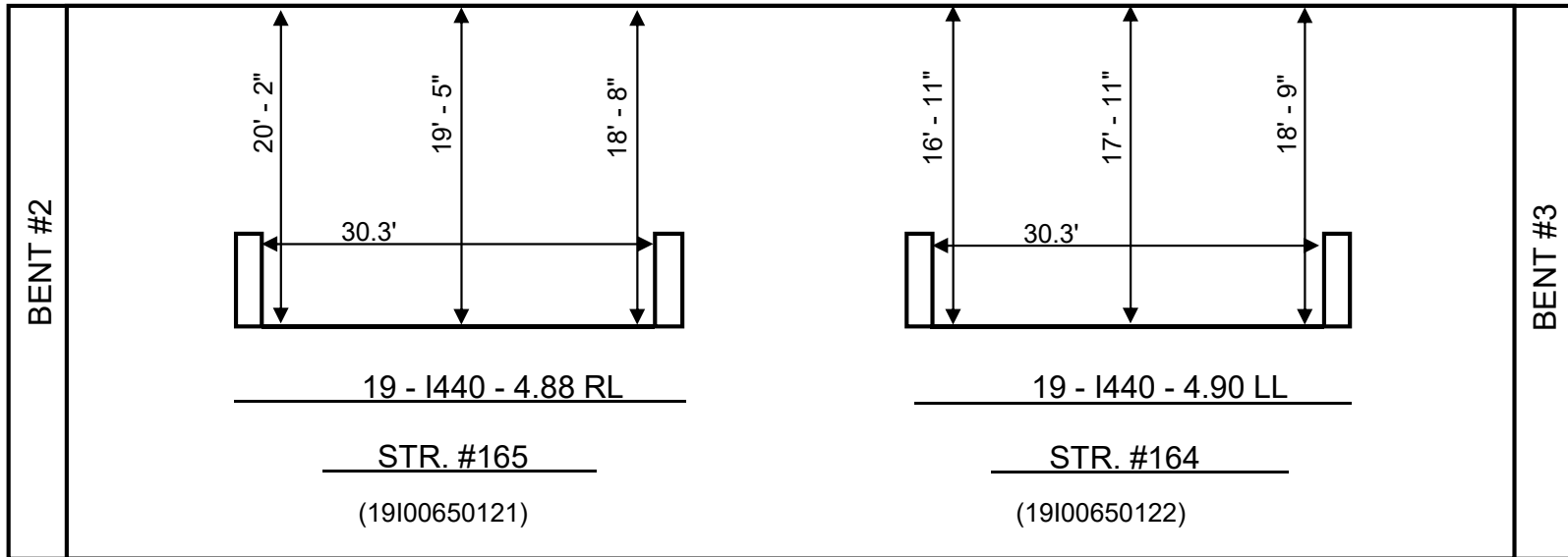
| | | |
|-------------|------|---|
| BACKWALL | FAIR | MAP CRACKS W/ EFF. UPTO .010" OPEN |
| | | |
| CAP | FAIR | VERT. MAP CRACKS UP TO 1/16" OPEN, H.S. POPOUT 1'L X 1.5"H X 1/4"DP |
| | | |
| WINGS | FAIR | RANDOM H.L. MAP CRACKS |
| | | |
| RISERS | GOOD | |
| | | |
| BEARINGS | FAIR | LIGHT RUST & CORR., ALL BEARINGS SHIFTED BACKSTATION 1" |
| | | |
| SLOPE PAVE. | FAIR | EROSION ALONG TOP LEFT SIDE UP TO 20'L X 1.5' H X 5' UNDER |
| | | |

CLEARANCE SKETCH

Date 2/12/2018

Bridge Location No. 19 I440 4.85 LT
 County Route Log Mile

19 - I440 - 4.85 LT
STR. #166



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