

ATTENTION: PAR ISSUED, UPDATED SUPERSTRUCTURE SKETCH, UPDATED SOUTN BOUND LANE UNDERCLEARANCE SKETCH, UPDATED NORTH BOUND LANE UNDERCLEARANCE SKETCH.

# **Structure Safety Report**

## **Routine Element Inspection - Contract**

**INSPECTION DATE**: 05/17/2019

| DIVISION: 6 COUNTY: ROBESON               | STRUCTURE NUMBI  | ER: 770100   | FRE                    | QUENCY: 24 MONT        | HS                 |
|---|--|--------------|------------------------|------------------------|--------------------|
| FACILITY CARRIED: US301                   |  |              | MILE POST:             | :                      |                    |
| LOCATION: 0.5 MI.S.JCT.SR1727             |  |              |                        |                        |                    |
| FEATURE INTERSECTED: 195                  |  |              |                        |                        |                    |
| LATITUDE: 34° 50′ 0.83"                   | LONGITUDE: 78° 58' 42.   | 65"          |                        |                        |                    |
| SUPERSTRUCTURE: REINFORCED CC             | NCRETE FLOOR ON I-BEAMS  |              |                        |                        |                    |
| SUBSTRUCTURE: E.BTS:RC CAPS/PPC           | PILES ; BTS:RCP&B/PPC PILE FTG   | S.           |                        |                        |                    |
| SPANS: 4 SPANS. SEE SPAN PROFIL           | E SHEET FOR SPAN DETAILS   |              |                        |                        |                    |
| FRACTURE CRITICAL TEMPO                   | RARY SHORING SCOUR CR  | ITICAL       | SCOUR                  | PLAN OF ACTION         |                    |
| NBI GRADES: DECK 6 SU                     | PERSTRUCTURE 5 SUBSTRU   | CTURE 5      | CULVER                 | RT N                   |                    |
| POSTED SV: Not Posted                     | POSTED   | TST: Not Pos | ted                    |                        |                    |
|   |  |              |                        |                        |                    |
| OTHER SIGNS PRESENT: NONE                 |  |              |                        |                        |                    |
| The second second                         |  |              |                        |                        |                    |
|   |  |              | Sign notice issued for |                        | Number<br>Required |
|   |  |              | NO                     | WEIGHT LIMIT           | 0                  |
| Market .                                  | The same of the sa | e Charles    | NO                     | DELINEATORS            | 0                  |
|   | A Boy Looking  |              | NO                     | NARROW BRIDGE          | 0                  |
| N. S. |  |              | NO                     | ONE LANE BRIDGE        | 0                  |
|   |  |              | NO                     | LOW CLEARANCE          | 0                  |
|   |  |              |                        |                        |                    |
|   |  |              |                        | CTION OF S-N           |                    |
|   |  |              |                        | ECTION<br>HES PLANS NO | PLANS              |
| COVER SHEET PHOTO LOOKING NOR             | RTH  |              | T                      |                        |                    |
| INSPECTED BY JOHN T. EUBANKS              | SIGNATURE John 7. Eds  | anke         | ASSISTED BY            | Y FELTON W. BERGE      | ER                 |

## **Structure Element Scoring**

Structure Number: 770100 Inspection Date 5/17/2019

| Element<br>Number | Parent<br>Number | Element Name                       | Location          | Total<br>Quantity | Level 1<br>Quantity | Level 2<br>Quantity | Level 3<br>Quantity | Level 4<br>Quantity |
|-------------------|------------------|------------------------------------|-------------------|-------------------|---------------------|---------------------|---------------------|---------------------|
| 12                | О                | Reinforced Concrete Deck           | Deck              | 8808              | 7342                | 1418                | 48                  | 0                   |
| 107               | 0                | Steel Open Girder/Beam             | Beam              | 1112              | 1071                | 40                  | 1                   | 0                   |
| 515               | 107              | Steel Protective Coating           | Beam              | 11184             | 11155               | 21                  | 7                   | 1                   |
| 205               | 0                | Reinforced Concrete Column         | Piles and Columns | 9                 | 5                   | 4                   | 0                   | 0                   |
| 215               | 0                | Reinforced Concrete Abutment       | Abutments         | 104               | 77                  | 4                   | 23                  | 0                   |
| 226               | 0                | Prestressed Concrete Pile          | Foundation Pile   | 3                 | 3                   | 0                   | 0                   | 0                   |
| 226               | 0                | Prestressed Concrete Pile          | Piles and Columns | 20                | 20                  | 0                   | 0                   | 0                   |
| 234               | 0                | Reinforced Concrete Pier Cap       | Caps              | 218               | 162                 | 44                  | 12                  | 0                   |
| 302               | 0                | Compression Joint Seal             | Expansion Joints  | 225               | 114                 | 93                  | 18                  | 0                   |
| 316               | 0                | Other Bearings                     | Bearing Device    | 32                | 9                   | 12                  | 11                  | 0                   |
| 515               | 316              | Steel Protective Coating           | Bearing Device    | 88                | 64                  | 2                   | 20                  | 2                   |
| 321               | 0                | Reinforced Concrete Approach Slabs | Approaches        | 870               | 845                 | 0                   | 25                  | 0                   |
| 331               | 0                | Reinforced Concrete Bridge Railing | Bridge Rail       | 564               | 0                   | 494                 | 70                  | 0                   |
| 510               | 0                | Wearing Surface                    | Wearing Surfaces  | 7850              | 7838                | 2                   | 10                  | 0                   |

## **Summary of Maintenance Needs**

### Maintenance By Defect

Structure Number: 770100 Inspection Date: 05/17/2019

| MMS<br>Code | Element Name                       | Defect Name                               | Recommended Quantity |
|-------------|------------------------------------|---|----------------------|
| 3326        | Reinforced Concrete Deck           | Delamination/Spall                        | 61 Square Feet       |
| 3326        | Reinforced Concrete Deck           | Cracking (RC and Other)                   | 1412 Square Feet     |
| 3314        | Steel Open Girder/Beam             | Corrosion                                 | 1 Feet               |
| 3348        | Reinforced Concrete Column         | Delamination/Spall                        | 2 Each               |
| 3350        | Reinforced Concrete Abutment       | Delamination/Spall                        | 1 Feet               |
| 3350        | Reinforced Concrete Abutment       | Cracking (RC and Other)                   | 29 Feet              |
| 3348        | Reinforced Concrete Pier Cap       | Cracking (RC and Other)                   | 42 Feet              |
| 3348        | Reinforced Concrete Pier Cap       | Delamination/Spall                        | 15 Feet              |
| 3310        | Compression Joint Seal             | Debris Impaction                          | 25 Feet              |
| 3310        | Compression Joint Seal             | Seal Adhesion                             | 10 Feet              |
| 3334        | Other Bearings                     | Corrosion                                 | 2 Each               |
| 3334        | Other Bearings                     | Connection                                | 14 Each              |
| 3353        | Reinforced Concrete Approach Slabs | Cracking (RC and Other)                   | 25 Square Feet       |
| 3318        | Reinforced Concrete Bridge Railing | Delamination/Spall                        | 567 Feet             |
| 3318        | Reinforced Concrete Bridge Railing | Exposed Rebar                             | 14 Feet              |
| 3318        | Reinforced Concrete Bridge Railing | Cracking (RC and Other)                   | 107 Feet             |
| 2816        | Wearing Surface                    | Crack (Wearing Surface)                   | 12 Square Feet       |
| 3342        | Steel Protective Coating           | Effectiveness (Steel Protective Coatings) | 53 Square Feet       |

## **Element Structure Maintenance Quantities**

Structure Number: 770100 Inspection Date 05/17/2019

| Location          | MMS<br>Code | Description                                     | Maint<br>Quantity | Total<br>Quantity | Severe<br>Quantity | Poor<br>Quantity | Fair<br>Quantity | Good<br>Quantity |
|-------------------|-------------|---|-------------------|-------------------|--------------------|------------------|------------------|------------------|
| Abutments         | 3350        | Maintenance of Concrete Wings and Wall          | 30                | 104               | 0                  | 23               | 4                | 77               |
| Approaches        | 3353        | Maintenance of Concrete Bridge Approach Slabs   | 25                | 870               | О                  | 25               | О                | 845              |
| Beam              | 3314        | Maintenance Steel Superstructure Components     | 1                 | 1112              | О                  | 1                | 40               | 1071             |
| Beam              | 3342        | Clean and Paint Steel                           | 29                | 11184             | 1                  | 7                | 21               | 11155            |
| Bearing Device    | 3334        | Bridge Bearing                                  | 16                | 32                | О                  | 11               | 12               | 9                |
| Bearing Device    | 3342        | Clean and Paint Steel                           | 24                | 88                | 2                  | 20               | 2                | 64               |
| Bridge Rail       | 3318        | Maintenance of Concrete Bridge Rail             | 688               | 564               | 0                  | 70               | 494              | 0                |
| Caps              | 3348        | Maintenance of Concrete Substructure            | 57                | 218               | 0                  | 12               | 44               | 162              |
| Deck              | 3326        | Maintenance of Concrete Deck                    | 1473              | 8808              | 0                  | 48               | 1418             | 7342             |
| Expansion Joints  | 3310        | Maintenance of Standard Bridge Expansion Joints | 35                | 225               | 0                  | 18               | 93               | 114              |
| Foundation Pile   | 3348        | Maintenance of Concrete Substructure            | 0                 | 3                 | 0                  | 0                | 0                | 3                |
| Piles and Columns | 3348        | Maintenance of Concrete Substructure            | 2                 | 29                | 0                  | 0                | 4                | 25               |
| Wearing Surfaces  | 2816        | Asphalt Surface Repair                          | 12                | 7850              | 0                  | 10               | 2                | 7838             |

### **Element Condition and Maintenance Data**

Structure Number: 770100 Inspection Date: 05/17/2019

| Spa            | n 1                     | Deck   |                  |            |            |            |              |             |
|----------------|-------------------------|--|------------------|------------|------------|------------|--------------|-------------|
| Rei            | nforced Concrete        | Deck   |                  |            |            |            |              |             |
|                | nent<br>nber            | Element Name   | Total<br>Qty     | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |             |
| 12             | Reinfor                 | ced Concrete Deck                                      | 2,016            | 1,659      | 357        | 0          | 0 S          | quare Feet  |
| lemen<br>lumbe | Dofoot Typo             | Defect Des   | cription         |            | cs         | CS Qty     | Maint<br>Qty |             |
| 12             | Cracking (RC and Other) | 12 - 24" TRANSVERSE HAIRLINE<br>DECK WEST OVERHANG     | E CRACKS IN BOTT | TOM OF     | 2          | 12         | 24           | Square Fee  |
| 12             | Cracking (RC and Other) | 14 - 24" TRANSVERSE HAIRLINE<br>DECK EAST OVERHANG     | E CRACKS IN BOTT | TOM OF     | 2          | 14         | 28           | Square Fee  |
| 12             | Cracking (RC and Other) | 300 SF. OF TRANSVERSE HAIRI<br>OF DECK                 | LINE CRACKS IN B | ОТТОМ      | 2          | 300        | 300          | Square Fee  |
| 12             | Cracking (RC and Other) | 4ft x 1/16" LONGITUDINAL CRAC<br>APPROACH              | CK ADJACENT TO   |            | 2          | 4          | 4            | Square Fee  |
| 12             | Delamination/Spall      | 2 - 12" DIAMETER DELAMINATION 20 FT. FROM BENT 1 BAY 3 | ONS IN BOTTOM OI | F DECK     | 2          | 2          | 2            | Square Feet |
| 12             | Patched Areas           | 25 SF. OF PATCHED AREAS IN I                           | BOTTOM OF DECK   | ,          | 2          | 25         |              | Square Feet |

| Spa   | an 1                                      | Beam 1  |                |            |            |            |              |               |
|-------|---|---|----------------|------------|------------|------------|--------------|---------------|
| Pla   | te Girder                                 |   |                |            |            |            |              |               |
|       | ment<br>mber                              | Element Name  | Total<br>Qty   | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 107   | Steel O                                   | pen Girder/Beam   | 63             | 59         | 4          | 0          | 0            | Feet          |
| 515   | Steel P                                   | rotective Coating   | 632            | 628        | 1          | 3          | 0            | Square Feet   |
| Eleme | Dofoct Typo                               | Defect Descri   | ption          |            | cs         | CS Qty     | Maint<br>Qty |               |
| 107   | Corrosion                                 | 1 FT. OF PAINTED OVER PITTING<br>RUST BLEEDING IN WEB AND BEA<br>AROUND END DIAPHRAGM AT BE | ARING STIFFENE |            | 2          | 1          |              | Feet          |
| 107   | Corrosion                                 | 3 FT. OF SURFACE CORROSION OF STANGE AT END BENT 1  | ON TOP AND BOT | ТОМ        | 2          | 3          |              | Feet          |
| 515   | Effectiveness (Steel Protective Coatings) | 3 SF. OF INEFFECTIVE PROTECTI<br>AND BOTTOM FLANGE AT END BE                                |                | TOP        | 3          | 3          | ;            | 3 Square Feet |
| 515   | Effectiveness (Steel Protective Coatings) | 1 SF. OF RUST BLEEDING ON BOT   | TTOM FLANGE AT | BENT 1     | 2          | 1          |              | 1 Square Feet |
|       | <b>General Comments</b>                   |   |                |            |            |            |              |               |

END DIAPHRAGM BAY 1 AT BENT 1: 18" X 3" DELAMINATION

| Spa               | n 1                                       | Beam 2  |               |            |            |            |              |               |
|-------------------|---|---|---------------|------------|------------|------------|--------------|---------------|
| Plate             | e Girder                                  |   |               |            |            |            |              |               |
| Elen<br>Num       | nent<br>nber                              | Element Name  | Total<br>Qty  | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 107               | Steel Op                                  | en Girder/Beam  | 63            | 61         | 2          | 0          | 0            | Feet          |
| 515               | Steel Pro                                 | otective Coating  | 632           | 630        | 1          | 1          | 0            | Square Feet   |
| Element<br>Number | Dofoct Typo                               | Defect Descript   | ion           |            | cs         | CS Qty     | Maint<br>Qty |               |
| 107               | Corrosion                                 | 1 FT. OF PAINTED OVER PITTING UP<br>RUST BLEEDING IN WEB AND BEAR<br>AROUND END DIAPHRAGM AT BENT | ING STIFFENER |            | 2          | 1          |              | Feet          |
| 107               | Corrosion                                 | 1 FT. OF SURFACE CORROSION ON FLANGE AT END BENT 1  | TOP AND BOT   | TOM        | 2          | 1          |              | Feet          |
| 515               | Effectiveness (Steel Protective Coatings) | 1 SF. OF INEFFECTIVE PROTECTIVE AND BOTTOM FLANGE AT END BEN                                      |               | TOP        | 3          | 1          |              | 1 Square Feet |
| 515               | Effectiveness (Steel                      | 1 SF. OF RUST BLEEDING ON BOTTO   | OM FLANGE AT  | BENT 1     | 2          | 1          |              | 1 Square Feet |

Protective Coatings)

### **General Comments**

END DIAPHRAGM BAY 2 AT BENT 1: 18" X 3" DELAMINATION

| Spa              | n 1                                       | Beam 3  |               |            |            |            |              |               |
|------------------|---|---|---------------|------------|------------|------------|--------------|---------------|
| Plat             | e Girder                                  |   |               |            |            |            |              |               |
|                  | nent<br>nber                              | Element Name  | Total<br>Qty  | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 107              | Steel Ope                                 | en Girder/Beam  | 63            | 61         | 2          | 0          | 0            | Feet          |
| 515              | Steel Pro                                 | otective Coating  | 632           | 630        | 1          | 1          | 0            | Square Feet   |
| Elemen<br>Number | Dofoot Typo                               | Defect Descripti  | on            |            | cs         | CS Qty     | Maint<br>Qty |               |
| 107              | Corrosion                                 | 1 FT. OF PAINTED OVER PITTING UP<br>RUST BLEEDING IN WEB AND BEAR<br>AROUND END DIAPHRAGM AT BENT | ING STIFFENE  |            | 2          | 1          | -            | Feet          |
| 107              | Corrosion                                 | 1 FT. OF SURFACE CORROSION ON FLANGE AT END BENT 1  | TOP AND BOT   | TOM        | 2          | 1          |              | Feet          |
| 107              | Distortion                                | 8" LONG X 1/2" HIGH AREA OF DISTOFLANGE AT END BENT 1   | ORTION IN BOT | ГТОМ       | 2          |            |              | Feet          |
| 515              | Effectiveness (Steel Protective Coatings) | 1 SF. OF INEFFECTIVE PROTECTIVE AND BOTTOM FLANGE AT END BEN                                      |               | TOP        | 3          | 1          |              | 1 Square Feet |
| 515              | Effectiveness (Steel Protective Coatings) | 1 SF. OF RUST BLEEDING ON BOTTO   | OM FLANGE AT  | Γ BENT 1   | 2          | 1          |              | 1 Square Feet |

| Spa<br>Plat     | n 1<br>te Girder                          | Beam 4  |                  |            |            |            |              |               |
|-----------------|---|---|------------------|------------|------------|------------|--------------|---------------|
|                 | ment<br>mber                              | Element Name  | Total<br>Qty     | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 107             | Steel O                                   | pen Girder/Beam   | 63               | 62         | 1          | 0          | 0            | Feet          |
| 515             | Steel Pi                                  | rotective Coating   | 632              | 631        | 1          | 0          | 0            | Square Feet   |
| Elemen<br>Numbe | Dofoct Type                               | Defect Des  | scription        |            | cs         | CS Qty     | Maint<br>Qty |               |
| 107             | Corrosion                                 | 1 FT. OF PAINTED OVER PITTII<br>RUST BLEEDING IN WEB AND<br>AROUND END DIAPHRAGM AT | BEARING STIFFENE |            | 2          | 1          | -            | Feet          |
| 515             | Effectiveness (Steel Protective Coatings) | 1 SF. OF RUST BLEEDING ON I   | BOTTOM FLANGE AT | BENT 1     | 2          | 1          | •            | 1 Square Feet |
|                 | General Comments                          |   |                  |            |            |            |              |               |

END DIAPHRAGM EAST OVERHANG AT BENT 1: 12" X 4" DELAMINATION

| Spa             | n 1              | Expansion                   | n Joint       |            |            |        |              |      |
|-----------------|------------------|-----------------------------|---------------|------------|------------|--------|--------------|------|
| Con             | pression Seal    |                             |               |            |            |        |              |      |
| Elen<br>Nun     | nent<br>nber     | Element Name                | Total<br>Qty  | CS1<br>Qty | CS2<br>Qty |        | CS4<br>Qty   |      |
| 302             | Compre           | ession Joint Seal           | 45            | 33         | 2          | 10     | 0 F          | eet  |
| Elemen<br>Numbe | Dofoot Typo      | Defect Des                  | cription      |            | cs         | CS Qty | Maint<br>Qty |      |
| 302             | Seal Adhesion    | 10 FT. OF PARTIAL DEPTH LOS | S OF ADHESION |            | 3          | 10     | 10           | Feet |
| 302             | Debris Impaction | 2 FT. OF DEBRIS IMPACTION   |               |            | 2          | 2      | 2            | Feet |

| Spa              | n 1                     | Left Bridge F                                      | Rail             |            |            |            |              |      |
|------------------|-------------------------|--|------------------|------------|------------|------------|--------------|------|
| Con              | crete Railing           |  |                  |            |            |            |              |      |
| Elen<br>Nun      | nent<br>nber            | Element Name                                       | Total<br>Qty     | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |      |
| 331              | Reinfor                 | ced Concrete Bridge Railing                        | 65               | 0          | 63         | 2          | 0 F          | eet  |
| Elemen<br>Number | Dofoct Typo             | Defect Descri                                      | otion            |            | cs         | CS Qty     | Maint<br>Qty |      |
| 331              | Cracking (RC and Other) | 2 - 18" TRANSVERSE CRACKS UP                       | TO 1/16" WIDE IN | CURB       | 3          | 2          | 3            | Feet |
| 331              | Delamination/Spall      | 65 FT. OF ABRASION WITH EXPOS<br>AGGREGATE         | ED COARSE        |            | 2          | 59         | 65           | Feet |
| 331              | Exposed Rebar           | 4 - SPALLS WITH EXPOSED REBAN<br>1/2" DEEP IN RAIL | R UP TO 6" DIAM  | ETER X     | 2          | 4          | 4            | Feet |
| -                | General Comments        |  |                  |            |            |            |              | _    |

| Spa           | an 1                    | Right Bridge                               | e Rail           |            |            |            |              |      |   |
|---------------|-------------------------|--|------------------|------------|------------|------------|--------------|------|---|
| •             | ncrete Railing          | <b>gg</b> .                                |                  |            |            |            |              |      |   |
|               | _                       |  |                  |            |            |            |              |      |   |
|               | ment<br>mber            | Element Name                               | Total<br>Qty     | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |      |   |
| 331           | Reinfor                 | ced Concrete Bridge Railing                | 65               | 0          | 60         | 5          | 0 F          | eet  |   |
| Eleme<br>Numb | Dofoct Typo             | Defect Descri                              | ption            |            | cs         | CS Qty     | Maint<br>Qty |      |   |
| 331           | Cracking (RC and Other) | 5 - 18" TRANSVERSE CRACKS UP               | TO 1/16" WIDE IN | CURB       | 3          | 5          | 8            | Feet |   |
| 331           | Delamination/Spall      | 65 FT. OF ABRASION WITH EXPOS<br>AGGREGATE | SED COARSE       |            | 2          | 60         | 65           | Feet |   |
|               | <b>General Comments</b> |  |                  |            |            |            |              |      | _ |

| Spa             | n 1                                       | Near Beari                  | ng           |            |            |            |              |               |
|-----------------|---|-----------------------------|--------------|------------|------------|------------|--------------|---------------|
| Oth             | er Bearing                                |                             |              |            |            |            |              |               |
|                 | ment<br>nber                              | Element Name                | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 316 Other Bear  |   | earings                     | 1            | 0          | 1          | 0          | 0            | Each          |
| 515             | Steel Pr                                  | otective Coating            | 2            | 0          | 0          | 2          | 0            | Square Feet   |
| Elemen<br>Numbe | Dofoot Typo                               | Defect Desc                 | cription     |            | cs         | CS Qty     | Maint<br>Qty |               |
| 316             | Corrosion                                 | SURFACE CORROSION           |              |            | 2          | 1          | •            | Each          |
| 515             | Effectiveness (Steel Protective Coatings) | 2 SF. OF INEFFECTIVE PROTEC | TIVE COATING |            | 3          | 2          |              | 2 Square Feet |
| 7               | General Comments                          |                             |              |            |            |            |              |               |

| Span 1 Far Bearing |                |   |              |            |            |            |              |             |
|--------------------|----------------|---|--------------|------------|------------|------------|--------------|-------------|
| Other Bea          | ring           |   |              |            |            |            |              |             |
| Element<br>Number  |                | Element Name  | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |             |
| 316                | Other Bearings |   | 1            | 0          | 0          | 1          | 0            | Each        |
| 515                | Steel Prote    | ective Coating  | 3            | 3          | 0          | 0          | 0            | Square Feet |
| Element<br>Number  | efect Type     | Defect Des  | scription    |            | cs         | CS Qty     | Maint<br>Qty |             |
| 316 Connec         |                | 2" LONG CRACK IN WELD OF EAST STIFI<br>VERTICAL PLATE PAR |              |            | 3          | 1          | -            | 1 Each      |

| Spa   | an 1                                      | Near Bearin                  | ng           |            |            |            |              |               |
|-------|---|------------------------------|--------------|------------|------------|------------|--------------|---------------|
| Oth   | ner Bearing                               |                              |              |            |            |            |              |               |
|       | ment<br>mber                              | Element Name                 | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 316   | Other B                                   | earings                      | 1            | 0          | 1          | 0          | 0            | Each          |
| 515   | Steel Pr                                  | otective Coating             | 2            | 0          | 0          | 2          | 0            | Square Feet   |
| Eleme | Defect Type                               | Defect Desc                  | ription      |            | cs         | CS Qty     | Maint<br>Qty |               |
| 316   | Corrosion                                 | SURFACE CORROSION            |              |            | 2          | 1          | -            | Each          |
| 515   | Effectiveness (Steel Protective Coatings) | 2 SF. OF INEFFECTIVE PROTECT | TIVE COATING |            | 3          | 2          |              | 2 Square Feet |
|       | <b>General Comments</b>                   |                              |              |            |            |            |              |               |

| Span 1 Far Bearing      |   |  |   |   |  |                   |                               |
|-------------------------|---|--|---|---|--|-------------------|-------------------------------|
| ng                      |   |  |   |   |  |                   |                               |
| Element                 | Name  | Total<br>Qty   | CS1<br>Qty  | CS2<br>Qty  | CS3<br>Qty   | CS4<br>Qty        |                               |
| 316 Other Bearings      |   | 1  | 0   | 0   | 1  | 0                 | Each                          |
| Steel Protective Coatin | g   | 3  | 3   | 0   | 0  | 0                 | Square Feet                   |
| ect Type                | Defect Desc   | ription  |   | cs  | CS Qty   | Maint<br>Qty      |                               |
|                         |   |  |   | 3   | 1  | •                 | 1 Each                        |
|                         | Other Bearings Steel Protective Coatin ect Type on 2" LONG CR | Element Name Other Bearings Steel Protective Coating  ect Type Defect Desc | Element Name Qty Other Bearings 1 Steel Protective Coating 3  ect Type Defect Description | Element Name CS1 Other Bearings 1 0 Steel Protective Coating 3 3  ect Type Defect Description  2" LONG CRACK IN WELD OF EAST STIFFENER TO | Element Name  CS1 CS2 Qty Qty Qty Other Bearings 1 0 0 Steel Protective Coating 3 3 3 0  Ect Type  Defect Description CS on 2" LONG CRACK IN WELD OF EAST STIFFENER TO 3 | Total   CS2   CS3 | Total   CS1   CS2   CS3   CS4 |

| Spa             | an 1                                      | Near Bearin                  | g            |            |            |            |              |               |
|-----------------|---|------------------------------|--------------|------------|------------|------------|--------------|---------------|
| Oth             | ner Bearing                               |                              |              |            |            |            |              |               |
|                 | ment<br>mber                              | Element Name                 | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 316             | Other B                                   | earings                      | 1            | 0          | 1          | 0          | 0            | Each          |
| 515             | Steel Pr                                  | otective Coating             | 2            | 0          | 0          | 2          | 0            | Square Feet   |
| Elemei<br>Numbe | Defect Type                               | Defect Descr                 | iption       |            | cs         | CS Qty     | Maint<br>Qty |               |
| 316             | Corrosion                                 | SURFACE CORROSION            |              |            | 2          | 1          |              | Each          |
| 515             | Effectiveness (Steel Protective Coatings) | 2 SF. OF INEFFECTIVE PROTECT | IVE COATING  |            | 3          | 2          | :            | 2 Square Feet |
|                 | General Comments                          |                              |              |            |            |            |              |               |

| Spa            | n 1<br>er Bearing  |         | Far Beari  | ng  |            |            |            |              |             |
|----------------|--------------------|---------|--|---|------------|------------|------------|--------------|-------------|
|                | nent               |         | Element Name   | Total<br>Qty  | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |             |
| 316            | 316 Other Bearings |         | Bearings   | 1   | 0          | 0          | 1          | 0            | Each        |
| 515            |                    | Steel P | rotective Coating                                    | 3   | 3          | 0          | 0          | 0            | Square Feet |
| lemen<br>lumbe | Dofoct             | Туре    | Defect De  | scription   |            | cs         | CS Qty     | Maint<br>Qty |             |
| 316            | Connection         |         | 1" LONG CRACK IN WELD OF \ VERTICAL PLATE (BOTH PLAT | CRACK IN WELD OF WEST STIFFENER TO<br>L PLATE (BOTH PLATES) PAR |            |            | 1          |              | 1 Each      |
| 316            | Corrosion          |         | PAINTED OVER PITTING 1/8" D                          | EEP WITH RUST BLE   | FDING      | 3          |            |              | 1 Each      |

| Spa   | an 1                                      | Near Bearing                  | g            |            |            |            |              |               |
|-------|---|-------------------------------|--------------|------------|------------|------------|--------------|---------------|
| Oth   | ner Bearing                               |                               |              |            |            |            |              |               |
|       | ement<br>mber                             | Element Name                  | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 316   | Other B                                   | earings                       | 1            | 0          | 1          | 0          | 0            | Each          |
| 515   | Steel Pr                                  | rotective Coating             | 2            | 0          | 0          | 2          | 0            | Square Feet   |
| Eleme | Defect Type                               | Defect Descri                 | ption        |            | cs         | CS Qty     | Maint<br>Qty |               |
| 316   | Corrosion                                 | SURFACE CORROSION             |              |            | 2          | 1          |              | Each          |
| 515   | Effectiveness (Steel Protective Coatings) | 2 SF. OF INEFFECTIVE PROTECTI | VE COATING   |            | 3          | 2          |              | 2 Square Feet |
|       | General Comments                          |                               |              |            |            |            |              |               |

| Span 1            |  | Fai               | r Bearing                            |              |            |            |            |              |             |
|-------------------|--|-------------------|--------------------------------------|--------------|------------|------------|------------|--------------|-------------|
| Other Be          | aring  |                   |                                      |              |            |            |            |              |             |
| Element<br>Number |  | Element Name      |                                      | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |             |
| 316               | Other E                                      | Bearings          |                                      | 1            | 0          | 0          | 1          | 0            | Each        |
| 515               | Steel P                                      | rotective Coating |                                      | 3            | 3          | 0          | 0          | 0            | Square Feet |
| Element<br>Number | Defect Type                                  | D                 | efect Description                    |              |            | cs         | CS Qty     | Maint<br>Qty |             |
| <b>316</b> Conne  | 6 Connection 1" LONG CRACK II VERTICAL PLATE |                   | ELD OF EAST STIFFE<br>TH PLATES) PAR | NER TO       |            | 3          | 1          |              | 1 Each      |
| Genera            | al Comments                                  |                   |                                      |              |            |            |            |              |             |

| Spa            | n 1                        | Wearing S                            | Surface                              |            |            |            |                |
|----------------|----------------------------|--------------------------------------|--------------------------------------|------------|------------|------------|----------------|
| Con            | crete Wearing S            | urface                               |                                      |            |            |            |                |
|                | ment<br>mber               | Element Name                         | Total<br>Qty                         | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty     |
| 510            | Wearin                     | ng Surface                           | 1,797                                | 1,787      | 0          | 10         | 0 Square Feet  |
| lemen<br>lumbe | Defect Type                | Defect Des                           | scription                            |            | cs         | CS Qty     | Maint<br>Qty   |
| 510            | Crack (Wearing<br>Surface) | 10 FT. OF DIAGONAL CRACKIN<br>BENT 1 | NAL CRACKING UP TO 1/16" WIDE AT END |            |            | 10         | 10 Square Feet |

**General Comments** 

Cracking (RC and

Other)

12

| Spa            | an 2                    | Deck  |               |            |            |            |              |             |
|----------------|-------------------------|---|---------------|------------|------------|------------|--------------|-------------|
| Rei            | inforced Concrete       | Deck  |               |            |            |            |              |             |
|                | ment<br>mber            | Element Name  | Total<br>Qty  | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |             |
| 12             | Reinfor                 | ced Concrete Deck   | 2,388         | 2,053      | 333        | 2          | 0 8          | Square Feet |
| Eleme<br>Numbe | Dofoct Typo             | Defect Descrip  | tion          |            | CS         | CS Qty     | Maint<br>Qty |             |
| 12             | Delamination/Spall      | 12" DIAMETER SPALL IN BOTTOM (<br>TRAFFIC PAR   | OF DECK BAY 1 | OVER       | 3          | 1          | 1            | Square Feet |
| 12             | Delamination/Spall      | 12" DIAMETER SPALL IN BOTTOM OF DECK EAST<br>OVERHANG OVER TRAFFIC PAR                    |               |            | 3          | 1          | 1            | Square Feet |
| 12             | Cracking (RC and Other) | 11 - 24" TRANSVERSE HAIRLINE CRACKS WITH<br>EFFLORESCENCE IN BOTTOM OF DECK EAST OVERHANG |               |            | 2          | 11         | 22           | Square Feet |

2

13

26 Square Feet

13 - 24" TRANSVERSE HAIRLINE CRACKS WITH

EFFLORESCENCE IN BOTTOM OF DECK WEST

| Structure | e Number: <u>770100</u>    |   |   | Insp | ection Date: 05/17/2019 |
|-----------|----------------------------|---|---|------|-------------------------|
|           |                            | OVERHANG  |   |      |                         |
| 12        | Cracking (RC and<br>Other) | 300 SF. OF TRANSVERSE HAIRLINE CRACKS IN BOTTOM OF DECK                         | 2 | 300  | 300 Square Feet         |
| 12        | Delamination/Spall         | 12" X 6" SPALL IN BOTTOM OF DECK EAST OVERHANG<br>NEAR MIDSPAN OVER TRAFFIC PAR | 2 | 1    | 1 Square Feet           |
| 12        | Patched Areas              | 8 SF. OF PATCHED AREAS IN BOTTOM OF DECK  | 2 | 8    | Square Feet             |
|           | <b>General Comments</b>    |   |   |      |                         |

| Spa             | ın 2          |                        | Beam 1  |                |            |            |            |              |             |
|-----------------|---------------|------------------------|---|----------------|------------|------------|------------|--------------|-------------|
| Plat            | te Girder     |                        |   |                |            |            |            |              |             |
|                 | ment<br>nber  | Eleme                  | ent Name  | Total<br>Qty   | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |             |
| 107             |               | Steel Open Girder/Beam |   | 76             | 69         | 7          | 0          | 0            | Feet        |
| 515             |               | Steel Protective Coa   | ating   | 766            | 765        | 1          | 0          | 0            | Square Feet |
| Elemen<br>Numbe | Dofoct T      | <sup>-</sup> уре       | Defect Descrip  | otion          |            | cs         | CS Qty     | Maint<br>Qty |             |
| 107             | Corrosion     | RUST BL                | PAINTED OVER PITTING L<br>EEDING IN WEB AND BEA<br>END DIAPHRAGM AT BEN | RING STIFFENER |            | 2          | 1          |              | Feet        |
| 107             | Corrosion     | RUST BL                | PAINTED OVER PITTING L<br>EEDING IN WEB AND BEA<br>END DIAPHRAGM AT BEN | RING STIFFENER |            | 2          | 1          |              | Feet        |
| 107             | Distortion    | TO 1" X 1              | VEHICLE SCRAPES WITH<br>/2" IN BOTTOM FLANGE A<br>PLATE AT 1/4 POINT    |                |            | 2          | 5          |              | Feet        |
| 515             | Effectiveness | (Steel 1 SF. OF        | RUST BLEEDING ON BOT  | TOM FLANGE AT  | BENT 2     | 2          | 1          | 1            | Square Feet |

## Protective Coatings) General Comments

END DIAPHRAGM WEST OVERHANG AT BENT 1: 16" X 4" DELAMINATION END DIAPHRAGM WEST OVERHANG AT BENT 2: 8" X 4" DELAMINATION END DIAPHRAGM BAY 1 AT BENT 2: 10" X 6" DELAMINATION

| Span 2       | Beam 2 |       |     |     |     |     |  |
|--------------|--------|-------|-----|-----|-----|-----|--|
| Plate Girder |        |       |     |     |     |     |  |
| Element      |        | Total | CS1 | CS2 | CS3 | CS4 |  |

| Element |                          | Total | CS1 | CS2 | CS3 | CS4           |  |
|---------|--------------------------|-------|-----|-----|-----|---------------|--|
| Number  | Element Name             | Qty   | Qty | Qty | Qty | Qty           |  |
| 107     | Steel Open Girder/Beam   | 76    | 74  | 2   | 0   | 0 Feet        |  |
| 515     | Steel Protective Coating | 766   | 764 | 2   | 0   | 0 Square Feet |  |

| Elemen<br>Numbe | Dofoot Typo                               | Defect Description  | cs | CS Qty | Maint<br>Qty  |
|-----------------|---|---|----|--------|---------------|
| 107             | Corrosion                                 | 1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH<br>RUST BLEEDING IN WEB AND BEARING STIFFENER<br>AROUND END DIAPHRAGM AT BENT 1 | 2  | 1      | Feet          |
| 107             | Corrosion                                 | 1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH<br>RUST BLEEDING IN WEB AND BEARING STIFFENER<br>AROUND END DIAPHRAGM AT BENT 2 | 2  | 1      | Feet          |
| 515             | Effectiveness (Steel Protective Coatings) | 1 SF. OF RUST BLEEDING ON BOTTOM FLANGE AT BENT 1   | 2  | 1      | 1 Square Feet |
| 515             | Effectiveness (Steel Protective Coatings) | 1 SF. OF RUST BLEEDING ON BOTTOM FLANGE AT BENT 2   | 2  | 1      | 1 Square Feet |

#### **General Comments**

END DIAPHRAGM BAY 2 AT BENT 1: 18" X 3" DELAMINATION END DIAPHRAGM BAY 2 AT BENT 2: 2 - 6" DIAMETER DELAMINATIONS

| Spar              | n 2                                       | Beam 3  |                 |            |            |            |  |
|-------------------|---|---|-----------------|------------|------------|------------|--|
| Plate             | e Girder                                  |   |                 |            |            |            |  |
| Elem<br>Num       | ber                                       | Element Name  | Total<br>Qty    | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty                                     |
| 107<br>515        | '   | oen Girder/Beam<br>otective Coating   | 76<br>766       | 74<br>765  | 2<br>1     | 0          | <ul><li>0 Feet</li><li>0 Square Feet</li></ul> |
| Element<br>Number | Dofoct Typo                               | Defect Desc   | cription        |            | cs         | CS Qty     | Maint<br>Qty                                   |
| 107               | Corrosion                                 | 1 FT. OF PAINTED OVER PITTIN<br>RUST BLEEDING IN WEB AND B<br>AROUND END DIAPHRAGM AT E | EARING STIFFENE |            | 2          | 1          | Feet   |
| 107               | Corrosion                                 | 1 FT. OF PAINTED OVER PITTIN<br>RUST BLEEDING IN WEB AND B<br>AROUND END DIAPHRAGM AT E | EARING STIFFENE |            | 2          | 1          | Feet   |
| 515               | Effectiveness (Steel Protective Coatings) | 1 SF. OF RUST BLEEDING ON B   | OTTOM FLANGE AT | BENT 2     | 2          | 1          | 1 Square Fee                                   |

**General Comments** 

END DIAPHRAGM BAY 3 AT BENT 2: 8" DIAMETER DELAMINATION AND 10" X 3" X 1" DEEP SPALL

| Spa             | n 2                                     | Beam 4   |                |            |            |            |              |               |
|-----------------|---|--|----------------|------------|------------|------------|--------------|---------------|
| Plat            | e Girder                                |  |                |            |            |            |              |               |
|                 | nent<br>nber                            | Element Name   | Total<br>Qty   | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 107             | Steel                                   | Open Girder/Beam   | 76             | 69         | 7          | 0          | 0            | Feet          |
| 515             | Steel                                   | Protective Coating   | 766            | 765        | 1          | 0          | 0            | Square Feet   |
| Elemen<br>Numbe | Dofoot Typo                             | Defect Descri  | iption         |            | cs         | CS Qty     | Maint<br>Qty |               |
| 107             | Corrosion                               | 1 FT. OF PAINTED OVER PITTING<br>RUST BLEEDING IN WEB AND BE.<br>AROUND END DIAPHRAGM AT BE  | ARING STIFFENE |            | 2          | 1          |              | Feet          |
| 107             | Corrosion                               | 1 FT. OF PAINTED OVER PITTING<br>RUST BLEEDING IN WEB AND BE.<br>AROUND END DIAPHRAGM AT BE  | ARING STIFFENE |            | 2          | 1          |              | Feet          |
| 107             | Distortion                              | 5 FT. OF VEHICLE SCRAPES WITH<br>TO 1" X 1/2" IN BOTTOM FLANGE A<br>COVER PLATE AT 1/4 POINT |                |            | 2          | 5          |              | Feet          |
| 515             | Effectiveness (Stee Protective Coatings |  | TTOM FLANGE A  | T BENT 2   | 2          | 1          |              | 1 Square Feet |

**General Comments** 

END DIAPHRAGM EAST OVERHANG AT BENT 2: 14" X 3" X 2" DEEP SPALL WITH EXPOSED REBAR

| pression Seal        |                                      |   |  |  |  |  |   |
|----------------------|--------------------------------------|---|--|--|--|--|---|
| ent                  |                                      |   |  |  |  |  |   |
| <b>ber</b><br>Compre | Element Name<br>ession Joint Seal    | Total<br>Qty<br>45  | <b>CS1 Qty</b> 20  | CS2<br>Qty<br>25   | CS3<br>Qty<br>0  | <b>CS4</b><br><b>Qty</b><br>0 F  | eet   |
| Defect Type          | Defect Desc                          | cription  |  | cs   | CS Qty   | Maint<br>Qty   |   |
| Debris Impaction     | 10 FT. OF DEBRIS IMPACTION           |   |  | 2  | 10   | 10   | Feet  |
| Seal Adhesion        | ADHESION FAILURE AT RANDO THROUGHOUT | M LOCATIONS   |  | 2  | 15   |  | Feet  |
| [                    | Debris Impaction                     | Debris Impaction 10 FT. OF DEBRIS IMPACTION Seal Adhesion ADHESION FAILURE AT RANDO | Debris Impaction 10 FT. OF DEBRIS IMPACTION Seal Adhesion ADHESION FAILURE AT RANDOM LOCATIONS | Debris Impaction 10 FT. OF DEBRIS IMPACTION Seal Adhesion ADHESION FAILURE AT RANDOM LOCATIONS | Debris Impaction 10 FT. OF DEBRIS IMPACTION 2 Seal Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 | Debris Impaction 10 FT. OF DEBRIS IMPACTION 2 10 Seal Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 15 | Defect TypeDefect DescriptionCSCS QtyQtyDebris Impaction10 FT. OF DEBRIS IMPACTION21010Seal AdhesionADHESION FAILURE AT RANDOM LOCATIONS215 |

| Spa             | ın 2                    | Left Bridge R                                      | ail             |            |            |            |              |     |
|-----------------|-------------------------|--|-----------------|------------|------------|------------|--------------|-----|
| Cor             | ncrete Railing          |  |                 |            |            |            |              |     |
|                 | ment<br>mber            | Element Name                                       | Total<br>Qty    | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |     |
| 331             | Reinfor                 | ced Concrete Bridge Railing                        | 76              | 0          | 64         | 12         | 0 Fee        | et  |
| Elemer<br>Numbe | Dofoct Typo             | Defect Descrip                                     | tion            |            | cs         | CS Qty     | Maint<br>Qty |     |
| 331             | Cracking (RC and Other) | 12 - 18" TRANSVERSE CRACKS UP                      | TO 1/16" WIDE I | N CURB     | 3          | 12         | 18 F         | eet |
| 331             | Delamination/Spall      | 76 FT. OF ABRASION WITH EXPOSE AGGREGATE           | ED COARSE       |            | 2          | 62         | 76 F         | eet |
| 331             | Exposed Rebar           | 2 - SPALLS WITH EXPOSED REBAR<br>1/2" DEEP IN RAIL | UP TO 6" DIAMI  | ETER X     | 2          | 2          | 2 F          | eet |
|                 | General Comments        |  |                 |            |            |            |              |     |

| Span              | 1 2                     | Right Bridge                              | e Rail            |            |            |            |              |      |
|-------------------|-------------------------|---|-------------------|------------|------------|------------|--------------|------|
| Cond              | crete Railing           |   |                   |            |            |            |              |      |
| Elem<br>Num       | ber                     | Element Name                              | Total<br>Qty      | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   | . ,  |
| 331               | Reinfo                  | rced Concrete Bridge Railing              | 76                | 0          | 63         | 13         | 0 F          | eet  |
| Element<br>Number | Defect Type             | Defect Descr                              | iption            |            | cs         | CS Qty     | Maint<br>Qty |      |
|                   | Cracking (RC and Other) | 13 - 18" TRANSVERSE CRACKS U              | P TO 1/16" WIDE I | N CURB     | 3          | 13         | 20           | Feet |
| 331               | Delamination/Spall      | 76 FT. OF ABRASION WITH EXPO<br>AGGREGATE | SED COARSE        |            | 2          | 63         | 76           | Feet |
| -                 | Seneral Comments        |   |                   |            |            |            |              |      |

| Spa    | ın 2         |          | Nea   | r Bearing            |      |            |            |            |              |             |
|--------|--------------|----------|---|----------------------|------|------------|------------|------------|--------------|-------------|
| Oth    | er Bearing   |          |   |                      |      |            |            |            |              |             |
|        | ment<br>mber |          | Element Name                                | Tota<br>Qt           |      | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |             |
| 316    |              | Other Be | earings                                     |                      | 1    | 0          | 0          | 1          | 0            | Each        |
| 515    |              | Steel Pr | otective Coating                            |                      | 3    | 3          | 0          | 0          | 0            | Square Feet |
| Elemer | Dofoct       | Туре     | De  | fect Description     |      |            | cs         | CS Qty     | Maint<br>Qty |             |
| 316    | Connection   |          | 3" LONG CRACK IN WEI<br>VERTICAL PLATE (PM) | LD OF EAST STIFFENER | R TO |            | 3          | 1          | 1            | Each        |
| 316    | Connection   |          | 3" LONG CRACK IN WEI<br>VERTICAL PLATE (PM) | D OF WEST STIFFENE   | R TO |            | 3          |            | 1            | Each        |
|        | General Com  | ments    | , ,   |                      |      |            |            |            |              |             |

| Span 2               |                  | Far Bearin  | ng           |            |            |            |              |             |
|----------------------|------------------|---|--------------|------------|------------|------------|--------------|-------------|
| Other Bear           | ring             |   |              |            |            |            |              |             |
| Element<br>Number    | E                | lement Name                                       | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |             |
| 316                  | Other Bearings   | i   | 1            | 0          | 0          | 1          | 0            | Each        |
| 515                  | Steel Protective | e Coating   | 3            | 3          | 0          | 0          | 0            | Square Feet |
| Element<br>Number De | efect Type       | Defect Des  | scription    |            | cs         | CS Qty     | Maint<br>Qty |             |
| 316 Connect          |                  | ONG CRACK IN WELD OF E<br>TICAL PLATE (BOTH PLATE |              |            | 3          | 1          | 1            | Each        |

| Near Beari                                    | ng   |   |  |                   |                         |                               |
|---|--|---|--|-------------------|-------------------------|-------------------------------|
|   |  |   |  |                   |                         |                               |
| Element Name                                  | Total<br>Qty   | CS1<br>Qty  | CS2<br>Qty   | CS3<br>Qty        | CS4<br>Qty              |                               |
| arings  | 1  | 0   | 0  | 1                 | 0 Each                  |                               |
| tective Coating                               | 3  | 3   | 0  | 0                 | 0 Square Fe             | et                            |
| Defect Desc                                   | cription   |   | CS   | CS Qty            | Maint<br>Qty            |                               |
| 2" LONG CRACK IN WELD OF EA<br>VERTICAL PLATE | ST STIFFENER TO  |   | 3  | 1                 | 1 Each                  |                               |
|   | Element Name arings tective Coating  Defect Desc 2" LONG CRACK IN WELD OF EA | Element Name Qty arings 1 stective Coating 3  Defect Description 2" LONG CRACK IN WELD OF EAST STIFFENER TO | Element Name Qty Qty arings 1 0 tective Coating 3 3  Defect Description 2" LONG CRACK IN WELD OF EAST STIFFENER TO | Total   CS1   CS2 | Total   CS1   CS2   CS3 | Total   CS1   CS2   CS3   CS4 |

| Spa   | an 2                                      | Far Bearing                  |              |            |            |            |              |               |
|-------|---|------------------------------|--------------|------------|------------|------------|--------------|---------------|
| Oth   | ner Bearing                               |                              |              |            |            |            |              |               |
|       | ment<br>mber                              | Element Name                 | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 316   | Other B                                   | earings                      | 1            | 0          | 1          | 0          | 0            | Each          |
| 515   | Steel Pr                                  | otective Coating             | 3            | 1          | 0          | 2          | 0            | Square Feet   |
| Eleme | Defect Tyme                               | Defect Descri                | ption        |            | cs         | CS Qty     | Maint<br>Qty |               |
| 316   | Corrosion                                 | SURFACE CORROSION            |              |            | 2          | 1          | -            | Each          |
| 515   | Effectiveness (Steel Protective Coatings) | 2 SF. OF INEFFECTIVE PROTECT | VE COATING   |            | 3          | 2          |              | 2 Square Feet |
|       | <b>General Comments</b>                   |                              |              |            |            |            |              |               |

| Spai               | n 2                                       | Far Bearing  |                   |                 |            |            |              |               |
|--------------------|---|--|-------------------|-----------------|------------|------------|--------------|---------------|
| Othe               | er Bearing                                |  |                   |                 |            |            |              |               |
| Elen<br>Num<br>316 |   | Element Name<br>earings  | Total<br>Qty<br>1 | CS1<br>Qty<br>0 | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   | Each          |
| 515                | Steel Pro                                 | otective Coating   | 3                 | 1               | 0          | 0          | 2            | Square Feet   |
| Element<br>Number  | Dofoct Typo                               | Defect Descr   | iption            |                 | cs         | CS Qty     | Maint<br>Qty |               |
| 316                | Connection                                | 1" LONG CRACK IN WELD OF WESTERN VERTICAL PLATE (BOTH SIDES) F |                   |                 | 3          | 1          | •            | 1 Each        |
| 316                | Corrosion                                 | 1/8" OF PACK RUST  |                   |                 | 3          |            |              | 1 Each        |
| 515                | Effectiveness (Steel Protective Coatings) | 2 SF. OF INEFFECTIVE PROTECTI                                  | IVE COATING       |                 | 4          | 2          | 2            | 2 Square Feet |
| _                  | General Comments                          |  |                   |                 |            |            |              |               |

| Span 2<br>Other Bea | aring              | Far Bearing  | I            |            |            |            |              |             |
|---------------------|--------------------|--------------|--------------|------------|------------|------------|--------------|-------------|
| Element<br>Number   |                    | ment Name    | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |             |
| 316                 | Other Bearings     |              | 1            | 0          | 1          | 0          | 0            | Each        |
| 515                 | Steel Protective C | Coating      | 3            | 1          | 0          | 2          | 0            | Square Feet |
| lement<br>lumber    | Defect Type        | Defect Descr | ription      |            | cs         | CS Qty     | Maint<br>Qty |             |
| 316 Corros          | sion SURFA         | CE CORROSION |              |            | 2          | 1          |              | Each        |

Inspection Date: 05/17/2019 Structure Number: 770100

Effectiveness (Steel

Protective Coatings) **General Comments** 

2 SF. OF INEFFECTIVE PROTECTIVE COATING

3

2 Square Feet

| Span 3 | Deck |
|--------|------|
|        |      |

| Reinforced | Concrete | Deck |
|------------|----------|------|
|------------|----------|------|

| Element |                          | Total | CS1   | CS2 | CS3 | CS4                           |
|---------|--------------------------|-------|-------|-----|-----|-------------------------------|
| Number  | Element Name             | Qty   | Qty   | Qty | Qty | Qty                           |
| 12      | Reinforced Concrete Deck | 2,388 | 1,922 | 420 | 46  | <ol><li>Square Feet</li></ol> |

| 12               | rtonnoi                 | ced Concrete Deck 2,300   | 1,922      | 420 | 40     | 0 3          | quare i eet |
|------------------|-------------------------|---|------------|-----|--------|--------------|-------------|
| Elemen<br>Number |                         | Defect Description  |            | cs  | CS Qty | Maint<br>Qty |             |
| 12               | Cracking (RC and Other) | 48" LONGITUDINAL CRACK UP TO 1/8" WIDE IN<br>OF DECK EAST OVERHANG AT MID SPAN OVE<br>TRAVEL LANE     |            | 3   | 4      | -            | Square Feet |
| 12               | Delamination/Spall      | 1 SF DELAMINATION IN BOTTOM OF DECK BAY FROM BENT 2   | ′ 3 30 FT  | 3   | 1      | 1            | Square Feet |
| 12               | Delamination/Spall      | 1 SF DELAMINATION LOCATED IN BOTTOM O DOWNER LEFT SHOULDER 10 FT FROM BENT 2                          | DECK BAY 1 | 3   | 1      | 1            | Square Feet |
| 12               | Delamination/Spall      | 10 FT OF DELAMINATION IN BOTTOM OF DECK<br>OVERHANG NEAR BENT 3                                       | AT WEST    | 3   | 10     | 10           | Square Feet |
| 12               | Delamination/Spall      | 12" X 4" SPALL IN BOTTOM OF DECK BAY 1 MID<br>OVER TRAVEL LANE  | SPAN       | 3   | 1      | 1            | Square Feet |
| 12               | Delamination/Spall      | 12" X 4" SPALL WITH EXPOSED REBAR IN BOT<br>DECK WEST OVERHANG AT BENT 2                              | гом оғ     | 3   | 1      | 1            | Square Feet |
| 12               | Delamination/Spall      | 2 SF AREA CRACK/DELAMINATION LOCATED B<br>WEST OVERHANG OVER CENTERLINE OF SOL<br>TRAVEL LANES        |            | 3   | 2      | 2            | Square Feet |
| 12               | Delamination/Spall      | 2 SF DELAMINATION LOCATED 12 FT FROM BE<br>EAST OVERHANG OVER LEFT SHOULDER OF S<br>BOUND TRAVEL LANE | -          | 3   | 2      | 2            | Square Feet |
| 12               | Delamination/Spall      | 2 SF DELAMINATION LOCATED IN BOTTOM OF<br>OVER CENTERLINE OF SB TRAVEL LANES                          | DECK BAY 1 | 3   | 2      | 2            | Square Feet |
| 12               | Delamination/Spall      | 2-2FT X 2FT DELAMINATION IN BOTTOM OF DE OVERHANG OVER LEFT SOUTH BOUND TRAVE                         | -          | 3   | 4      | 4            | Square Feet |
| 12               | Delamination/Spall      | 36" LONG X 12" WIDE DELAMINATION LOCATEI<br>WEST OVERHANG AND OVER THE LEFT SOUT<br>TRAVEL LANE       |            | 3   | 3      | 3            | Square Feet |
| 12               | Delamination/Spall      | 36" X 12" DELAMINATION IN BOTTOM OF DECK<br>OVERHANG 1FT FROM BENT 2                                  | WEST       | 3   | 3      | 3            | Square Feet |
| 12               | Delamination/Spall      | 4 SF CRACKING/DELAIMINATION LOCATED IN I<br>OVERHANG 2FT FROM BENT 2                                  | EAST       | 3   | 4      | 4            | Square Feet |
| 12               | Delamination/Spall      | 48" X 24" 2" SPALL WITH EXPOSED REBAR IN E<br>DECK EAST OVERHANG OVER TRAFFIC PAR                     | OTTOM OF   | 3   | 8      | 8            | Square Feet |
| 12               | Cracking (RC and Other) | 400 SF. OF TRANSVERSE AND LONGITUDINAL CRACKS IN BOTTOM OF DECK                                       | HAIRLINE   | 2   | 400    | 400          | Square Feet |
| 12               | Delamination/Spall      | 120" X 6" DELAMINATION IN OUTSIDE FACE OF WEST OVERHANG AT BENT 2                                     | DECK       | 2   | 10     | 10           | Square Feet |
| 12               | Patched Areas           | 10 SF. OF PATCHED AREAS IN BOTTOM OF DE   | CK         | 2   | 10     |              | Square Feet |

**General Comments** 

| Span 3                |             | Beam 1                       |                     |            |            |            |              |             |
|-----------------------|-------------|------------------------------|---------------------|------------|------------|------------|--------------|-------------|
| Plate G               | irder       |                              |                     |            |            |            |              |             |
| Element<br>Number     | -           | Element Name                 | Total<br>Qty        | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |             |
| 107                   | Steel C     | Open Girder/Beam             | 76                  | 74         | 2          | 0          | 0            | Feet        |
| 515                   | Steel F     | Protective Coating           | 766                 | 764        | 2          | 0          | 0            | Square Feet |
| <br>Element<br>Number | Defect Type | Defect Des                   | scription           |            | cs         | CS Qty     | Maint<br>Qty |             |
| <b>107</b> Co         | rrosion     | 1 FT. OF PAINTED OVER PITTII | NG UP TO 1/16" DEEI | P WITH     | 2          | 1          | ,            | Feet        |

1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AND BEARING STIFFENER

| Structure | umber: <u>770100</u> Inspection Date: <u>05/17/2019</u> |   | tion Date: <u>05/17/2019</u> |   |               |
|-----------|---|---|------------------------------|---|---------------|
| 107       | Corrosion   | AROUND END DIAPHRAGM AT BENT 2<br>1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH<br>RUST BLEEDING IN WEB AND BEARING STIFFENER<br>AROUND END DIAPHRAGM AT BENT 3 | 2                            | 1 | Feet          |
| 515       | Effectiveness (Steel Protective Coatings)               | 1 SF. OF RUST BLEEDING ON BOTTOM FLANGE AT BENT 2   | 2                            | 1 | 1 Square Feet |
| 515       | Effectiveness (Steel Protective Coatings)               | 1 SF. OF RUST BLEEDING ON BOTTOM FLANGE AT BENT 3   | 2                            | 1 | 1 Square Feet |

#### **General Comments**

END DIAPHRAGM WEST OVERHANG AT BENT 2: 20" X 8" DELAMINATION

END DIAPHRAGM BAY 1 AT BENT 2: 18" X 6" DELAMINATION

END DIAPHRAGM BAY 1 AT BENT 3: 2 - 12" X 6" DELAMINATIONS

|                 |   | IDAT TAT DENT 3. 2 - 12 X 0 DELAMIN  |              |            |            |            |              |               |
|-----------------|---|--|--------------|------------|------------|------------|--------------|---------------|
| Spa             | n 3                                       | Beam 2   |              |            |            |            |              |               |
| Plat            | e Girder                                  |  |              |            |            |            |              |               |
|                 | ment<br>nber                              | Element Name   | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 107             | Steel Op                                  | en Girder/Beam   | 76           | 74         | 1          | 1          | 0            | Feet          |
| 515             | Steel Pro                                 | otective Coating   | 766          | 763        | 2          | 0          | 1            | Square Feet   |
| Elemen<br>Numbe | Dofoot Typo                               | Defect Description   | n            |            | cs         | CS Qty     | Maint<br>Qty |               |
| 107             | Corrosion                                 | 1 FT. OF CORROSION WITH 11/16" REI<br>WEB AND 13/16" REMAINING SECTION<br>STIFFENER AROUND END DIAPHRAGI | I IN BEARING | 3          | 3          | 1          | ,            | 1 Feet        |
| 107             | Corrosion                                 | 1 FT. OF PAINTED OVER PITTING UP T<br>RUST BLEEDING IN WEB AND BEARIN<br>AROUND END DIAPHRAGM AT BENT 3  | G STIFFENE   |            | 2          | 1          |              | Feet          |
| 515             | Effectiveness (Steel Protective Coatings) | 1 SF. OF INEFFECTIVE PROTECTIVE C<br>AND BEARING STIFFENER AT BENT 2                                     | COATING ON   | WEB        | 4          | 1          | ,            | 1 Square Feet |
| 515             | Effectiveness (Steel Protective Coatings) | 1 SF. OF RUST BLEEDING ON BOTTOM   | ∕I FLANGE A  | ΓBENT 2    | 2          | 1          | •            | 1 Square Feet |
| 515             | Effectiveness (Steel Protective Coatings) | 1 SF. OF RUST BLEEDING ON BOTTOM   | M FLANGE AT  | Γ BENT 3   | 2          | 1          | •            | 1 Square Feet |

#### **General Comments**

END DIAPHRAGM BAY 2 AT BENT 2: 2 - 18" X 8" DELAMINATIONS END DIAPHRAGM BAY 2 AT BENT 3: 84" X 10" DELAMINATION

| Spa             | ın 3                                      | Beam 3   |               |            |            |            |              |               |
|-----------------|---|--|---------------|------------|------------|------------|--------------|---------------|
| Plat            | te Girder                                 |  |               |            |            |            |              |               |
|                 | ment<br>nber                              | Element Name   | Total<br>Qty  | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 107             | Steel O                                   | oen Girder/Beam  | 76            | 74         | 2          | 0          | 0            | Feet          |
| 515             | Steel Pr                                  | otective Coating   | 766           | 764        | 2          | 0          | 0            | Square Feet   |
| Elemen<br>Numbe | Dofoct Typo                               | Defect Descrip   | otion         |            | cs         | CS Qty     | Maint<br>Qty |               |
| 107             | Corrosion                                 | 1 FT. OF PAINTED OVER PITTING U<br>RUST BLEEDING IN WEB AND BEA<br>AROUND END DIAPHRAGM AT BEI | RING STIFFENE |            | 2          | 1          | -            | Feet          |
| 107             | Corrosion                                 | 1 FT. OF PAINTED OVER PITTING U<br>RUST BLEEDING IN WEB AND BEA<br>AROUND END DIAPHRAGM AT BEI | RING STIFFENE |            | 2          | 1          |              | Feet          |
| 515             | Effectiveness (Steel Protective Coatings) | 1 SF. OF RUST BLEEDING ON BOT  | TOM FLANGE A  | T BENT 2   | 2          | 1          |              | 1 Square Feet |
| 515             | Effectiveness (Steel Protective Coatings) | 1 SF. OF RUST BLEEDING ON BOT  | TOM FLANGE A  | T BENT 3   | 2          | 1          |              | 1 Square Feet |
|                 | 0   |  |               |            |            |            |              |               |

**General Comments** 

END DIAPHRAGM BAY 3 AT BENT 2: 12" X 4" DELAMINATION END DIAPHRAGM BAY 3 AT BENT 3: 12" X 3" DELAMINATION AND 6" DIAMETER X 1" DEEP SPALL

Inspection Date: <u>05/17/2019</u> Structure Number: 770100

| Spa              | n 3                                      | Beam 4  |                |            |            |            |              |               |
|------------------|--|---|----------------|------------|------------|------------|--------------|---------------|
| Plate            | e Girder                                 |   |                |            |            |            |              |               |
| Elen<br>Num      |  | Element Name  | Total<br>Qty   | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 107              | Stee                                     | el Open Girder/Beam   | 76             | 74         | 2          | 0          | 0            | Feet          |
| 515              | Stee                                     | el Protective Coating   | 766            | 764        | 2          | 0          | 0            | Square Feet   |
| Elemen<br>Numbei | Dofoot Typo                              | Defect Descri   | ption          |            | cs         | CS Qty     | Maint<br>Qty |               |
| 107              | Corrosion                                | 1 FT. OF PAINTED OVER PITTING<br>RUST BLEEDING IN WEB AND BEA<br>AROUND END DIAPHRAGM AT BE                                   | ARING STIFFENE |            | 2          | 1          |              | Feet          |
| 107              | Corrosion                                | 1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AND BEARING STIFFENER AROUND END DIAPHRAGM AT BENT 3 |                |            | 2          | 1          |              | Feet          |
| 515              | Effectiveness (Ste<br>Protective Coating |   | TOM FLANGE AT  | FBENT 2    | 2          | 1          |              | 1 Square Feet |
| 515              | Effectiveness (Ste<br>Protective Coating |   | TOM FLANGE AT  | F BENT 3   | 2          | 1          |              | 1 Square Feet |
| -                | General Comment                          | s   |                |            |            |            |              |               |

END DIAPHRAGM EAST OVERHANG AT BENT 2: 18" X 3" DELAMINATION END DIAPHRAGM EAST OVERHANG AT BENT 3: 18" X 6" DELAMINATION

| Span              | 3               | Expansion                             | Joint        |            |            |            |              |      |
|-------------------|-----------------|---------------------------------------|--------------|------------|------------|------------|--------------|------|
| Comp              | ression Seal    |                                       |              |            |            |            |              |      |
| Eleme<br>Numb     |                 | Element Name                          | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |      |
| 302               | Compre          | ession Joint Seal                     | 45           | 20         | 20         | 5          | 0 F          | eet  |
| Element<br>Number | Defect Type     | Defect Desc                           | ription      |            | cs         | CS Qty     | Maint<br>Qty |      |
| <b>302</b> D      | ebris Impaction | 5 FT. OF DEBRIS IMPACTION             |              |            | 3          | 5          | 5            | Feet |
| <b>302</b> S      | eal Adhesion    | ADHESION FAILURE AT RANDO! THROUGHOUT | M LOCATIONS  |            | 2          | 20         |              | Feet |
| Ge                | neral Comments  |                                       |              |            |            |            |              |      |

| Span            | 3                          | Left Bridge                                       | Rail              |            |            |            |              |      |
|-----------------|----------------------------|---|-------------------|------------|------------|------------|--------------|------|
| Conc            | rete Railing               |   |                   |            |            |            |              |      |
| Eleme<br>Numb   |                            | Element Name                                      | Total<br>Qty      | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |      |
| 331             | Reinfo                     | ced Concrete Bridge Railing                       | 76                | 0          | 65         | 11         | 0 F          | eet  |
| lement<br>umber | Defect Type                | Defect Descri                                     | ption             |            | cs         | CS Qty     | Maint<br>Qty |      |
|                 | Cracking (RC and<br>Other) | 11 - 18" TRANSVERSE CRACKS U                      | P TO 1/16" WIDE I | N CURB     | 3          | 11         | 17           | Feet |
| 331 [           | Delamination/Spall         | 76 FT. OF ABRASION WITH EXPOS<br>AGGREGATE        | SED COARSE        |            | 2          | 63         | 76           | Feet |
| 331 E           | Exposed Rebar              | 2 - SPALLS WITH EXPOSED REBA<br>1/2" DEEP IN RAIL | R UP TO 6" DIAM   | ETER X     | 2          | 2          | 2            | Feet |

| Spa              | n 3                     | Right Bridge                                      | e Rail            |            |            |            |              |      |
|------------------|-------------------------|---|-------------------|------------|------------|------------|--------------|------|
| Con              | crete Railing           |   |                   |            |            |            |              |      |
| Elen<br>Num      |                         | Element Name                                      | Total<br>Qty      | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |      |
| 331              | Reinfo                  | orced Concrete Bridge Railing                     | 76                | 0          | 61         | 15         | 0 F          | eet  |
| lement<br>lumber | Dofoct Type             | Defect Descri                                     | ption             |            | cs         | CS Qty     | Maint<br>Qty |      |
| 331              | Cracking (RC and Other) | 15 - 18" TRANSVERSE CRACKS U                      | P TO 1/16" WIDE I | N CURB     | 3          | 15         | 23           | Feet |
| 331              | Delamination/Spall      | 76 FT. OF ABRASION WITH EXPOS<br>AGGREGATE        | SED COARSE        |            | 2          | 56         | 76           | Feet |
| 331              | Exposed Rebar           | 5 - SPALLS WITH EXPOSED REBA<br>1/2" DEEP IN RAIL | R UP TO 6" DIAM   | ETER X     | 2          | 5          | 5            | Feet |

| Span 3                   |             | Far   | Bearing                              |    |                  |            |            |              |             |
|--------------------------|-------------|---|--------------------------------------|----|------------------|------------|------------|--------------|-------------|
| Other Be                 | aring       |   |                                      |    |                  |            |            |              |             |
| Element<br>Number<br>316 | Othor R     | Element Name                                | Tota<br>Qty                          |    | <b>S1</b><br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |             |
| 310                      | Other E     | eanings                                     |                                      |    | U                | 0          | ı          | U            | Each        |
| 515                      | Steel P     | rotective Coating                           | 3                                    | 3  | 3                | 0          | 0          | 0            | Square Feet |
| Element<br>Number        | Defect Type | De  | fect Description                     |    |                  | cs         | CS Qty     | Maint<br>Qty |             |
| <b>316</b> Conne         | ection      | 1" LONG CRACK IN WEI<br>VERTICAL PLATE (BOT | LD OF EAST STIFFENER<br>H SIDES) PAR | ТО |                  | 3          | 1          | -            | 1 Each      |
| Genera                   | al Comments |   | ·                                    |    |                  |            |            |              |             |

| Span 3               |                    | Near Bea               | aring        |            |            |            |              |             |
|----------------------|--------------------|------------------------|--------------|------------|------------|------------|--------------|-------------|
| Other Bear           | ing                |                        |              |            |            |            |              |             |
| Element<br>Number    | Ele                | ment Name              | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |             |
| 316                  | Other Bearings     |                        | 1            | 0          | 1          | 0          | 0            | Each        |
| 515                  | Steel Protective ( | Coating                | 3            | 3          | 0          | 0          | 0            | Square Feet |
| Element<br>Number De | fect Type          | Defect De              | escription   |            | cs         | CS Qty     | Maint<br>Qty |             |
| 316 Corrosio         | n PAINT            | ED OVER PITTING 1/8" I | DEEP         |            | 2          | 1          |              | Each        |

|                    | Wearing                         | Surface  |  |   |  |  |  |
|--------------------|---------------------------------|--|--|---|--|--|--|
| e Wearing Su       | urface                          |  |  |   |  |  |  |
|                    | Element Name                    | Total<br>Qty   | CS1<br>Qty   | CS2<br>Qty  | CS3<br>Qty   | CS4<br>Qty   |  |
| Wearin             | g Surface                       | 2,128  | 2,126  | 2   | 0  | 0  | Square Feet  |
| Defect Type        | Defect De                       | scription  |  | cs  | CS Qty   | Maint<br>Qty   |  |
| k (Wearing<br>ace) | 2 FT. DIAGONAL HAIRLINE CR      | ACK AT BENT 2  |  | 2   | 2  | 2  | 2 Square Feet  |
|                    | Wearin  Defect Type  k (Wearing | Element Name Wearing Surface  Defect Type  k (Wearing 2 FT. DIAGONAL HAIRLINE CR | Element Name Qty Wearing Surface 2,128  Defect Type Defect Description  k (Wearing 2 FT. DIAGONAL HAIRLINE CRACK AT BENT 2 | Element Name Wearing Surface  Total Qty Qty 2,126  Defect Type Defect Description  k (Wearing 2 FT. DIAGONAL HAIRLINE CRACK AT BENT 2 | Element Name   Total   CS1   CS2   Qty   Qty | Element Name         Total Qty Qty Qty Qty Qty Qty         CS2 Qty Qty Qty Qty         CS3 Qty Qty Qty Qty         Qty Qty Qty Qty Qty Qty Qty Qty         Qty Qty Qty Qty Qty Qty Qty Qty Qty Qty | Element Name   Total   CS1   CS2   CS3   CS4   CS2   CS3   CS4   CS2   CS3   CS4   CS4   CS4   CS5   CS4   CS5   CS4   CS5   CS5 |

| Spa             | ın 4                    | Deck  |              |            |            |            |              |             |
|-----------------|-------------------------|---|--------------|------------|------------|------------|--------------|-------------|
| Rei             | nforced Concrete        | Deck  |              |            |            |            |              |             |
| Nur             | ment<br>mber            | Element Name  | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |             |
| 12              | Reinfor                 | ced Concrete Deck   | 2,016        | 1,708      | 308        | 0          | 0 S          | quare Feet  |
| Elemer<br>Numbe | Dofoct Typo             | Defect Descript   | ion          |            | cs         | CS Qty     | Maint<br>Qty |             |
| 12              | Cracking (RC and Other) | 300 SF. OF TRANSVERSE HAIRLINE EFFLORESCENCE IN BOTTOM OF D   |              | 1          | 2          | 300        | 300          | Square Feet |
| 12              | Cracking (RC and Other) | 4FT X 1/16" CRACK IN NB TRAVEL L<br>NORTH EXPANSION JOINT     | ANE ADJACEN  | T TO       | 2          | 4          | 4            | Square Feet |
| 12              | Delamination/Spall      | 2FT LONG X 8' WIDE X 1/2" DEEP SP<br>BOTTOM OF DECK           | ALL LOCATED  | IN BAY 3   | 2          | 2          | 2            | Square Feet |
| 12              | Delamination/Spall      | 2FT LONG X 8: WIDE DELAMINATION BOTTOM OF DECK 15 FTT FROM AE |              | BAY 3      | 2          | 2          | 2            | Square Feet |
|                 | General Comments        |   |              |            |            |            |              |             |

| Spa   | n 4                                       | Beam 1  |                  |            |            |            |              |               |
|-------|---|---|------------------|------------|------------|------------|--------------|---------------|
| Plat  | e Girder                                  |   |                  |            |            |            |              |               |
|       | nent<br>nber                              | Element Name  | Total<br>Qty     | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 107   | Steel Op                                  | oen Girder/Beam   | 63               | 62         | 1          | 0          | 0            | Feet          |
| 515   | Steel Pro                                 | otective Coating  | 632              | 631        | 1          | 0          | 0            | Square Feet   |
| lemen | Dofoct Typo                               | Defect Des  | scription        |            | cs         | CS Qty     | Maint<br>Qty |               |
| 107   | Corrosion                                 | 1 FT. OF PAINTED OVER PITTIN<br>RUST BLEEDING IN WEB AND E<br>AROUND END DIAPHRAGM AT | BEARING STIFFENE |            | 2          | 1          |              | Feet          |
| 515   | Effectiveness (Steel Protective Coatings) | 1 SF. OF RUST BLEEDING ON E   | BOTTOM FLANGE AT | T BENT 3   | 2          | 1          |              | 1 Square Feet |

| Spa    | an 4                                      | Beam 2  |                 |            |            |            |              |               |
|--------|---|---|-----------------|------------|------------|------------|--------------|---------------|
| Pla    | te Girder                                 |   |                 |            |            |            |              |               |
|        | ment<br>mber                              | Element Name  | Total<br>Qty    | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 107    | Steel Op                                  | oen Girder/Beam   | 63              | 62         | 1          | 0          | 0            | Feet          |
| 515    | Steel Pr                                  | otective Coating  | 632             | 631        | 1          | 0          | 0            | Square Feet   |
| Elemer | Dofoct Typo                               | Defect Desc   | ription         |            | cs         | CS Qty     | Maint<br>Qty |               |
| 107    | Corrosion                                 | 1 FT. OF PAINTED OVER PITTING<br>RUST BLEEDING IN WEB AND BE<br>AROUND END DIAPHRAGM AT B | EARING STIFFENE |            | 2          | 1          |              | Feet          |
| 515    | Effectiveness (Steel Protective Coatings) | 1 SF. OF RUST BLEEDING ON BO  | OTTOM FLANGE AT | BENT 3     | 2          | 1          | •            | 1 Square Feet |
|        | General Comments                          |   |                 |            |            |            |              |               |

| Spai              | n 4                                       | Beam 3  |               |            |            |            |              |               |
|-------------------|---|---|---------------|------------|------------|------------|--------------|---------------|
| Plate             | e Girder                                  |   |               |            |            |            |              |               |
| Elem<br>Num       |   | Element Name  | Total<br>Qty  | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 107               | Steel Op                                  | en Girder/Beam  | 63            | 61         | 2          | 0          | 0            | Feet          |
| 515               | Steel Pro                                 | otective Coating  | 632           | 630        | 1          | 1          | 0            | Square Feet   |
| Element<br>Number | Dofoct Typo                               | Defect Descrip  | otion         |            | cs         | CS Qty     | Maint<br>Qty |               |
| 107               | Corrosion                                 | 1 FT. OF PAINTED OVER PITTING URST BLEEDING IN WEB AND BEA<br>AROUND END DIAPHRAGM AT BEN | RING STIFFENE |            | 2          | 1          | -            | Feet          |
| 107               | Corrosion                                 | 1 FT. OF SURFACE CORROSION O<br>FLANGE AT END BENT 2                                      | N TOP AND BOT | TOM        | 2          | 1          |              | Feet          |
| 515               | Effectiveness (Steel Protective Coatings) | 1 SF. OF INEFFECTIVE PROTECTIVE AND BOTTOM FLANGE AT END BE                               |               | TOP        | 3          | 1          |              | 1 Square Feet |
| 515               | Effectiveness (Steel Protective Coatings) | 1 SF. OF RUST BLEEDING ON BOT   | TOM FLANGE AT | Γ BENT 3   | 2          | 1          |              | 1 Square Feet |

**General Comments** 

END DIAPHRAGM BAY 3 AT BENT 3: 2 SF. OF HAIRLINE MAP CRACKING IN PATCHED AREA

| Span              | 4   | Beam 4  |               |            |            |            |              |               |
|-------------------|---|---|---------------|------------|------------|------------|--------------|---------------|
| Plate             | Girder                                    |   |               |            |            |            |              |               |
| Eleme<br>Numb     |   | Element Name  | Total<br>Qty  | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 107               | Steel Op                                  | en Girder/Beam  | 63            | 61         | 2          | 0          | 0            | Feet          |
| 515               | Steel Pro                                 | otective Coating  | 632           | 630        | 1          | 1          | 0            | Square Feet   |
| Element<br>Number | Defect Type                               | Defect Descrip  | ption         |            | cs         | CS Qty     | Maint<br>Qty |               |
| 107 (             | Corrosion                                 | 1 FT. OF PAINTED OVER PITTING URST BLEEDING IN WEB AND BEA<br>AROUND END DIAPHRAGM AT BEN | RING STIFFENE |            | 2          | 1          |              | Feet          |
| 107               | Corrosion                                 | 1 FT. OF SURFACE CORROSION O<br>FLANGE AT END BENT 2                                      | N TOP AND BOT | TOM        | 2          | 1          |              | Feet          |
|                   | Effectiveness (Steel Protective Coatings) | 1 SF. OF INEFFECTIVE PROTECTIVE AND BOTTOM FLANGE AT END BE                               |               | TOP        | 3          | 1          | 1            | 1 Square Feet |
|                   | Effectiveness (Steel Protective Coatings) | 1 SF. OF RUST BLEEDING ON BOT   | TOM FLANGE AT | BENT 3     | 2          | 1          | 1            | 1 Square Feet |
| _                 | eneral Comments                           |   |               |            |            |            |              |               |

| Span              | 4               | Expansion                            | Joint        |            |            |            |              |      |
|-------------------|-----------------|--------------------------------------|--------------|------------|------------|------------|--------------|------|
| Comp              | ression Seal    |                                      |              |            |            |            |              |      |
| Eleme<br>Numb     |                 | Element Name                         | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |      |
| 302               | Compre          | ession Joint Seal                    | 45           | 21         | 21         | 3          | 0 F          | eet  |
| Element<br>Number | Defect Type     | Defect Des                           | cription     |            | cs         | CS Qty     | Maint<br>Qty |      |
| <b>302</b> D      | ebris Impaction | 3 FT. OF DEBRIS IMPACTION            |              |            | 3          | 3          | 3            | Feet |
| <b>302</b> S      | eal Adhesion    | ADHESION FAILURE AT RANDO THROUGHOUT | M LOCATIONS  |            | 2          | 21         |              | Feet |

| 4                | Expansion   | n Joint  |  |  |   |  |  |
|------------------|---|--|--|--|---|--|--|
| oression Seal    |   |  |  |  |   |  |  |
| ent<br>oer       | Element Name  | Total<br>Qty   | CS1<br>Qty   | CS2<br>Qty   | CS3<br>Qty  | CS4<br>Qty   |  |
| Compre           | ession Joint Seal   | 45   | 20   | 25   | 0   | 0 1  | -eet   |
| Defect Type      | Defect Des  | cription   |  | cs   | CS Qty  | Maint<br>Qty   |  |
| Debris Impaction | 5 FT. OF DEBRIS IMPACTION   |  |  | 2  | 5   | 5  | Feet   |
| Seal Adhesion    | ADHESION FAILURE AT RANDO   | M LOCATIONS  |  | 2  | 20  |  | Feet   |
|                  | Compression Seal  Port Compression  Defect Type  Debris Impaction | Defect Type Debris Impaction Defect Adhesion Defect Adhesion Defect Deservices Adhesion Deserv | Defect Type Defect Type Debris Impaction Debris Impaction Description Descript | Defect Type Defect Type Defect Impaction Debris Impaction | Defect Type Defect Description CS Debris Impaction 5 FT. OF DEBRIS IMPACTION 2 Defect Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 | Defect Type Defect Description 5 FT. OF DEBRIS IMPACTION 2 5 Seal Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 20 Description 5 FT. OF DEBRIS IMPACTION 2 2 20 Description 2 2 20 Description 2 2 20 Description 3 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 20 Description 2 2 20 Description 3 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 20 Description 2 2 20 Description 3 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 20 Description 3 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 20 Description 3 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 20 Description 3 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 20 Description 3 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 20 Description 3 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 20 Description 3 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 20 Description 3 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 20 Description 3 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 20 Description 3 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 20 Description 4 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 20 Description 4 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 20 Description 4 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 20 Description 4 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 20 Description 4 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 2 20 Description 4 Each Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 2 2 20 Description 4 Each Adhesion ADHESION FAILURE AT RANDOM LOCATION 4 Each Adhesion 4 Each Adhesion ADHESION FAILURE AT RANDOM LOCATION 4 Each Adhesion 4 Each Adhes | Defect Type Defect Description Seal Defect Description Seal Defect Impaction 5 FT. OF DEBRIS IMPACTION 2 5 5 5 Seal Adhesion ADHESION FAILURE AT RANDOM LOCATIONS 2 20 20 DESCRIPTION 2 2 2 20 DESCRIPTION 2 2 20 DESCRIPTION 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |

| 4                  | Left Bridge                                       | Rail   |  |   |  |  |  |
|--------------------|---|--|--|---|--|--|--|
| rete Railing       |   |  |  |   |  |  |  |
|                    | Element Name                                      | Total<br>Qty   | CS1<br>Qty   | CS2<br>Qty  | CS3<br>Qty   | CS4<br>Qty   |  |
| Reinfo             | ced Concrete Bridge Railing                       | 65   | 0  | 57  | 8  | 0 F  | eet  |
| Defect Type        | Defect Descri                                     | ption  |  | cs  | CS Qty   | Maint<br>Qty   |  |
|                    | 8 - 18" TRANSVERSE CRACKS UP                      | TO 1/16" WIDE IN                                     | CURB   | 3   | 8  | 12   | Feet   |
| Delamination/Spall | 65 FT. OF ABRASION WITH EXPOS<br>AGGREGATE        | SED COARSE   |  | 2   | 56   | 65   | Feet   |
| xposed Rebar       | 1 - SPALL WITH EXPOSED REBAR<br>1/2" DEEP IN RAIL | UP TO 6" DIAME                                       | TER X  | 2   | 1  | 1  | Feet   |
|                    | rete Railing<br>ent<br>er<br>Reinfor              | rete Railing  Int Int Int Int Int Int Int Int Int In | rete Railing  Int Element Name Qty Reinforced Concrete Bridge Railing 65  Defect Type Defect Description  Cracking (RC and 8 - 18" TRANSVERSE CRACKS UP TO 1/16" WIDE IN Other) Delamination/Spall 65 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE Exposed Rebar 1 - SPALL WITH EXPOSED REBAR UP TO 6" DIAME" | rete Railing  Int Element Name Qty Qty Reinforced Concrete Bridge Railing 65 0  Defect Type Defect Description  Cracking (RC and Other) Delamination/Spall 65 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE  Exposed Rebar 1 - SPALL WITH EXPOSED REBAR UP TO 6" DIAMETER X | rete Railing  Int Element Name Total CS1 CS2 Per Element Name Qty Qty Qty Reinforced Concrete Bridge Railing 65 0 57  Defect Type Defect Description CS  Cracking (RC and 8 - 18" TRANSVERSE CRACKS UP TO 1/16" WIDE IN CURB 3 Delamination/Spall 65 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE  Exposed Rebar 1 - SPALL WITH EXPOSED REBAR UP TO 6" DIAMETER X 2 | rete Railing  Int Element Name Qty | rete Railing  Int Element Name Qty |

| Cor   | ncrete Railing          |  |                  |            |            |            |              |      |
|-------|-------------------------|--|------------------|------------|------------|------------|--------------|------|
|       | ment<br>nber            | Element Name                                       | Total<br>Qty     | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |      |
| 331   | Reinfor                 | ced Concrete Bridge Railing                        | 65               | 0          | 61         | 4          | 0 F          | eet  |
| lemer | Dofoct Typo             | Defect Descri                                      | ption            |            | cs         | CS Qty     | Maint<br>Qty |      |
| 331   | Cracking (RC and Other) | 4 - 18" TRANSVERSE CRACKS UP                       | TO 1/16" WIDE IN | I CURB     | 3          | 4          | 6            | Feet |
| 331   | Delamination/Spall      | 3 - SPALLS WITH EXPOSED REBAI<br>1/2" DEEP IN RAIL | R UP TO 6" DIAM  | ETER X     | 2          | 3          | 3            | Feet |
| 331   | Delamination/Spall      | 65 FT. OF ABRASION WITH EXPOS<br>AGGREGATE         | SED COARSE       |            | 2          | 58         | 65           | Feet |

| Spa               | n 4                                       | Far Bearii                 | ng            |            |            |            |              |               |
|-------------------|---|----------------------------|---------------|------------|------------|------------|--------------|---------------|
| Othe              | er Bearing                                |                            |               |            |            |            |              |               |
| Elen<br>Num       |   | Element Name               | Total<br>Qty  | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 316               | Other B                                   | earings                    | 1             | 0          | 1          | 0          | 0            | Each          |
| 515               | Steel Pi                                  | rotective Coating          | 2             | 0          | 0          | 2          | 0            | Square Feet   |
| Element<br>Number | Defeat Type                               | Defect Des                 | scription     |            | cs         | CS Qty     | Maint<br>Qty |               |
| 316               | Corrosion                                 | SURFACE CORROSION          |               |            | 2          | 1          | -            | Each          |
| 515               | Effectiveness (Steel Protective Coatings) | 2 SF. OF INEFFECTIVE PROTE | CTIVE COATING |            | 3          | 2          |              | 2 Square Feet |

**General Comments** 

| Span 4            | •           | Near Bear  | ing              |            |            |            |              |             |
|-------------------|-------------|--|------------------|------------|------------|------------|--------------|-------------|
| Other B           | earing      |  |                  |            |            |            |              |             |
| Element<br>Number |             | Element Name                                     | Total<br>Qty     | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |             |
| 316               | Other E     | Bearings   | 1                | 0          | 0          | 1          | 0            | Each        |
| 515               | Steel P     | rotective Coating                                | 3                | 3          | 0          | 0          | 0            | Square Feet |
| Element<br>Number | Defect Type | Defect Des                                       | cription         |            | cs         | CS Qty     | Maint<br>Qty |             |
| <b>316</b> Cor    | nnection    | 2" LONG CRACK IN WELD OF E<br>VERTICAL PLATE PAR | AST STIFFENER TO |            | 3          | 1          |              | 1 Each      |

**General Comments** 

Protective Coatings)

| Spa   | ın 4                                      | Far Bearin                  | g            |            |            |            |              |               |
|-------|---|-----------------------------|--------------|------------|------------|------------|--------------|---------------|
| Oth   | er Bearing                                |                             |              |            |            |            |              |               |
|       | ment<br>nber                              | Element Name                | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 316   | Other B                                   | earings                     | 1            | 0          | 1          | 0          | 0            | Each          |
| 515   | Steel Pr                                  | otective Coating            | 2            | 0          | 0          | 2          | 0            | Square Feet   |
| lemer | Defect Type                               | Defect Desc                 | cription     |            | cs         | CS Qty     | Maint<br>Qty |               |
| 316   | Corrosion                                 | SURFACE CORROSION           |              |            | 2          | 1          | •            | Each          |
| 515   | Effectiveness (Steel Protective Coatings) | 2 SF. OF INEFFECTIVE PROTEC | TIVE COATING |            | 3          | 2          |              | 2 Square Feet |
|       | General Comments                          |                             |              |            |            |            |              |               |

| Span              | 4              | Near Bea   | ring              |            |            |            |              |             |
|-------------------|----------------|--|-------------------|------------|------------|------------|--------------|-------------|
| Other             | Bearing        |  |                   |            |            |            |              |             |
| Eleme<br>Numb     | er             | Element Name                                     | Total<br>Qty      | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   | ,           |
| 316               | Other B        | earings  | 1                 | 0          | 1          | 0          | 0            | Each        |
| 515               | Steel Pr       | rotective Coating                                | 3                 | 3          | 0          | 0          | 0            | Square Feet |
| Element<br>Number | Defect Type    | Defect De  | scription         |            | cs         | CS Qty     | Maint<br>Qty |             |
| <b>316</b> C      | onnection      | 1" LONG CRACK IN WELD OF V<br>VERTICAL PLATE PAR | WEST STIFFENER TO |            | 2          | 1          |              | 1 Each      |
| Ge                | neral Comments |  |                   |            |            |            |              |             |

Span 4 **Far Bearing Other Bearing Element** Total CS1 CS2 CS3 CS4 Number **Element Name** Qty Qty Qty Qty Qty 316 Other Bearings 1 0 1 0 0 Each 515 Steel Protective Coating 2 0 0 2 0 Square Feet Element Maint **Defect Type Defect Description** CS CS Qty Number Qty SURFACE CORROSION 2 316 Corrosion 1 Each 2 SF. OF INEFFECTIVE PROTECTIVE COATING 2 3 515 Effectiveness (Steel 2 Square Feet

| Spa             | ın 4                                      | Near Bearing   | g                 |                 |            |                 |              |               |
|-----------------|---|--|-------------------|-----------------|------------|-----------------|--------------|---------------|
| Oth             | er Bearing                                |  |                   |                 |            |                 |              |               |
|                 | ment<br>nber<br>Other Be                  | Element Name<br>earings                              | Total<br>Qty<br>1 | CS1<br>Qty<br>0 | CS2<br>Qty | CS3<br>Qty<br>1 | CS4<br>Qty   | Each          |
| 515             | Steel Pro                                 | otective Coating                                     | 3                 | 1               | 2          | 0               | 0            | Square Feet   |
| Elemen<br>Numbe | Dofoct Typo                               | Defect Descri  | ption             |                 | cs         | CS Qty          | Maint<br>Qty |               |
| 316             | Connection                                | 1" LONG CRACK IN WELD OF EAS'<br>VERTICAL PLATE (PM) | T STIFFENER TO    |                 | 3          |                 | 1            | 1 Each        |
| 316             | Connection                                | 2" LONG CRACK IN WELD OF WES<br>VERTICAL PLATE (PM)  | ST STIFFENER TO   |                 | 3          | 1               | 1            | 1 Each        |
| 316             | Corrosion                                 | FRECKLED RUST  |                   |                 | 2          |                 |              | Each          |
| 515             | Effectiveness (Steel Protective Coatings) | 2 SF. OF LIMITED EFFECTIVENESS COATING               | S OF PROTECTIVE   |                 | 2          | 2               | 2            | 2 Square Feet |
|                 | General Comments                          |  |                   |                 |            |                 |              |               |

| Spa<br>Othe    | n 4<br>er Bearing                         | Far Bearing                  | I            |            |            |            |              |               |
|----------------|---|------------------------------|--------------|------------|------------|------------|--------------|---------------|
|                | ment<br>nber                              | Element Name                 | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |               |
| 316            | Other B                                   | earings                      | 1            | 0          | 1          | 0          | 0            | Each          |
| 515            | Steel Pr                                  | otective Coating             | 2            | 0          | 0          | 2          | 0            | Square Feet   |
| lemen<br>lumbe | Dofoct Typo                               | Defect Descri                | ription      |            | cs         | CS Qty     | Maint<br>Qty |               |
| 316            | Corrosion                                 | SURFACE CORROSION            |              |            | 2          | 1          | •            | Each          |
| 515            | Effectiveness (Steel Protective Coatings) | 2 SF. OF INEFFECTIVE PROTECT | TIVE COATING |            | 3          | 2          |              | 2 Square Feet |
| -              | General Comments                          |                              |              |            |            |            |              |               |

|                | Bent 1                  | Cap 1                                     |                  |            |            |            |              |      |
|----------------|-------------------------|---|------------------|------------|------------|------------|--------------|------|
| Keir           | nforced Concrete        | Pier Cap                                  |                  |            |            |            |              |      |
| Elen<br>Nun    | nent<br>nber            | Element Name                              | Total<br>Qty     | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |      |
| 234            | Reinfor                 | ced Concrete Pier Cap                     | 52               | 38         | 9          | 5          | 0 1          | -eet |
| lemen<br>lumbe | Defeat Type             | Defect Descr                              | iption           |            | cs         | CS Qty     | Maint<br>Qty |      |
| 234            | Cracking (RC and Other) | 12" HORIZONTAL CRACK 1/16" WI             | DE UNDER BAY 1   |            | 3          | 1          | 1            | Feet |
| 234            | Cracking (RC and Other) | 12" HORIZONTAL CRACK 1/8" WIE<br>OVERHANG | DE UNDER WEST    |            | 3          | 1          | 1            | Feet |
| 234            | Cracking (RC and Other) | 3 - 12" VERTICAL CRACKS UP TO             | 1/16" WIDE UNDEF | R BAY 1    | 3          | 3          | 3            | Feet |
| 234            | Cracking (RC and Other) | 3 - 12" VERTICAL HAIRLINE CRAC            | KS UNDER BAY 3   |            | 2          | 3          | 3            | Feet |
| 234            | Cracking (RC and Other) | 4 - 12" VERTICAL HAIRLINE CRAC            | KS UNDER BAY 2   |            | 2          | 4          | 4            | Feet |
| 234            | Delamination/Spall      | 24" X 8" DELAMINATION UNDER V             | VEST OVERHANG    |            | 2          | 2          | 2            | Feet |

| Bei   | nt 1                    | Pile 1                   |              |            |            |            |              |      |
|-------|-------------------------|--------------------------|--------------|------------|------------|------------|--------------|------|
| Rei   | nforced Concrete        | Column                   |              |            |            |            |              |      |
|       | ment<br>mber            | Element Name             | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |      |
| 205   | Reinfor                 | ced Concrete Column      | 1            | 0          | 1          | 0          | 0            | Each |
| Eleme | Dofoot Typo             | Defect                   | Description  |            | cs         | CS Qty     | Maint<br>Qty |      |
| 205   | Delamination/Spall      | 96" X 6" DELAMINATION IN | SOUTH FACE   |            | 2          | 1          | 1            | Each |
|       | <b>General Comments</b> |                          |              |            |            |            |              |      |

| Ber<br>Rei | nt 1<br>nforced Concrete | Cap 1 Pier Cap  |                    |            |            |            |                      |
|------------|--------------------------|---|--------------------|------------|------------|------------|----------------------|
|            | ment<br>mber             | Element Name ced Concrete Pier Cap                          | Total<br>Qty<br>38 | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty<br>0 Feet |
| Elemer     | nt Defect Type           | Defect Descri   | ption              |            | cs         | CS Qty     | Maint<br>Qty         |
| 234        | Cracking (RC and Other)  | 3FT HAIRLINE LONGITUDINAL AND SOUTH FACE BETWEEN COLUMN     |                    | CK         | 2          | 3          | Feet                 |
| 234        | Delamination/Spall       | 2 - 12" X 6" DELAMINATIONS IN BC<br>BETWEEN COLUMNS 1 AND 2 | OTTOM OF CAP       |            | 2          | 2          | 2 Feet               |
| 234        | Delamination/Spall       | 24" DIAMETER DELAMINATION IN BETWEEN COLUMNS 2 AND 3        | BOTTOM OF CAP      |            | 2          | 2          | 2 Feet               |
| 234        | Delamination/Spall       | 8" DIAMETER DELAMINATION IN N<br>UNDER BAY 1                | IORTH FACE OF C    | AP         | 2          | 1          | 1 Feet               |

| End             | Bent 1                  | Abutment                                  |                     |                  |                 |                                |                    |      |
|-----------------|-------------------------|---|---------------------|------------------|-----------------|--------------------------------|--------------------|------|
| Rei             | nforced Concrete        | Abutment                                  |                     |                  |                 |                                |                    |      |
|                 | nent<br>nber<br>Reinfor | Element Name ced Concrete Abutment        | Total<br>Qty<br>52  | CS1<br>Qty<br>32 | CS2<br>Qty<br>4 | <b>CS3</b><br><b>Qty</b><br>16 | CS4<br>Qty<br>0 Fe | eet  |
| Elemen<br>Numbe | Dofoot Typo             | Defect Desc                               | ription             |                  | cs              | CS Qty                         | Maint<br>Qty       |      |
| 215             | Cracking (RC and Other) | 10 SF. OF HAIRLINE MAP CRACK              | ING IN BAY 3        |                  | 3               | 10                             | 10                 | Feet |
| 215             | Cracking (RC and Other) | 3 - 36" VERTICAL CRACKS UP TO             | ) 1/16" WIDE IN BAY | 2                | 3               | 3                              | 9                  | Feet |
| 215             | Cracking (RC and Other) | 3 SF. OF HAIRLINE MAP CRACKII<br>OVERHANG | NG UNDER EAST       |                  | 3               | 3                              | 3                  | Feet |
| 215             | Cracking (RC and Other) | 3 - 24" VERTICAL HAIRLINE CRAC            | CKS IN BAY 1        |                  | 2               | 3                              |                    | Feet |
| 215             | Delamination/Spall      | 12" X 6" DELAMINATION IN BAY 1            |                     |                  | 2               | 1                              | 1                  | Feet |

| Enc                           | l Bent 2        | Cap 1   |              |            |            |            |              |  |
|-------------------------------|-----------------|---|--------------|------------|------------|------------|--------------|--|
| Rei                           | nforced Concret | e Pier Cap  |              |            |            |            |              |  |
|                               | ment<br>mber    | Element Name                                      | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |  |
| 234                           | Reinf           | orced Concrete Pier Cap                           | 52           | 49         | 0          | 3          | 0 Feet       |  |
| Elemer                        | Dofoot Typo     | Defect Descr                                      | iption       |            | cs         | CS Qty     | Maint<br>Qty |  |
| 234 Cracking (RC ar<br>Other) |                 | 36" HORIZONTAL CRACK UP TO 1/8" WIDE UNDER BEAM 4 |              | 3          | 3          | 3 Feet     |              |  |

#### **General Comments**

4

|                |                         |  |                | 004        |            | 000        | 004          |
|----------------|-------------------------|--|----------------|------------|------------|------------|--------------|
|                | ment<br>nber            | Element Name   | Total<br>Qty   | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |
| 234            | Reinfor                 | ced Concrete Pier Cap  | 38             | 14         | 20         | 4          | 0 Feet       |
| lemer<br>lumbe | Dofoot Tymo             | Defect Descrip   | otion          |            | cs         | CS Qty     | Maint<br>Qty |
| 234            | Cracking (RC and Other) | 1 SF. OF HAIRLINE MAP CRACKING CAP UNDER BAY 3               | IN NORTH FAC   | E OF       | 3          | 1          | 1 Feet       |
| 234            | Cracking (RC and Other) | 36" HORIZONTAL CRACK UP TO 1/<br>CAP BETWEEN COLUMNS 2 AND 3 |                | TOM OF     | 3          | 3          | 3 Feet       |
| 234            | Cracking (RC and Other) | 2 - 36" DIAGONAL HAIRLINE CRACI<br>CAP UNDER BAY 3           | KS IN SOUTH FA | CE OF      | 2          | 3          | 6 Feet       |
| 234            | Cracking (RC and Other) | 24" HORIZONTAL HAIRLINE CRACK<br>BETWEEN COLUMNS 1 AND 2     | ( IN BOTTOM OF | CAP        | 2          | 2          | 2 Feet       |
| 234            | Cracking (RC and Other) | 36" DIAGONAL HAIRINE CRACK IN UNDER BEAM 3                   | SOUTH FACE OF  | CAP        | 2          | 3          | 3 Feet       |
| 234            | Cracking (RC and Other) | 36" DIAGONAL HAIRLINE CRACK IN UNDER BAY 2                   | SOUTH FACE C   | F CAP      | 2          | 3          | 3 Feet       |
| 234            | Cracking (RC and Other) | 36" VERTICAL HAIRILNE CRACK IN UNDER BEAM 4                  | SOUTH FACE O   | F CAP      | 2          | 1          | 3 Feet       |
| 234            | Cracking (RC and Other) | 36" VERTICAL HAIRLINE CRACK IN UNDER BEAM 2                  | NORTH FACE O   | F CAP      | 2          | 1          | 3 Feet       |
| 234            | Delamination/Spall      | 12" X 4" DELAMINATION IN BOTTOI<br>COLUMNS 2 AND 3           | M OF CAP BETW  | EEN        | 2          | 1          | 1 Feet       |
| 234            | Delamination/Spall      | 18" DIAMETER DELAMINATION IN E<br>BETWEEN COLUMNS 1 AND 2    | BOTTOM OF CAP  | •          | 2          | 2          | 2 Feet       |
| 234            | Delamination/Spall      | 18" X 6" DELAMINATION IN TOP OF SPAN 2 SIDE                  | CAP UNDER BE   | AM 1       | 2          | 2          | 2 Feet       |
| 234            | Delamination/Spall      | 24" X 2" DELAMINATION IN BOTTOI<br>COLUMNS 1 AND 2           | M OF CAP BETW  | EEN        | 2          | 2          | 2 Feet       |

| Ben             | Bent 2                  |   |                   |            |            |            |              |      |
|-----------------|-------------------------|---|-------------------|------------|------------|------------|--------------|------|
| Reir            | nforced Concrete        | Column  |                   |            |            |            |              |      |
| Nun             | ment<br>nber            | Element Name  | Total<br>Qty      | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |      |
| 205             | Reinfor                 | ced Concrete Column                                     | 1                 | 0          | 1          | 0          | 0 E          | ach  |
| Elemen<br>Numbe | Dofoot Typo             | Defect Desc   | cription          |            | cs         | CS Qty     | Maint<br>Qty |      |
| 205             | Cracking (RC and Other) | 12" VERTICAL HAIRLINE CRACK<br>FROM BOTTOM TRAVELING UP |                   | CAP        | 2          |            |              | Each |
| 205             | Delamination/Spall      | 3" DIAMETER X 1/2" DEEP SPALI<br>NEAR BOTTOM            | L IN EAST FACE OF | CAP        | 2          | 1          | 1            | Each |
| -               | General Comments        |   |                   |            |            |            |              |      |

| Bent 2            | 2                       | Pile 2   |              |            |            |            |              |  |
|-------------------|-------------------------|--|--------------|------------|------------|------------|--------------|--|
| Reinfo            | orced Concrete          | Column   |              |            |            |            |              |  |
| Eleme<br>Numb     |                         | Element Name   | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |  |
| 205               | Reinfor                 | ced Concrete Column  | 1            | 0          | 1          | 0          | 0 Each       |  |
| Element<br>Number | Defect Type             | Defect Des   | cription     |            | cs         | CS Qty     | Maint<br>Qty |  |
|                   | Cracking (RC and Other) | 12" VERTICAL HAIRLINE CRACK IN EAST AND WEST FACE OF CAP FROM BOTTOM TRAVELING UPWARDS |              | 2          | 1          | Eac        | :h           |  |

Structure Number: 770100 Inspection Date: <u>05/17/2019</u>

**General Comments** 

| Ber             | nt 2                    | Pile 3   |              |            |            |            |              |      |
|-----------------|-------------------------|--|--------------|------------|------------|------------|--------------|------|
| Rei             | nforced Concrete        | Column   |              |            |            |            |              |      |
|                 | ment<br>nber            | Element Name   | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |      |
| 205             | Reinfor                 | ced Concrete Column                                      | 1            | 0          | 1          | 0          | 0            | Each |
| Elemer<br>Numbe | Dofoot Typo             | Defect Desc  | ription      |            | cs         | CS Qty     | Maint<br>Qty |      |
| 205             | Cracking (RC and Other) | 12" VERTICAL HAIRLINE CRACK<br>FROM BOTTOM TRAVELING UPV |              | CAP        | 2          | 1          |              | Each |
|                 | 0                       |  |              |            |            |            |              |      |

| General | Comments |
|---------|----------|
|---------|----------|

| End    | d Bent 2                | Abutment              |   |            |            |            |              |      |
|--------|-------------------------|-----------------------|---|------------|------------|------------|--------------|------|
| Rei    | nforced Concrete        | Abutment              |   |            |            |            |              |      |
|        | ment<br>mber            | Element Name          | Total<br>Qty  | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |      |
| 215    | Reinfor                 | ced Concrete Abutment | 52  | 45         | 0          | 7          | 0 F          | eet  |
| Elemer | Dofoct Typo             | Defect Desc           | ription   |            | cs         | CS Qty     | Maint<br>Qty |      |
| 215    | Cracking (RC and Other) |                       | 3 SF. OF HAIRLINE MAP CRACKING UNDER EAST<br>OVERHANG WITH 4FT X 1/16" HORIZONTAL CRACK |            | 3          | 7          | 7            | Feet |
|        | <b>General Comments</b> |                       |   |            |            |            |              |      |

PILES 1 AND 2

| Ber   | Bent 3                       |   |  |            |            |            |              |  |  |  |  |
|-------|------------------------------|---|--|------------|------------|------------|--------------|--|--|--|--|
| Rei   | Reinforced Concrete Pier Cap |   |  |            |            |            |              |  |  |  |  |
|       | ment<br>mber                 | Element Name  | Total<br>Qty   | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |  |  |  |  |
| 234   | Reinfor                      | ced Concrete Pier Cap                                   | 38   | 31         | 7          | 0          | 0 Feet       |  |  |  |  |
| Eleme | Dofoct Typo                  | Defect Desc   | ription  |            | cs         | CS Qty     | Maint<br>Qty |  |  |  |  |
| 234   | Cracking (RC and Other)      | 12" VERTICAL HAIRLINE CRACK<br>UNDER BEAM 1             | IN NORTH FACE O  | F CAP      | 2          | 1          | Feet         |  |  |  |  |
| 234   | Cracking (RC and Other)      | 36" VERTICAL HAIRLINE CRACK<br>BEAM 3                   | 36" VERTICAL HAIRLINE CRACK IN SOUTH FACE UNDER<br>BEAM 3                    |            | 2          | 1          | 3 Feet       |  |  |  |  |
| 234   | Cracking (RC and Other)      | 4-24" LONG TRANSVERSE HAIRI<br>CAP BETWEEN PILE 2 AND 3 | 4-24" LONG TRANSVERSE HAIRLINE CRACKS BOTTOM OF 2 4 CAP BETWEEN PILE 2 AND 3 |            |            |            | Feet         |  |  |  |  |
| 234   | Delamination/Spall           | 1 SF DELAMINATION ON BOTTO                              | M OF CAP BETWEE  | ΞN         | 2          | 1          | 1 Feet       |  |  |  |  |

**General Comments** 

| App            | roach 1                 |                                    |              |            |            |            |              |             |
|----------------|-------------------------|------------------------------------|--------------|------------|------------|------------|--------------|-------------|
| Rei            | nforced Concrete        | Approach Slab                      |              |            |            |            |              |             |
|                | ment<br>nber            | Element Name                       | Total<br>Qty | CS1<br>Qty | CS2<br>Qty | CS3<br>Qty | CS4<br>Qty   |             |
| 321            | Reinfo                  | Reinforced Concrete Approach Slabs |              | 420        | 0          | 15         | 0            | Square Feet |
| lemer<br>lumbe | Dofoot Typo             | Defect Descrip                     | tion         |            | cs         | CS Qty     | Maint<br>Qty |             |
| 321            | Cracking (RC and Other) | 15 SF. OF HAIRLINE MAP CRACKING    | G            |            | 3          | 15         | 15           | Square Feet |

| roach 2                 |  |  |  |  |   |   |  |
|-------------------------|--|--|--|--|---|---|--|
| nforced Concrete        | Approach Slab                                      |  |  |  |   |   |  |
| ment<br>nber            | Element Name                                       | Total<br>Qty   | CS1<br>Qty   | CS2<br>Qty   | CS3<br>Qty  | CS4<br>Qty  |  |
| Reinfor                 | Reinforced Concrete Approach Slabs                 |  | 425  | 0  | 10  | 0 Square Feet   |  |
| t<br>r Defect Type      | Defect Description                                 | า  |  | cs   | CS Qty  | Maint<br>Qty  |  |
| Cracking (RC and Other) | 10 SF. OF HAIRLINE MAP CRACKING                    |  |  | 3  | 10  | 10 Square Feet  |  |
| r                       | ment mber Reinfor  tt Defect Type Cracking (RC and | ment mber  Reinforced Concrete Approach Slab  Reinforced Concrete Approach Slabs  To Defect Type  Cracking (RC and 10 SF. OF HAIRLINE MAP CRACKING | ment Element Name Qty Reinforced Concrete Approach Slabs  At Defect Type Defect Description Cracking (RC and 10 SF. OF HAIRLINE MAP CRACKING | ment Element Name Qty Qty Reinforced Concrete Approach Slabs 435 425  tr Defect Type Defect Description Cracking (RC and 10 SF. OF HAIRLINE MAP CRACKING | ment Element Name Qty Qty Qty Reinforced Concrete Approach Slabs 435 425 0  Total CS1 CS2 Qty Qty Qty Reinforced Concrete Approach Slabs 435 425 0  Total CS1 CS2 Qty | ment Element Name Qty Qty Qty Qty Qty Qty Qty Qty Cracking (RC and 10 SF. OF HAIRLINE MAP CRACKING 3 10 |  |

### **Elements Verfied**

| Location | Name              | Component                | Element Name                       | Amount |
|----------|-------------------|--------------------------|------------------------------------|--------|
| Span 1   | Deck              | Reinforced Concrete Deck | Reinforced Concrete Deck           | 2016   |
| Span 1   | Beam 1            | Plate Girder             | Steel Open Girder/Beam             | 63     |
| Span 1   | Beam 2            | Plate Girder             | Steel Open Girder/Beam             | 63     |
| Span 1   | Beam 3            | Plate Girder             | Steel Open Girder/Beam             | 63     |
| Span 1   | Beam 4            | Plate Girder             | Steel Open Girder/Beam             | 63     |
| Span 1   | Left Bridge Rail  | Concrete Railing         | Reinforced Concrete Bridge Railing | 65     |
| Span 1   | Right Bridge Rail | Concrete Railing         | Reinforced Concrete Bridge Railing | 65     |
| Span 1   | Expansion Joint   | Compression Seal         | Compression Joint Seal             | 45     |
| Span 1   | Near Bearing      | Other Bearing            | Other Bearings                     | 1      |
| Span 1   | Far Bearing       | Other Bearing            | Other Bearings                     | 1      |
| Span 1   | Near Bearing      | Other Bearing            | Other Bearings                     | 1      |
| Span 1   | Far Bearing       | Other Bearing            | Other Bearings                     | 1      |
| Span 1   | Near Bearing      | Other Bearing            | Other Bearings                     | 1      |
| Span 1   | Far Bearing       | Other Bearing            | Other Bearings                     | 1      |
| Span 1   | Near Bearing      | Other Bearing            | Other Bearings                     | 1      |
| Span 1   | Far Bearing       | Other Bearing            | Other Bearings                     | 1      |
| Span 2   | Deck              | Reinforced Concrete Deck | Reinforced Concrete Deck           | 2388   |
| Span 2   | Beam 1            | Plate Girder             | Steel Open Girder/Beam             | 76     |
| Span 2   | Beam 2            | Plate Girder             | Steel Open Girder/Beam             | 76     |
| Span 2   | Beam 3            | Plate Girder             | Steel Open Girder/Beam             | 76     |
| Span 2   | Beam 4            | Plate Girder             | Steel Open Girder/Beam             | 76     |
| Span 2   | Left Bridge Rail  | Concrete Railing         | Reinforced Concrete Bridge Railing | 76     |
| Span 2   | Right Bridge Rail | Concrete Railing         | Reinforced Concrete Bridge Railing | 76     |
| Span 2   | Expansion Joint   | Compression Seal         | Compression Joint Seal             | 45     |
| Span 2   | Near Bearing      | Other Bearing            | Other Bearings                     | 1      |
| Span 2   | Far Bearing       | Other Bearing            | Other Bearings                     | 1      |
| Span 2   | Near Bearing      | Other Bearing            | Other Bearings                     | 1      |
| Span 2   | Far Bearing       | Other Bearing            | Other Bearings                     | 1      |
| Span 2   | Near Bearing      | Other Bearing            | Other Bearings                     | 1      |
| Span 2   | Far Bearing       | Other Bearing            | Other Bearings                     | 1      |
| Span 2   | Near Bearing      | Other Bearing            | Other Bearings                     | 1      |
| Span 2   | Far Bearing       | Other Bearing            | Other Bearings                     | 1      |
| Span 3   | Deck              | Reinforced Concrete Deck | Reinforced Concrete Deck           | 2388   |
| Span 3   | Beam 1            | Plate Girder             | Steel Open Girder/Beam             | 76     |
| Span 3   | Beam 2            | Plate Girder             | Steel Open Girder/Beam             | 76     |
| Span 3   | Beam 3            | Plate Girder             | Steel Open Girder/Beam             | 76     |
| Span 3   | Beam 4            | Plate Girder             | Steel Open Girder/Beam             | 76     |
| Span 3   | Left Bridge Rail  | Concrete Railing         | Reinforced Concrete Bridge Railing | 76     |
| Span 3   | Right Bridge Rail | Concrete Railing         | Reinforced Concrete Bridge Railing | 76     |
| Span 3   | Expansion Joint   | Compression Seal         | Compression Joint Seal             | 45     |
| Span 3   | Near Bearing      | Other Bearing            | Other Bearings                     | 1      |
| Span 3   | Far Bearing       | Other Bearing            | Other Bearings                     | 1      |
| Span 3   | Near Bearing      | Other Bearing            | Other Bearings                     | 1      |
| Span 3   | Far Bearing       | Other Bearing            | Other Bearings                     | 1      |
| Span 3   | Near Bearing      | Other Bearing            | Other Bearings                     | 1      |

### **Elements Verfied**

| Location   | Name              | Component                    | Element Name                       | Amount |
|------------|-------------------|------------------------------|------------------------------------|--------|
| Span 3     | Far Bearing       | Other Bearing                | Other Bearings                     | 1      |
| Span 3     | Near Bearing      | Other Bearing                | Other Bearings                     | 1      |
| Span 3     | Far Bearing       | Other Bearing                | Other Bearings                     | 1      |
| Span 4     | Deck              | Reinforced Concrete Deck     | Reinforced Concrete Deck           | 2016   |
| Span 4     | Beam 1            | Plate Girder                 | Steel Open Girder/Beam             | 63     |
| Span 4     | Beam 2            | Plate Girder                 | Steel Open Girder/Beam             | 63     |
| Span 4     | Beam 3            | Plate Girder                 | Steel Open Girder/Beam             | 63     |
| Span 4     | Beam 4            | Plate Girder                 | Steel Open Girder/Beam             | 63     |
| Span 4     | Left Bridge Rail  | Concrete Railing             | Reinforced Concrete Bridge Railing | 65     |
| Span 4     | Right Bridge Rail | Concrete Railing             | Reinforced Concrete Bridge Railing | 65     |
| Span 4     | Expansion Joint   | Compression Seal             | Compression Joint Seal             | 45     |
| Span 4     | Expansion Joint   | Compression Seal             | Compression Joint Seal             | 45     |
| Span 4     | Near Bearing      | Other Bearing                | Other Bearings                     | 1      |
| Span 4     | Far Bearing       | Other Bearing                | Other Bearings                     | 1      |
| Span 4     | Near Bearing      | Other Bearing                | Other Bearings                     | 1      |
| Span 4     | Far Bearing       | Other Bearing                | Other Bearings                     | 1      |
| Span 4     | Near Bearing      | Other Bearing                | Other Bearings                     | 1      |
| Span 4     | Far Bearing       | Other Bearing                | Other Bearings                     | 1      |
| Span 4     | Near Bearing      | Other Bearing                | Other Bearings                     | 1      |
| Span 4     | Far Bearing       | Other Bearing                | Other Bearings                     | 1      |
| Bent 1     | Cap 1             | Reinforced Concrete Pier Cap | Reinforced Concrete Pier Cap       | 38     |
| Bent 1     | Pile 1            | Reinforced Concrete Column   | Reinforced Concrete Column         | 1      |
| Bent 1     | Pile 2            | Reinforced Concrete Column   | Reinforced Concrete Column         | 1      |
| Bent 1     | Pile 3            | Reinforced Concrete Column   | Reinforced Concrete Column         | 1      |
| End Bent 1 | Cap 1             | Reinforced Concrete Pier Cap | Reinforced Concrete Pier Cap       | 52     |
| End Bent 1 | Abutment          | Reinforced Concrete Abutment | Reinforced Concrete Abutment       | 52     |
| Bent 2     | Cap 1             | Reinforced Concrete Pier Cap | Reinforced Concrete Pier Cap       | 38     |
| Bent 2     | Pile 1            | Reinforced Concrete Column   | Reinforced Concrete Column         | 1      |
| Bent 2     | Pile 2            | Reinforced Concrete Column   | Reinforced Concrete Column         | 1      |
| Bent 2     | Pile 3            | Reinforced Concrete Column   | Reinforced Concrete Column         | 1      |
| End Bent 2 | Cap 1             | Reinforced Concrete Pier Cap | Reinforced Concrete Pier Cap       | 52     |
| End Bent 2 | Abutment          | Reinforced Concrete Abutment | Reinforced Concrete Abutment       | 52     |
| Bent 3     | Cap 1             | Reinforced Concrete Pier Cap | Reinforced Concrete Pier Cap       | 38     |
| Bent 3     | Pile 1            | Reinforced Concrete Column   | Reinforced Concrete Column 1       |        |
| Bent 3     | Pile 2            | Reinforced Concrete Column   | Reinforced Concrete Column 1       |        |
| Bent 3     | Pile 3            | Reinforced Concrete Column   | Reinforced Concrete Column         | 1      |

# **General Inspection Notes**

# **National Bridge and NC Inspection Items**

Structure Number: 770100 Inspection Date: 05/17/2019

#### **National Bridge Inventory Items**

| Item                                    | Grade Scale | Grade |
|---|-------------|-------|
| Item 58: Deck                           | 0 - 9 , N   | 6     |
| Item 59: Superstructure                 | 0 - 9 , N   | 5     |
| Item 60: Substructure                   | 0 - 9 , N   | 5     |
| Item 61: Channel and Channel Protection | 0 - 9 , N   | N     |
| Item 62: Culvert                        | 0 - 9 , N   | N     |
| Item 71: Waterway Adequacy              | 0 - 9 , N   | N     |
| Item 72: Approach Roadway Alignment     | 0 - 9 , N   | 8     |

Note: If NBI Inspection Item is not present, code NBI item with "N"

#### **NC SMU Inspection Items**

| Item                      | Grade Scale   | Grade | Maint. Qty. | Maint. Code |
|---------------------------|---------------|-------|-------------|-------------|
| Deck Debris               | G, F, P, or C | G     | 0           | 3376        |
| Drainage System           | G, F, P, or C | G     | 0           | 3332        |
| Utilities                 | G, F, P, or C |       |             |             |
| Slope Protection          | G, F, P, or C | G     | 0           | 3352        |
| Scour                     | G, F, P, or C |       |             |             |
| Wingwall                  | G, F, P, or C | G     | 0           | 3350        |
| Field Scour Evaluation    |               |       |             |             |
| Drift                     | G, F, P, or C |       |             |             |
| Fender System             | G, F, P, or C |       | 0           | 3364        |
| Movable Span Machinery    | G, F, P, or C |       |             |             |
| Response to Live Load     | G, F, P, or C | G     |             |             |
| Estimated Remaining Life  | 0 - 100 Years |       |             |             |
| Superstructure Paint Code |               | ı     |             |             |

Note: If NC SMU Insepction Item is not present, leave NC SMU item blank

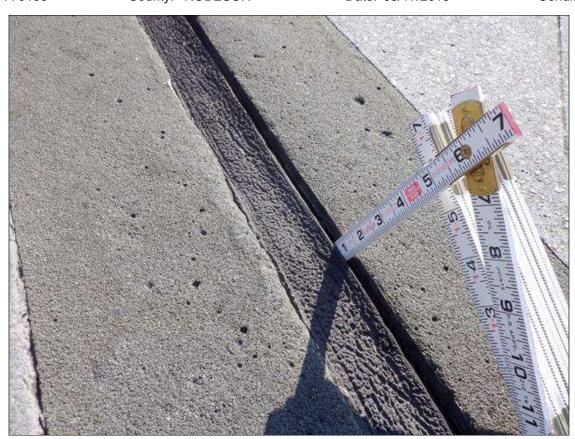
#### **Inspection Information**

| Item                                   | Grade Scale | Grade |
|--|-------------|-------|
| Sign Noticed Issued                    | YES/NO      | N     |
| Priority Maintenance Request Submitted | YES/NO      | Υ     |
| Inspection Time                        | Hours       | 10    |
| Traffic Control Time                   | Hours       | 0     |
| Snooper Time                           | Hours       | 0     |
| Ladder Used                            | YES/NO      | Υ     |
| Bucket Truck Used                      | YES/NO      | N     |
| Boat Used                              | YES/NO      | N     |
| Other Equipment Used                   | YES/NO      | N     |

## National Bridge and NC SMU Inspection Item Details

Structure Number: 770100 Inspection Date: 05/17/2019
Item Grade Maint Code Qty.

**Details** 



Expansion Joint: ADHESION FAILURE AT RANDOM LOCATIONS THROUGHOUT



Span 4 Left Bridge Rail: 1 - SPALL WITH EXPOSED REBAR UP TO 6" DIAMETER X 1/2" DEEP IN RAIL



Span 4 Left Bridge Rail: 8 - 18" TRANSVERSE CRACKS UP TO 1/16" WIDE IN CURB



Span 3 Right Bridge Rail: 5 - SPALLS WITH EXPOSED REBAR UP TO 6" DIAMETER X 1/2" DEEP IN RAIL



End Bent 1 Abutment/Backwall: 3 - 24" VERTICAL HAIRLINE CRACKS IN BAY 1



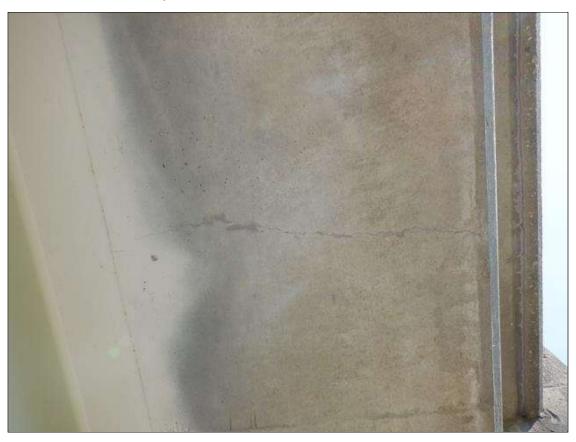
End Bent 1 Abutment/Backwall: 12" X 6" DELAMINATION IN BAY 1



End Bent 1 Cap 1: 3 - 12" VERTICAL CRACKS UP TO 1/16" WIDE UNDER BAY 1



Span 1 Deck: 300 SF. OF TRANSVERSE HAIRLINE CRACKS IN BOTTOM OF DECK



Span 1 Deck: 14 - 24" TRANSVERSE HAIRLINE CRACKS IN BOTTOM OF DECK EAST OVERHANG



Span 1 Deck: 25 SF. OF PATCHED AREAS IN BOTTOM OF DECK



Span 1 Deck: 2 - 12" DIAMETER DELAMINATIONS IN BOTTOM OF DECK 20 FT. FROM BENT 1 BAY 3



Span 1 Beam 1 Far Bearing: 2" LONG CRACK IN WELD OF EAST STIFFENER TO VERTICAL PLATE PAR



Span 1 Beam 2 Far Bearing: 2" LONG CRACK IN WELD OF EAST STIFFENER TO VERTICAL PLATE (BOTH PLATES) PAR



Span 1 Beam 3 Far Bearing: 1" LONG CRACK IN WELD OF WEST STIFFENER TO VERTICAL PLATE (BOTH PLATES) PAR



Span 1 Beam 4 Far Bearing: 1" LONG CRACK IN WELD OF EAST STIFFENER TO VERTICAL PLATE (BOTH PLATES) PAR



END DIAPHRAGM EAST OVERHANG AT BENT 1: 12" X 4" DELAMINATION



Bent 1 Cap 1: 24" DIAMETER DELAMINATION IN BOTTOM OF CAP BETWEEN COLUMNS 2 AND 3



Bent 1 Pile 1: 96" X 6" DELAMINATION IN SOUTH FACE



Span 2 Beam 1 Far Bearing: 1" LONG CRACK IN WELD OF EAST STIFFENER TO VERTICAL PLATE (BOTH PLATES) PAR



Bent 2 Cap 1: 18" X 6" DELAMINATION IN TOP OF CAP UNDER BEAM 1 SPAN 2 SIDE



END DIAPHRAGM BAY 2 AT BENT 2: 2 - 6" DIAMETER DELAMINATIONS



Span 2 Beam 3 Far Bearing: 1" LONG CRACK IN WELD OF WEST STIFFENER TO VERTICAL PLATE (BOTH SIDES) PAR



END DIAPHRAGM EAST OVERHANG AT BENT 2: 14" X 3" X 2" DEEP SPALL WITH EXPOSED REBAR



Span 2 Deck: 12" X 6" SPALL IN BOTTOM OF DECK EAST OVERHANG NEAR MIDSPAN OVER TRAFFIC PAR



Span 2 Deck: 12" DIAMETER SPALL IN BOTTOM OF DECK BAY 1 OVER TRAFFIC PAR



Span 2 Deck: 12" DIAMETER SPALL IN BOTTOM OF DECK EAST OVERHANG OVER TRAFFIC PAR



Span 3 Beam 1 Far Bearing: 1" LONG CRACK IN WELD OF EAST STIFFENER TO VERTICAL PLATE (BOTH SIDES) PAR



Span 4 Beam 2 Near Bearing: 2" LONG CRACK IN WELD OF EAST STIFFENER TO VERTICAL PLATE PAR



Span 4 Beam 3 Near Bearing: 1" LONG CRACK IN WELD OF WEST STIFFENER TO VERTICAL PLATE PAR



END DIAPHRAGM BAY 2 AT BENT 3: 84" X 10" DELAMINATION



Span 3 Deck: 10 FT OF DELAMINATION IN BOTTOM OF DECK AT WEST OVERHANG NEAR BENT 3



Span 3 Deck: 48" X 24" X 2"SPALL WITH EXPOSED REBAR IN BOTTOM OF DECK EAST OVERHANG OVER TRAFFIC PAR



Span 3 Deck: 2-2FTX2FT DELAMINATION IN BOTTOM OF DECK AT EAST OVERHANG NEAR BENT 2 OVER SHOULDER



End Bent 2 Abutment/Backwall : 3 SF. OF HAIRLINE MAP CRACKING UNDER EAST OVERHANG WITH 4FT X 1/16" HORIZONTAL CRACK



End Bent 2 Cap 1: 36" HORIZONTAL CRACK UP TO 1/8" WIDE UNDER BEAM 4



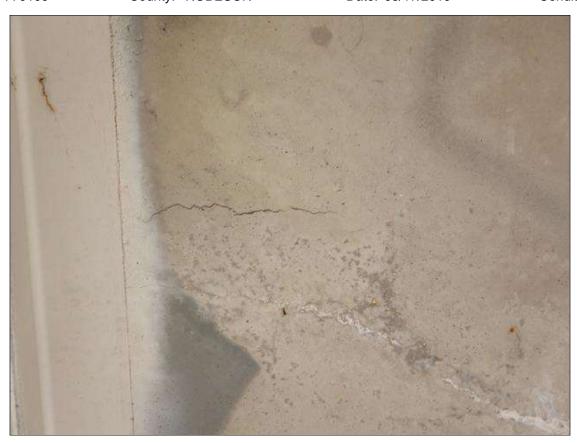
Span 4 Deck: 2FT LONG X 8' WIDE X 1/2" DEEP SPALL LOCATED IN BAY 3 BOTTOM OF DECK



Span 3 Deck: 2 SF DELAMINATION LOCATED 12 FT FROM BENT 2 UNDER EAST OVERHANG OVER LEFT SHOULDER OF SB TRAVEL LANE



Span 3 Deck: 1 SF DELAMINATION IN BOTTOM OF DECK BAY 3 30 FT FROM BENT 2



Span 3 Deck: 2 SF DELAMINATION LOCATED IN BOTTOM OF DECK BAY 1 OVER CENTERLINE OF SB TRAVEL LANES



Span 3 Deck: 36" LONG X 12" WIDE DELAMINATION LOCATED UNDER WEST OVERHANG AND OVER THE LEFT SB TRAVEL LANE



COVER SHEET PHOTO LOOKING NORTH



SOUTH APPROACH



LEFT GUARD RAIL RIGHT RAIL SIMILAR



LOOKING WEST



LOOKING EAST



NORTH APPROACH



LOOKING SOUTH



NW GUARD RAIL END TERMINAL



NW GUARD RAIL MIN POST SPACING



NW GUARD RAIL POST SPACING AT BRIDGE ATTACHMENT



NW GUARD RAIL BRIDGE ATTACHMENT



ABUTMENT 1



ABUTMENT 1 BEAM 3 BEARING



BENT 1



SPAN 1 SUPERSTRUCTURE



BENT 1 BEAM 1 BEARING



WEST ELEVATION



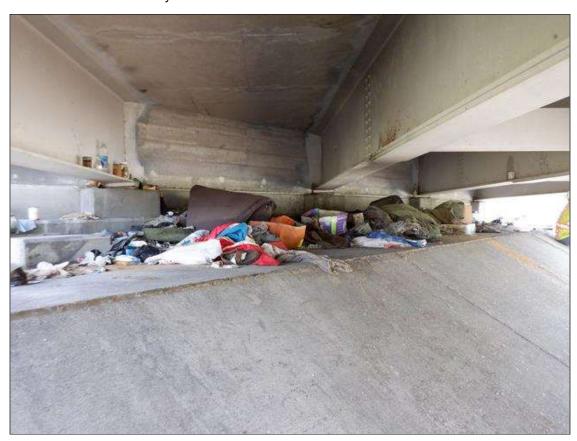
SPAN 2 THRU LANES



EAST ELEVATION



SPAN 3 THRU LANES



ABUTMENT 2

#### **Structure Data Worksheet**

#### **Span Profile**



В В - D A: SPAN LENGTH
B: BEARING TO BEARING
C: DISTANCE FROM NEAR BEARING
D: DISTANCE TO FAR BEARING - CRUTCH / HELPER BENTS-

| Span<br>Number | Span<br>Length | Bearing to<br>Bearing | Crutch/ Helper<br>Bent | Distance to<br>Near Bearing | Distance to<br>Far Bearing |
|----------------|----------------|-----------------------|------------------------|-----------------------------|----------------------------|
| 1              | 64.167         | 62.250                |                        |                             |                            |
| 2              | 76.000         | 74.667                |                        |                             |                            |
| 3              | 76.000         | 74.667                |                        |                             |                            |
| 4              | 64.167         | 62.250                |                        |                             |                            |

#### NATIONAL BRIDGE INVENTORY------ STRUCTURE INVENTORY AND APPRAISAL Run Date: 09/18/2019

| IDENTIFICATION —  |   |  |                   |
|---|---|--|-------------------|
| (1) STATE NAME -NORTH CAROLINA BRIDGE   | 770100                                      | SUFFICIENCY RATING =   | 70                |
| (8) STRUCTURE NUMBER(FEDERAL) 000   | 0000001550100                               | STATUS = Not Deficient   |                   |
| (5) INVENTORY ROUTE (ON/UNDER) - ON   | 21003010                                    |  |                   |
| (2) STATE HIGHWAY DEPARTMENT DISTRICT   | 1   |  | CODE              |
| (3) COUNTY CODE 155 (4) PLACE CODE  | 0   | (112)NBIS BRIDGE SYSTEM -  | YES               |
| (6) FEATURE INTERSECTED - 195   |   | (104)HIGHWAY SYSTEM Is not on NHS  | 0                 |
| (7) FACILITY CARRIED US301  |   | (26) FUNCTIONAL CLASS - Major Collector  | 07                |
| (9) LOCATION 0.5 MI.S.JCT.SR1727  |   | (100)STRAHNET HIGHWAY - Not a STRAHNET Route   | 0                 |
| (11)MILEPOINT   | 0   | (101)PARALLEL STRUCTURE - No Parallel Structure  | N                 |
| (16)LAT 34° 50' 0.83" (17)LONG 78° 58' 42   | 2.65"                                       | (102)DIRECTION OF TRAFFIC - 2-way Traffic  | 2                 |
| (98)BORDER BRIDGE STATE CODE PCT SHA  | ARE   | (103)TEMPORARY STRUCTURE -   |                   |
| (99)BORDER BRIDGE STRUCTURE NO  |   | (110)DESIGNATED NATIONAL NETWORK - Not on the National Network   | C                 |
|   |   | (20) TOLL On Free Road   | 3                 |
| STRUCTURE TYPE AND MATERIAL —   |   | (31) MAINTAIN - State Highway Agency   | 01                |
| (43) STRUCTURE TYPE MAIN: Steel   |   | (22) OWNER - State Highway Agency  | 01                |
| TYPE - Stringer Mutlibeam or Girder   | CODE 302                                    | (37) HISTORICAL SIGNIFICANCE - Not Eligible  | 5                 |
| (44) STRUCTURE TYPE APPR :  | 0022  | (6.7)  |                   |
| TYPE -  | CODE 000                                    | CONDITION  | CODE              |
| (45) NUMBER OF SPANS IN MAIN UNIT   | 4   | (58) DECK  | 6                 |
| (46) NUMBER OF APPROACH SPANS   | •   | (59) SUPERSTRUCTURE  | 5                 |
| (107)DECK STRUCTURE TYPE - 1  | CODE  | (60) SUBSTRUCTURE  | 5                 |
| (108)WEARING SURFACE / PROTECTIVE SYSTEM:   | CODE  | (61) CHANNEL & CHANNEL PROTECTION  | N                 |
| (A) TYPE OF WEARING SURFACE - Latex Concrete  | CODE 3                                      | (62) CULVERTS  | N                 |
| (B) TYPE OF MEMBRANE - None   | CODE 0                                      |  |                   |
| (C) TYPE OF DECK PROTECTION - Epoxy Coating Reinforcing   | CODE 1                                      | LOAD RATING AND POSTING  |                   |
| (C) TTPE OF DECK PROTECTION - Epoxy Coaling Reinfording   | CODE  | (31) DESIGN LOAD HS 20 + MOD   | 6                 |
| ACE AND SERVICE   |   | (63) OPERATING RATING METHOD - Load Factor   | 1                 |
| AGE AND SERVICE (27) YEAR BUILT   | 1959  | (64) OPERATING RATING - HS-47  | 84                |
| • •   | 1959  | (65) INVENTORY RATING METHOD - Load Factor   | 1                 |
| (106)YEAR RECONSTRUCTED   |   | (66) INVENTORY RATING - HS-28  | 50                |
| (42) TYPE OF SERVICE : ON - Overpass - Interchange  | 0005 04                                     | (70) BRIDGE POSTING - No Posting Required  | 5                 |
| UNDER - Highway   | CODE 61                                     | (41) STRUCTURE OPEN, POSTED ,OR CLOSED   | Α                 |
| (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE  | 2000  | DESCRIPTION - Open, No Restriction   | 0005              |
| (29) AVERAGE DAILY TRAFFIC  | 3900  | -  | CODE              |
| (30) YEAR OF ADT 2015 (109) TRUCK ADT PCT   | 7%  | (67) STRUCTURAL EVALUATION   | 5                 |
| (19) BYPASS OR DETOUR LENGTH  | 0 MI  | (68) DECK GEOMETRY   | 4                 |
| GEOMETRIC DATA  |   | (69) UNDERCLEARANCES, VERTI & HORIZ  | 4                 |
| (48) LENGTH OF MAXIMUM SPAN   | 75 FT                                       | (71) WATERWAY ADEQUACY   | N                 |
| (49) STRUCTURE LENGTH   | 280 FT                                      | (72) APPROACH ROADWAY ALIGNMENT  | 8                 |
| (50)CURB OR SIDEWALK: LEFT 1.7085 FT RIGHT  | 1.7085 FT                                   | (36) TRAFFIC SAFETY FEATURES   | 0111              |
| (51) BRIDGE ROADWAY WIDTH CURB TO CURB  | 28 FT                                       | (113)SCOUR CRITICAL BRIDGES  | N                 |
| (52) DECK WIDTH OUT TO OUT  | 33.417 FT                                   | PROPOSED IMPROVEMENTS  |                   |
| (32) APPROACH ROADWAY WIDTH (W/SHOULDERS)   | 29 FT                                       | (75) TYPE OF WORK - CODE   |                   |
| (33) BRIDGE MEDIAN - No Median  | CODE 0                                      | (76) LENGTH OF STRUCTURE IMPROVEMENT   |                   |
| (34) SKEW 45° (35) STRUCTURE FLARED   | 0   | (94) BRIDGE IMPROVEMENT COST   |                   |
| (10) INVENTORY ROUTE MIN VERT CLEAR   | 999.9 FT                                    | (95) ROADWAY IMPROVEMENT COST  |                   |
| (47) INVENTORY ROUTE TOTAL HORIZ CLEAR  | 28 FT                                       | (96) TOTAL PROJECT COST  |                   |
| (53) MIN VERT CLEAR OVER BRIDGE RDWY  | 999.9 FT                                    | (97) YEAR OF IMPROVEMENT COST ESTIMATE   |                   |
|   | 333.311                                     |  |                   |
| (54) MIN VERT UNDERCLEAR REF Highway  | 16.3 FT                                     | (114)FUTURE ADT 7800 (115) YEAR FUTURE ADT   | 2025              |
|   |   |  | 2025              |
| (54) MIN VERT UNDERCLEAR REF Highway  | 16.3 FT                                     |  |                   |
| (54) MIN VERT UNDERCLEAR REF Highway (55) MIN LAT UNDERCLEAR RT REF Highway (56) MIN LAT UNDERCLEAR LT REF -  | 16.3 FT<br>10 FT                            | (90) INSPECTION DATE   |                   |
| (54) MIN VERT UNDERCLEAR REF Highway (55) MIN LAT UNDERCLEAR RT REF Highway (56) MIN LAT UNDERCLEAR LT REF -  NAVIGATION DATA   | 16.3 FT<br>10 FT<br>16 FT                   | (90) INSPECTIONS  (92) CRITICAL FEATURE INSPECTION: (93) CFI DATE  |                   |
| (54) MIN VERT UNDERCLEAR REF Highway (55) MIN LAT UNDERCLEAR RT REF Highway (56) MIN LAT UNDERCLEAR LT REF -  NAVIGATION DATA  (38) NAVIGATION CONTROL - Not Applicable                         | 16.3 FT<br>10 FT<br>16 FT<br>CODE N         | (90) INSPECTIONS  (92) CRITICAL FEATURE INSPECTION: (93) CFI DATE  A) FRACTURE CRIT DETAIL - NO A)                             |                   |
| (54) MIN VERT UNDERCLEAR REF Highway (55) MIN LAT UNDERCLEAR RT REF Highway (56) MIN LAT UNDERCLEAR LT REF -  NAVIGATION DATA  (38) NAVIGATION CONTROL - Not Applicable (111) PIER PROTECTION - | 16.3 FT<br>10 FT<br>16 FT<br>CODE N<br>CODE | (90) INSPECTIONS  (92) CRITICAL FEATURE INSPECTION: (93) CFI DATE  A) FRACTURE CRIT DETAIL - NO A)  B) UNDERWATER INSP - NO B) | 2025<br>5/17/2019 |
| (54) MIN VERT UNDERCLEAR REF Highway (55) MIN LAT UNDERCLEAR RT REF Highway (56) MIN LAT UNDERCLEAR LT REF -  NAVIGATION DATA  (38) NAVIGATION CONTROL - Not Applicable                         | 16.3 FT<br>10 FT<br>16 FT<br>CODE N         | (90) INSPECTIONS  (92) CRITICAL FEATURE INSPECTION: (93) CFI DATE  A) FRACTURE CRIT DETAIL - NO A)                             |                   |

| Structure No: | 770100 | County: | ROBESON | Run Date: |
|---------------|--------|---------|---------|-----------|
|               |        |         |         |           |

|             |                     |                 | rtical                          |           |                      |                     |      | on                       |                |                       | Fraffic               | nce                      | 3                 | See Not                            | e 1                             |                                |                                   |     |                      | ute                     |
|-------------|---------------------|-----------------|---------------------------------|-----------|----------------------|---------------------|------|--------------------------|----------------|-----------------------|-----------------------|--------------------------|-------------------|------------------------------------|---------------------------------|--------------------------------|-----------------------------------|-----|----------------------|-------------------------|
| Span Number | Feature Intersected | Inventory Route | Minimum Maximum Ve<br>Clearance | Milepoint | Base Highway Network | LRS Inventory Route | Toll | Functional Classificatio | Numer of Lanes | Average Daily Traffic | Year of Average Daily | Total Horizontal Clearan | Reference Feature | Minimum Vertical<br>Underclearance | Right Lateral<br>Underclearance | Left Lateral<br>Underclearance | Underclearance<br>Appraisal Grade |     | Direction of Traffic | Highway System of Route |
|             | 6                   | 5               | 10                              | 11        | 12                   | 13                  | 20   | 26                       | 28             | 29                    | 30                    | 47                       | 54A               | 54                                 | 55                              | 56                             | 69                                | 100 | 102                  | 104                     |
| 2           | 195N                | 11000950        | 16.2                            | 32.90     | 1                    | 10095               |      | 1                        | 2              | 22500                 | 2015                  | 47.21                    | Н                 | 16                                 | 9.92                            | 15.5                           | 9                                 | 1   | 1                    | 1                       |
| 3           | I95S                | 11000950        | 16.4                            | 32.90     | 1                    | 10095               |      | 1                        | 2              | 22500                 | 2015                  | 48                       | Н                 | 16.3                               | 10                              | 16                             | 9                                 | 1   | 1                    | 1                       |

#### **BRIDGE MANAGEMENT UNIT**

DATA ON EXISTING STRUCTURE Run Date: 09/18/2019

CITY:

COUNTY: DIVISION: DISTRICT: STRUCTURE NUMBER: LENGTH:

ROBESON 6 1 770100 280 FEET

ROUTE CARRIED : FEATURE INTERSECTED :

US301 195

LOCATED: BRIDGE NAME: 0.5 MI.S.JCT.SR1727

FUNC. CLASS: SYST.ON: SYST.UNDER: ADT & YR: RAIL TYPE:

07 FA NFA 3900 2015 LT 111 RT 111

BUILT: BY: PROJ: FED.AID PROJ: DESIGN LOAD:

1959 SHC 8.13962 HS 20 + MOD

REHAB: BY: PROJ: ALIGNMENT: SKEW: LANES:

DOH 41927.3.1 TAN 45 ON 2 UNDER 4

NAVIGATION: HT. CRN. TO BED: WATER DEPTH:

VC 0 FT HC 0 FT 0 FT 0 FT

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/PPC PILES; BTS:RCP&B/PPC PILE FTGS.

SPANS: 1@64'-2"; 2@76'; 1@64'-2"

BEAMS OR GIRDERS: SPNS1-4:4LNS36 I-BEAMS@8'CTS.

FLOOR: ENCROACHMENT: DECK (OUT TO OUT):

7.25 RC/1.25" 33.417 FT

LATEX MODIFIED CONCRETE OVERLAY

CLEAR ROADWAY: BETWEEN RAILS: SIDEWALK OR CURB:

28 FT 31.417 FT LT 1.7085 RT 1.7085

FT FT

VERT.CL.OVER:

999.9 FT

INV.RTG.: OPE.RTG.: CONTR.MEMBER: POSTED:

HS-28 HS-47 I Bm A SV TTST DATE

SYSTEM: GREEN LINE ROUTE:

Primary U.S. Route Y

#### UNDER ROUTES AND CLEARANCES

|      |                   | Vertical C | learances | Horizontal Clearances |       |        |  |
|------|-------------------|------------|-----------|-----------------------|-------|--------|--|
| Span | Route Description | MMVC       | MVC       | Total                 | Left  | Right  |  |
| 2    | 195N              | 16.20      | 16        | 47.2090               | 15.50 | 9.9170 |  |
| 3    | I95S              | 16.40      | 16.30     | 48                    | 16    | 10     |  |

Note: All measurements are in feet.

REMARKS:

Bridge: 770100 County ROBESON Date: 05/17/2019

#### These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

| MMS<br>Code | Description of Function   | Unit | Quantity | Remarks   | Est.<br>Cost |
|-------------|---------------------------|------|----------|---|--------------|
| <b>3326</b> | Maintain<br>Concrete Deck | SF   | 1        | Span 2 Deck: 12" X 6" SPALL IN BOTTOM<br>OF DECK EAST OVERHANG NEAR<br>MIDSPAN OVER TRAFFIC PAR                 |              |
| 3326        | Maintain<br>Concrete Deck | SF   | 8        | Span 3 Deck: 48" X 24" 2" SPALL WITH<br>EXPOSED REBAR IN BOTTOM OF DECK<br>EAST OVERHANG OVER TRAFFIC PAR       |              |
| 3326        | Maintain<br>Concrete Deck | SF   | 4        | Span 3 Deck: 48" X 12" X 2"<br>SPALL /DELAMINATIONIN BOTTOM OF<br>DECK EAST OVERHANG OVER<br>TRAFFIC PAR        |              |
| 3326        | Maintain<br>Concrete Deck | SF   | 1        | Span 2 Deck: 12" DIAMETER SPALL IN<br>BOTTOM OF DECK EAST OVERHANG<br>OVER TRAFFIC PAR                          |              |
| 3334        | Bridge Bearings           | EA   | 1        | Span 2 Beam 1 Far Bearing: 1" LONG<br>CRACK IN WELD OF EAST STIFFENER<br>TO VERTICAL PLATE (BOTH PLATES)<br>PAR |              |
| 3334        | Bridge Bearings           | EA   | 1        | Span 2 Beam 3 Far Bearing: 1" LONG<br>CRACK IN WELD OF WEST STIFFENER<br>TO VERTICAL PLATE (BOTH SIDES) PAR     |              |
| 3334        | Bridge Bearings           | EA   | 1        | Span 3 Beam 1 Far Bearing: 1" LONG<br>CRACK IN WELD OF EAST STIFFENER<br>TO VERTICAL PLATE (BOTH SIDES) PAR     |              |
| 3334        | Bridge Bearings           | EA   | 1        | Span 1 Beam 1 Far Bearing: 2" LONG<br>CRACK IN WELD OF EAST STIFFENER<br>TO VERTICAL PLATE PAR                  |              |
| 3334        | Bridge Bearings           | EA   | 1        | Span 1 Beam 2 Far Bearing: 2" LONG<br>CRACK IN WELD OF EAST STIFFENER<br>TO VERTICAL PLATE (BOTH PLATES)<br>PAR |              |
| 3334        | Bridge Bearings           | EA   | 1        | Span 1 Beam 3 Far Bearing: 1" LONG<br>CRACK IN WELD OF WEST STIFFENER<br>TO VERTICAL PLATE (BOTH PLATES)<br>PAR |              |
| 3334        | Bridge Bearings           | EA   | 1        | Span 1 Beam 4 Far Bearing: 1" LONG<br>CRACK IN WELD OF EAST STIFFENER<br>TO VERTICAL PLATE (BOTH PLATES)<br>PAR |              |
| 3334        | Bridge Bearings           | EA   | 1        | Span 4 Beam 2 Near Bearing: 2" LONG<br>CRACK IN WELD OF EAST STIFFENER<br>TO VERTICAL PLATE PAR                 |              |
| 3334        | Bridge Bearings           | EA   | 1        | Span 4 Beam 3 Near Bearing: 1" LONG<br>CRACK IN WELD OF WEST STIFFENER<br>TO VERTICAL PLATE PAR                 |              |

Bridge: 770100 County ROBESON

| MMS Code      | MMS Descri       | otion                            |                                      | Quantity  |    |  |  |  |
|---------------|------------------|----------------------------------|--------------------------------------|-----------|----|--|--|--|
| 3326          | Maintain Con     | crete Deck                       |                                      | 1         | SF |  |  |  |
| Location:     |                  |                                  |                                      |           |    |  |  |  |
|               |                  | Bent/Span No.                    |                                      |           |    |  |  |  |
| Priority Leve | I                | Status                           |                                      |           |    |  |  |  |
| Priority Main | tenance          | Division Maintenance Work In Pro | Division Maintenance Work In Process |           |    |  |  |  |
| Submitted Da  | ate: Submitte    | ed By:                           | Assisted By:                         |           |    |  |  |  |
| 05/17/2019    | JOHN E           | EUBANKS                          |                                      |           |    |  |  |  |
| Details       |                  |                                  |                                      |           |    |  |  |  |
| Span 2 Deck   | :: 12" X 6" SPAI | LL IN BOTTOM OF DECK EAST O      | VERHANG NEAR MIDSPAN OVER            | TRAFFIC P | \R |  |  |  |

| MMS Code                  | MN            | //S Descrip | otion                            |                           | Quantity |    |  |  |  |
|---------------------------|---------------|-------------|----------------------------------|---------------------------|----------|----|--|--|--|
| 3326                      | Mair          | ntain Cond  | crete Deck                       |                           | 8        | SF |  |  |  |
| Location:                 |               |             |                                  |                           |          |    |  |  |  |
|                           | Bent/Span No. |             |                                  |                           |          |    |  |  |  |
| Priority Level            |               |             | Status                           | Status                    |          |    |  |  |  |
| Priority Maintenance      |               |             | Division Maintenance Work In Pro | ocess                     |          |    |  |  |  |
| Submitted Da              | ate:          | Submitte    | d By:                            | Assisted By:              |          |    |  |  |  |
| 05/17/2019                |               | JOHN E      | UBANKS                           |                           |          |    |  |  |  |
| Details                   |               |             |                                  |                           |          |    |  |  |  |
| Span 3 Deck<br>TRAFFIC PA |               | X 24" 2" S  | PALL WITH EXPOSED REBAR IN       | BOTTOM OF DECK EAST OVERH | ANG OVER |    |  |  |  |

Bridge: 770100 County ROBESON

| MMS Code             | MM     | 1S Descrip | otion                            |                                      | Quantity  |     |  |  |  |  |
|----------------------|--------|------------|----------------------------------|--------------------------------------|-----------|-----|--|--|--|--|
| 3326                 | Mair   | ntain Cond | crete Deck                       |                                      | 4         | SF  |  |  |  |  |
| Location:            |        |            |                                  |                                      |           |     |  |  |  |  |
|                      |        |            | Bent/Span No.                    |                                      |           |     |  |  |  |  |
| Priority Level       |        |            | Status                           |                                      |           |     |  |  |  |  |
| Priority Maintenance |        |            | Division Maintenance Work In Pro | Division Maintenance Work In Process |           |     |  |  |  |  |
| Submitted D          | Date:  | Submitte   | d By:                            | Assisted By:                         |           |     |  |  |  |  |
| 05/17/2019           |        | JOHN E     | UBANKS                           |                                      |           |     |  |  |  |  |
| Details              |        |            |                                  |                                      |           |     |  |  |  |  |
| Span 3 Dec<br>PAR    | k: 48" | X 12" X 2" | SPALL /DELAMINATIONIN BOTT       | OM OF DECK EAST OVERHANG C           | VER TRAFF | FIC |  |  |  |  |

| MMS Code       | MN     | //S Descrip | otion                       |                           | Quantity |    |  |  |  |  |
|----------------|--------|-------------|-----------------------------|---------------------------|----------|----|--|--|--|--|
| 3326           | Maii   | ntain Cond  | crete Deck                  |                           | 1        | SF |  |  |  |  |
| Location:      |        |             |                             |                           |          |    |  |  |  |  |
| Bent/Span No.  |        |             |                             |                           |          |    |  |  |  |  |
| Priority Level |        |             | Status                      |                           |          |    |  |  |  |  |
| Recommended    |        |             | Routine Maintenance         |                           |          |    |  |  |  |  |
| Submitted D    | ate:   | Submitte    | d By:                       | Assisted By:              |          |    |  |  |  |  |
| 05/17/2019     |        | JOHN E      | UBANKS                      |                           |          |    |  |  |  |  |
| Details        |        |             |                             |                           |          |    |  |  |  |  |
| Span 2 Deck    | k: 12" | DIAMETE     | R SPALL IN BOTTOM OF DECK E | AST OVERHANG OVER TRAFFIC | PAR      |    |  |  |  |  |
|                |        |             |                             |                           |          |    |  |  |  |  |
|                |        |             |                             |                           |          |    |  |  |  |  |

Bridge: 770100 County ROBESON

Details

SIDES) PAR

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

| MMS Code                        | MN           | //S Descrip  | otion               |              | Quantity |    |  |  |  |  |
|---------------------------------|--------------|--------------|---------------------|--------------|----------|----|--|--|--|--|
| 3334                            | Brid         | ge Bearin    | gs                  |              | 1        | EA |  |  |  |  |
| Location:                       |              |              |                     |              |          |    |  |  |  |  |
|                                 |              |              | Bent/Span No.       |              |          |    |  |  |  |  |
| Priority Leve                   | el           |              | Status              |              |          |    |  |  |  |  |
| Recommended Routine Maintenance |              |              | Routine Maintenance |              |          |    |  |  |  |  |
| Submitted D                     | ate:         | Submitte     | d By:               | Assisted By: |          |    |  |  |  |  |
| 05/17/2019                      | JOHN EUBANKS |              |                     |              |          |    |  |  |  |  |
| Details                         | Details      |              |                     |              |          |    |  |  |  |  |
| PLATES) P                       |              |              |                     |              |          |    |  |  |  |  |
| MMS Code                        | MN           | //S Descrip  | otion               |              | Quantity |    |  |  |  |  |
| 3334                            | Brid         | ge Bearin    | gs                  |              | 1        | EA |  |  |  |  |
| Location:                       |              |              |                     |              |          |    |  |  |  |  |
|                                 |              |              | Bent/Span No.       |              |          |    |  |  |  |  |
| Priority Level Status           |              |              | Status              |              |          |    |  |  |  |  |
| Recommended Routine Maintenance |              |              | Routine Maintenance |              |          |    |  |  |  |  |
| Submitted D                     | ate:         | Submitte     | d By:               | Assisted By: |          |    |  |  |  |  |
| 05/17/2019                      |              | JOHN EUBANKS |                     |              |          |    |  |  |  |  |

Span 2 Beam 3 Far Bearing: 1" LONG CRACK IN WELD OF WEST STIFFENER TO VERTICAL PLATE (BOTH

Bridge: 770100 County ROBESON

MMS Code MMS Description

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

Quantity

|               |        |             |                              |                              | ~         |    |  |
|---------------|--------|-------------|------------------------------|------------------------------|-----------|----|--|
| 3334          | Brid   | lge Bearin  | gs                           |                              | 1         | EA |  |
| Location:     |        |             |                              |                              |           |    |  |
|               |        |             | Bent/Span No.                |                              |           |    |  |
| Priority Leve | el     |             | Status                       |                              |           |    |  |
| Recommend     | ded    |             | Routine Maintenance          |                              |           |    |  |
| Submitted D   | ate:   | Submitte    | d By:                        | Assisted By:                 |           |    |  |
| 05/17/2019    |        | JOHN E      | UBANKS                       |                              |           |    |  |
| Details       |        |             |                              |                              |           |    |  |
| SIDES) PAF    |        | аг веаппд   | : I LONG CRACK IN WELD OF E  | AST STIFFENER TO VERTICAL PL | ATE (BOTH |    |  |
|               | 3.43   | 10.5        |                              |                              | 0 "       |    |  |
| MMS Code      |        | //S Descrip |                              |                              | Quantity  |    |  |
| 3334          | Brid   | lge Bearin  | gs                           |                              | 1         | EA |  |
| Location:     |        |             |                              |                              |           |    |  |
|               |        |             | Bent/Span No.                |                              |           |    |  |
| Priority Leve | el     |             | Status                       |                              |           |    |  |
| Recommend     | ded    |             | Routine Maintenance          |                              |           |    |  |
| Submitted D   | ate:   | Submitte    | d By:                        | Assisted By:                 |           |    |  |
| 05/16/2019    |        | JOHN E      | UBANKS                       |                              |           |    |  |
| Details       |        |             |                              |                              |           |    |  |
| Span 1 Bea    | m 1 Fa | ar Bearing  | : 2" LONG CRACK IN WELD OF E | AST STIFFENER TO VERTICAL PL | ATE PAR   |    |  |

Bridge: 770100 County ROBESON

MMS Code MMS Description

| MMS Code   | MN                              | MMS Description |                         |              | Quantity |    |
|--|---------------------------------|-----------------|-------------------------|--------------|----------|----|
| 3334   | Brid                            | lge Bearin      | gs                      |              | 1        | EA |
| Location:  |                                 |                 |                         |              |          |    |
|  |                                 |                 | Bent/Span No.           |              |          |    |
| Priority Leve  | el                              |                 | Status                  |              |          |    |
| Recommend  | ded                             |                 | Routine Maintenance     |              |          |    |
| Submitted D  | ate:                            | Submitte        | d By:                   | Assisted By: |          |    |
| 05/16/2019   |                                 | JOHN E          | UBANKS                  |              |          |    |
| Details  |                                 |                 |                         |              |          |    |
| PLATES) P  |                                 | //S Descrip     | ation                   |              | Quantity |    |
| 3334   |                                 | lge Bearing     |                         |              | 1        | EA |
| Location:  | Dilo                            | ige bearing     | <del>ys</del>           |              | '        |    |
| 2004.0111  |                                 |                 | Bent/Span No.           |              |          |    |
| Priority Leve  | el                              |                 | Status                  |              |          |    |
| Recommend  | Recommended Routine Maintenance |                 |                         |              |          |    |
| Submitted D  | ate:                            | Submitte        | nitted By: Assisted By: |              |          |    |
| 05/16/2019   |                                 | JOHN E          | EUBANKS                 |              |          |    |
| Details  |                                 |                 |                         |              |          |    |
| Span 1 Beam 3 Far Bearing: 1" LONG CRACK IN WELD OF WEST STIFFENER TO VERTICAL PLATE (BOTH PLATES) PAR |                                 |                 |                         |              |          |    |

Bridge: 770100 County ROBESON

MMS Code MMS Description

| MMS Code  | MN  | MMS Description |                     |              | Quantity |    |  |
|---|---|-----------------|---------------------|--------------|----------|----|--|
| 3334  | Brid                                      | lge Bearin      | gs                  |              | 1        | EA |  |
| Location:   | Location:                                 |                 |                     |              |          |    |  |
|   |   |                 | Bent/Span No.       |              |          |    |  |
| Priority Leve   | el  |                 | Status              |              |          |    |  |
| Recommend   | ded                                       |                 | Routine Maintenance |              |          |    |  |
| Submitted D   | Date:                                     | Submitte        | d By:               | Assisted By: |          |    |  |
| 05/16/2019  |   | JOHN E          | EUBANKS             |              |          |    |  |
| Details   |   |                 |                     |              |          |    |  |
| PLATES) P   | AK  |                 |                     |              |          |    |  |
| MMS Code  | MN  | //S Descrip     | otion               |              | Quantity |    |  |
| 3334  | Brid                                      | lge Bearin      | gs                  |              | 1        | EA |  |
| Location:   |   |                 |                     |              |          |    |  |
|   |   |                 | Bent/Span No.       |              |          |    |  |
| Priority Leve   | el  |                 | Status              |              |          |    |  |
| Recommend   | ded                                       |                 | Routine Maintenance |              |          |    |  |
| Submitted D   | abmitted Date: Submitted By: Assisted By: |                 |                     |              |          |    |  |
| 05/16/2019  | 9 JOHN EUBANKS                            |                 |                     |              |          |    |  |
| Details   |   |                 |                     |              |          |    |  |
| Span 4 Beam 2 Near Bearing: 2" LONG CRACK IN WELD OF EAST STIFFENER TO VERTICAL PLATE PAR |   |                 |                     |              |          |    |  |

Bridge: 770100 County ROBESON

| MMS Code  | MM                              | MMS Description |               |              | Quantity |    |
|---|---------------------------------|-----------------|---------------|--------------|----------|----|
| 3334  | Bridg                           | ge Bearing      | gs            |              | 1        | EA |
| Location:   | Location:                       |                 |               |              |          |    |
|   |                                 |                 | Bent/Span No. |              |          |    |
| Priority Leve   | Priority Level Status           |                 |               |              |          |    |
| Recommend   | Recommended Routine Maintenance |                 |               |              |          |    |
| Submitted D   | ate:                            | Submitte        | d By:         | Assisted By: |          |    |
| 05/16/2019  |                                 | JOHN E          | UBANKS        |              |          |    |
| Details   | Details                         |                 |               |              |          |    |
| Span 4 Beam 3 Near Bearing: 1" LONG CRACK IN WELD OF WEST STIFFENER TO VERTICAL PLATE PAR |                                 |                 |               |              |          |    |

(US HIGHWAY 301)

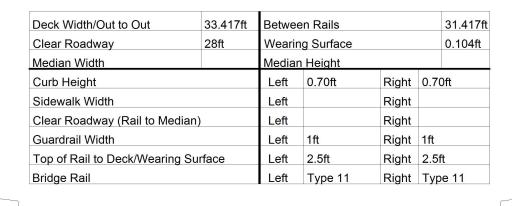
(OVER I-95 M.P. 32.9)

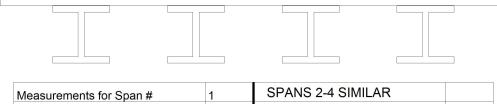
| Roadway         | 22.5ft Wide   | 2 Paved Lanes | Looking East |
|-----------------|---------------|---------------|--------------|
| Left Shoulder   | 3ft Wide      | 3ft Paved     |              |
| Right Shoulder  | 3ft Wide      | 3ft Paved     |              |
| Left Guardrail  | 3ft from road |               |              |
| Right Guardrail | 3ft from road |               |              |

MEASUREMENTS TAKEN 25 FT. SOUTH OF BRIDGE

MEASUREMENTS VERIFIED 5/17/2019 BY JTE MEASUREMENTS UPDATED 5/22/2017 BY DRW

| Title                           |  |  | Description     |                       |  |
|---------------------------------|--|--|-----------------|-----------------------|--|
| APPROACH ROADWAY                |  |  | LOOKING NORTH   |                       |  |
| Bridge No: 770100 Drawn By: RLK |  |  | Date:11/09/2009 | File Name:S0098000561 |  |
|                                 |  |  |                 |                       |  |





Left Overhang

Right Overhang

0.583

6.188

| Beam Number | Beam Type    | Spacing | Comments |
|-------------|--------------|---------|----------|
| 1           | Steel I Beam | 8ft     |          |
| 2           | Steel I Beam | 8ft     |          |
| 3           | Steel I Beam | 8ft     |          |
| 4           | Steel I Beam | ft      |          |

35 3/4"

98 <u>16 1/2"</u>

FLANGE= 13/16" WEB= 0.688"

**Deck Thickness** 

Top of Rail to Bottom of Beam

FLANGE= 1 1/16" WEB= 0.793"

COVER PLATE = 10.5/8" wide x 0.903" thick

COVER PLATES PRESENT OVER TRAVEL LANES

4.708

4.708

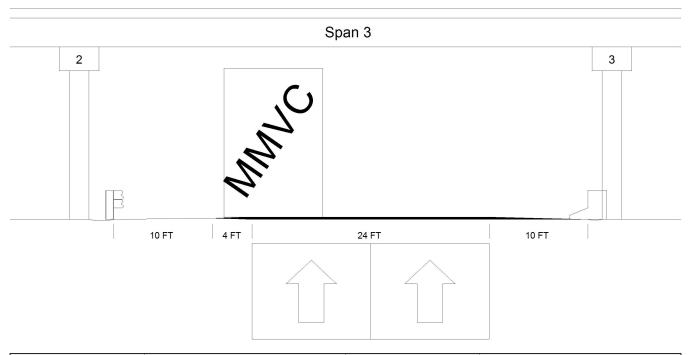
**SPANS 1&4** 

**SPANS 2&3** 

#### ALL BEAMS HAVE TAPERED FLANGES

MEASUREMENTS UPDATED 5/17/20197 BY JTE MEASUREMENTS UPDATED 5/22/2017 BY DRW

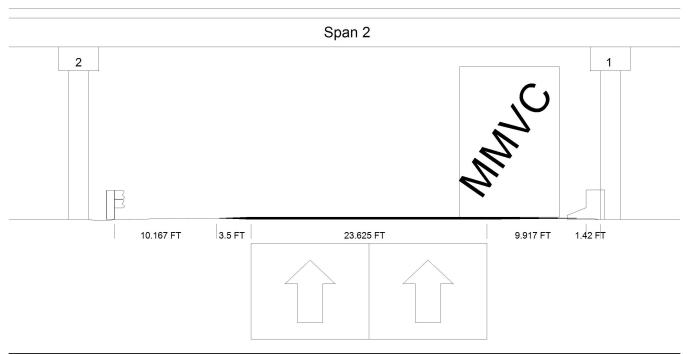
| Title  |  |  | <b>Description</b> SIMILAR SECTION |                         |  |
|--|--|--|------------------------------------|-------------------------|--|
| Superstructure  Bridge No: 770100  Drawn By: RBH |  |  | Date: <sub>12/31/07</sub>          | File Name: \$0098000562 |  |



| Roadway 1                      |   | Direction of Traffic   | South   |  |  |
|--------------------------------|---|------------------------|---------|--|--|
| Distance to Left Rail          | 14FT  | Distance to Right Rail | 10FT    |  |  |
| Distance to Left Toe of Slope  |   | Distance to Left Bent  | 16.0FT  |  |  |
| Distance to Right Toe of Slope |   | Distance to Right Bent | 11.42FT |  |  |
| MMVC                           | 16.4 Ft at Beam 1, 10 FT from LEFT EDGE OF PAVEMENT     |                        |         |  |  |
| MVC                            | 16.3 Ft at Beam 1, 0 FT from RIGHT EDGE OF TRAVEL LANES |                        |         |  |  |

MEASUREMENTS UPDATED 5/17/2019 BY JTE MEASUREMENTS UPDATED 5/27/2015 BY DRW

| Title                           |  |  | Description          |                         |  |
|---------------------------------|--|--|----------------------|-------------------------|--|
| S.B.L. Underclearance           |  |  | Looking South Span 3 |                         |  |
| Bridge No: 770100 Drawn By: RLK |  |  | Date: 5/23/2011      | File Name: \$0098000563 |  |
|                                 |  |  |                      |                         |  |



| Roadway 1                      |  | Direction of Traffic   | North    |  |  |  |
|--------------------------------|--|------------------------|----------|--|--|--|
| Distance to Left Rail          | 13.667FT   | Distance to Right Rail | 9.917FT  |  |  |  |
| Distance to Left Toe of Slope  |  | Distance to Left Bent  | 15.5FT   |  |  |  |
| Distance to Right Toe of Slope |  | Distance to Right Bent | 11.333FT |  |  |  |
| MMVC                           | 16.2 Ft at Beam 1, 10 FT from RIGHT EDGE OF PAVEMENT |                        |          |  |  |  |
| MVC                            | 16 Ft at Beam 1, 0 FT from AT CENTER OF ROADWAY      |                        |          |  |  |  |

MEASUREMENTS UPDATED 5/17/2019 BY JTE MEASUREMENTS UPDATED 5/27/2015 BY DRW

| Title                 |               | Description          |                         |  |
|-----------------------|---------------|----------------------|-------------------------|--|
| N.B.L. Underclearance |               | Looking North Span 2 |                         |  |
| Bridge No: 770100     | Drawn By: RLK | Date: 5/23/2011      | File Name: \$0098000564 |  |
|                       |               |                      |                         |  |

