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Bridge No: 1740 060
Date of Inspection: 04/23/2024
Load Rating Date: 04/14/2010

Print Date:
Report Uploaded 3-May-22

Sufficiency Rating: 79.4 SD/FO: ND

IDENTIFICATION

Bridge ID 1740 060
5) Inventory Route
A) On/Under: Route On Structure
D) Route No: 00495
6) Feature Intersected I 295 SB
7) Facility Carried: RAMP 6107
9) Location: CHRISTIANA INTERCHANGE
16) Latitude: 39° 42' 24"
98) Border Bridge Code Not Applicable (P)

STRUCTURE TYPE AND MATERIALS

43 A & B) Main Span Mtrl/Design: 3 Steel
44 A & B) Appr Span Mtrl/Design:
45) Main Spans: 3
108A) Wearing Surface 1 Monolithic Concrete
Deck Sealing: Epoxy
Pier 1: 33 Pier 2: NA
Abut 1: 2 Abut 2: NA

NAVIGATION DATA

38) Navigation Control NA-no waterway
111) Pier Protection Not Applicable (P)

AGE AND SERVICE

19) Detour Length 5.4 mi
28) No. of Lanes
29) ADT: 84782
42) Type of Service
106) Year Reconst. NA

CLASSIFICATION

12) Base Hwy Network 0
20) Toll Facility: 3 On free road
26) Functional Class 11 Urban Interstate
101) Parallel Str No || bridge exists
104) Hwy System: 1 On the NHS
112) NBIS Length: Long Enough

LOAD RATING AND POSTING

31) Design Load: 6 MS18 (HS20)+mod
63) Oper. Rating Method 8 LRFR (HL93)
65) Inventory Rating Metho 8 LRFR (HL93)
Reason of Posting: -
S220: NA
T330:
SU4 :
SU7 :

PROPOSED IMPROVEMENTS

75) Type of Work: 31 Repl-Load Capacit
94) Bridge Cost: \$800000.00
96) Total Cost \$1000000.00
114) Future ADT: 16,183

CONTRACT INFORMATION

Contract 1: 6401063
Contract 4: NA

Type of Inspection(s) Performed

UW ☐ NBI ☒ Other ☐ FC ☐ Element ☒

2) District: North District
3) County: 03 New Castle
4) Place Code: Newport
B) Highway Type: 1 Interstate Hwy
C) Service Lvl: 7 Ramp
E) Direction 0 N/A (NBI)

11) Mile Pnt 0.190 mi
17) Longitude: 075° 35' 31"
99) Border Br. Str. No Unknown

02 Stringer/Girder

46) Approach Spans 0
108B) Membrane: 0 None
Deck Sealing Date 01/01/1901
107) Deck Type 1 Concrete-Cast-in-Place
108C) Deck Prot: None
Pier Ftg.1: NA Pier Ftg.2: NA
Abut Ftg.1: NA Abut Ftg.2: NA

39) Vert. Clearance 0.0 ft
116) Lift Bridge Vert. Clearanc 0.0 ft

27) Year Built: 1960
A) On Bridge: 2 B) Under Br.: 2
30) Year of ADT 2023
A) On Bridge: 6 2d level interch B) Under Br.: 1 Highway
109) % Truck ADT: 9

13A) LRS Inv. Rte 13B) LRS SubRte No
21) Maintenance: State Highway Agency
37) Historical 5 Not eligible for NRHP
102) Direction: 1 1-way traffic
22) Owner: 1
38) Defense Hwy: 1 On Interstate STRAHN
103) Temp. Str.: [blank] Not temporary

41) Posting status A Open, no restrict
64) Operating Rating 1.24 rf
Date of Resolution NA
S335:
T435:
SU5:
EV2:
70) Br Posting: 5 At/Above Legal Loads
66) Inv. Rating: 0.96 rf
Rating Date: 04/14/2010
S437:
T540:
SU6:
EV3:

76) Length of Imp.: -1.0 ft
95) Rdwy Cost: \$200000.00
97) Yr of Cost Est: 2005
115) Yr of Fut. ADT: 2042

Contract 2: 7196
Contract 5: NA
Contract 3: 8509112
Contract 6: NA

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INSPECTION

90) Inspection Date: 4/23/2024
92A) FC Frequency:
92B) UW Frequency:
92C) SI Frequency:
Element Frequency: 24 months
UBIV Required: N
UBIV Freq: -1
Boat: N
LC Insp Req N

91) Frequency: 24 months
93A) FC Insp. Dat NA
93B) UW Insp. Dat NA
SI Date 93C: NA
Elem. Insp. Date: 4/23/2024
UBIV Days: 01
UBIV Insp Date: 01/01/1901
Tidal: N
LC Insp Date: 01/01/1901

Next Insp.: 4/23/2026
Next FC Insp: NA
Next UW Insp.: NA
Next SI: NA
Next El. Insp.: 4/23/2026
Inspection Zone: 99
GPS: Y

CONDITION

58) Deck: 7 Good
61) Channel: N N/A (NBI)
62) Culvert: N N/A (NBI)

59) Superstructure: 6 Satisfactory 60) Sub Str 6 Satisfactory

APPRAISAL

36) Traffic Safety Features

A) Bridge Rail: 0 Substandard

B) Transition: 0 Substandard

C) Appr. Rail: 0 Substandard

D) Approach Rail Ends: N N/A or not required

67) Str. Evaluation: 6 Equal Min Criteria

68) Deck Geometry 9 Above Desirable Crit

69) Under Clr: 6 Equal Minimum

71) Waterway Adequacy: N Not applicable

72) Approach Alignment 8 Equal Desirable Crit

113) Scour Critical: N Not Over Waterway

GEOMETRIC DATA

32) Appr. Rdwy Width (w/ Shldrs 44.00 ft

33) Median: 0 No median

34) Skew: 25°

35) Structure Flared: 0 No flare

48) Length Max Span: 72.00 ft

49) Structure Length: 145.00 ft

50) Curb or Sidewalk

A) Left: 0.00 ft

B) Right: 0.00 ft

51) Width Curb to Curb 41.00 ft

52) Width Out to Out: 48.20 ft

53) Minimum Vertical Clearance Over Bridg

99.99 ft

54) Vertical Underclearan

A) Reference: H Hwy beneath struct

B) Minimum: 16.86 ft

55) Lateral Underclearanc

A) Reference: H Hwy beneath struct

B) Minimum: 12.23

56) Minimum Lateral Underclearance - Minimum Le

9.71 ft

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Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4
12/2	Re Concrete Deck	sq.ft	6,985.00	6,892.00	65.00	28.00	0.00
510/2	Wearing Surfaces	sq.ft	5,945.00	5,923.00	22.00	0.00	0.00
107/2	Steel Opn Girder/Beam	ft	844.00	668.00	153.00	23.00	0.00
515/2	Steel Protective Coating	sq.ft	1,903.00	1,390.00	0.00	427.00	86.00
515/2	Steel Protective Coating	sq.ft	3,860.00	2,923.00	0.00	892.00	45.00
515/2	Steel Protective Coating	sq.ft	1,500.00	1,412.00	0.00	24.00	64.00
205/2	Re Conc Column	each	6.00	3.00	3.00	0.00	0.00
210/2	Re Conc Pier Wall	ft	70.00	69.00	1.00	0.00	0.00
215/2	Re Conc Abutment	ft	106.00	79.00	17.00	10.00	0.00
234/2	Re Conc Pier Cap	ft	100.00	57.00	32.00	11.00	0.00
300/2	Strip Seal Exp Joint	ft	212.00	174.00	27.00	11.00	0.00
311/2	Moveable Bearing	each	18.00	16.00	0.00	2.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	30.00	0.00	0.00	6.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
313/2	Fixed Bearing	each	18.00	18.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
321/2	Re Conc Approach Slab	sq.ft	2,342.00	2,341.00	1.00	0.00	0.00
330/2	Metal Bridge Railing	ft	756.00	744.00	1.00	11.00	0.00
817/2	Galvanizing Steel Protection	sq.ft	432.00	432.00	0.00	0.00	0.00
817/2	Galvanizing Steel Protection	sq.ft	345.00	345.00	0.00	0.00	0.00
817/2	Galvanizing Steel Protection	sq.ft	768.00	768.00	0.00	0.00	0.00
331/2	Re Conc Bridge Railing	ft	387.00	357.00	1.00	29.00	0.00
825/2	R/C Abutment Backwall	ft	106.00	103.00	1.00	2.00	0.00
829/2	Erosion Smart Flag	(EA)	1.00	1.00	0.00	0.00	0.00
839/2	Soffit Smart Flag	(EA)	1.00	1.00	0.00	0.00	0.00
865/2	Drainage	(EA)	3.00	0.00	0.00	3.00	0.00
881/2	Steel Diap	(EA)	50.00	27.00	16.00	7.00	0.00
515/2	Steel Protective Coating	sq.ft	720.00	612.00	0.00	72.00	36.00
515/2	Steel Protective Coating	sq.ft	540.00	180.00	0.00	144.00	216.00
515/2	Steel Protective Coating	sq.ft	540.00	180.00	0.00	360.00	0.00
890/2	RC Wingwalls	(LF)	104.00	104.00	0.00	0.00	0.00

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INSPECTION

Inspection Date: 04/23/2024 Type: 1 Regular NBI
Inspector: PENNONI PENNONI BrM User:
Scope:
NBI: ☒ Other: ☐ Element: ☒
Underwater: ☐ Fracture Critical ☐

INSPECTION NOTES 8/8/2024

INSPECTED BY: N. DO (TL, R, I) / L. MULLER (I, U, P)

INSPECTION SCHEDULE: INSPECTION STARTED 04/23/2024 AND COMPLETED 04/25/2024

INSPECTION ACCESS: A PENNONI OWNED 45-FEET LIFT TRUCK WAS USED FOR ALL AREAS OVER ROADWAYS WITH LADDERS AND INSPECTORS ON FOOT FOR END SPANS AS REQUIRED.

HANDS ON ACCESS: HANDS ON ACCESS WAS ACHIEVED OVER 100% OF THE STRUCTURE EXCEPT:
- TOP OF DECK (WHICH WAS INSPECTED FROM THE SHOULDERS).
- THE UNDERSIDE OF DECK AND BEAMS OVER THE CENTER TRAVEL LANE OF I-295 IN SPAN 2 (SEPARATE LANE CLOSURES WERE PERFORMED ON THE OUTERMOST TRAVEL LANES OF I-295 AND VISUAL INSPECTION WAS USED OVER THE CENTER TRAVEL LANE).

INSPECTION NOTES:
- SPAN 2 IS HORIZONTALLY MISALIGNED UP TO 1-INCH TOWARDS THE EAST AT THE NORTH ABUTMENT JOINT (PHOTO 10).
- DECK NBI RATING WAS CHANGED FROM A 6 TO A 7 BASED ON THE GUIDANCE FOR NBI CONDITION RATING ASSIGNMENTS.

MAXIMO MAINTENANCE:
- B002-S1G: CLEAN OUT ALL DRAINS (PHOTO 11). (WO#1203025)

PENNONI RECOMMENDED MAXIMO MAINTENANCE:
- B005-S2K: SPOT PAINT THE SUPERSTRUCTURE AT AREAS OF CORROSION (1 LS), (PHOTOS 14 AND 15).
- B020-S2J: REPAIR/PATCH SPALL AT NORTH ABUTMENT BEARING 5 SEAT AND CRACK WITH CORROSION AT SOUTH ABUTMENT BEARING 5 SEAT (2 CY), (PHOTOS 19 AND 21).
- B042-P7A: REPAIR/PATCH SPALLS AND DELAMINATIONS AT THE NORTH AND SOUTH ABUTMENT (4 CY), (PHOTOS 20, 22 AND 23).
- B054-S6D: BACKFILL THE ERODED AREA BEHIND THE SOUTH APPROACH, EAST GUARDRAIL (10 CY), (PHOTO 26).

RECOMMEND BIE TO UPDATE THE FOLLOWING ITEMS:
- ITEM 54: INCREASE FROM 16.86 FT TO 16.96 FT
- ITEM 55: INCREASE FROM 12.23 FT TO 14.17 FT
- ITEMS 114 AND 115 FOR THE FUTURE ADT AND YEAR OF FUTURE ADT FOR 2042, RESPECTIVELY.

STRUCTURE NOTES

Year Bridge Painted	NA	Comments:
Date of Deck Sealing	01/01/1901	Comments:
Date of Non Structural Deck Overla	01/01/1901	Comments:
Date of Structural Deck Resurfacin	01/01/1901	Comments:
Date of Current Bridge Joint	01/01/1901	Comments:

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NBI DONE BY: DMJM & JASON BAUER

....NOTE: SCALE FACTORS ENTERED BY GRD ON 05/22/07, DO NOT ERASE...

ELEMENT CONDITION STATE DATA FOR SPAN 1 - SOUTH

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
12/2	Re Concrete Deck	sq.ft	6,985.00	6,892.00	65.00	28.00	0.00	NOTE: DECK IS COVERED WITH A RIGID OVERLAY. FOR DEFECT DETAILS SEE SUB-ELEMENT 510. SPALL/DELAMINATION (1080): CS3: (19 SF) SPALLS UP TO 8IN L x 6 IN W x 2IN D ALONG GIRDERS IN SPAN 1 AT RANDOM EXPOSING THE TOP FLANGE (PHOTO 12). CS2: (11 SF) AREA OF DELAMINATION IN THE SPAN 3 EAST OVERHANG NEAR MIDSPAN (1 SF), SCALING IS EXHIBITED ON THE SPAN 1 EAST OVERHANG, NORTH HALF (10 SF). EXPOSED REBAR (1090): CS3: (2 SF) A 5IN L x 1FT W x 1/4IN D SPALL WITH EXPOSED CORRODED STEEL REINFORCEMENT WITH UP TO 15% SECTION LOSS IN THE WEST OVERHANG, SPAN 1, OVER PIER 1 (1 SF), AND A 6IN L x 4IN W x 1IN D SPALL WITH EXPOSED REBAR WITH UP TO 15% SECTION LOSS IN THE SPAN 3 WEST OVERHANG NEAR MIDSPAN (1 SF). EFFLORESCENCE/RUST STAINING (1120): CS3: (7 SF) CORROSION STAINS IN THE SPAN 1 EAST OVERHANG (3 SF), OVER THE SOUTH ABUTMENT IN BAY 3 (1 LF), AND IN THE SPAN 2 WEST OVERHANG (3 SF). CS2: (54 SF) EFFLORESCENCE IS EXHIBITED IN ALL SPANS AT RANDOM.
510/2	Wearing Surfaces	sq.ft	5,945.00	5,923.00	22.00	0.00	0.00	DELAMINATION/SPALL/PATCHED AREA (3210): CS2: (22 SF) AREAS OF DELAMINATION AT RANDOM. SEE 2021 BDI DECK EVALUATION FOR DETAILS. CRACKING (3220): CS1: (5,923 SF) HAIRLINE CRACKS AT RANDOM LOCATIONS THROUGHOUT.
3210/2	Del/Spall/Patch/Pot(Wear Surf)	sq.ft	22.00	0.00	22.00	0.00	0.00	-
3220/2	Crack (Wearing Surface)	sq.ft	5,923.00	5,923.00	0.00	0.00	0.00	-
1080/2	Delamination/Spall/Patched Area	sq.ft	30.00	0.00	11.00	19.00	0.00	-
1090/2	Exposed Rebar	sq.ft	2.00	0.00	0.00	2.00	0.00	-
1120/2	Efflorescence/Rust Staining	sq.ft	61.00	0.00	54.00	7.00	0.00	-
107/2	Steel Opn Girder/Beam	ft	223.00	163.00	50.00	10.00	0.00	NOTE: GIRDERS HAVE AREAS OF PAINTED OVER PITTING AND PRE-EXISTING SECTION LOSS. CORROSION (1000): CS3: (10 LF) ALL GIRDER ENDS OVER THE ABUTMENT AND BOTH FASCIA GIRDERS OVER PIER 1 TYPICALLY EXHIBIT MODERATE TO SEVERE CORROSION WITH UP TO 10% SECTION LOSS TO THE WEB, FLANGES, AND BEARING STIFFENERS (PHOTO 14). CS2: (50 LF) SURFACE CORROSION AND FRECKLE RUST HAS FORMED IN ALL GIRDERS AT RANDOM, PRIMARILY TO TOP FLANGES. (NC-24)
515/2	Steel Protective Coating	sq.ft	1,903.00	1,390.00	0.00	427.00	86.00	EFFECTIVENESS (3440): CS4: (86 SF) NO PROTECTION IN AREAS WITH CORROSION AND LOSS OF SECTION. CS3: (427 SF) LIMITED EFFECTIVENESS IN AREAS WITH SURFACE CORROSION AND FRECKLE RUST. (NC-24)

ELEMENT CONDITION STATE DATA FOR SPAN 1 - SOUTH

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
1000/2	Corrosion	ft	223.00	163.00	50.00	10.00	0.00	–
205/2	Re Conc Column	each	3.00	2.00	1.00	0.00	0.00	SPALL/DELAMINATION (1080): CS2: (1 EA) AT PIER 1, COLUMN 2 HAS SPALLS UP TO 4IN L x 3IN W x 1/4IN D THE NORTH FACE AND A 1FT W x 8IN H DELAMINATION IN THE SOUTH FACE UNDER THE PIER CAP. (NC-24)
1080/2	Delamination/Spall/Patched Area	each	1.00	0.00	1.00	0.00	0.00	–
215/2	Re Conc Abutment	ft	54.00	43.00	8.00	3.00	0.00	SPALL/DELAMINATION (1080): CS3: (1 LF) 1FT L x 8IN W x 1/2IN D SPALL WITH EXPOSED REINFORCEMENT AND MINOR LOSS OF SECTION IN THE FRONT FACE UNDER GIRDER 6 (PHOTO 20). CS2: (7 LF) AREAS OF DELAMINATION UP TO 14IN L x 18IN W SCATTERED THROUGHOUT. EFFLORESCENCE/RUST STAINING (1120): CS3: (2 LF) HAIRLINE CRACK WITH CORROSION STAINING ON THE EAST FACE OF BEARING SEAT 5 (1 LF) (PHOTO 19) AND IN THE FRONT FACE UNDER GIRDER 6 (1 LF). EXPOSED REBAR (1090): CS2: (1 LF) EXPOSED REINFORCEMENT DUE TO LACK OF COVER IN THE TOP FACE AT THE WEST END.
1080/2	Delamination/Spall/Patched Area	ft	8.00	0.00	7.00	1.00	0.00	–
1090/2	Exposed Rebar	ft	1.00	0.00	1.00	0.00	0.00	–
1120/2	Efflorescence/Rust Staining	ft	2.00	0.00	0.00	2.00	0.00	–
234/2	Re Conc Pier Cap	ft	50.00	31.00	17.00	2.00	0.00	EFFLORESCENCE/RUST STAINING (1120): CS3: (2 LF) HAIRLINE CRACK WITH CORROSION STAINING IN THE SOUTH FACE OVER COLUMN 3 (PHOTO 24) AND IN BEARING SEAT 5 ON THE EAST FACE. SPALL/DELAMINATION (1080): CS2: (17 LF) AREAS OF DELAMINATION UP TO 3IN H x 18IN W IN THE NORTH, SOUTH, AND BOTTOM FACES AT RANDOM. (NC-24)
1080/2	Delamination/Spall/Patched Area	ft	17.00	0.00	17.00	0.00	0.00	–
1120/2	Efflorescence/Rust Staining	ft	2.00	0.00	0.00	2.00	0.00	–
300/2	Strip Seal Exp Joint	ft	108.00	90.00	12.00	6.00	0.00	METAL DETERIORATION OR DAMAGE (2370): CS3: (6 LF) CORROSION WITH UP TO 5% SECTION LOSS IN BOTH SHOULDERS OF THE JOINT ARMORING AT THE NORTH JOINT (4 LF) AND AT THE SOUTH JOINT (2 LF) (PHOTO 9). DEBRIS IMPACTION (2350): CS2: (12 LF) MINOR DEBRIS THAT DOES NOT AFFECT MOVEMENT IN THE WEST SHOULDER (6 LF) AND THE EAST SHOULDER (6 LF).
2350/2	Debris Impaction	ft	12.00	0.00	12.00	0.00	0.00	–
2370/2	Metal Deterioration or Damage	ft	6.00	0.00	0.00	6.00	0.00	–
311/2	Moveable Bearing	each	6.00	5.00	0.00	1.00	0.00	NOTE: MOVEABLE BEARINGS ARE LOCATED ON PIER 1. BEARINGS 1, 2, 3, 4, AND 5 ARE WELL GREASED. CORROSION (1000): CS3: (1 EA) CORROSION WITH LOSS OF SECTION IN THE BEARING 6 MASONRY PLATE (PHOTO 17). (NC-24)

ELEMENT CONDITION STATE DATA FOR SPAN 1 - SOUTH

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
515/2	Steel Protective Coating	sq.ft	36.00	30.00	0.00	0.00	6.00	EFFECTIVENESS (3440): CS4: (6 SF) NO PROTECTION IN AREA WITH CORROSION AND LOSS OF SECTION. (NC-24)
1000/2	Corrosion	each	1.00	0.00	0.00	1.00	0.00	–
313/2	Fixed Bearing	each	6.00	6.00	0.00	0.00	0.00	NOTE: FIXED BEARINGS ARE LOCATED ON THE SOUTH ABUTMENT. BEARING 5 HAS ONLY ONE ANCHOR BOLT, BUT HAS A KEEPER PLATE REPAIR ON THE WEST SIDE. CS1: (6 EA) NDN. (NC-24)
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00	CS1: (36 SF) NDN. (NC-24)
321/2	Re Conc Approach Slab	sq.ft	1,198.00	1,197.00	1.00	0.00	0.00	DELAMINATION/SPALL (1080): CS2: (1 SF) 3IN L x 2IN W x 1/4IN D SPALL WITH LOOSE CONCRETE IN THE SOUTHWEST QUADRANT ALONG THE WHITE LINE. (NC-24)
1080/2	Delamination/Spall/Patched Area	sq.ft	1.00	0.00	1.00	0.00	0.00	–
330/2	Metal Bridge Railing	ft	248.00	237.00	0.00	11.00	0.00	ALUMINUM RAIL (120 LF): CRACKING (1010): CS3: (1 LF) THE EAST RAIL HAS A DENT/CRACK IN THE TOP HORIZONTAL MEMBER BETWEEN POSTS 5 AND 6 FROM THE SOUTH (PHOTO 8). GALVANIZED STEEL RAIL (128 LF): DISTORTION (1900): CS3: (10 LF) THE EAST THRIE-BEAM HAS COLLISION DAMAGE AT THE SOUTH ABUTMENT WITH CRUSHED ATTENUATOR TUBES AND LATERAL DEFLECTION (PHOTO 7). DAMAGE (7000): CS3: (11 LF) THE EAST GUARDRAIL EXHIBITS IMPACT DAMAGE/CRACK AS NOTED ABOVE. (NC-24)
817/2	Galvanizing Steel Protection	sq.ft	768.00	768.00	0.00	0.00	0.00	CS1: (768 SF) NDN. (NC-24)
1010/2	Cracking	ft	1.00	0.00	0.00	1.00	0.00	–
1900/2	Distortion	ft	10.00	0.00	0.00	10.00	0.00	–
7000/2	Damage	ft	11.00	0.00	0.00	11.00	0.00	–
331/2	Re Conc Bridge Railing	ft	128.00	125.00	0.00	3.00	0.00	EFFLORESCENCE/RUST STAINING (1120): CS3: (3 LF) HAIRLINE CRACKS WITH CORROSION STAINING ALONG THE EAST CURB FACE NEAR THE SOUTH JOINT (2 LF) AND MIDSPAN (1 LF). (NC-24)
1120/2	Efflorescence/Rust Staining	ft	3.00	0.00	0.00	3.00	0.00	–
825/2	R/C Abutment Backwall	ft	54.00	52.00	1.00	1.00	0.00	SPALL/DELAMINATION (1080): CS3: (1 LF) THE NORTH ABUTMENT BACKWALL EXHIBITS A 4IN W x 7IN L x 1 IN D SPALL BEHIND GIRDER 1. CS2: (1 LF) THE NORTH ABUTMENT BACKWALL EXHIBITS A 14IN W x 10IN L DELAM IN BAY 1 (1LF). CRACKING (1130): CS1: (52 LF) THE NORTH ABUTMENT BACKWALL EXHIBITS HAIRLINE MAP CRACKS THROUGHOUT.
829/2	Erosion Smart Flag	(EA)	1.00	0.00	0.00	1.00	0.00	CS2: (1 EA) THE SOUTHEAST EMBANKMENT EXHIBITS MINOR EROSION BEHIND THE GUARDRAIL AT TRANSITION GUARDRAIL (PHOTO 26).
839/2	Soffit Smart Flag	(EA)	1.00	1.00	0.00	0.00	0.00	CS1: (1 EA) DISTRESS IS LESS THAN 2 PERCENT OF THE TOTAL UNDERSIDE. SEE ELEMENT 12 FOR DETAILS. (NC-24)

ELEMENT CONDITION STATE DATA FOR SPAN 1 - SOUTH

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
865/2	Drainage	(EA)	1.00	0.00	0.00	1.00	0.00	DRAINAGE EFFECTIVENESS (9000): CS3: (1 EA) EAST DRAIN IS FULLY CLOGGED (NC-24)
9000/2	Drainage Effectiveness	(EA)	1.00	0.00	0.00	1.00	0.00	–
881/2	Steel Diap	(EA)	15.00	5.00	4.00	6.00	0.00	CORROSION (1000): CS3: (6 EA) CORROSION WITH UP TO 15% SECTION LOSS IS EXHIBITED AT RANDOM BY ALL DIAPHRAGMS OVER THE ABUTMENT (5 EA) AND BAY 3 DIAPHRAGM OVER PIER 1 (1 EA). NOTE THAT BAY 3 DIAPHRAGM OVER THE ABUTMENT HAS CORROSION WITH 15% SECTION LOSS AND PACK RUST CAUSING MINOR DISTORTION IN THE BOTTOM ANGLE ON THE WEST END (PHOTO 13). CS2: (4 EA) SURFACE CORROSION HAS FORMED ON DIAPHRAGMS IN BAYS 1, 2, 4, AND 5 OVER PIER 1.
515/2	Steel Protective Coating	sq.ft	540.00	180.00	0.00	144.00	216.00	EFFECTIVENESS (3440): CS4: (216 SF) NO PROTECTION IN AREAS WITH CORROSION AND LOSS OF SECTION. CS3: (144 SF) LIMITED EFFECTIVENESS IN AREAS WITH SURFACE CORROSION. (NC-24)
1000/2	Corrosion	(EA)	10.00	0.00	4.00	6.00	0.00	–
890/2	RC Wingwalls	(LF)	52.00	52.00	0.00	0.00	0.00	CS1: (52 LF) NDN. (NC-24)
1080/2	Delamination/Spall/Patched Area	ft	2.00	0.00	1.00	1.00	0.00	–
1130/2	Cracking (RC and Other)	ft	52.00	52.00	0.00	0.00	0.00	–

ELEMENT CONDITION STATE DATA FOR SPAN 2 - CENTER

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
107/2	Steel Opn Girder/Beam	ft	433.00	328.00	100.00	5.00	0.00	CORROSION (1000): CS3: (5 LF) GIRDERS 5 AND 6 AT BOTH ENDS EXHIBIT CORROSION WITH UP TO 10% SECTION LOSS TO THE BOTTOM FLANGE (4 LF) (PHOTO 15), GIRDER 3 AT PIER 1, BOTTOM FLANGE, EAST END, EXHIBITS PITTING TO THE TOP FACE WITH 3/8-INCH DIAMETER SECTION LOSS (1 LF). CS2: (100 LF) FRECKLE RUST HAS FORMED AT RANDOM IN THE BOTTOM FLANGE AND WEBS.
515/2	Steel Protective Coating	sq.ft	3,860.00	2,923.00	0.00	892.00	45.00	EFFECTIVENESS (3440): CS4: (45 SF) NO PROTECTION IN AREAS WITH CORROSION AND LOSS OF SECTION. CS3: (892 SF) LIMITED EFFECTIVENESS IN AREAS WITH FRECKLE RUST.
1000/2	Corrosion	ft	105.00	0.00	100.00	5.00	0.00	–
205/2	Re Conc Column	each	3.00	1.00	2.00	0.00	0.00	SPALL/DELAMINATION (1080): CS2: (2 EA) AT PIER 2, COLUMN 2 EXHIBITS A 2IN W x 5IN L x 1/2IN D SPALL, AND AN AREA OF DELAMINATION AT THE TOP OF THE NORTH FACE AND BOTTOM OF THE SOUTH FACE (1 EA). COLUMN 3 EXHIBITS TWO (2) AREAS OF DELAMINATION AT THE NORTHEAST AND SOUTHEAST CORNERS UP TO 5IN W x 8IN H (1 EA). (NC-24)
1080/2	Delamination/Spall/Patched Area	each	2.00	0.00	2.00	0.00	0.00	–
210/2	Re Conc Pier Wall	ft	70.00	69.00	1.00	0.00	0.00	NOTE: THIS ELEMENT WAS ADDED BECAUSE THE CRASH WALL APPEARS TO BE INTEGRATED WITH THE COLUMNS, BUT IT CAN'T BE FOUND IN THE PLANS. EFFLORESCENCE/RUST STAINING (1120): CS2: (1 LF) SUPERFICIAL VERTICAL CRACK WITH EFFLORESCENCE IN THE SOUTH FACE BETWEEN COLUMNS 2 AND 3. (NC-24)
234/2	Re Conc Pier Cap	ft	50.00	26.00	15.00	9.00	0.00	CRACKING (1130): CS3: (7 LF) LONGITUDINAL CRACKING UP TO 1/4-INCH WIDE IN THE BOTTOM FACE BETWEEN COLUMNS 2 AND 3 (PHOTO 25). EFFLORESCENCE/RUST STAINING (1120): CS3: (2 LF) HAIRLINE CRACKS WITH CORROSION STAINING IN THE BOTTOM AND NORTH FACES NEAR THE EAST END. SPALL/DELAMINATION (1080): CS2: (15 LF) AREAS OF DELAMINATION UP TO 6FT W x 3FT L IN THE NORTH, SOUTH, AND BOTTOM FACES AT RANDOM. (NC-24)
1080/2	Delamination/Spall/Patched Area	ft	15.00	0.00	15.00	0.00	0.00	–
1120/2	Efflorescence/Rust Staining	ft	2.00	0.00	0.00	2.00	0.00	–
1130/2	Cracking (RC and Other)	ft	7.00	0.00	0.00	7.00	0.00	–
300/2	Strip Seal Exp Joint	ft	52.00	43.00	8.00	1.00	0.00	METAL DETERIORATION OR DAMAGE (2370): CS3: (1 LF) CORROSION WITH LOSS OF SECTION IN THE EAST SHOULDER JOINT ARMORING. DEBRIS IMPACTION (2350): CS2: (8 LF) MINOR DEBRIS THAT DOES NOT AFFECT MOVEMENT IN THE WEST (6 LF) AND EAST (2 LF) SHOULDERS. (NC-24)

ELEMENT CONDITION STATE DATA FOR SPAN 2 - CENTER

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
2350/2	Debris Impaction	ft	8.00	0.00	8.00	0.00	0.00	–
2370/2	Metal Deterioration or Damage	ft	1.00	0.00	0.00	1.00	0.00	–
311/2	Moveable Bearing	each	6.00	6.00	0.00	0.00	0.00	NOTE: MOVEABLE BEARINGS ARE LOCATED ON PIER 2 AND ARE WELL GREASED. CS1: (6 EA) NDN. (NC-24)
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00	CS1: (36 SF) NDN. (NC-24)
313/2	Fixed Bearing	each	6.00	6.00	0.00	0.00	0.00	NOTE: FIXED BEARINGS ARE LOCATED ON PIER 1 AND ARE WELL GREASED. CS1: (6 EA) NDN.
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00	CS1: (36 EA) NDN. (NC-24)
330/2	Metal Bridge Railing	ft	288.00	288.00	0.00	0.00	0.00	ALUMINUM RAIL: CS1: (144 LF) NDN. GALVANIZED STEEL RAIL: CS1: (144 LF) NDN. (NC-24)
817/2	Galvanizing Steel Protection	sq.ft	432.00	432.00	0.00	0.00	0.00	CS1: (432 SF) NDN. (NC-24)
331/2	Re Conc Bridge Railing	ft	144.00	123.00	1.00	20.00	0.00	EFFLORESCENCE/RUST STAINING (1120): CS3: (20 LF) THE EAST RAIL EXHIBITS HAIRLINE CRACKS WITH CORROSION STAINING ALONG THE CURB FACE AT RANDOM SPALL/DELAMINATION (1080): CS2: (1 LF) THE EAST RAIL EXHIBITS A 1IN W x 3IN L x 1IN D SPALL WITH EXPOSED CORRODED REINFORCEMENT IN THE CURB FACE NEAR MIDSPAN.
1080/2	Delamination/Spall/Patched Area	ft	1.00	0.00	1.00	0.00	0.00	–
1120/2	Efflorescence/Rust Staining	ft	20.00	0.00	0.00	20.00	0.00	–
865/2	Drainage	(EA)	1.00	0.00	0.00	1.00	0.00	DRAINAGE EFFECTIVENESS (9000): CS3: (1 EA) EAST DRAIN IS FULLY CLOGGED. (NC-24)
9000/2	Drainage Effectiveness	(EA)	1.00	0.00	0.00	1.00	0.00	–
881/2	Steel Diap	(EA)	20.00	17.00	2.00	1.00	0.00	CORROSION (1000): CS3: (1 EA) THE END DIAPHRAGM AT PIER 1, BAY 3, BOTTOM ANGLE, TOP FACE, EXHIBITS 1IN DIA x 1/8IN D SECTION LOSS WITH ADJACENT CORROSION AT THE MIDDLE, AND 1IN DIA x 100% SECTION LOSS, PAINTED OVER, AT THE WEST END. CS2: (2 EA) SURFACE CORROSION AND FRECKLE RUST HAS FORMED ON THE DIAPHRAGMS IN BAYS 4 AND 5 OVER PIER 1.
515/2	Steel Protective Coating	sq.ft	720.00	612.00	0.00	72.00	36.00	EFFECTIVENESS (3440): CS4: (36 SF) NO EFFECTIVENESS IN AREAS OF CORROSION WITH SECTION LOSS. CS3: (72 SF) LIMITED EFFECTIVENESS IN AREAS WITH FRECKLE RUST AND SURFACE CORROSION.
1000/2	Corrosion	(EA)	3.00	0.00	2.00	1.00	0.00	–
1120/2	Efflorescence/Rust Staining	ft	1.00	0.00	1.00	0.00	0.00	–

ELEMENT CONDITION STATE DATA FOR SPAN 3 - NORTH

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
107/2	Steel Opn Girder/Beam	ft	188.00	177.00	3.00	8.00	0.00	CORROSION (1000): CS3: (8 LF) CORROSION WITH UP TO 10% SECTION LOSS IN THE GIRDER TOP FLANGE OVER THE ABUTMENT IN ALL GIRDERS (1 LF EACH = 6 LF) AND OVER PIER 2 IN THE FACIA GIRDERS (1 LF EACH = 2 LF) CS2: (3 LF) SURFACE CORROSION NEAR THE NORTH END OF GIRDER 4 IN THE TOP FLANGE. (NC-24)
515/2	Steel Protective Coating	sq.ft	1,500.00	1,412.00	0.00	24.00	64.00	EFFECTIVENESS (3440): CS4: (64 SF) NO PROTECTION IN AREAS WITH CORROSION AND LOSS OF SECTION. CS3: (24 SF) LIMITED EFFECTIVENESS IN AREAS WITH SURFACE CORROSION. (NC-24)
1000/2	Corrosion	ft	11.00	0.00	3.00	8.00	0.00	–
215/2	Re Conc Abutment	ft	52.00	36.00	9.00	7.00	0.00	SPALL/DELAMINATION (1080): CS3: (1 LF) 18IN W x 2FT H x 1/4IN D SPALL IN THE FRONT FACE UNDER GIRDER 5 WITH ASSOCIATED 2FT W x 18IN H DELAMINATION. CS2: (9 LF) AREAS OF DELAMINATION AT RANDOM UNDER BAYS 1-3 UP TO 1FT W x 1FT H. EXPOSED REBAR (1090): CS3: (6 LF) BAY 5 EXHIBITS A DEGRADED PATCH WITH A 3FT L x 2FT H x 3 1/2IN D SPALL WITH EXPOSED CORRODED STEEL REINFORCEMENT AND 10% SECTION LOSS ON REINFORCEMENT (3 LF) (PHOTO 23), AND THE CORNER OF BRIDGE SEAT 4 IN BAY 5 EXHIBITS A 2.5FT L x 1FT H x 3IN D SPALL WITH EXPOSED CORRODED STEEL REINFORCEMENT AND 10% SECTION LOSS ON REINFORCEMENT (3 LF) (PHOTO 21).
1080/2	Delamination/Spall/Patched Area	ft	10.00	0.00	9.00	1.00	0.00	–
1090/2	Exposed Rebar	ft	6.00	0.00	0.00	6.00	0.00	–
300/2	Strip Seal Exp Joint	ft	52.00	41.00	7.00	4.00	0.00	METAL DETERIORATION OR DAMAGE (2370): CS3: (4 LF) CORROSION WITH LOSS OF SECTION IN THE JOINT ARMORING AT THE EAST SHOULDER (2LF) AND WEST SHOULDER (2 LF). DEBRIS IMPACTION (2350): CS2: (7 LF) MINOR DEBRIS THAT DOES NOT AFFECT MOVEMENT IN THE WEST SHOULDER.
2350/2	Debris Impaction	ft	7.00	0.00	7.00	0.00	0.00	–
2370/2	Metal Deterioration or Damage	ft	4.00	0.00	0.00	4.00	0.00	–
311/2	Moveable Bearing	each	6.00	5.00	0.00	1.00	0.00	NOTES: - MOVEABLE BEARINGS ARE LOCATED ON PIER 2. - BEARINGS 1, 2, 3, 4, AND 6 ARE WELL GREASED. - BEARINGS 1-6 ALL HAVE SHEARED OFF ANCHOR BOLTS WITH KEEPER PLATE REPAIRS INSTALLED. - GIRDERS 1-6 TYPICALLY EXHIBIT A 5-INCH OVERHANG BEYOND THE SOUTH FACE OF THE BEARING ASSEMBLY AT 50 DEGREES FAHRENHEIT (PHOTO 18). CORROSION (1000): CS3: (1 EA) CORROSION WITH 10% SECTION LOSS AT BEARING 5.
515/2	Steel Protective Coating	sq.ft	36.00	30.00	0.00	0.00	6.00	EFFECTIVENESS (3440): CS4: (6 SF) NO PROTECTION IN AREAS WITH CORROSION AND LOSS OF SECTION.
1000/2	Corrosion	each	1.00	0.00	0.00	1.00	0.00	–

ELEMENT CONDITION STATE DATA FOR SPAN 3 - NORTH

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
313/2	Fixed Bearing	each	6.00	6.00	0.00	0.00	0.00	NOTE: FIXED BEARINGS ARE LOCATED ON THE NORTH ABUTMENT. BEARING 4 HAS SHEARED OFF ANCHOR BOLTS WITH KEEPER PLATE REPAIRS INSTALLED. CS1: (6 EA) NDN. (NC-24)
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00	CS1: (36 SF) NDN. (NC-24)
321/2	Re Conc Approach Slab	sq.ft	1,144.00	1,144.00	0.00	0.00	0.00	CRACKING (1130): CS1: (1,144 SF) HAIRLINE CRACKS EXHIBITED THROUGHOUT. (NC-24)
1130/2	Cracking (RC and Other)	sq.ft	1,144.00	1,144.00	0.00	0.00	0.00	—
330/2	Metal Bridge Railing	ft	220.00	219.00	1.00	0.00	0.00	ALUMINUM RAIL (105 LF): DISTORTION (1900): CS2: (1 LF) WEST RAIL HAS IMPACT DAMAGE/DENT BETWEEN POSTS 3 AND 4 FROM THE SOUTH. DAMAGE (7000): CS2: (1 LF) WEST RAIL EXHIBITS IMPACT DAMAGE/DENT BETWEEN POSTS 3 AND 4. GALVANIZED STEEL (115 LF): CS1: (115 LF) NDN. (NC-24)
817/2	Galvanizing Steel Protection	sq.ft	345.00	345.00	0.00	0.00	0.00	CS1: (345 SF) NDN. (NC-24)
1900/2	Distortion	ft	1.00	0.00	1.00	0.00	0.00	—
7000/2	Damage	ft	1.00	0.00	1.00	0.00	0.00	—
331/2	Re Conc Bridge Railing	ft	115.00	109.00	0.00	6.00	0.00	EFFLORESCENCE/RUST STAINING (1120): CS3: (6 LF) THE EAST RAIL EXHIBITS HORIZONTAL HAIRLINE CRACKS WITH CORROSION STAINING CRACKS ON THE CURB FACE AT RANDOM. (NC-24)
1120/2	Efflorescence/Rust Staining	ft	6.00	0.00	0.00	6.00	0.00	—
825/2	R/C Abutment Backwall	ft	52.00	51.00	0.00	1.00	0.00	EXPOSED REBAR (1090): CS3: (1 LF) 2IN W x 2IN L x 1IN D POP-OUT SPALL WITH EXPOSED REINFORCEMENT AND 10% SECTION LOSS ON REINFORCEMENT NEAR THE WEST END (PHOTO 22). (NC-24)
865/2	Drainage	(EA)	1.00	0.00	0.00	1.00	0.00	DRAINAGE EFFECTIVENESS (9000): CS3: (1 EA) EAST DRAIN IS FULLY CLOGGED (PHOTO 11). (NC-24)
9000/2	Drainage Effectiveness	(EA)	1.00	0.00	0.00	1.00	0.00	—
881/2	Steel Diap	(EA)	15.00	5.00	10.00	0.00	0.00	NOTES: - MINOR BEND IN THE BOTTOM ANGLE OF THE BAY 3 DIAPHRAGM OVER THE ABUTMENT. - AREAS OF PAINTED OVER PITTING AND UP TO 100% PRE-EXISTING SECTION LOSS IN THE BAY 4 DIAPHRAGM OVER THE ABUTMENT (PHOTO 16). CORROSION (1000): CS2: (10 EA) FRECKLE RUST HAS FORMED IN THE DIAPHRAGMS OVER THE ABUTMENT AND PIER 2. (NC-24)
515/2	Steel Protective Coating	sq.ft	540.00	180.00	0.00	360.00	0.00	EFFECTIVENESS (3440): CS3: (360 SF) LIMITED EFFECTIVENESS AT AREAS OF FRECKLE RUST. (NC-24)

ELEMENT CONDITION STATE DATA FOR SPAN 3 - NORTH

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4	Notes
1000/2	Corrosion	(EA)	10.00	0.00	10.00	0.00	0.00	-
890/2	RC Wingwalls	(LF)	52.00	52.00	0.00	0.00	0.00	CS1: (52 LF) NDN. (NC-24)
1090/2	Exposed Rebar	ft	1.00	0.00	0.00	1.00	0.00	-

ELEMENT CONDITION STATE DATA SUMMARY

Elm/Env	Description	Unit	Total Qty	Qty. St. 1	Qty. St. 2	Qty. St. 3	Qty. St. 4
12/2	Re Concrete Deck	sq.ft	6,985.00	6,892.00	65.00	28.00	0.00
510/2	Wearing Surfaces	sq.ft	5,945.00	5,923.00	22.00	0.00	0.00
510/2	Wearing Surfaces	sq.ft	5,945.00	5,923.00	22.00	0.00	0.00
1080/2	Delamination/Spall/Patched Area	sq.ft	30.00	0.00	11.00	19.00	0.00
1080/2	Delamination/Spall/Patched Area	sq.ft	30.00	0.00	11.00	19.00	0.00
1090/2	Exposed Rebar	sq.ft	2.00	0.00	0.00	2.00	0.00
1090/2	Exposed Rebar	sq.ft	2.00	0.00	0.00	2.00	0.00
1120/2	Efflorescence/Rust Staining	sq.ft	61.00	0.00	54.00	7.00	0.00
1120/2	Efflorescence/Rust Staining	sq.ft	61.00	0.00	54.00	7.00	0.00
107/2	Steel Opn Girder/Beam	ft	844.00	668.00	153.00	23.00	0.00
515/2	Steel Protective Coating	sq.ft	3,860.00	2,923.00	0.00	892.00	45.00
515/2	Steel Protective Coating	sq.ft	3,860.00	2,923.00	0.00	892.00	45.00
515/2	Steel Protective Coating	sq.ft	1,500.00	1,412.00	0.00	24.00	64.00
515/2	Steel Protective Coating	sq.ft	1,500.00	1,412.00	0.00	24.00	64.00
515/2	Steel Protective Coating	sq.ft	1,903.00	1,390.00	0.00	427.00	86.00
515/2	Steel Protective Coating	sq.ft	1,903.00	1,390.00	0.00	427.00	86.00
1000/2	Corrosion	ft	223.00	163.00	50.00	10.00	0.00
1000/2	Corrosion	ft	223.00	163.00	50.00	10.00	0.00
1000/2	Corrosion	ft	105.00	0.00	100.00	5.00	0.00
1000/2	Corrosion	ft	105.00	0.00	100.00	5.00	0.00
1000/2	Corrosion	ft	11.00	0.00	3.00	8.00	0.00
1000/2	Corrosion	ft	11.00	0.00	3.00	8.00	0.00
205/2	Re Conc Column	each	6.00	3.00	3.00	0.00	0.00
1080/2	Delamination/Spall/Patched Area	each	2.00	0.00	2.00	0.00	0.00
1080/2	Delamination/Spall/Patched Area	each	2.00	0.00	2.00	0.00	0.00
1080/2	Delamination/Spall/Patched Area	each	1.00	0.00	1.00	0.00	0.00
1080/2	Delamination/Spall/Patched Area	each	1.00	0.00	1.00	0.00	0.00
210/2	Re Conc Pier Wall	ft	70.00	69.00	1.00	0.00	0.00
215/2	Re Conc Abutment	ft	106.00	79.00	17.00	10.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	8.00	0.00	7.00	1.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	8.00	0.00	7.00	1.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	10.00	0.00	9.00	1.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	10.00	0.00	9.00	1.00	0.00
1090/2	Exposed Rebar	ft	6.00	0.00	0.00	6.00	0.00
1090/2	Exposed Rebar	ft	6.00	0.00	0.00	6.00	0.00
1090/2	Exposed Rebar	ft	1.00	0.00	1.00	0.00	0.00
1090/2	Exposed Rebar	ft	1.00	0.00	1.00	0.00	0.00
1120/2	Efflorescence/Rust Staining	ft	2.00	0.00	0.00	2.00	0.00
1120/2	Efflorescence/Rust Staining	ft	2.00	0.00	0.00	2.00	0.00
234/2	Re Conc Pier Cap	ft	100.00	57.00	32.00	11.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	17.00	0.00	17.00	0.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	17.00	0.00	17.00	0.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	15.00	0.00	15.00	0.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	15.00	0.00	15.00	0.00	0.00
1120/2	Efflorescence/Rust Staining	ft	2.00	0.00	0.00	2.00	0.00
1120/2	Efflorescence/Rust Staining	ft	2.00	0.00	0.00	2.00	0.00
1120/2	Efflorescence/Rust Staining	ft	2.00	0.00	0.00	2.00	0.00
1120/2	Efflorescence/Rust Staining	ft	2.00	0.00	0.00	2.00	0.00
1130/2	Cracking (RC and Other)	ft	7.00	0.00	0.00	7.00	0.00
1130/2	Cracking (RC and Other)	ft	7.00	0.00	0.00	7.00	0.00
300/2	Strip Seal Exp Joint	ft	212.00	174.00	27.00	11.00	0.00
2350/2	Debris Impaction	ft	8.00	0.00	8.00	0.00	0.00

2350/2	Debris Impaction	ft	8.00	0.00	8.00	0.00	0.00
2350/2	Debris Impaction	ft	12.00	0.00	12.00	0.00	0.00
2350/2	Debris Impaction	ft	12.00	0.00	12.00	0.00	0.00
2350/2	Debris Impaction	ft	7.00	0.00	7.00	0.00	0.00
2350/2	Debris Impaction	ft	7.00	0.00	7.00	0.00	0.00
2370/2	Metal Deterioration or Damage	ft	1.00	0.00	0.00	1.00	0.00
2370/2	Metal Deterioration or Damage	ft	1.00	0.00	0.00	1.00	0.00
2370/2	Metal Deterioration or Damage	ft	6.00	0.00	0.00	6.00	0.00
2370/2	Metal Deterioration or Damage	ft	6.00	0.00	0.00	6.00	0.00
2370/2	Metal Deterioration or Damage	ft	4.00	0.00	0.00	4.00	0.00
2370/2	Metal Deterioration or Damage	ft	4.00	0.00	0.00	4.00	0.00
311/2	Moveable Bearing	each	18.00	16.00	0.00	2.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	30.00	0.00	0.00	6.00
515/2	Steel Protective Coating	sq.ft	36.00	30.00	0.00	0.00	6.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	30.00	0.00	0.00	6.00
515/2	Steel Protective Coating	sq.ft	36.00	30.00	0.00	0.00	6.00
1000/2	Corrosion	each	1.00	0.00	0.00	1.00	0.00
1000/2	Corrosion	each	1.00	0.00	0.00	1.00	0.00
1000/2	Corrosion	each	1.00	0.00	0.00	1.00	0.00
1000/2	Corrosion	each	1.00	0.00	0.00	1.00	0.00
313/2	Fixed Bearing	each	18.00	18.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
515/2	Steel Protective Coating	sq.ft	36.00	36.00	0.00	0.00	0.00
321/2	Re Conc Approach Slab	sq.ft	2,342.00	2,341.00	1.00	0.00	0.00
1080/2	Delamination/Spall/Patched Area	sq.ft	1.00	0.00	1.00	0.00	0.00
1080/2	Delamination/Spall/Patched Area	sq.ft	1.00	0.00	1.00	0.00	0.00
1130/2	Cracking (RC and Other)	sq.ft	1,144.00	1,144.00	0.00	0.00	0.00
1130/2	Cracking (RC and Other)	sq.ft	1,144.00	1,144.00	0.00	0.00	0.00
330/2	Metal Bridge Railing	ft	756.00	744.00	1.00	11.00	0.00
817/2	Galvanizing Steel Protection	sq.ft	768.00	768.00	0.00	0.00	0.00
817/2	Galvanizing Steel Protection	sq.ft	768.00	768.00	0.00	0.00	0.00
817/2	Galvanizing Steel Protection	sq.ft	432.00	432.00	0.00	0.00	0.00
817/2	Galvanizing Steel Protection	sq.ft	432.00	432.00	0.00	0.00	0.00
817/2	Galvanizing Steel Protection	sq.ft	345.00	345.00	0.00	0.00	0.00
817/2	Galvanizing Steel Protection	sq.ft	345.00	345.00	0.00	0.00	0.00
1010/2	Cracking	ft	1.00	0.00	0.00	1.00	0.00
1010/2	Cracking	ft	1.00	0.00	0.00	1.00	0.00
1900/2	Distortion	ft	10.00	0.00	0.00	10.00	0.00
1900/2	Distortion	ft	10.00	0.00	0.00	10.00	0.00
1900/2	Distortion	ft	1.00	0.00	1.00	0.00	0.00
1900/2	Distortion	ft	1.00	0.00	1.00	0.00	0.00
7000/2	Damage	ft	1.00	0.00	1.00	0.00	0.00
7000/2	Damage	ft	1.00	0.00	1.00	0.00	0.00
7000/2	Damage	ft	11.00	0.00	0.00	11.00	0.00
7000/2	Damage	ft	11.00	0.00	0.00	11.00	0.00
331/2	Re Conc Bridge Railing	ft	387.00	357.00	1.00	29.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	1.00	0.00	1.00	0.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	1.00	0.00	1.00	0.00	0.00
1120/2	Efflorescence/Rust Staining	ft	3.00	0.00	0.00	3.00	0.00

1120/2	Efflorescence/Rust Staining	ft	3.00	0.00	0.00	3.00	0.00
1120/2	Efflorescence/Rust Staining	ft	20.00	0.00	0.00	20.00	0.00
1120/2	Efflorescence/Rust Staining	ft	20.00	0.00	0.00	20.00	0.00
1120/2	Efflorescence/Rust Staining	ft	6.00	0.00	0.00	6.00	0.00
1120/2	Efflorescence/Rust Staining	ft	6.00	0.00	0.00	6.00	0.00
825/2	R/C Abutment Backwall	ft	106.00	103.00	1.00	2.00	0.00
829/2	Erosion Smart Flag	(EA)	1.00	0.00	0.00	1.00	0.00
839/2	Soffit Smart Flag	(EA)	1.00	1.00	0.00	0.00	0.00
865/2	Drainage	(EA)	3.00	0.00	0.00	3.00	0.00
9000/2	Drainage Effectiveness	(EA)	1.00	0.00	0.00	1.00	0.00
9000/2	Drainage Effectiveness	(EA)	1.00	0.00	0.00	1.00	0.00
9000/2	Drainage Effectiveness	(EA)	1.00	0.00	0.00	1.00	0.00
9000/2	Drainage Effectiveness	(EA)	1.00	0.00	0.00	1.00	0.00
9000/2	Drainage Effectiveness	(EA)	1.00	0.00	0.00	1.00	0.00
9000/2	Drainage Effectiveness	(EA)	1.00	0.00	0.00	1.00	0.00
881/2	Steel Diap	(EA)	50.00	27.00	16.00	7.00	0.00
515/2	Steel Protective Coating	sq.ft	720.00	612.00	0.00	72.00	36.00
515/2	Steel Protective Coating	sq.ft	720.00	612.00	0.00	72.00	36.00
515/2	Steel Protective Coating	sq.ft	540.00	180.00	0.00	360.00	0.00
515/2	Steel Protective Coating	sq.ft	540.00	180.00	0.00	360.00	0.00
515/2	Steel Protective Coating	sq.ft	540.00	180.00	0.00	144.00	216.00
515/2	Steel Protective Coating	sq.ft	540.00	180.00	0.00	144.00	216.00
1000/2	Corrosion	(EA)	10.00	0.00	4.00	6.00	0.00
1000/2	Corrosion	(EA)	10.00	0.00	4.00	6.00	0.00
1000/2	Corrosion	(EA)	10.00	0.00	10.00	0.00	0.00
1000/2	Corrosion	(EA)	10.00	0.00	10.00	0.00	0.00
1000/2	Corrosion	(EA)	3.00	0.00	2.00	1.00	0.00
1000/2	Corrosion	(EA)	3.00	0.00	2.00	1.00	0.00
890/2	RC Wingwalls	(LF)	104.00	104.00	0.00	0.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	2.00	0.00	1.00	1.00	0.00
1080/2	Delamination/Spall/Patched Area	ft	2.00	0.00	1.00	1.00	0.00
1090/2	Exposed Rebar	ft	1.00	0.00	0.00	1.00	0.00
1090/2	Exposed Rebar	ft	1.00	0.00	0.00	1.00	0.00
1120/2	Efflorescence/Rust Staining	ft	1.00	0.00	1.00	0.00	0.00
1120/2	Efflorescence/Rust Staining	ft	1.00	0.00	1.00	0.00	0.00
1130/2	Cracking (RC and Other)	ft	52.00	52.00	0.00	0.00	0.00
1130/2	Cracking (RC and Other)	ft	52.00	52.00	0.00	0.00	0.00



DELAWARE
DEPARTMENT OF TRANSPORTATION

JOINT MEASUREMENT SHEET

BRIDGE: 1-740-060

Date:	4/5/16	4/4/18	4/29/20	4/25/22	4/25/24		
Inspectors:	GM/RM	JM/TL	JM/RK	JTM/JR	NTD/LGM		
Location:	SPAN 1 (S)	SPAN 1 (S)	SPAN 1 (S)	SPAN 1 (S)	SPAN 1 (S)		
Temp (°F):	32°	63°	65°	55°	54°		
Left Gap ("):	2"	2 1/4 "	2 1/4 "	2 1/8 "	2 1/8 "		
Right Gap ("):	2 1/4 "	2"	1 7/8 "	1 7/8 "	2"		
Comments:							
Location:	SPAN 1 (N)	SPAN 1 (N)	SPAN 1 (N)	SPAN 1 (N)	SPAN 1 (N)		
Temp (°F):	32°	63°	65°	55°	54°		
Left Gap ("):	2 1/8 "	2"	2"	2"	1 3/4 "		
Right Gap ("):	2 1/8 "	2 1/4 "	2 1/4 "	2 1/4 "	2 1/2 "		
Comments:							
Location:	SPAN 2	SPAN 2	SPAN 2	SPAN 2	SPAN 2		
Temp (°F):	32°	63°	65°	55°	54°		
Left Gap ("):	1 3/4 "	2 1/4 "	2"	2"	2"		
Right Gap ("):	2 3/8 "	1 1/2 "	1 1/4 "	1 1/4 "	1 1/4 "		
Comments:							
Location:	SPAN 3	SPAN 3	SPAN 3	SPAN 3	SPAN 3		
Temp (°F):	32°	63°	65°	55°	54°		
Left Gap ("):	2 1/4 "	2 1/8 "	2 1/8 "	2 1/4 "	2 1/4 "		
Right Gap ("):	2 1/8 "	2 1/4 "	2 1/4 "	2 1/4 "	2 1/4 "		
Comments:							
Location:							
Temp (°F):							
Left Gap ("):							
Right Gap ("):							
Comments:							

Note: Joints are measured at solid lines unless a comment states otherwise. Left and right is determined by looking from span 1 and towards increasing roadway stationing.

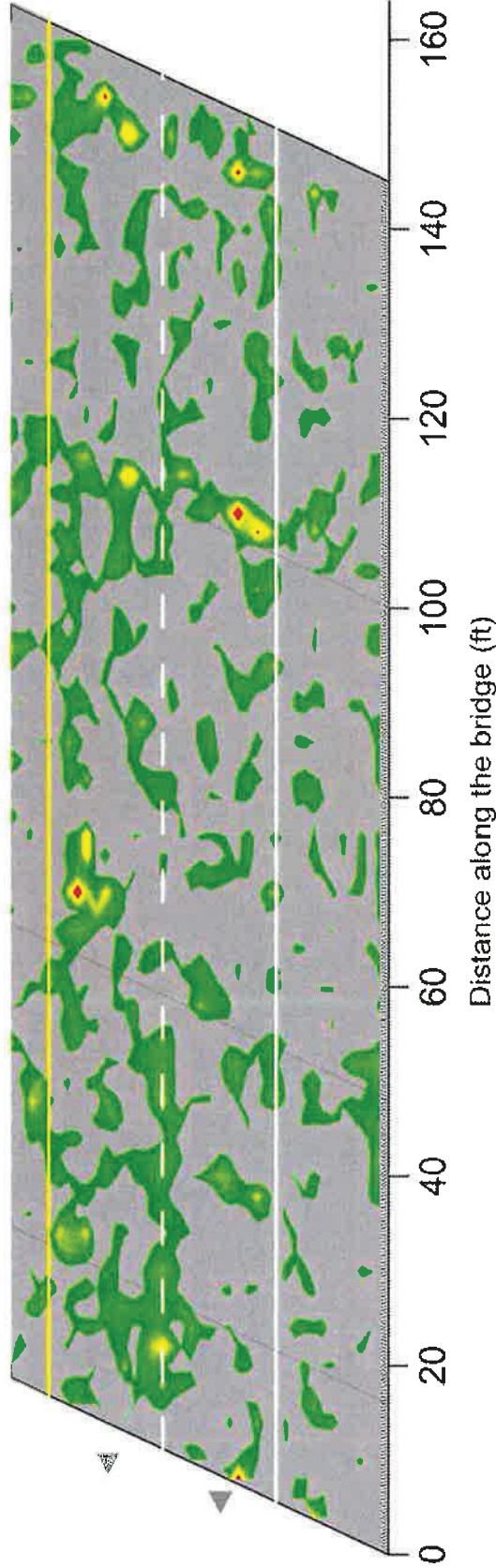
South Abutment

Pier 1

Pier 2

Pier 3

North Abutment



Concrete Condition Legend		Orientation		Quantity Summary			General Information	
POOR	FAIR	GOOD	INTACT		Concrete Condition	s.f.	%	Bridge ID: 1 740 060 RAMP 6107 Tested on 2/8/2021 Analyzed by: MAL Reviewed by: JAC Completed: 12/17/2021
					Intact	5154.0	76.8	
					Good	1539.5	22.9	
					Fair	18.6	0.3	
					Poor	2.9	0.0	Sheet 1 of 1
					Quantity Summary	6715.0		



UNDER RECORD

For

Bridge No: 1740 060

One Route Under

IDENTIFICATION

Bridge ID: 1740 060

5) Inventory Route

A) On/Under: One Route Under

D) Route No: 00295

6A) Feature Intersected: I 295 SB

Road/Route Name: INTERSTATE I-295

16) Latitude: 39° 42' 24"

2) District: North District

B) Highway Type: 1 Interstate H

17) Longitude: 075° 35' 31"

3) County: 03 New Castle

4) Place Code: 51190

C) Service Lvl: 1 Mainline

6B) Critical: *

11) Mile Pnt: 11.657 mi

AGE AND SERVICE

19) Detour Length: 3.38

28) No. of Lanes

29) ADT: 95755

27) Year Built: 1960

A) On Bridge: 3

30) Year of ADT: 2021

B) Under Br. : 2

109) % Truck ADT: 9

CLASSIFICATION

20) Toll Facility: 3 On free road

26) Functional Class: 11 Urban Intersta

102) Direction: 1 1-way traffic

110) National Network: 1

37) Historical: 5 Not eligible for NRHP

103) Temp. Str.: [blank] Not temporary

38) Defense Hwy: 1 On Interstate STRAH

104) Hwy System: 1 On the NHS

GEOMETRIC DATA

10) Clearances - Vertical: 18.1

42) Type of Service

43 A & B) Main Span Mtrl/Design: 3 Steel

47) Inv. Route - Horiz. Clearance:

67.3

48) Maximum Span: 72.0

A) On Bridge: 6 2d level interchg

B) Under Bridge: 1 Highway

02 Stringer/Girder

49) Structure Length: 145.0



DELAWARE
DEPARTMENT OF TRANSPORTATION

UNDER RECORD SKETCH SHEET

BRIDGE: 1-740-060

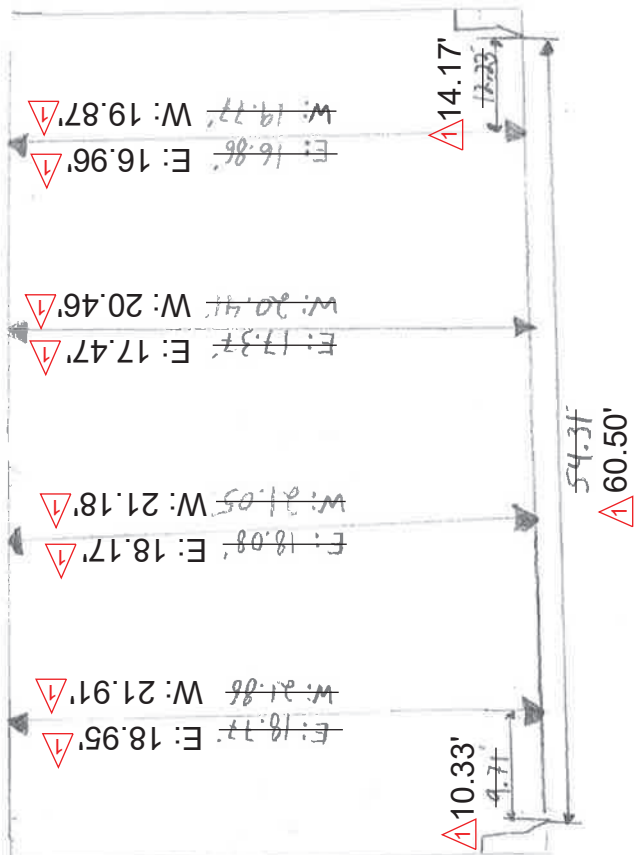
INSPECTED BY: JTM/JR

DATE: 4/25/22

4/25/2024 - NTD/LGM

△ = CHANGED

EAST ELEVATION



(NC-22)



1 NORTH APPROACH, LOOKING SOUTH



2 EAST ELEVATION, LOOKING WEST



3 GENERAL VIEW OF SUPERSTRUCTURE (SPAN 2 SHOWN), LOOKING NORTH



4 UNDER RECORD (SPAN 2 OVER I-95SB), LOOKING WEST



5 UNDER RECORD (SPAN 2 OVER I-95SB), LOOKING EAST



6 GENERAL TOP OF DECK (SPAN 1 SHOWN), LOOKING NORTH



7 SPAN 1, EAST THRIE BEAM AT SOUTH ABUTMENT - IMPACT DAMAGE



8 SPAN 1, EAST ALUMINUM RAIL BETWEEN POSTS 5 AND 6 - DISTORTION WITH CRACK



9 SPAN 1, SOUTH ABUTMENT STRIP SEAL - JOINT ARMORING HAS CORROSION WITH SECTION LOSS



10 SPAN 2, SPAN IS HORIZONTALLY MISALIGNED TOWARDS THE EAST AT THE NORTH ABUTMENT



11 SPAN 3, EAST DRAIN - FULLY CLOGGED



12 SPAN 1, SOFFIT IN BAY 2 AT SOUTH ABUTMENT - SPALL EXPOSING TOP FLANGE OF GIRDER



13 SPAN 1, BAY 3 END DIAPHRAGM AT SOUTH ABUTMENT - CORROSION AND PACK RUST CAUSING DISTORTION TO ANGLE



14 SPAN 1, GIRDER 5 WEST BOTTOM FLANGE AT SOUTH ABUTMENT - CORROSION WITH LOSS OF SECTION



15 SPAN 2, GIRDER 5, EAST BOTTOM FLANGE AT PIER 1 - CORROSION WITH LOSS OF SECTION



16 SPAN 3, BAY 4 DIAPHRAGM AT NORTH ABUTMENT - PAINTED OVER SECTION LOSS IN BOTTOM ANGLE



17 SPAN 1, BEARING 6 AT PIER 1, NORTH FACE - CORROSION AND LOSS OF SECTION TO MASONRY PLATE



18 SPAN 3, BEARING 6 AT PIER 2 - TYPICAL GIRDER OVERHANGING BEARING



19 SPAN 1, SOUTH ABUTMENT, BEARING 5 SEAT, EAST FACE - HORIZONTAL CRACKS WITH CORROSION STAINING



20 SPAN 1, SOUTH ABUTMENT, BREASTWALL BELOW GIRDER 6 - SPALL WITH ECSR AND SECTION LOSS



21 SPAN 3, NORTH ABUTMENT BEARING 5 SEAT BELOW BAY 5 - SPALL WITH ECSR AND SECTION LOSS



22 SPAN 3, NORTH ABUTMENT BACKWALL, WEST END - SPALL WITH ECSR AND SECTION LOSS



23 SPAN 3, NORTH ABUTMENT BREASTWALL BELOW BAY 5 - SPALL WITH ECSR



24 SPAN 1, PIER 1, SOUTH FACE OF CAP ABOVE COLUMN 3 - CRACK WITH CORROSION STAINING



25 SPAN 2, PIER 2, UNDERSIDE OF CAP BETWEEN COLUMNS 2 AND 3 - LONGITUDINAL CRACKS



26 SOUTHEAST EMBANKMENT - EROSION BEHIND GUARDRAIL AT TRANSITION GUARDRAIL

Bridge Maximo Maintenance History

WO Number	Reported Date	District	Area	Reported By	Changed By	Employee Name	Status	Wo Description	Priority	Function Code	FC Description	Unit of Measure	QA	Total Cost
222616	03/20/2008	NORTH	48	Moore,Ricky Lee	126942	Beck,Crystal Leigh	CLOSE	BR: 1-740-060 / WORK:B002-S1G	3	11100.2	Bridge - B002-S1G - Clean/Flush Scupper/ Downspouting	Each	0	\$0.00
222619	03/20/2008	NORTH	48	Moore,Ricky Lee	113013	Morrison,Dawn T	CLOSE	BR: 1-740-060 / WORK:B055-V1A	3	11105.5	Bridge - B055-V1A - Vegetation/ Debris (Removal)	Cube Yd	1	\$753.38
222620	03/20/2008	NORTH	48	Moore,Ricky Lee	113013	Morrison,Dawn T	CAN	BR: 1-740-060 / WORK:B025-P1A	3	11102.5	Bridge - B025-P1A - Concrete Deck (Repair)	Sq Yd		\$0.00
224657	04/01/2008	NORTH	15	Moore,Ricky Lee	113013	Morrison,Dawn T	CLOSE	BR: 1-740-060 / WORK:B007-S1H	3	11100.7	Bridge - B007-S1H - Reseal Deck Joints (Liquid Only)	Feet	50	\$668.15
224661	04/01/2008	NORTH	15	Moore,Ricky Lee	113013	Morrison,Dawn T	CLOSE	BR: 1-740-060 / WORK:B054-S6D	3	11105.4	Bridge - B054-S6D - Scour Hole	Cube Yd	20	\$748.52
354011	03/03/2010	NORTH	15	Mortensen,Matthew J	113013	Morrison,Dawn T	CLOSE	BR: 1-740-060 / WORK: B002-S1G	2	11100.2	Bridge - B002-S1G - Clean/Flush Scupper/ Downspouting	Each	3	\$200.90
354018	03/03/2010	NORTH	15	Mortensen,Matthew J	113013	Morrison,Dawn T	CLOSE	BR: 1-740-060 / WORK: B055-V1A	3	11105.5	Bridge - B055-V1A - Vegetation/ Debris (Removal)	Cube Yd	2	\$1,054.50
622002	04/02/2014	NORTH	14	Moore,Ricky Lee	142311	Miller,Jamie Lynn	CLOSE	BR: 1-740-060 / WORK:B002-S1G	2	11100.2	Bridge - B002-S1G - Clean/Flush Scupper/ Downspouting	Each	0	\$0.00
761600	04/11/2016	NORTH	14	Miller,Glen A	M12339	VERMA, SUPREET	CLOSE	BR: 1-740-060 / WORK: B002-S1G	2	11100.2	Bridge - B002-S1G - Clean/Flush Scupper/ Downspouting	Each	0	\$0.00
904161	04/04/2018	NORTH	14	Masten,Joseph G	032963	Masten,Joseph G	CLOSE	BR: 1-740-060 / WORK: B025-P1A	2	11102.5	Bridge - B025-P1A - Concrete Deck (Repair)	Sq Yd	0	\$0.00
904165	04/04/2018	NORTH	14	Masten,Joseph G	032963	Masten,Joseph G	CLOSE	BR: 1-740-060 / WORK: B002-S1G	2	11100.2	Bridge - B002-S1G - Clean/Flush Scupper/ Downspouting	Each	0	\$0.00
1059652	04/30/2020	NORTH	14	Masten,Joseph G	193479	Ridley,Joanna	CLOSE	BR: 1-740-060 / WORK: B002-S1G	3	11100.2	Bridge - B002-S1G - Clean/Flush Scupper/ Downspouting	Each	0	\$0.00
1203025	04/26/2022	NORTH	14	Ridley,Joanna	105809	Baker,Joseph Troy	WAPPR	BR: 1-740-060 / WORK: B002-S1G	2	11100.2	Bridge - B002-S1G - Clean/Flush Scupper/ Downspouting	Each		\$0.00
1357035	07/24/2024	NORTH	15	Mortensen,Matthew J	124426	Mortensen,Matthew J	WAPPR	BR: 1-740-060 / WORK:B054-S6D	3	11105.4	Bridge - B054-S6D - Scour Hole	Cube Yd		\$0.00
1357036	07/24/2024	NORTH	14	Mortensen,Matthew	124426	Mortensen,Matthew	WAPPR	BR:	2	11100.2	Bridge - B002-	Each		\$0.00

Bridge Maximo Maintenance History

WO Number	Reported Date	District	Area	Reported By	Changed By	Employee Name	Status	Wo Description	Priority	Function Code	FC Description	Unit of Measure	QA	Total Cost
				J		J		1-740-060 / WORK: B002-S1G			S1G - Clean/Flush Scupper/ Downspouting			