NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PAR ISSUED. APROACH ROADWAY SKETCH UPDATED,SUPERSTRUCTURE SKETCH UPDATED, SPAN 2 EAST BOUND LANE CLEARANCE SKETCH UPDATED, SPAN 2 WEST BOUND LANE CLEARANCE UPDATED.

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 05/16/2019

DIVISION: 6 **COUNTY:** ROBESON **STRUCTURE NUMBER:** 770160 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: I95S **MILE POST:** 31.3

LOCATION: 0.2 MI. E. JCT. SR1732 0.83 MILES NORTH OF INTERSECTION WITH SR 1006

FEATURE INTERSECTED: NC20

LATITUDE: 34° 48' 40.24" **LONGITUDE:** 78° 59' 10.93"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS ON PPC PILES;INT.BTS:RCP&B

SPANS: 3 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

NBI GRADES: **DECK** 6 **SUPERSTRUCTURE** 5 **SUBSTRUCTURE** 5 **CULVERT** N

POSTED SV: Not Posted **POSTED TTST:** Not Posted

OTHER SIGNS PRESENT: 2 VERTICAL CLEARANCE SIGNS

COVER PHOTO LOOKING NORTH

Sign noticed issued for		Number Required
NO	**WEIGHT LIMIT**	0
NO	**DELINEATORS**	0
NO	**NARROW BRIDGE**	0
NO	**ONE LANE BRIDGE**	0
NO	**LOW CLEARANCE**	0

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS NO PLANS

INSPECTED BY	SIGNATURE	ASSISTED BY
JOHN T. EUBANKS	John T. Eubanks	FELTON W. BERGER

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE **770160**
(8) STRUCTURE NUMBER (FEDERAL) **1550160**
(5) INVENTORY ROUTE (ON/UNDER) ON **111000950**
(2) STATE HIGHWAY DEPARTMENT DISTRICT **6**
(3) COUNTY CODE (FEDERAL) **155** (4) PLACE CODE **58720**
(6) FEATURE INTERSECTED **NC20**
(7) FACILITY CARRIED **I95S**
(9) LOCATION **0.2 MI. E. JCT. SR1732**
(11) MILEPOINT **31.3**
(12) BASE HIGHWAY NETWORK **1**
(13) LRS INVENTORY ROUTE & SUBROUTE **10095**
(16) LATITUDE **34° 48' 40.24"** (17) LONGITUDE **78° 59' 10.93"**
(98) BORDER BRIDGE STATE CODE PERCENT SHARED
(99) BORDER BRIDGE STRUCTURE NUMBER

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN **Steel**
TYPE **Stringer/Multi-beam or girder** CODE **302**
(44) STRUCTURE TYPE APPROACH
TYPE CODE
(45) NUMBER OF SPANS IN MAIN UNIT **3**
(46) NUMBER OF SPANS IN APPROACH **0**
(107) DECK STRUCTURE TYPE CODE **1**
(108)WEARING SURFACE/PROTECTIVE SYSTEM
(A) TYPE OF WEARING SURFACE CODE **6**
(B) TYPE OF MEMBRANE CODE **0**
(C) TYPE OF DECK PROTECTION CODE **0**

AGE AND SERVICE

(27) YEAR BUILT **1959**
(106) YEAR RECONSTRUCTED **0.**
0000000000000
(42) TYPE OF SERVICE ON - **Overpass Structure**
OFF - **Highway** CODE **61**
(28) LANES ON STRUCTURE **2** LANES UNDER STRUCTURE **4**
(29) AVERAGE DAILY TRAFFIC **27750**
(30) YEAR OF ADT **2018** (109) TRUCK ADT PCT **23**
(19) BYPASS OR DETOUR LENGTH **0.0**

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN **79.0**
(49) STRUCTURE LENGTH **181.0**
(50) CURB OR SIDEWALK: LEFT **0.0** RIGHT **0.0**
(51) BRIDGE ROADWAY WIDTH, CURB TO CURB **28.0**
(52) DECK WIDTH OUT TO OUT **31.4**
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) **29.0**
(33) BRIDGE MEDIAN **Open median** CODE **1**
(34) SKEW **21** (35) STRUCTURE FLARED **0**
(10) INVENTORY ROUTE MIN VERT CLEAR **999.9**
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR **28.0**
(53) MIN VERT CLEAR OVER BRIDGE RDWY **999.9**
(54) MIN VERT UNDERCLEAR: REFERENCE **H** **14.4**
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE **H** **11.5**
(56) MIN LAT UNDERCLEARANCE LT: **99.9**

NAVIGATION DATA

(38) NAVIGATION CONTROL - CODE **N**
(111) PIER PROTECTION CODE
(39) NAVIGATION VERTICAL CLEARANCE **0.0**
(116) VERT - LIFT BRIDGE NAV MIN VERT CLEAR **0.0**
(40) NAVIGATION HORIZONTAL CLEARANCE **0.0**

SUFFICIENCY RATING **67.**
000000000000
STATUS = **Functionally Obsolete**
00

CLASSIFICATION — CODE

(112) NBIS BRIDGE SYSTEM **YES**
(104) HIGHWAY SYSTEM **Inventory Route is on NHS** **1**
(26) FUNCTIONAL CLASS **Rural Principal Arterial - Interstate** **01**
(100) STRAHNET HIGHWAY **Interstate STRAHNET Route** **1**
(101) PARALLEL STRUCTURE **The left structure of parallel bridges** **L**
(102) DIRECTION OF TRAFFIC **1-way traffic** **1**
(103) TEMPORARY STRUCTURE
(110) DESIGNATED NATIONAL NETWORK - **on natiional network for trucks** **1**
(20) TOLL **On Free Road** **3**
(21) MAINT - **01**
(22) OWNER - **01**
(37) HISTORICAL SIGNIFICANCE - **5**

CONDITION — CODE

(58) DECK **6**
(59) SUPERSTRUCTURE **5**
(60) SUBSTRUCTURE **5**
(61) CHANNEL & CHANNEL PROTECTION **N**
(62) CULVERTS **N**

LOAD RATING AND POSTING — CODE

(31) DESIGN LOAD **H 20 + Mod** **6**
(63) OPERATING RATING METHOD - **Load Factor** **1**
(64) OPERATING RATING - **HS-32** **60**
(65) INVENTORY RATING METHOD - **1**
(66) INVENTORY RATING **HS-19** **36**
(70) BRIDGE POSTING **No Posting Required** **5**
(41) STRUCTURE OPEN, POSTED, OR CLOSED **A**
DESCRIPTION **Open, no restriction**

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION **5**
(68) DECK GEOMETRY **2**
(69) UNDERCLEARANCES, VERT & HORIZ **5**
(71) WATERWAY ADEQUACY **5**
(72) APPROACH ROADWAY ALIGNMENT **2**
(36) TRAFFIC SAFETY FEATURES **1111**
(113) SCOUR CRITICAL BRIDGES **N**

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK CODE
(76) LENGTH OF STRUCTURE IMPROVEMENT
(94) BRIDGE IMPROVEMENT COST
(95) ROADWAY IMPROVEMENT COST
(96) TOTAL PROJECT COST
(97) YEAR OF IMPROVEMENT COST ESTIMATE
(114) FUTURE ADT **55,500** YEAR OF FUTURE ADT **2040**

INSPECTION

(90) INSPECTION DATE **05/17** (91) FREQUENCY **24**
(92) CRITICAL FEATURE INSPECTION (93) CFI DATE
A) FRACTURE CRIT DETAIL **0** A)
B) UNDERWATER INSP **0** B)
C) OTHER SPECIAL INSP **0** C)
SCOUR

Structure Number **770160** County **ROBESON** Run Date **10/30/2019**

Span Number	Facility Carried	Inventory Route	Maximum Minimum Vertical Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	*See Note Below*					STRAHNET Highway	Direction of Traffic	National Highway System	National Truck Network
												Reference Feature	Minimum Vertical Underclearance	Rigth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade				
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	NC20W.	31000200	14.5		0		7	2	7500	2018	72.1	H	14.4	11.5	99.9	5	0	1	☐	☐

Note: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69.

Superstructure Build Details

Span Number 1 **Span Length** 50.5000 **Skew** 111.0000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
4	Movable Bearing	Movable Bearing	4	Each	Unknow	8
4	Plate Girder	Steel Open Girder/Beam	200	Feet	Unknow	1976
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1591	Square Feet		
1	Asphalt Wearing Surface	Wearing Surface	1414	Square Feet		
4	Fixed Bearing	Fixed Bearing	4	Each	Unknow	8
2	Concrete and Metal Railing	Other Bridge Railing	102	Feet		

Span Number 2 **Span Length** 80.0000 **Skew** 111.0000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
1	Standard Joint	Pourable Joint Seal	32	Feet		
2	Concrete and Metal Railing	Other Bridge Railing	160	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2520	Square Feet		
4	Movable Bearing	Movable Bearing	4	Each	Unknow	8
4	Plate Girder	Steel Open Girder/Beam	320	Feet	Unknow	3152
1	Asphalt Wearing Surface	Wearing Surface	2240	Square Feet		
4	Fixed Bearing	Fixed Bearing	4	Each	Unknow	8

Span Number 3 **Span Length** 50.5000 **Skew** 111.0000

Number of Items	Type of Component	Element Name	Quantity		Protective System Applied	Quantity (Sq Ft)
2	Concrete and Metal Railing	Other Bridge Railing	102	Feet		
1	Standard Joint	Pourable Joint Seal	32	Feet		
4	Plate Girder	Steel Open Girder/Beam	200	Feet	Unknow	1976
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1591	Square Feet		

Superstructure Build Details

4	Fixed Bearing	Fixed Bearing	4	Each	Unknow	8
4	Movable Bearing	Movable Bearing	4	Each	Unknow	8
1	Asphalt Wearing Surface	Wearing Surface	1414	Square Feet		

Structure Element Scoring

Structure Number: **770160**

Inspection Date **5/16/2019**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	0	Reinforced Concrete Deck	Deck	5702	4926	276	500	0
107	0	Steel Open Girder/Beam	Beam	720	650	56	14	0
515	107	Steel Protective Coating	Beam	7104	7084	15	3	2
205	0	Reinforced Concrete Column	Piles and Columns	4	1	1	2	0
215	0	Reinforced Concrete Abutment	Abutments	94	75	17	2	0
220	0	Reinforced Concrete Pile Cap/Footing	Footing	18	18	0	0	0
226	0	Prestressed Concrete Pile	Foundation Pile	24	24	0	0	0
226	0	Prestressed Concrete Pile	Piles and Columns	14	14	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	140	101	37	2	0
301	0	Pourable Joint Seal	Expansion Joints	64	58	6	0	0
311	0	Movable Bearing	Bearing Device	12	0	9	3	0
515	311	Steel Protective Coating	Bearing Device	24	2	14	4	4
313	0	Fixed Bearing	Bearing Device	12	4	8	0	0
515	313	Steel Protective Coating	Bearing Device	24	8	8	8	0
333	0	Other Bridge Railing	Bridge Rail	364	0	358	6	0
510	0	Wearing Surface	Wearing Surfaces	5068	5068	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **770160** Inspection Date: **05/16/2019**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	1 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	774 Square Feet
3314	Steel Open Girder/Beam	Damage	6 Feet
3314	Steel Open Girder/Beam	Corrosion	1 Feet
3348	Reinforced Concrete Column	Cracking (RC and Other)	20 Each
3348	Reinforced Concrete Column	Delamination/Spall	1 Each
3350	Reinforced Concrete Abutment	Delamination/Spall	7 Feet
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	9 Feet
3348	Reinforced Concrete Pier Cap	Exposed Rebar	1 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	51 Feet
3334	Movable Bearing	Corrosion	2 Each
3334	Movable Bearing	Connection	4 Each
3318	Other Bridge Railing	Delamination/Spall	370 Feet
3318	Other Bridge Railing	Cracking (RC and Other)	74 Feet
3318	Other Bridge Railing	Cracking	2 Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	55 Square Feet

Element Structure Maintenance Quantities

Structure Number: **770160** Inspection Date **05/16/2019**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	16	94	0	2	17	75
Beam	3314	Maintenance Steel Superstructure Components	7	720	0	14	56	650
Beam	3342	Clean and Paint Steel	17	7104	2	3	15	7084
Bearing Device	3334	Bridge Bearing	6	24	0	3	17	4
Bearing Device	3342	Clean and Paint Steel	38	48	4	12	22	10
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	446	364	0	6	358	0
Caps	3348	Maintenance of Concrete Substructure	52	140	0	2	37	101
Deck	3326	Maintenance of Concrete Deck	775	5702	0	500	276	4926
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	64	0	0	6	58
Footing	3348	Maintenance of Concrete Substructure	0	18	0	0	0	18
Foundation Pile	3348	Maintenance of Concrete Substructure	0	24	0	0	0	24
Piles and Columns	3348	Maintenance of Concrete Substructure	21	18	0	2	1	15
Wearing Surfaces	2816	Asphalt Surface Repair	0	5068	0	0	0	5068

Priority Actions Request

Structure Number 770160

Span1

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
1	Corrosion	1	Span 1 Beam 1: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR
2	Connection	1	Span 1 Beam 1 Far Bearing: EAST ANCHOR BOLT LEANING TOWARDS SOUTH PAR

3334 **Beam 4** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Connection	1	Span 1 Beam 4 Far Bearing: WEST ANCHOR BOLT LEANING TOWARDS SOUTH PAR

? Priority Action Request (PAR) 1 Assigned Routine Maintenance 2 Assigned Priority Maintenance 3 Assigned Critical Find

Element Condition and Maintenance Data

Structure Number: **770160** Inspection Date: **05/16/2019**

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,591	1,066	25	500	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	500 SF. OF TRANSVERSE AND LONGITUDINAL CRACKS UP TO 1/16" WIDE WITH EFFLORESCENCE IN BOTTOM OF DECK	3	500	500	Square Feet
12	Cracking (RC and Other)	12 - 2 FT. TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK WEST OVERHANG	2	12	12	Square Feet
12	Cracking (RC and Other)	13 - 2 FT. TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK EAST OVERHANG	2	13	13	Square Feet

General Comments

Span 1 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	49	0	1	0	Feet
515	Steel Protective Coating	494	493	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FOOT OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR	3	1	1	Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF INEFFECTIVE PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AT BENT 1	4	1	1	Square Feet

General Comments

END DIAPHRAGM WEST OVERHANG AT BENT 1: 24" X 8" X 5" DEEP SPALL WITH EXPOSED REBAR IN SOUTH FACE
END DIAPHRAGM BAY 1 AT BENT 1: 24" X 6" DELAMINATION IN SOUTH FACE

Span 1 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	49	1	0	0	Feet
515	Steel Protective Coating	494	493	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FOOT OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1	2	1		Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1	2	1	1	Square Feet

General Comments

END DIAPHRAGM BAY 2 AT BENT 1: 24" X 12" DELAMINATION IN SOUTH FACE
END DIAPHRAGM BAY 2 AT BENT 1: 2 - 18" VERTICAL HAIRLINE CRACKS IN SOUTH FACE

Span 1 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	49	1	0	0	Feet
515	Steel Protective Coating	494	493	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FOOT OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1	2	1		Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1	2	1	1	Square Feet

General Comments

END DIAPHRAGM BAY 3 AT BENT 1: 1 SF. PATCHED AREA
END DIAPHRAGM BAY 3 AT BENT 1: 18" VERTICAL HAIRLINE CRACK IN SOUTH FACE

Span 1 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	49	1	0	0	Feet
515	Steel Protective Coating	494	493	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FOOT OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1	2	1		Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F.. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1	2	1	1	Square Feet

General Comments

END DIAPHRAGM EAST OVERHANG AT BENT 1: 12" X 3" X 1" DEEP SPALL WITH EXPOSED REBAR IN EAST FACE

Span 1 Left Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	51	0	49	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Cracking	18" DIAGONAL CRACK 1/8" WIDE IN RAIL 5 FT. FROM END BENT 1	3	2	2	Feet
333	Cracking (RC and Other)	1 - 8" TRANSVERSE HAIRLINE CRACK IN RAIL	2	1	1	Feet
333	Delamination/Spall	4" DIAMETER X 1" DEEP SPALL WITH EXPOSED REBAR 5 FT. FROM END BENT 1	2	1	1	Feet
333	Delamination/Spall	51 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE	2	47	51	Feet

General Comments

Span 1 — Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	51	0	51	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Cracking (RC and Other)	3 - 18" TRANSVERSE HAIRLINE CRACKS IN CURB	2	3	6	Feet
333	Cracking (RC and Other)	3 - 8" TRANSVERSE HAIRLINE CRACKS IN RAIL	2	3	3	Feet
333	Delamination/Spall	51 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE	2	25	51	Feet
333	Distortion	MULTIPLE GOUGES UP TO 6" X 1" IN RAIL	2	20		Feet

General Comments

Span 1 — Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2	Square Feet

General Comments

Span 1 — Far Bearing

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Connection	EAST ANCHOR BOLT LEANING TOWARDS SOUTH PAR	2		1	Each
311	Corrosion	FRECKLED RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2	Square Feet

General Comments

Span 1 — Far Bearing

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	2	2	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

311	Connection	PAINTED OVER CORROSION WITH 1/4" REMAINING SECTION ON EAST ANCHOR BOLT	3	1	1	Each
311	Connection	WEST ANCHOR BOLT LEANING TOWARDS NORTH	2		1	Each

General Comments

Span 1 — Far Bearing

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	2	0	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	1/2" OF PACK RUST	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	4	2	2	Square Feet

General Comments

Span 1 — Near Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2	Square Feet

General Comments

Span 1 — Far Bearing

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Connection	WEST ANCHOR BOLT LEANING TOWARDS SOUTH PAR	2	1	1	Each
311	Corrosion	SURFACE CORROSION	2			Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2	Square Feet

General Comments

Span 2 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	2,520	2,495	25	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	16 - 2 FEET TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK EAST OVERHANG	2	16	16	Square Feet
12	Cracking (RC and Other)	9 - 2 FEET TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK WEST OVERHANG	2	9	9	Square Feet

General Comments

Span 2 Expansion Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	32	29	3	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
301	Debris Impaction	3FT DEBRIS IMPACTION	2	3		Feet

General Comments

Span 2 Beam 1

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	80	56	23	1	0	Feet
515	Steel Protective Coating	788	786	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Damage	BEAM 1 SPAN 2 HAS TWO GOUGES IN BOTTOM FLANGE STIFFENER PLATE & IS LOCATED 19FT FROM SOUTH END OF BEAM. 1 1/2" LONG X 1/4" DEEP GOUGE. 2 1/2" LONG X 1/4" DEEP GOUGE.	3	1		Feet
107	Corrosion	1 FOOT OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1	2	1		Feet
107	Corrosion	1 FOOT OF SURFACE CORROSION ON TOP FLANGE AT BENT 1	2	1		Feet
107	Damage	BEAM 1 IN SPAN 2 HAS SEVERAL SMALL KNICKS RANGING FROM 4" LONG X 3/16" DEEP TO BOTTOM FLANGE & STIFFENER PLATE LOCATED 21FT FROM SOUTH END OF BEAM.	2	1		Feet
107	Distortion	10 FEET OF VEHICLE SCRAPES WITH GOUGES UP TO 3" X 1/2" IN BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FEET FROM BENT 1	2	10		Feet
107	Distortion	10 FEET OF VEHICLE SCRAPES WITH GOUGES UP TO 3" X 1/2" IN BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FT. FROM BENT 2	2	10		Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1	2	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 2	2	1	1	Square Feet

General Comments

END DIAPHRAGM BAY 1 AT BENT 1: 4" X 2" DELAMINATION IN NORTH FACE

Span 2 Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	80	76	2	2	0	Feet
515	Steel Protective Coating	788	786	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Damage	BEAM 2 IN SPAN 2 HAS GOUGE IN BOTTOM FLANGE STIFFENER PLATE AND IS LOCATED 19FT FROM SOUTH END OF BEAM. 2 1/2" LONG X 1/4" DEEP GOUGE IN BOTTOM STIFFENER PLATE. BOTTOM FLANGE IS BOWED UPWARDS 1" FOR A LENGTH OF 2FT	3	2	2	Feet
107	Corrosion	1 F00T OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 2	2	1		Feet
107	Corrosion	1 FOOT OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1	2	1		Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1	2	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 2	2	1	1	Square Feet

General Comments

END DIAPHRAGM BAY 2 AT BENT 1: 12" X 4" DELAMINATION IN NORTH FACE

Span 2 Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	80	68	7	5	0	Feet
515	Steel Protective Coating	788	786	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Damage	BEAM 3 IN SPAN 2 BOTTOM FLANGE IS BOWED UPWARDS 1 1/4" FOR A LENGTH OF 2 FEET.	3	2	2	Feet
107	Damage	BEAM 3 IN SPAN 2 HAS A GOUGE IN BOTTOM FLANGE STIFFNER PLATE 2 1/2" LONG X 1/4" DEEP AND IS LOCATED 19 FEET FROM SOUTH END OF BEAM.	3	1		Feet
107	Damage	BEAM 3 IN SPAN 2 OVER WEST BOUND LANE IS BOWED 1" @ POINT OF IMPACT OF 19 FEET FROM NORTH END OF BEAM.	3	1		Feet
107	Damage	BEAM 3 IN SPAN 2 OVER WEST BOUND THRU LANE HAS A 3" LONG X 3/16" DEEP GOUGE IN BOTTOM FLANGE STIFFENER PLATE, & IS LOCATED 19 FEET FROM NORTH END OF BEAM.	3	1		Feet
107	Corrosion	1 FOOT OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1	2	1		Feet
107	Corrosion	1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 2	2	1		Feet
107	Distortion	5 FEET OF VEHICLE SCRAPES WITH GOUGES UP TO 3" X 1/2" IN BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FEET FROM BENT 2	2	5		Feet

515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 2	2	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1	2	1	1	Square Feet

General Comments

END DIAPHRAGM BAY 3 AT BENT 2: 4" DIAMETER DELAMINATION IN SOUTH FACE

Span 2 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	80	57	18	5	0	Feet
515	Steel Protective Coating	788	783	2	3	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Damage	BEAM 4, SPAN 2 BOTTOM FLANGE IS BOWED UPWARDS FOR 1/4" FOR A LENGTH OF 1FT.	3	1		Feet
107	Damage	BEAM 4, SPAN 2 HAS A GOUGE IN BOTTOM FLANGE STIFFENER PLATE 3 1/2" LONG X 1/4" DEEP AND IS LOCATED 18FT FROM SOUTH END OF BEAM.	3	1		Feet
107	Damage	BEAM 4, SPAN 2 IS BOWED 1" OUT OF PLUM AT POINT OF IMPACT WHICH IS LOCATED 18 FT FROM SOUTH END OF BEAM.	3	1		Feet
107	Damage	BEAM 4, SPAN 2 OVER WEST BOUND LANE IS BOWED 2' OUT OF PLUM @ POINT OF IMPACT.	3	1	1	Feet
107	Damage	BEAM 4, SPAN 2 OVER WEST BOUND LANES HAS TWO GOUGES 2 1/2" LONG X 1/4" DEEP IN BOTTOM FLANGE & STIFFENER PLATE , LOCATED 20 FEET FROM NORTH END OF BEAM.	3	1		Feet
107	Corrosion	1 FEET OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1	2	1		Feet
107	Corrosion	1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 2	2	1		Feet
107	Damage	BOTTOM FLANGE OF BEAM 4 SPAN 2 IS BOWED DOWNWARD 1/4" OVER WEST BOUND THRU LANE.	2	1	1	Feet
107	Distortion	10 FT. OF VEHICLE SCRAPES WITH GOUGES UP TO 3" X 1/2" IN BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FT. FROM BENT 2	2	10		Feet
107	Distortion	5 FEET OF VEHICLE SCRAPES WITH GOUGES UP TO 3" X 1/2" BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FEET FROM BENT 1	2	5		Feet
515	Damage	21' 1/2" LONG X 10" HIGH AREA OF PROTECTIVE COATING FLAKED OFF AND BUBBLING TO EXTERIOR SIDE OF BEAM 4 IN SPAN 2 FROM IMPACT.	3	3		Square Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1	2	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 2	2	1	1	Square Feet

General Comments

Span 2 — Left Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	80	0	80	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Cracking (RC and Other)	1 - 8" TRANSVERSE HAIRLINE CRACK IN RAIL	2	1	1	Feet
333	Cracking (RC and Other)	7 - 18" TRANSVERSE HAIRLINE CRACKS IN CURB	2	7	14	Feet
333	Delamination/Spall	80 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE	2	72	80	Feet

General Comments

Span 2 — Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	80	0	80	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Cracking (RC and Other)	5 - 18" TRANSVERSE HAIRLINE CRACKS IN CURB	2	5	10	Feet
333	Cracking (RC and Other)	8 - 8" TRANSVERSE HAIRLINE CRACKS IN RAIL	2	8	8	Feet
333	Delamination/Spall	80 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE	2	37	80	Feet
333	Distortion	MULTIPLE GOUGES UP TO 6" X 1" IN RAIL	2	30		Feet

General Comments

Span 2 — Near Bearing

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	0	1	0	Each
515	Steel Protective Coating	2	0	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	1/4" OF PACK RUST	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	2 S.F. OF INEFFECTIVE PROTECTIVE COATING	4	2	2	Square Feet

General Comments

Span 2 — Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

313	Corrosion	FRECKLED RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2	Square Feet

General Comments

Span 2 — Near Bearing

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	FRECKLED RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2	Square Feet

General Comments

Span 2 — Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2	Square Feet

General Comments

Span 2 — Near Bearing

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	FRECKLED RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2	Square Feet

General Comments

Span 2 — Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2	Square Feet

General Comments

Span 2 — Near Bearing

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 S.F. OF INEFFECTIVE PROTECTIVE COATING	3	2	2	Square Feet

General Comments

Span 2 — Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2	Square Feet

General Comments

Span 3 — Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,591	1,365	226	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	10 - 2 FEET TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK WEST OVERHANG	2	10	10	Square Feet
12	Cracking (RC and Other)	14 - 2 FOOT LONG TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK EAST OVERHANG	2	14	14	Square Feet

12	Cracking (RC and Other)	200 S.F. OF TRANSVERSE AND LONGITUDINAL HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK	2	200	200	Square Feet
12	Delamination/Spall	12" X 6" DELAMINATION IN BOTTOM OF DECK WEST OVERHANG NEAR MIDSPAN	2	1	1	Square Feet
12	Patched Areas	1 S.F. PATCHED AREA IN BOTTOM OF DECK WEST OVERHANG AT MIDSPAN	2	1		Square Feet

General Comments

FIRE DAMAGE IN SPAN 3 BAY 2 BOTTOM OF DECK

Span 3 — Expansion Joint

Standard Joint

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal	32	29	3	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
301	Debris Impaction	3FT DEBRIS IMPACTION	2	3		Feet

General Comments

Span 3 — Beam 2

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	49	1	0	0	Feet
515	Steel Protective Coating	494	492	1	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FOOT OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 2	2	1		Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF INEFFECTIVE PROTECTIVE COATING ON TOP FLANGE AT BENT 2	4	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 2	2	1	1	Square Feet

General Comments

END DIAPHRAGM BAY 2 AT BENT 2: 12" X 4" X 1" DEEP SPALL IN NORTH FACE

Span 3 — Beam 3

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	49	1	0	0	Feet
515	Steel Protective Coating	494	493	1	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FOOT OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 2	2	1		Feet
515	Effectiveness (Steel Protective Coatings)	1 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 2	2	1	1	Square Feet

General Comments

END DIAPHRAGM BAY 3 AT BENT 2: 18" X 6" DELAMINATION IN NORTH FACE

Span 3 Beam 4

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	50	49	1	0	0	Feet
515	Steel Protective Coating	494	492	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FOOT OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 2	2	1		Feet
515	Effectiveness (Steel Protective Coatings)	2 S.F. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 2	2	2	2	Square Feet

General Comments

END DIAPHRAGM EAST OVERHANG AT BENT 2: 18" X 4" DELAMINATION IN NORTHEAST CORNER

Span 3 Left Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	51	0	51	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Cracking (RC and Other)	5 - 8" TRANSVERSE HAIRLINE CRACKS IN RAIL	2	5	5	Feet
333	Cracking (RC and Other)	6 - 18" TRANSVERSE HAIRLINE CRACKS IN CURB	2	6	12	Feet
333	Delamination/Spall	4" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED REBAR IN 2ND RAIL POST FROM END BENT 2	2	1	1	Feet
333	Delamination/Spall	51 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE	2	39	51	Feet

General Comments

Span 3 Right Bridge Rail

Concrete and Metal Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other Bridge Railing	51	0	47	4	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Delamination/Spall	48" X 6" X 3" DEEP SPALL WITH EXPOSED REBAR IN CURB AT END BENT 2	3	4	4	Feet
333	Cracking (RC and Other)	2 - 8" TRANSVERSE HAIRLINE CRACKS IN RAIL	2	2	2	Feet
333	Cracking (RC and Other)	6 - 18" TRANSVERSE HAIRLINE CRACKS IN CURB	2	6	12	Feet
333	Delamination/Spall	51 FT. OF ABRASION WITH EXPOSED COARSE AGGREGATE	2	19	51	Feet
333	Distortion	MULTIPLE GOUGES UP TO 6" X 1" IN RAIL	2	20		Feet

General Comments

Span 3 — Near Bearing

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	FRECKLED RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2	Square Feet

General Comments

Span 3 — Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2	Square Feet

General Comments

Span 3 — Near Bearing

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	FRECKLED RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2	Square Feet

General Comments

Span 3 — Near Bearing

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	FRECKLED RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2	Square Feet

General Comments

Span 3 — Near Bearing

Movable Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	2	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
311	Corrosion	FRECKLED RUST	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2	Square Feet

General Comments

Span 3 — Far Bearing

Fixed Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing	1	0	1	0	0	Each
515	Steel Protective Coating	2	0	0	2	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
313	Corrosion	SURFACE CORROSION	2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	3	2	2	Square Feet

General Comments

End Bent 1 — Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	47	34	11	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
215	Cracking (RC and Other)	2 S.F. OF HAIRLINE MAP CRACKING UNDER WEST OVERHANG	3	2	2	Feet
215	Cracking (RC and Other)	12" VERTICAL HAIRLINE CRACK IN BAY 2	2	1	1	Feet
215	Cracking (RC and Other)	3 - 12" VERTICAL HAIRLINE CRACKS IN BAY 1	2	3	3	Feet
215	Cracking (RC and Other)	3 - 36" LONG VERTICAL HAIRLINE CRACKS IN BAY 3	2	3		Feet
215	Delamination/Spall	12" X 3" DELAMINATION IN BAY 2	2	1	1	Feet
215	Delamination/Spall	12" X 3" DELAMINATION IN BAY 3	2	1	1	Feet
215	Delamination/Spall	12" X 3" DELAMINATION UNDER EAST OVERHANG	2	1	1	Feet
215	Delamination/Spall	8" X 3" DELAMINATION IN BAY 1	2	1	1	Feet

General Comments

End Bent 1 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	40	33	7	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	12" VERTICAL HAIRLINE CRACK UNDER BAY 2	2	1	1	Feet
234	Cracking (RC and Other)	3 - 12" VERTICAL HAIRLINE CRACKS UNDER BAY 1	2	3	3	Feet
234	Cracking (RC and Other)	3 - 12" VERTICAL HAIRLINE CRACKS UNDER BAY 3	2	3	3	Feet

General Comments

Bent 1 — Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	30	18	12	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	2 - 36" VERTICAL HAIRLINE CRACKS IN NORTH FACE UNDER BAY 3	2	2	6	Feet
234	Cracking (RC and Other)	36" DIAGONAL HAIRLINE CRACK IN SOUTH FACE UNDER BEAM 3	2	3		Feet
234	Cracking (RC and Other)	36" VERTICAL HAIRLINE CRACK IN SOUTH FACE UNDER BAY 1	2	1	3	Feet
234	Cracking (RC and Other)	6 - 24" LONGITUDINAL HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF CAP BETWEEN COLUMNS 1 AND 2	2	6		Feet

General Comments

Bent 1 — Pile 1

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Delamination/Spall	8" DIAMETER X 1" DEEP SPALL IN NORTHWEST CORNER	3	1	1	Each

General Comments

Bent 1 — Pile 2

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	0	1	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Cracking (RC and Other)	2 - 96" VERTICAL CRACKS UP TO 1/16" WIDE IN EAST FACE	3	1	16	Each

General Comments

End Bent 2 Abutment

Reinforced Concrete Abutment

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinforced Concrete Abutment	47	41	6	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
215	Cracking (RC and Other)	12" VERTICAL HAIRLINE CRACK IN BAY 3	2	1	1	Feet
215	Cracking (RC and Other)	2 - 12" VERTICAL HAIRLINE CRACKS IN BAY 1	2	2	2	Feet
215	Delamination/Spall	10" X 3" DELAMINATION IN BAY 1	2	1	1	Feet
215	Delamination/Spall	10" X 4" DELAMINATION UNDER WEST OVERHANG	2	1	1	Feet
215	Delamination/Spall	2" DIAMETER X 1/2" DEEP SPALL UNDER WEST OVERHANG	2	1	1	Feet

General Comments

FIRE DAMAGE IN BAY 2

End Bent 2 Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	40	35	3	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	2 S.F. OF VERTICAL AND HORIZONTAL CRACKS UP TO 1/16" WIDE UNDER BAY 1	3	2	2	Feet
234	Cracking (RC and Other)	18" VERTICAL HAIRLINE CRACK UNDER BAY 1	2	1	2	Feet
234	Cracking (RC and Other)	2 - 12" VERTICAL HAIRLINE CRACKS UNDER BAY 3	2	2	2	Feet

General Comments

Bent 2 Cap 1

Reinforced Concrete Pier Cap

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	30	15	15	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	12" VERTICAL HAIRLINE CRACK IN SOUTH FACE UNDER WEST OVERHANG	2	1	1	Feet
234	Cracking (RC and Other)	3 - 18" VERTICAL HAIRLINE CRACKS IN SOUTH FACE UNDER BAY 1	2	3	6	Feet
234	Cracking (RC and Other)	36" VERTICAL HAIRLINE CRACK IN NORTH FACE UNDER BEAM 2	2	1	3	Feet
234	Cracking (RC and Other)	36" VERTICAL HAIRLINE CRACK IN NORTH FACE UNDER BEAM 3	2	1	3	Feet
234	Cracking (RC and Other)	8 - 24" LONGITUDINAL HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF CAP BETWEEN COLUMNS 1 AND 2	2	8	16	Feet
234	Exposed Rebar	3" DIAMETER X 1" DEEP SPALL WITH EXPOSED REBAR IN EAST FACE	2	1	1	Feet

General Comments

Bent 2 Pile 1

Reinforced Concrete Column

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	0	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Cracking (RC and Other)	48" VERTICAL HAIRLINE CRACK IN NORTH FACE	2	1	4	Each

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1591
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	50
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	50
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	50
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	50
Span 1	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	51
Span 1	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	51
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1414
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2520
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	80
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	80
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	80
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	80
Span 2	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	80
Span 2	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	80
Span 2	Expansion Joint	Standard Joint	Pourable Joint Seal	32
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	2240
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1591
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	50
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	50
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	50
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	50
Span 3	Left Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	51
Span 3	Right Bridge Rail	Concrete and Metal Railing	Other Bridge Railing	51
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1414
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1		Reinforced Concrete Footing	Reinforced Concrete Pile Cap/Footing	9
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	40
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	47
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	30
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2		Reinforced Concrete Footing	Reinforced Concrete Pile Cap/Footing	9
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	40
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	47

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 770160 **Inspection Date:** 05/16/2019

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	**F**	**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		**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		**0**	**3366**
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	**F**		
Superstructure Paint Code		**U**		

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	**Y**
Inspection Time	Hours	**9**
Traffic Control Time	Hours	**0**
Snooper Time	Hours	**0**
Ladder Used	YES/NO	**Y**
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: 770160 **Inspection Date:** 05/16/2019

Item	Grade	Maint Code	Qty.
Details			

Span 3 Right Bridge Rail: MULTIPLE GOUGES UP TO 6" X 1" IN RAIL

Expansion Joint : 3 FEET DEBRIS IMPACTION

Span 2 Right Bridge Rail: MULTIPLE GOUGES UP TO 6" X 1" IN RAIL

End Bent 1 Abutment/Backwall : 12" X 3" DELAMINATION IN BAY 3

Span 1 Deck: 500 SF. OF TRANSVERSE AND LONGITUDINAL CRACKS UP TO 1/16" WIDE WITH EFFLORESCENCE IN BOTTOM OF DECK

Span 1 Deck: 12 - 2 FT. TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK WEST OVERHANG

End Bent 1 Abutment/Backwall : 8" X 3" DELAMINATION IN BAY 1

Span 2 Beam 4: 10 FEET OF VEHICLE SCRAPES WITH GOUGES UP TO 3" X 1/2" IN BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FEET FROM BENT 2

Span 1 Beam 4 Far Bearing: WEST ANCHOR BOLT LEANING TOWARDS SOUTH PAR

Span 1 Beam 1: 1 FOOT OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR

Span 1 Beam 1 Far Bearing: EAST ANCHOR BOLT LEANING TOWARDS SOUTH PAR

END DIAPHRAGM WEST OVERHANG AT BENT 1: 24" X 8" X 5" DEEP SPALL WITH EXPOSED REBAR IN SOUTH FACE

Span 2 Beam 1: 1 FOOT OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 1

Span 2 Beam 3: BEAM 3 IN SPAN 2 OVER WEST BOUND LANE IS BOWED 1" @ POINT OF IMPACT OF 19FT FROM NORTH END OF BEAM.

Span 2 Beam 4: BOTTOM FLANGE OF BEAM 4 IN SPAN 2 IS BOWED DOWNWARD 1/4" OVER WEST BOUND THRU LANE.

Span 2 Beam 1: 10 FT. OF VEHICLE SCRAPES WITH GOUGES UP TO 3" X 1/2" IN BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FT. FROM BENT 2

Bent 1 Cap 1: 6 - 24" LONGITUDINAL HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF CAP BETWEEN COLUMNS 1 AND 2

Bent 1 Cap 1: 36" DIAGONAL HAIRLINE CRACK IN SOUTH FACE UNDER BEAM 3

Bent 1 Pile 1: 8" DIAMETER X 1" DEEP SPALL IN NORTHWEST CORNER

END DIAPHRAGM BAY 2 AT BENT 2: 12" X 4" X 1" DEEP SPALL IN NORTH FACE

Bent 2 Cap 1: 3" DIAMETER X 1" DEEP SPALL WITH EXPOSED REBAR IN EAST FACE

FIRE DAMAGE IN BAY 2 ABUTMENT 2

FIRE DAMAGE IN SPAN 3 BAY 2 BOTTOM OF DECK

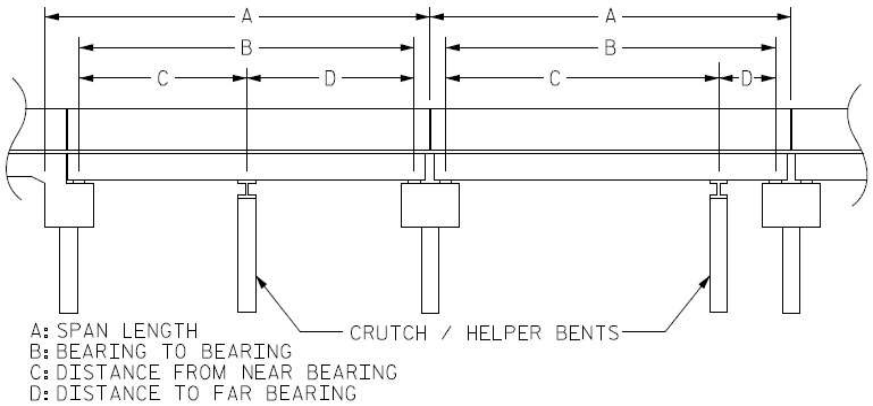
End Bent 2 Abutment/Backwall : 10" X 4" DELAMINATION UNDER WEST OVERHANG

End Bent 2 Cap 1: 2 S.F. OF VERTICAL AND HORIZONTAL CRACKS UP TO 1/16" WIDE UNDER BAY 1

Structure Data Worksheet

Span Profile

County: **ROBESON** Structure Number: **770160**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	50.500	48.500			
2	80.000	78.500			
3	50.500	48.500			

COVER PHOTO LOOKING NORTH

LEFT RAIL RIGHT RAIL SIMILAR

SOUTH APPROACH

LOOKING WEST

LOOKING EAST

NORTH APPRROACH

LOOKING SOUTH

NE GUARDRAIL TRANSITION

NE GUARD RAIL POST SPACING

NE GUARD RAIL MID POST SPACING

NE GUARD RAIL END TERNINAL

EAST ELEVATION

ABUTMENT 1

ABUTMENT 1 BEAM 3 BEARING

BENT 1

SPAN 1 SUPERSTRUCTURE

BENT 1 BEAM 4 BEARING

SPAN 2 WEST BOUND THRU LANE

SPAN 2 EAST BOUND THRU LANES

WEST ELEVATION

VERTICAL CLEARANCE SIGN 1000 FEET WEST OF BRIDGE STRUCTURE

VERTICAL CLEARANCE SIGN ADJACENT TO BRIDGE STRUCTURE

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 770160 County ROBESON Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3334	Bridge Bearings	EA	1	Span 1 Beam 1 Far Bearing: EAST ANCHOR BOLT LEANING TOWARDS SOUTH PAR	
3334	Bridge Bearings	EA	1	Span 1 Beam 4 Far Bearing: WEST ANCHOR BOLT LEANING TOWARDS SOUTH PAR	
3314	Maintain Steel Superstructure Components	LF	1	Span 1 Beam 1: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 770160 County ROBESON

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

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:	
Bent/Span No.	

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
05/16/2019	JOHN EUBANKS	

Details
Span 1 Beam 1 Far Bearing: EAST ANCHOR BOLT LEANING TOWARDS SOUTH PAR

MMS Code	MMS Description	Quantity
3334	Bridge Bearings	1 EA

Location:	
Bent/Span No.	

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
05/16/2019	JOHN EUBANKS	

Details
Span 1 Beam 4 Far Bearing: WEST ANCHOR BOLT LEANING TOWARDS SOUTH PAR

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 770160 County ROBESON

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF

Location:		
Bent/Span No.		
Priority Level	Status	
Recommended	Routine Maintenance	
Submitted Date:	Submitted By:	Assisted By:
05/20/2019	JOHN EUBANKS	

Details

Span 1 Beam 1: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR

Bridge Inspection Field Sketch

Roadway	23.5 ft Wide	2 Paved Lanes	Looking South
Left Shoulder	2.667ft Wide	2.667ft Paved	
Right Shoulder	2.667ft Wide	2.667ft Paved	
Left Guardrail	2.667ft from road		
Right Guardrail	2.667ft from road		

MEASUREMENTS TAKEN AT END BENT 2

MEASUREMENTS UPDATED 5/16/2019 BY JTE

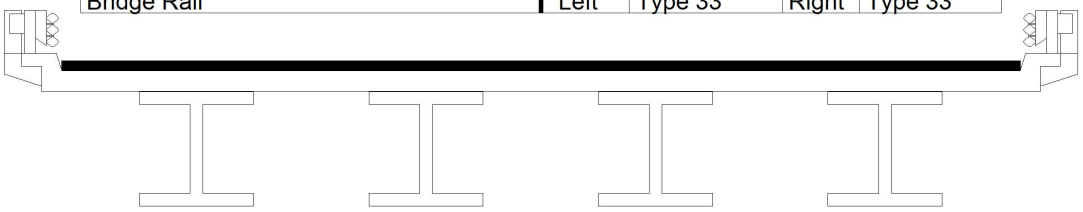
MEASUREMENTS UPDATED 5/9/2017 BY DRW

Title	**Description**
APPROACH ROADWAY	LOOKING NORTH

Bridge No: 770160	**Drawn By:** RLK	**Date:** 5/23/2011	**File Name:** S0098000568

Bridge Inspection Field Sketch

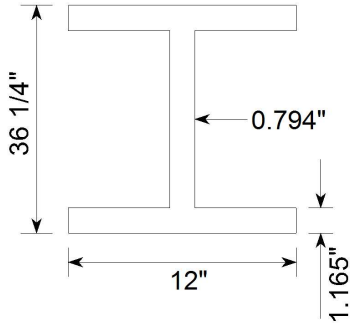
Deck Width/Out to Out	33.417ft	Between Rails			28ft
Clear Roadway	28ft	Wearing Surface			0.292ft
Median Width		Median Height			
Curb Height		Left	0.67ft	Right	0.67ft
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left	2.708ft	Right	2.708ft
Top of Rail to Deck/Wearing Surface		Left	2.55ft	Right	2.55ft
Bridge Rail		Left	Type 33	Right	Type 33



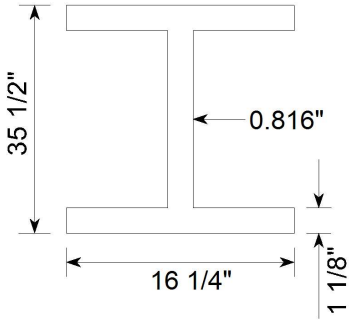
Measurements for Span #	1	SPANS 2 & 3 SIMILAR	
Deck Thickness	0.604	Left Overhang	4.708
Top of Rail to Bottom of Beam	6.3	Right Overhang	4.708

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	

ALL BEAMS HAVE TAPERED FLANGES
SPAN 2 BEAMS HAVE COVERPLATE ON BOTTOM FLANGE



SPANS 1 AND 3



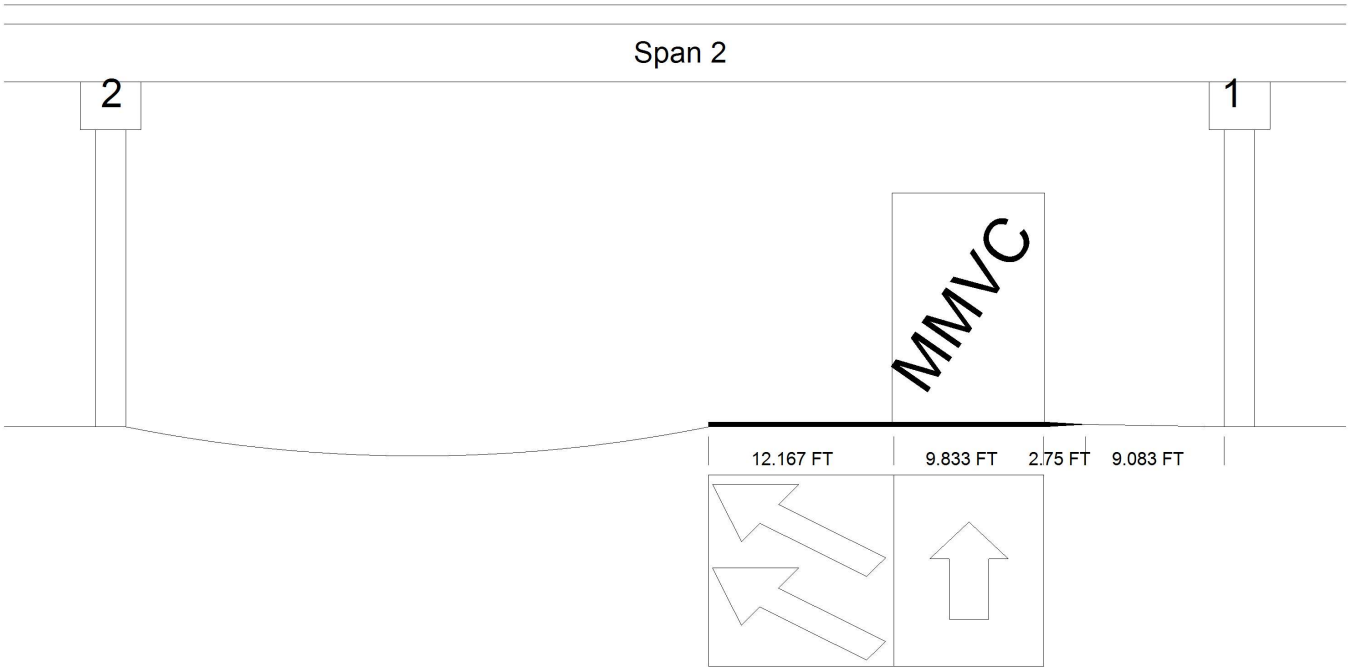
SPAN 2

MEASUREMENTS UPDATED 5/16/2019 BY JTE
MEASUREMENTS UPDATED 5/9/2017 BY DRW

Title	Description
SUPERSTRUCTURE	SIMILAR SECTION

Bridge No:	Drawn By:	Date:	File Name:
770160	RBH	01/01/08	S0098000569

Bridge Inspection Field Sketch



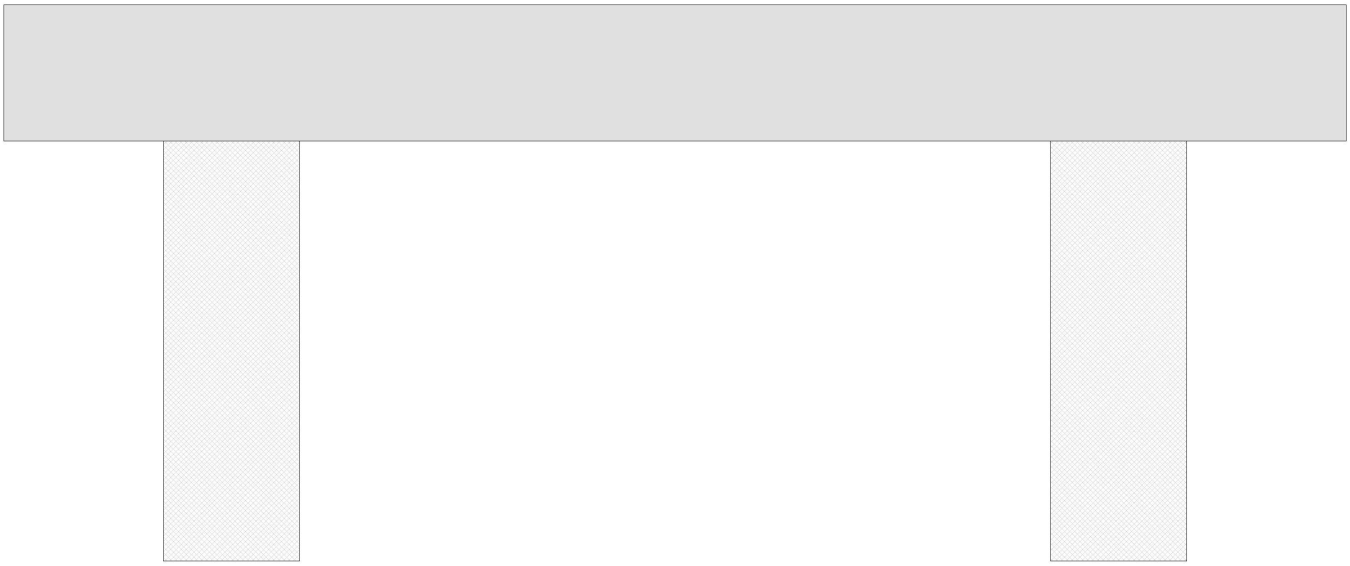
Roadway 1		Direction of Traffic	East
Distance to Left Rail		Distance to Right Rail	
Distance to Left Toe of Slope		Distance to Left Bent	50.417FT
Distance to Right Toe of Slope		Distance to Right Bent	11.833FT
MMVC	14.9 Ft at Beam 1, 10 FT from RIGHT EDGE OF PAVEMENT		
MVC	14.5 Ft at Beam 1, 0 FT from LEFT EDGE OF TRAVEL LANES		

MEASUREMENTS UPDATED 5/16/2019 BY JTE

MEASUREMENTS UPDATED 5/9/2017 BY DRW

Title	**Description**		
SPAN 2 EBL CLEARANCE	SPAN 2 EBL		
Bridge No: 770160	**Drawn By:** RLK	**Date:** 5/21/2013	**File Name:** S0098000570

Bridge Inspection Field Sketch



Cap Information			Material Cast-in-Place Concrete			
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.
29.500 ft.	2.500 ft.	3.000 ft.	5.000 ft.	5.000 ft.	1.865 ft.	1.865 ft.

Subcap Information			Material		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information			Material
Length	Width	Height	

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	19.5 ft.	3 ft.	2.5 ft.		Vertical	No	No	No	No
2	Concrete		3 ft.	2.5 ft.		Vertical	No	No	No	No

MEASUREMENTS VERIFIED 5/16/2019 BY JTE

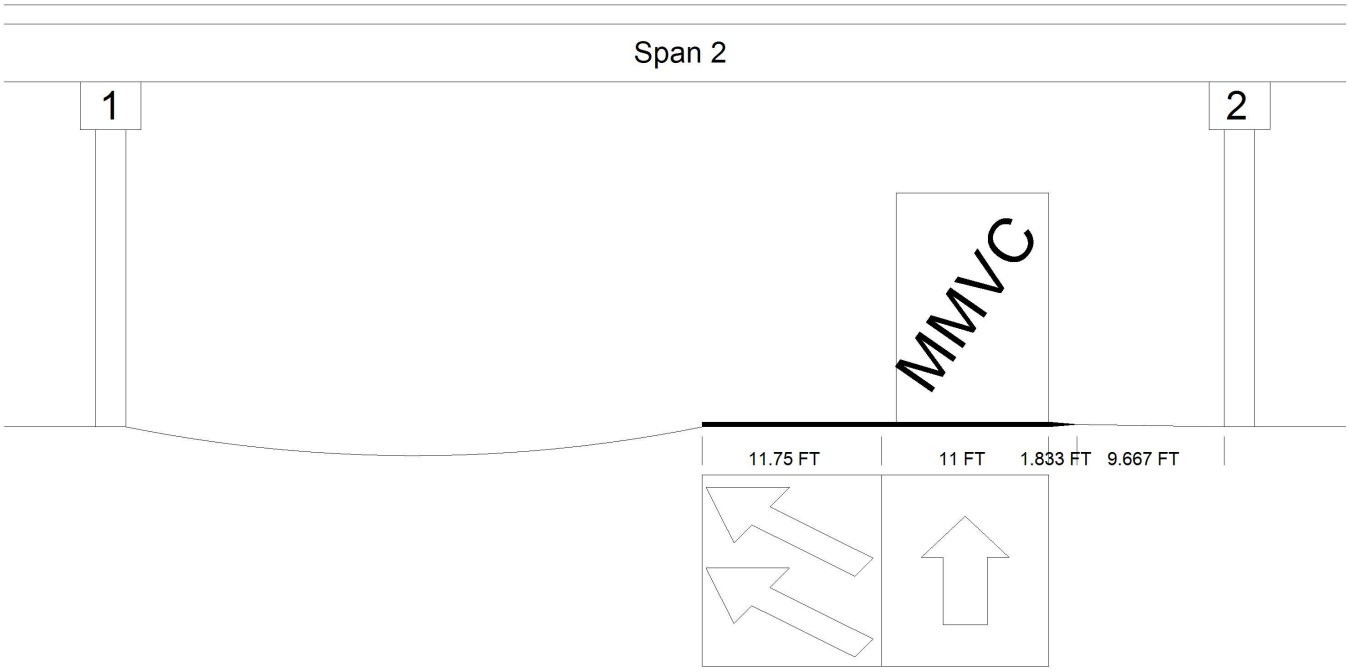
Bent/Abutment #: 1 Similar Bents: 2

Title MEASUREMENTS VERIFIED 5/9/2017 BY DRW
SUBSTRUCTURE

Description
BENT 1

Bridge No: 770160 **Drawn By:** RLK **Date:** 6/4/2009 **File Name:** S0098000824

Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	West
Distance to Left Rail		Distance to Right Rail	
Distance to Left Toe of Slope		Distance to Left Bent	49.583FT
Distance to Right Toe of Slope		Distance to Right Bent	11.5FT
MMVC	14.5 Ft at Beam 1, 10 FT from RIGHT EDGE OF PAVEMENT		
MVC	14.4 Ft at Beam 1, 0 FT from LEFT EDGE OF TRAVEL LANES		

MEASUREMENTS UPDATED 5/16/2019 BY JTE
MEASUREMENTS UPDATED 5/9/2017 BY DRW

Title	**Description**
SPAN 2 WBL CLEARANCE	SPAN 2 WBL CLEARANCE

Bridge No:	**Drawn By:**	**Date:**	**File Name:**
770160	RLK	5/21/2013	S0098001414