NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PAR ISSUED, UPDATED STRUCTURE DATA WORKSHEET, UPDATED SUPERSTRUCTURE SKETCH, UPDATED SPAN 2 EAST BOUND LANE CLEARANCE SKETCH, UPDATED SPAN 2 WEST BOUND LANE CLEARANCE SKETCH.

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 05/15/2019

DIVISION: 6 **COUNTY:** ROBESON **STRUCTURE NUMBER:** 770159 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: I95NBL **MILE POST:** 31.3

LOCATION: 0.2MI.E. OF JCT.SR1732

FEATURE INTERSECTED: NC20

LATITUDE: 34° 48' 39.84" **LONGITUDE:** 78° 59' 10.35"

SUPERSTRUCTURE: REINFORCED CONCRETE FLOOR ON I-BEAMS

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

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 SHEET 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

NATIONAL BRIDGE INVENTROY ----- STRUCTURE INVENTORY AND APPRAISAL

IDENTIFICATION

(1) STATE NAME NORTH CAROLINA BRIDGE **770159**
(8) STRUCTURE NUMBER (FEDERAL) **1550159**
(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 **I95NBL**
(9) LOCATION **0.2MI.E. OF JCT.SR1732**
(11) MILEPOINT **31.3**
(12) BASE HIGHWAY NETWORK **1**
(13) LRS INVENTORY ROUTE & SUBROUTE **10095**
(16) LATITUDE **34° 48' 39.84"** (17) LONGITUDE **78° 59' 10.35"**
(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 **0.000000**
(42) TYPE OF SERVICE ON - **Overpass Structure**
OFF - **Highway** CODE **61**
(28) LANES ON STRUCTURE **2** LANES UNDER STRUCTURE **4**
(29) AVERAGE DAILY TRAFFIC **22500**
(30) YEAR OF ADT **2015** (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 **33.4**
(32) APPROACH ROADWAY WITH (W/ SHOULDERS) **30.0**
(33) BRIDGE MEDIAN **Open median** CODE **1**
(34) SKEW **21** (35) STRUCTURE FLARED **1**
(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** **14.8**
(55) MIN LAT UNDERCLEARANCE RT: REFERENCE **H** **11.7**
(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 **68.000000**
STATUS = **Functionally Obsolete**

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 right structure of parallel bridges** **R**
(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 **6**
(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 **45,000** 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 **770159** County **ROBESON** Run Date **09/27/2019**

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	NC20E	31000200	15.1		0		7	2	6500	2015	71.7	H	14.8	11.7	99.9	6	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)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1591 Square Feet		
3	Plate Girder	Steel Open Girder/Beam	150 Feet	Unknow	1482
4	Fixed Bearing	Fixed Bearing	4 Each	Unknow	8
1	Plate Girder	Steel Open Girder/Beam	50 Feet	Enamel	494
4	Movable Bearing	Movable Bearing	4 Each	Unknow	8
2	Concrete and Metal Railing	Other Bridge Railing	102 Feet		
1	Asphalt Wearing Surface	Wearing Surface	1414 Square 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)
2	Concrete and Metal Railing	Other Bridge Railing	160 Feet		
1	Standard Joint	Pourable Joint Seal	32 Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2520 Square Feet		
4	Plate Girder	Steel Open Girder/Beam	320 Feet	Unknow	3152
4	Movable Bearing	Movable Bearing	4 Each	Unknow	8
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		
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	Movable Bearing	Movable Bearing	4	Each	Unknow	8
1	Standard Joint	Pourable Joint Seal	32	Feet		
4	Fixed Bearing	Fixed Bearing	4	Each	Unknow	8
1	Asphalt Wearing Surface	Wearing Surface	1414	Square Feet		

Structure Element Scoring

Structure Number: **770159**

Inspection Date **5/15/2019**

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	4611	591	500	0
107	0	Steel Open Girder/Beam	Beam	720	680	31	9	0
515	107	Steel Protective Coating	Beam	7104	7081	12	2	9
205	0	Reinforced Concrete Column	Piles and Columns	4	1	2	1	0
215	0	Reinforced Concrete Abutment	Abutments	94	62	18	14	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	88	25	25	2
301	0	Pourable Joint Seal	Expansion Joints	64	58	6	0	0
311	0	Movable Bearing	Bearing Device	12	0	5	7	0
515	311	Steel Protective Coating	Bearing Device	24	0	10	0	14
313	0	Fixed Bearing	Bearing Device	12	3	9	0	0
515	313	Steel Protective Coating	Bearing Device	24	6	14	4	0
333	0	Other Bridge Railing	Bridge Rail	364	214	146	4	0
510	0	Wearing Surface	Wearing Surfaces	5068	5068	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **770159** Inspection Date: **05/15/2019**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Cracking (RC and Other)	1088 Square Feet
3326	Reinforced Concrete Deck	Delamination/Spall	3 Square Feet
3314	Steel Open Girder/Beam	Corrosion	8 Feet
3348	Reinforced Concrete Column	Cracking (RC and Other)	16 Each
3348	Reinforced Concrete Column	Delamination/Spall	1 Each
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	33 Feet
3350	Reinforced Concrete Abutment	Delamination/Spall	9 Feet
3348	Reinforced Concrete Pier Cap	Patched Area	2 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	2 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	62 Feet
3334	Movable Bearing	Corrosion	6 Each
3334	Movable Bearing	Connection	2 Each
3318	Other Bridge Railing	Delamination/Spall	8 Feet
3318	Other Bridge Railing	Cracking (RC and Other)	75 Feet
3318	Other Bridge Railing	Distortion	1 Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	65 Square Feet

Element Structure Maintenance Quantities

Structure Number: **770159** Inspection Date **05/15/2019**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	42	94	0	14	18	62
Beam	3314	Maintenance Steel Superstructure Components	8	720	0	9	31	680
Beam	3342	Clean and Paint Steel	23	7104	9	2	12	7081
Bearing Device	3334	Bridge Bearing	8	24	0	7	14	3
Bearing Device	3342	Clean and Paint Steel	42	48	14	4	24	6
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	84	364	0	4	146	214
Caps	3348	Maintenance of Concrete Substructure	66	140	2	25	25	88
Deck	3326	Maintenance of Concrete Deck	1091	5702	0	500	591	4611
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	17	18	0	1	2	15
Wearing Surfaces	2816	Asphalt Surface Repair	0	5068	0	0	0	5068

Priority Actions Request

Structure Number 770159

Span1

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
1	Corrosion	0	Span 1 Beam 1: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR

3314 **Beam 2** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
1	Corrosion	1	Span 1 Beam 2: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR

3314 **Beam 3** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
1	Corrosion	1	Span 1 Beam 3: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR

Span2

3314 **Beam 1** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 1: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR

3314 **Beam 4** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 4: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 PAR

Span3

3314 **Beam 3** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 3 Beam 3: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AND 1/4" REMAINING SECTION IN BEARING STIFFENER AT BENT 2 PAR

3334 **Beam 4** Plate Girder

Priority Level	Defect Type	Quantity	Defect Description

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

Priority Actions Request

Structure Number **770159**

2	Connection	1	Span 3 Beam 4 Near Bearing: EAST AND WEST ANCHOR BOLT LEANING TOWARDS NORTH

3318 **Right Bridge Rail** Concrete and Metal Railing

Priority Level	Defect Type	Quantity	Defect Description
2	Distortion	1	Span 3 Right Bridge Rail: IMPACT DAMAGE TO END OF BRIDGE RAIL

Bent 2

3348 **Cap 1** Reinforced Concrete Pier Cap

Priority Level	Defect Type	Quantity	Defect Description
2	Patched Area	2	Bent 2 Cap 1: 18" X 6" X 4" FAILED PATCH WITH 4" X 1 1/2" LOSS OF BEARING AREA IN NORTH FACE UNDER BEAM 3 PAR

General Comments and Misc Items

General Comments and Misc Items General Comments and Misc Items

Priority Level	Defect Type	Quantity	Defect Description
2		1	END DIAPHRAGM BAY 2 AT BENT 2: 12" X 3" X 2" DEEP SPALL WITH EXPOSED REBAR IN NORTH FACE PAR

Element Condition and Maintenance Data

Structure Number: **770159** Inspection Date: **05/15/2019**

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	1,067	24	500	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	500 SF. OF HAIRLINE MAP AND TRANSVERSE CRACKING WITH EFFLORESCENCE IN BOTTOM OF DECK	3	500	500	Square Feet
12	Cracking (RC and Other)	11 - 2 FT. TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK WEST OVERHANG	2	11	11	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 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	49	2	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Cracking (RC and Other)	1 - 18" TRANSVERSE HAIRLINE CRACK IN CURB	2	1	2	Feet
333	Cracking (RC and Other)	1 - 8" TRANSVERSE HAIRLINE CRACK IN RAIL	2	1	1	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	22	26	3	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Delamination/Spall	12" X 2" X 2" DEEP SPALL WITH EXPOSED REBAR IN BRIDGE RAIL POST 20 FT. FROM BENT 1	3	1	1	Feet
333	Delamination/Spall	12" X 3" X 2" DEEP SPALL IN BRIDGE RAIL POST 15 FT. FROM END BENT 1	3	1	1	Feet
333	Delamination/Spall	8" DIAMETER X 2" DEEP SPALL IN END POST AT END BENT 1	3	1	1	Feet
333	Cracking (RC and Other)	2 - 18" TRANSVERSE HAIRLINE CRACKS IN CURB	2	2	4	Feet
333	Cracking (RC and Other)	4 - 8" TRANSVERSE HAIRLINE CRACKS IN RAIL	2	4	4	Feet
333	Distortion	MULTIPLE GOUGES UP TO 8" X 2" IN RAIL	2	20		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 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR	3	1		Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. 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: 12" 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	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 FT. 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 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AT BENT 1	4	1	1	Square Feet

General Comments

END DIAPHRAGM BAY 2 AT BENT 1: 18" VERTICAL HAIRLINE CRACK 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	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 FT. 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 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AT BENT 1	4	1	1	Square Feet

General Comments

END DIAPHRAGM BAY 3 AT BENT 1: 18" X 6" DELAMINATION 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	494	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PAINTED OVER PITTING 1/16" DEEP IN WEB AROUND END DIAPHRAGM AT BENT 1	2	1		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	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 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	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	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 — 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	1/4" 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	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 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	1/4" 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 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	2,485	35	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	16 - 2 FT. TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK WEST OVERHANG	2	16	16	Square Feet
12	Cracking (RC and Other)	17 - 2 FT. TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK EAST OVERHANG	2	17	17	Square Feet
12	Delamination/Spall	20" DIAMETER DELAMINATION IN BOTTOM OF DECK EAST OVERHANG 10 FT. FROM BENT 2. PAINTED OVER SPALL	2	2	2	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 OF DEBRIS IMPACTION	2	3		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	65	15	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Cracking (RC and Other)	4 - 8" TRANSVERSE HAIRLINE CRACKS IN RAIL	2	4	4	Feet
333	Cracking (RC and Other)	5 - 18" TRANSVERSE HAIRLINE CRACKS IN CURB	2	5	10	Feet
333	Delamination/Spall	24" X 6" DELAMINATION IN CURB NEAR BENT 1	2	2	2	Feet
333	Delamination/Spall	36" X 6" DELAMINATION IN CURB NEAR MIDSPAN	2	3	3	Feet
333	Distortion	4" X 1" GOUGE IN RAIL 3 FT. FROM BENT 1	2	1		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	10	70	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Cracking (RC and Other)	10 - 18" TRANSVERSE HAIRLINE CRACKS IN CURB	2	10	20	Feet
333	Cracking (RC and Other)	10 - 8" TRANSVERSE HAIRLINE CRACKS IN RAIL	2	10	10	Feet
333	Distortion	MULTIPLE GOUGES UP TO 8" X 2" IN RAIL	2	50		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	72	6	2	0	Feet
515	Steel Protective Coating	788	786	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR	3	1	1	Feet
107	Corrosion	1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 PAR	3	1	1	Feet

107	Distortion	1 FT. OF VEHICLE SCRAPES IN BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FT. FROM BENT 1	2	1		Feet
107	Distortion	5 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	5		Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AT BENT 1	4	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AT BENT 2	4	1	1	Square Feet

General Comments

END DIAPHRAGM WEST OVERHANG AT BENT 1: 12" X 8" DELAMINATION
END DIAPHRAGM BAY 1 AT BENT 1: 6" DIAMETER DELAMINATION

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	72	6	2	0	Feet
515	Steel Protective Coating	788	786	0	0	2	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AND 1/4" REMAINING SECTION IN BEARING STIFFENER AT BENT 2 (PM)	3	1	1	Feet
107	Corrosion	1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 (PM)	3	1	1	Feet
107	Distortion	1 FT. OF VEHICLE SCRAPES IN BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FT. FROM BENT 1	2	1		Feet
107	Distortion	5 FT. OF VEHICLE SCRAPES IN BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FT. FROM BENT 2	2	5		Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 2	4	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AT BENT 1	4	1	1	Square Feet

General Comments

END DIAPHRAGM BAY 2 AT BENT 1: 6" DIAMETER DELAMINATION AND 36" HORIZONTAL CRACK 1/16" WIDE

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	72	8	0	0	Feet
515	Steel Protective Coating	788	787	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PAINTED OVER PITTING 1/16" DEEP IN WEB AROUND END DIAPHRAGM AT BENT 1	2	1		Feet
107	Corrosion	1 FT. OF SURFACE CORROSION ON WEB AROUND END DIAPHRAGM AT BENT 2	2	1		Feet
107	Distortion	1 FT. OF VEHICLE SCRAPES IN BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FT. FROM BENT 1	2	1		Feet
107	Distortion	5 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	5		Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AT BENT 2	3	1	1	Square Feet

General Comments

END DIAPHRAGM BAY 3 AT BENT 1: 2 - 12" DIAMETER X 1/2" DEEP SPALLS

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	72	7	1	0	Feet
515	Steel Protective Coating	788	787	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 PAR	3	1	1	Feet
107	Corrosion	1 FT. OF PAINTED OVER PITTING 1/16" DEEP IN WEB AROUND END DIAPHRAGM AT BENT 1	2	1		Feet
107	Distortion	1 FT. OF VEHICLE SCRAPES IN BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FT. FROM BENT 1	2	1		Feet
107	Distortion	5 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	5		Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AT BENT 2	4	1	1	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	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 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	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		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. 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	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 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 SF. 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	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 SF. 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 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	1,059	532	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	15 - 2 FT. TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK EAST OVERHANG	2	15	15	Square Feet
12	Cracking (RC and Other)	16 - 2 FT. TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK WEST OVERHANG	2	16	16	Square Feet
12	Cracking (RC and Other)	500 SF. OF TRANSVERSE AND LONGITUDINAL HAIRLINE CRACKING WITH EFFLORESCENCE IN BOTTOM OF DECK	2	500	500	Square Feet
12	Delamination/Spall	4" DIAMETER SPALL IN BOTTOM OF DECK BAY 2 NEAR MIDSPAN	2	1	1	Square Feet

General Comments

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 OF DEBRIS IMPACTION	2	3		Feet

General Comments

Span 3 — 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	1	0	0	Feet
515	Steel Protective Coating	494	493	0	1	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF SURFACE CORROSION ON TOP FLANGE AND WEB AROUND END DIAPHRAGM AT BENT 2	2	1		Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON TOP FLANGE AND WEB AROUND END DIAPHRAGM AT BENT 2	3	1	1	Square Feet

General Comments

END DIAPHRAGM BAY 1 AT BENT 2: 18" VERTICAL HAIRLINE CRACK IN NORTH FACE
END DIAPHRAGM BAY 1 AT BENT 2: 5" DIAMETER DELAMINATION IN NORTH FACE

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	493	1	0	0	Square Feet

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

General Comments

END DIAPHRAGM BAY 2 AT BENT 2: 2 - 18" VERTICAL HAIRLINE CRACKS IN NORTH FACE
END DIAPHRAGM BAY 2 AT BENT 2: 12" X 3"X 2" DEEP SPALL WITH EXPOSED REBAR IN NORTH FACE PAR

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	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 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AND 1/4" REMAINING SECTION IN BEARING STIFFENER AT BENT 2 PAR	3	1	1	Feet

515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AND BEARING STIFFENER AT BENT 2	4	1	1	Square Feet

General Comments

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	483	11	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AT BENT 2	2	1		Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AT BENT 2	2	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	10 SF. OF FIRE DAMAGE TO PROTECTIVE COATING AT END BENT 2	2	10	10	Square Feet

General Comments

END DIAPHRAGM EAST OVERHANG AT BENT 2: 6" HORIZONTAL CRACK 1/16" WIDE IN NORTH FACE

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	50	1	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

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	18	32	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
333	Distortion	IMPACT DAMAGE TO END OF BRIDGE RAIL	3	1	1	Feet
333	Cracking (RC and Other)	2 - 18" TRANSVERSE HAIRLINE CRACKS IN CURB	2	2	4	Feet
333	Cracking (RC and Other)	5 - 18" TRANSVERSE HAIRLINE CRACKS IN CURB	2	5	10	Feet
333	Cracking (RC and Other)	5 - 8" TRANSVERSE HAIRLINE CRACKS IN RAIL	2	5	5	Feet
333	Distortion	MULTIPLE GOUGES UP TO 8" X 2" 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	Connection	EAST AND WEST ANCHOR BOLTS LEANING TOWARDS NORTH	2			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 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	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 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	Connection	EAST AND WEST ANCHOR BOLTS LEANING TOWARDS NORTH	2	1	1	Each
311	Corrosion	FRECKLED RUST	2			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	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 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	Connection	EAST AND WEST ANCHOR BOLT LEANING TOWARDS NORTH	2	1	1	Each
311	Corrosion	FRECKLED RUST	2			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	23	10	14	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
215	Cracking (RC and Other)	1 SF. OF HAIRLINE MAP CRACKING UNDER EAST OVERHANG	3	1	1	Feet
215	Cracking (RC and Other)	5 SF. OF HORIZONTAL AND VERTICAL CRACKS UP TO 1/16" WIDE	3	5	5	Feet
215	Cracking (RC and Other)	8 SF. OF HAIRLINE MAP CRACKING IN BAY 3	3	8	8	Feet
215	Cracking (RC and Other)	2 SF. OF HORIZONTAL AND VERTICAL HAIRLINE CRACKS IN BAY 2	2	2	2	Feet
215	Cracking (RC and Other)	5 SF. OF HORIZONTAL AND VERTICAL HAIRLINE CRACKS IN BAY 1	2	5	5	Feet
215	Delamination/Spall	6" X 3" DELAMINATION IN BAY 3	2	1	1	Feet
215	Delamination/Spall	6" X 4" DELAMINATION IN BAY 1	2	1	1	Feet
215	Delamination/Spall	6" X 4" DELAMINATION IN BAY 2	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	37	3	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	3 FT. HORIZONTAL HAIRLINE CRACK UNDER BAY 2	2	3	3	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	Cracking (RC and Other)	72" VERTICAL CRACK UP TO 1/16" WIDE IN SOUTH FACE	3	1	6	Each
205	Cracking (RC and Other)	2 SF. OF HORIZONTAL AND VERTICAL HAIRLINE CRACKS IN WEST FACE	2		2	Each
205	Cracking (RC and Other)	48" VERTICAL HAIRLINE CRACK IN NORTH FACE	2		4	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	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 WEST FACE	2	1	4	Each

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	2	7	21	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	10 SF. OF HAIRLINE MAP CRACKING IN BOTTOM OF CAP BETWEEN COLUMNS 1 AND 2	3	10	10	Feet
234	Cracking (RC and Other)	2 SF. OF HAIRLINE MAP CRACKING IN EAST FACE	3	2	2	Feet
234	Cracking (RC and Other)	24" VERTICAL CRACK 1/16" WIDE IN SOUTH FACE UNDER WEST OVERHANG	3	1	2	Feet
234	Cracking (RC and Other)	3 - 36" VERTICAL CRACKS UP TO 1/16" DEEP IN SOUTH FACE UNDER BAY 3	3	3	9	Feet
234	Cracking (RC and Other)	5 SF. OF MAP CRACKING 1/16" WIDE IN SOUTH FACE UNDER BAY 1	3	5	5	Feet
234	Cracking (RC and Other)	2 - 36" VERTICAL HAIRLINE CRACKS IN NORTH FACE UNDER BAY 1	2	2	6	Feet
234	Cracking (RC and Other)	2 - 36" VERTICAL HAIRLNIE CRACKS IN NORTH FACE UNDER BAY 3	2	2		Feet
234	Cracking (RC and Other)	2 - 36" VERTICAL HAIRLNIE CRACKS IN SOUTH FACE UNDER BAY 3	2	1		Feet
234	Delamination/Spall	24" X 3" DELAMINATION IN BOTTOM OF CAP BETWEEN COLUMNS 1 AND 2	2	2	2	Feet

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	39	8	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
215	Cracking (RC and Other)	2 - 30" VERTICAL HAIRLINE CRACKS IN BAY 2	2	2	6	Feet
215	Cracking (RC and Other)	2 - 30" VERTICAL HAIRLINE CRACKS IN BAY 3	2	2	6	Feet
215	Delamination/Spall	18" X 6" DELAMINATION IN BAY 1	2	1	2	Feet
215	Delamination/Spall	18" X 6" DELAMINATION IN BAY 2	2	1	2	Feet
215	Delamination/Spall	6" X 3" DELAMINATION IN BAY 2	2	1	1	Feet
215	Delamination/Spall	8" DIAMETER DELAMINATION IN BAY 3	2	1	1	Feet

General Comments

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	33	7	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	2 - 12" VERTICAL HAIRLINE CRACKS UNDER BAY 1	2	2	2	Feet
234	Cracking (RC and Other)	2 - 12" VERTICAL HAIRLINE CRACKS UNDER BAY 3	2	2	2	Feet
234	Cracking (RC and Other)	3 - 12" VERTICAL HAIRLINE CRACKS UNDER BAY 2	2	3	3	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	16	8	4	2	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Patched Area	18" X 6" X 4" FAILED PATCH WITH 4" X 1 1/2" LOSS OF BEARING AREA IN NORTH FACE UNDER BEAM 3 PAR	4	2	2	Feet
234	Cracking (RC and Other)	36" DIAGONAL CRACK 1/16" WIDE IN NORTH FACE UNDER BEAM 2	3	3	3	Feet
234	Cracking (RC and Other)	6" VERTICAL CRACK 1/16" WIDE IN NORTH FACE UNDER EAST OVERHANG	3	1	1	Feet
234	Cracking (RC and Other)	2 FT. VERTICAL HAIRLINE CRACK IN SOUTH FACE UNDER BEAM 4	2	2	2	Feet
234	Cracking (RC and Other)	3 - 3 FT. VERTICAL HAIRLINE CRACKS IN SOUTH FACE UNDER BAY 2	2	3	9	Feet
234	Cracking (RC and Other)	3 FT. DIAGONAL HAIRLINE CRACK IN SOUTH FACE UNDER BAY 1	2	2		Feet
234	Cracking (RC and Other)	36" VERTICAL HAIRLINE CRACK IN NORTH FACE UNDER BAY 2	2	1	3	Feet

General Comments

Bent 2 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	1	0	0	Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Delamination/Spall	4" X 4" X 1" DEEP SPALL IN NORTHEAST CORNER AT BASE	2	1	1	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	Expansion Joint	Standard Joint	Pourable Joint Seal	32
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	Far Bearing	Fixed Bearing	Fixed Bearing	1

Elements Verfied

Location	Name	Component	Element Name	Amount
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
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable 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: 770159 **Inspection Date:** 05/15/2019

National Bridge Inventory Items

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

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	**G**	**0**	**3376**
Drainage System	G, F, P, or C	**G**	**0**	**3332**
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		**0**	**3352**
Scour	G, F, P, or C			
Wingwall	G, F, P, or C			
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: 770159 **Inspection Date:** 05/15/2019

Item	Deck - Item 58	**Grade**	6	**Maint Code**		**Qty.**	0
Details	ASPHALT WEARING SURFACE HAS BEEN MILLED AND EPOXITY COATING ADDED SINCE PREVIOUS INSPECTION						

Item	Deck Debris	**Grade**	G	**Maint Code**	3376	**Qty.**	0
Details	Deck milled since last inspection and epoxy surface.						

Expansion Joint : 3FT OF DEBRIS IMPACTION

End Bent 1 Abutment/Backwall : 8 SF. OF HAIRLINE MAP CRACKING IN BAY 3

End Bent 1 Abutment/Backwall : 6" X 4" DELAMINATION IN BAY 2

Span 1 Deck: 500 SF. OF HAIRLINE MAP AND TRANSVERSE CRACKING WITH EFFLORESCENCE IN BOTTOM OF DECK

Span 1 Deck: 11 - 2 FT. TRANSVERSE HAIRLINE CRACKS WITH EFFLORESCENCE IN BOTTOM OF DECK WEST OVERHANG

END DIAPHRAGM BAY 3 AT BENT 1: 18" X 6" DELAMINATION IN SOUTH FACE

Bent 1 Cap 1: 2 - 36" VERTICAL HAIRLNIE CRACKS IN SOUTH FACE UNDER BAY 3

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

Span 1 Beam 2: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR

Span 1 Beam 3: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR

Span 3 Beam 4: 1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH RUST BLEEDING IN WEB AROUND END DIAPHRAGM AT BENT 2

Span 3 Beam 4 Near Bearing: EAST AND WEST ANCHOR BOLT LEANING TOWARDS NORTH PAR

Bent 2 Cap 1: 18" X 6" X 4" FAILED PATCH WITH 4" X 1 1/2" LOSS OF BEARING AREA IN NORTH FACE UNDER BEAM 3 PAR

Span 3 Beam 3: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AND 1/4" REMAINING SECTION IN BEARING STIFFENER AT BENT 2 PAR

END DIAPHRAGM BAY 2 AT BENT 2: 12" X 3" X 2" DEEP SPALL WITH EXPOSED REBAR IN NORTH FACE PAR

Bent 2 Cap 1: 3 FT. DIAGONAL HAIRLINE CRACK IN SOUTH FACE UNDER BAY 1

Span 2 Deck: 20" DIAMETER DELAMINATION IN BOTTOM OF DECK EAST OVERHANG 10 FT. FROM BENT 2. PAINTED OVER SPALL

Span 3 Right Bridge Rail: IMPACT DAMAGE TO END OF BRIDGE RAIL PAR

Span 2 Beam 4: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 PAR

Span 2 Beam 1: 1 FT. OF VEHICLE SCRAPES IN BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FT. FROM BENT 1

Span 2 Beam 4: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 PAR

Span 2 Beam 1: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 PAR

END DIAPHRAGM WEST OVERHANG AT BENT 1: 12" X 6" DELAMINATION IN SOUTH FACE

Span 2 Beam 1: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR

VERTICAL CLEARANCE SIGN 1000 FT EAST OF BRIDGE. VERICAL CLEARANCE UPDATED FROM PERVIOUS INSPECTION.

VERTICAL CLEARANCE SIGN LOCATED AT BRIDGE

SOUTHWEST GUARDRAIL END TERMINAL

SW GUARDRAIL MID POST SPACING

SW GUARDRAIL POST SPACING AT TRANSITION

SW GUARDRAIL TRANSITION

COVER SHEET PHOTO LOOKING NORTH

LEFT RAIL RIGHT RAIL SIMILAR

SOUTH APPROACH

LOOKING WEST

LOOKING EAST

NORTH APPROACH

LOOKING SOUTH

WEST ELEVATION

EAST ELEVATION

SPAN 2 WEST BOUND THRU LANE

SPAN 2 EAST BOUND THRU LANE

ABUTMENT 1

ABUTMENT 1 BEAM 3 BEARING

SPAN 1 SUPERSTRUCTURE

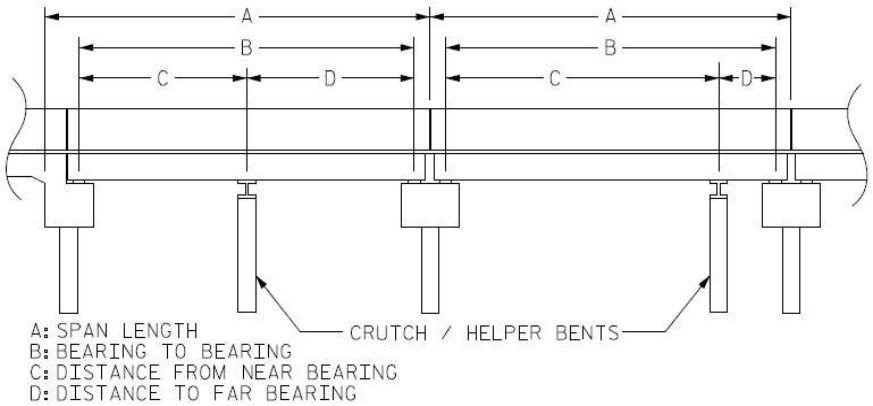
BENT 1

BENT 1 BEAM 3 BEARING

Structure Data Worksheet

Span Profile

County: **ROBESON** Structure Number: **770159**



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	50.500	48.614			
2	80.000	79.000			
3	50.500	48.614			

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 770159 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
0	No Maintenance Required	NA	1	END DIAPHRAGM BAY 2 AT BENT 2: 12" X 3" X 2" DEEP SPALL WITH EXPOSED REBAR IN NORTH FACE PAR	
3314	Maintain Steel Superstructure Components	LF	1	Span 2 Beam 1: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR	
3314	Maintain Steel Superstructure Components	LF	1	Span 2 Beam 4: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 PAR	
3314	Maintain Steel Superstructure Components	LF	1	Span 3 Beam 3: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AND 1/4" REMAINING SECTION IN BEARING STIFFENER AT BENT 2 PAR	
3318	Maint to Concrete Handrail	LF	1	Span 3 Right Bridge Rail: IMPACT DAMAGE TO END OF BRIDGE RAIL	
3334	Bridge Bearings	EA	1	Span 3 Beam 4 Near Bearing: EAST AND WEST ANCHOR BOLT LEANING TOWARDS NORTH	
3348	Maintain Concrete Substructure Components	LF	2	Bent 2 Cap 1: 18" X 6" X 4" FAILED PATCH WITH 4" X 1 1/2" LOSS OF BEARING AREA IN NORTH FACE UNDER BEAM 3 PAR	
3314	Maintain Steel Superstructure Components	LF	0	Span 1 Beam 1: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR	
3314	Maintain Steel Superstructure Components	LF	1	Span 1 Beam 2: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR	
3314	Maintain Steel Superstructure Components	LF	1	Span 1 Beam 3: 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: 770159 County ROBESON

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

MMS Code	MMS Description	Quantity
0	No Maintenance Required	1 NA

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
END DIAPHRAGM BAY 2 AT BENT 2: 12" X 3" X 2" DEEP SPALL WITH EXPOSED REBAR IN NORTH FACE PAR

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

Location:	
Bent/Span No.	

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
05/15/2019	JOHN EUBANKS	

Details
Span 2 Beam 1: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 770159 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
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
05/15/2019	JOHN EUBANKS	

Details

Span 2 Beam 4: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 PAR

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

Location:	
Bent/Span No.	

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
05/15/2019	JOHN EUBANKS	

Details

Span 3 Beam 3: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AND 1/4" REMAINING SECTION IN BEARING STIFFENER AT BENT 2 PAR

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 770159 County ROBESON

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

MMS Code	MMS Description	Quantity
3318	Maint to Concrete Handrail	1 LF

Location:
Bent/Span No.

Priority Level	Status
Priority Maintenance	Division Maintenance Work In Process

Submitted Date:	Submitted By:	Assisted By:
05/15/2019	JOHN EUBANKS	

Details
Span 3 Right Bridge Rail: IMPACT DAMAGE TO END OF BRIDGE RAIL

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:
05/15/2019	JOHN EUBANKS	

Details
Span 3 Beam 4 Near Bearing: EAST AND WEST ANCHOR BOLT LEANING TOWARDS NORTH

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 770159 County ROBESON

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

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	2 LF

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
Bent 2 Cap 1: 18" X 6" X 4" FAILED PATCH WITH 4" X 1 1/2" LOSS OF BEARING AREA IN NORTH FACE UNDER BEAM 3 PAR

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	0 LF

Location:
Bent/Span No.

Priority Level	Status
Recommended	Routine Maintenance

Submitted Date:	Submitted By:	Assisted By:
05/15/2019	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 INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 770159 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:
05/15/2019	JOHN EUBANKS	

Details

Span 1 Beam 2: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR

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:
05/15/2019	JOHN EUBANKS	

Details

Span 1 Beam 3: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR

Bridge Inspection Field Sketch

Roadway	24ft Wide	2 Paved Lanes	Looking North
Left Shoulder	3ft Wide	3ft Paved	
Right Shoulder	3ft Wide	3ft Paved	
Left Guardrail	3ft from road		
Right Guardrail	3ft from road		

MEASUREMENTS TAKEN AT END BENT 1

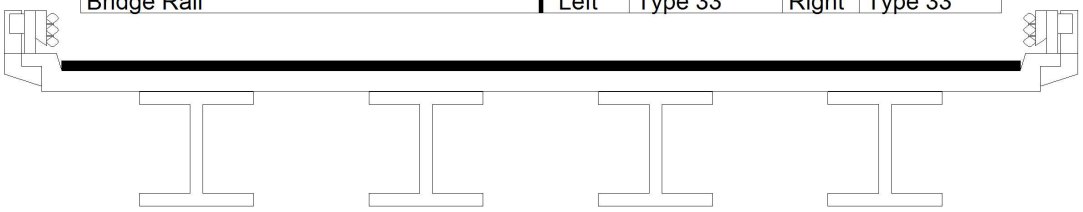
MEASUREMENTS VERIFIED 5/15/2019 BY JTE
MEASUREMENTS VERIFIED 5/9/2017 BY DRW

Title	**Description**
APPROACH ROADWAY	LOOKING NORTH

Bridge No:	**Drawn By:**	**Date:**	**File Name:**
770159	RLK	5/23/2011	S0098000565

Bridge Inspection Field Sketch

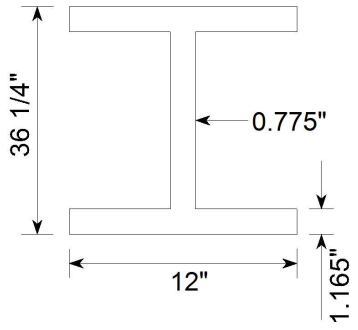
Deck Width/Out to Out	33.50ft	Between Rails				28ft
Clear Roadway	28ft	Wearing Surface				0.292ft
Median Width		Median Height				
Curb Height		Left	0.80ft	Right	0.80ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left	2.60ft	Right	2.40ft	
Top of Rail to Deck/Wearing Surface		Left	2.60ft	Right	2.60ft	
Bridge Rail		Left	Type 33	Right	Type 33	



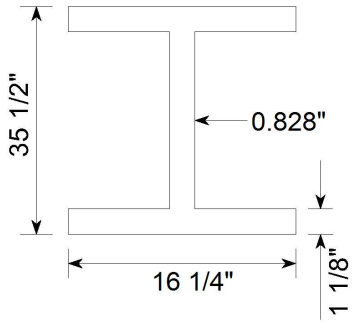
Measurements for Span #	1		
Deck Thickness	0.604	Left Overhang	4.708
Top of Rail to Bottom of Beam	6.229	Right Overhang	4.708

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



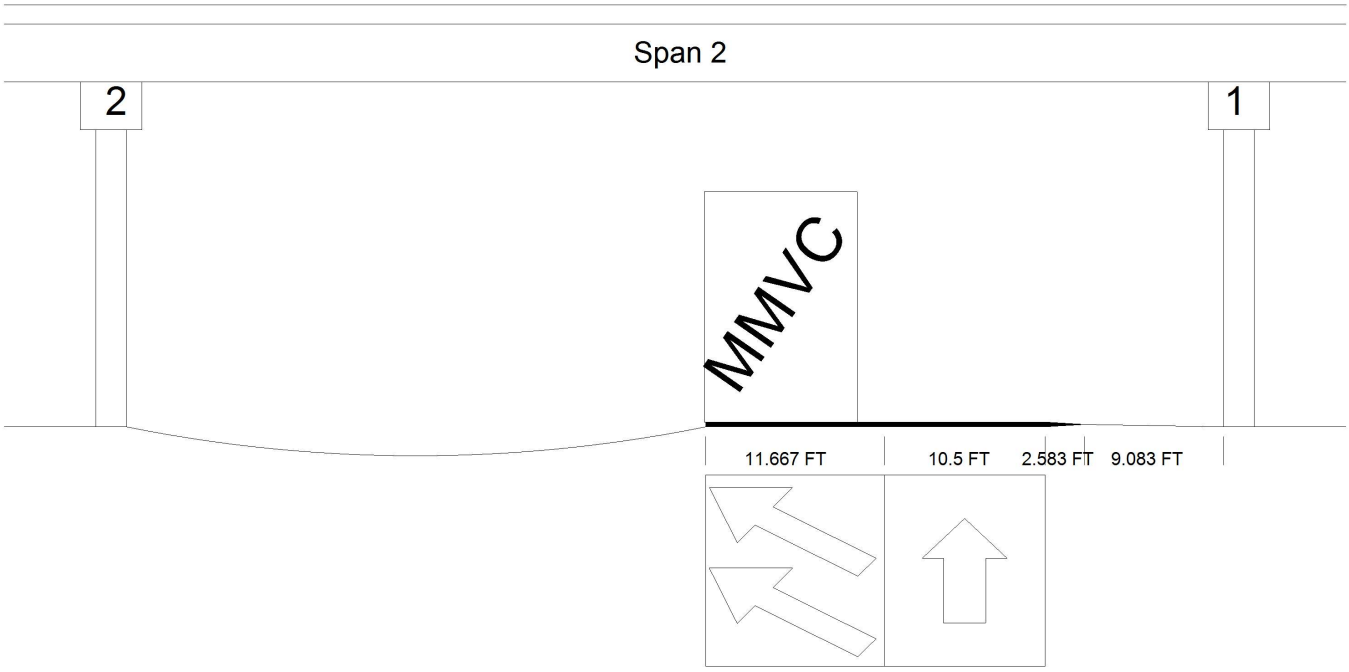
SPAN 2

MEASUREMENTS UPDATED 5/15/2019 BY JTE
MEASUREMENTS UPDATED 5/9/2017 BY DRW

Title	Description
SUPERSTRUCTURE	SIMILAR SECTION

Bridge No:	Drawn By:	Date:	File Name:
770159	RBH	01/01/08	S0098000566

Bridge Inspection Field Sketch



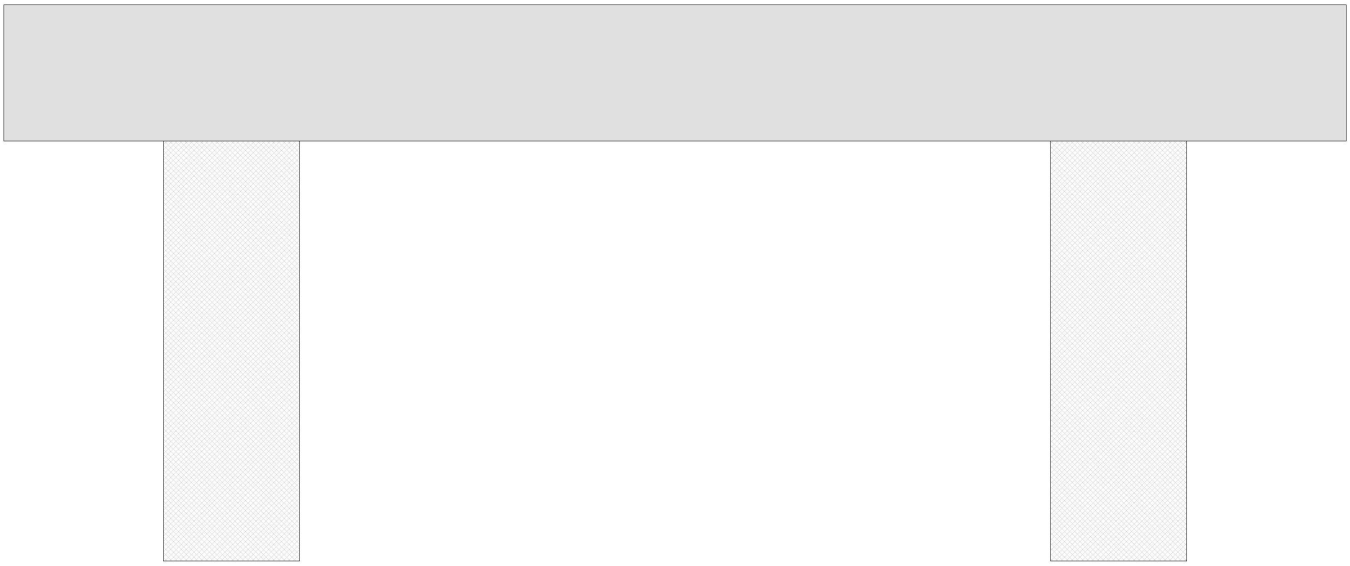
Roadway 1		Direction of Traffic	East
Distance to Left Rail		Distance to Right Rail	
Distance to Left Toe of Slope		Distance to Left Bent	49.5FT
Distance to Right Toe of Slope		Distance to Right Bent	11.667FT
MMVC	15.083 Ft at Beam 1, 10 FT from RIGHT EDGE OF PAVEMENT		
MVC	14.75 Ft at Beam 1, 0 FT from LEFT EDGE OF TRAVEL LANES		

MEASUREMENTS UPDATED 5/15/2019 BY JTE

MEASUREMENTS UPDATED 5/9/2017 BY DRW

Title	**Description**		
SPAN 2 EBL CLEARANCE	EBL SPAN 2		
Bridge No: 770159	**Drawn By:** RLK	**Date:** 5/21/2013	**File Name:** S0098000567

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.	1.833 ft.	1.833 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 5/15/2019 BY JTE

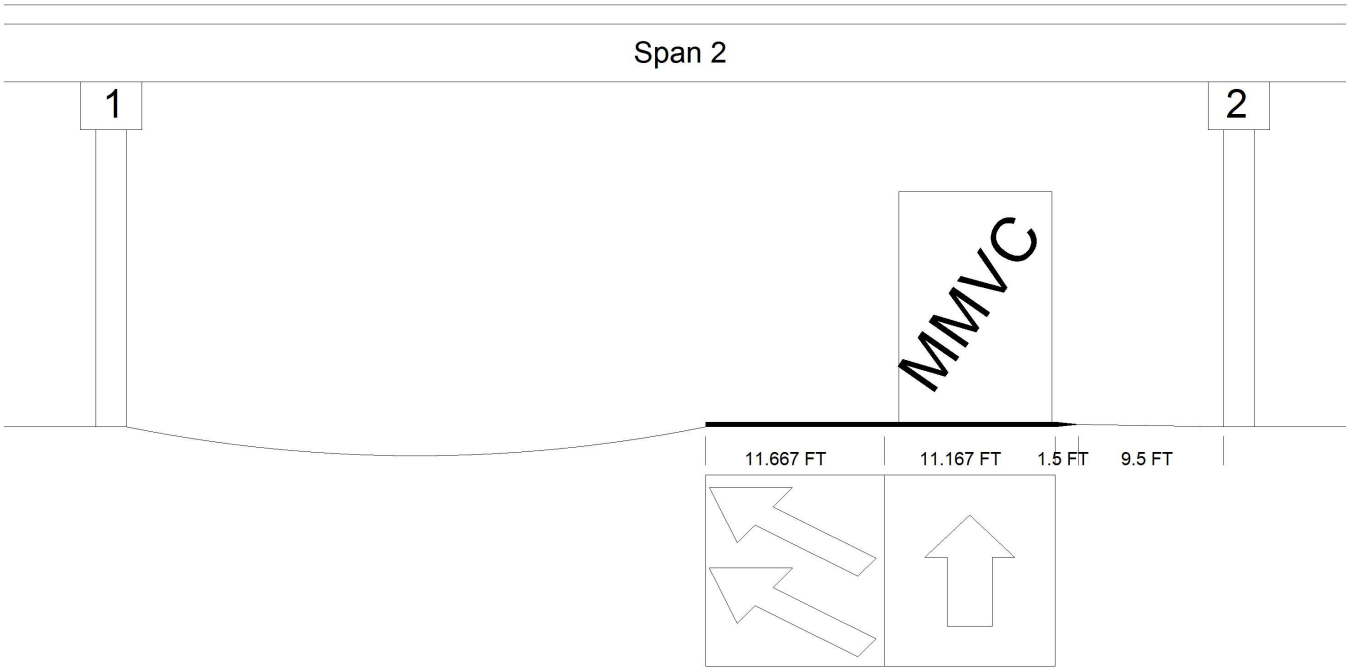
Bent/Abutment #: 1 Similar Bents: 2

Title MEASUREMENTS VERIFIED 5/9/2017 BY DRW
SUBSTRUCTURE

Description
BENT 1

Bridge No: 770159	**Drawn By:** RLK	**Date:** 6/4/2009	**File Name:** S0098000823

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	49.5FT
Distance to Right Toe of Slope		Distance to Right Bent	11FT
MMVC	15.0 Ft at Beam 1, 10 FT from RIGHT EDGE OF PAVEMENT		
MVC	14.67 Ft at Beam 1, 0 FT from LEFT EDGE OF TRAVEL LANES		

MEASUREMENTS UPDATED 5/15/2019 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:**
770159	RLK	5/21/2013	S0098001413