

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 11/04/2019

DIVISION: 4 COUNTY: JOHNSTO	STRUCTURE NUMBER: 500037	FREQUENCY:	24 MONTHS
FACILITY CARRIED: US301, NC96		MILE POST:	
LOCATION: 0.2 MI N JCT US701 &US30	1		
FEATURE INTERSECTED: CSX RR			
LATITUDE : 35° 27' 41.06"	LONGITUDE: 78° 23' 21.72"		
SUPERSTRUCTURE: REINFORCED CO	DNCRETE DECK ON I-BEAMS		
SUBSTRUCTURE: ABUTMENTS:RC SPIL	LL THROUGH, INT. BENTS:RC POST & BEAM		
SPANS: 5 SPANS. SEE SPAN PROFIL	LE SHEET FOR SPAN DETAILS		
FRACTURE CRITICAL TEMPO	DRARY SHORING SCOUR CRITICAL	SCOUR PLAN OF	ACTION
NBI GRADES: DECK 6 SUI	PERSTRUCTURE 5 SUBSTRUCTURE 5	CULVERT N	
POSTED SV: Not Posted	POSTED TTST: Not Pos	sted	
OTHER SIGNS PRESENT: 4 DELINEATO	DRS		
		Sign noticed issued for	Number Required
		NO WEIG	O
		NO DELIN	NEATORS 0
		NO NARRO	W BRIDGE 0
		NO ONE LA	NE BRIDGE 0
		NO LOW CL	EARANCE 0
		DIRECTION OF INSPECTION DIRECTION MATCHES PLAN	<u></u>
Looking north			
INSPECTED BY Rick Wertman	SIGNATURE REMARKS	ASSISTED BY Jim Sto	ocks

IDENTIFICATION			
(1) STATE NAME NORTH CAROLINA BRIDGE	500037	SUFFICIENCY RATING	59.6
(8) STRUCTURE NUMBER (FEDERAL)	1010037	STATUS = Functionally C	Obsolete
,	21003010	CLASSIFICATION C	CODE
(2) STATE HIGHWAY DEPARTMENT DISTRICT	4 24520	(112) NBIS BRIDGE SYSTEM	YE
(3) COUNTY CODE (FEDERAL) 101 (4) PLACE CODE (6) FEATURE INTERSECTED CSX RR	24320	(104) HIGHWAY SYSTEM Inventory Route is on NHS	
(7) FACILITY CARRIED US301, NC96		(26) FUNCTIONAL CLASS Urban Minor Collector	1
(9) LOCATION 0.2 MI N JCT US701 &US301		(100) STRAHNET HIGHWAY Not a STRAHNET Route	
(11) MILEPOINT	0.0	(101) PARALLEL STRUCTURE No parallel structure exists	
(12) BASE HIGHWAY NETWORK	1 20301	(102) DIRECTION OF TRAFFIC 2-way traffic	
(13) LRS INVENTORY ROUTE & SUBROUTE (16) LATITUDE 35° 27' 41.06" (17) LONGITUDE 78° 2	2030 i 23' 21.72"	(103) TEMPORARY STRUCTURE	
(98) BORDER BRIDGE STATE CODE PERCENT SHARED		(110) DESIGNATED NATIONAL NETWORK - on national network for trucks	
(99) BORDER BRIDGE STRUCTURE NUMBER		(20) TOLL On Free Road	
CTRUCTURE TYPE AND MATERIAL		(21) MAINT -	(
(43) STRUCTURE TYPE AND MATERIAL (43) STRUCTURE TYPE MAIN	Steel	(22) OWNER -	0
TYPE Stringer/Multi-beam or girder CODE		(37) HISTORICAL SIGNIFICANCE -	
(44) STRUCTURE TYPE APPROACH		• •	
TYPE CODE		(58) DECK	CODE
(45) NUMBER OF SPANS IN MAIN UNIT	5	(59) SUPERSTRUCTURE	
(46) NUMBER OF SPANS IN APPROACH	0	(60) SUBSTRUCTURE	
		(61) CHANNEL & CHANNEL PROTECTION	
	'		
(108)WEARING SURFACE/PROTECTIVE SYSTEM	•	(62) CULVERTS	
(A) TYPE OF WEARING SURFACE CODE (B) TYPE OF MEMBRANE CODE		(31) DESIGN LOAD COAD HS20	CODE
(C) TYPE OF DECK PROTECTION CODE		(63) OPERATING RATING METHOD - Load Factor	
•	U		
AGE AND SERVICE	4000		4
(27) YEAR BUILT	1926	(65) INVENTORY RATING METHOD - (66) INVENTORY RATING HS-14	2
(106) YEAR RECONSTRUCTED 00000	1954. 000000000 0	(66) INVENTORY RATING HS-14	2
(42) TYPE OF SERVICE ON -	Highway	(70) BRIDGE POSTING No Posting Required	
OFF - Railroad CODE	12	(41) STRUCTURE OPEN, POSTED, OR CLOSED	
(28) LANES ON STRUCTURE 2 LANES UNDER STRUCTURE	0	DESCRIPTION Open, no restriction	
(29) AVERAGE DAILY TRAFFIC	8300	APPRAISAL — O	CODE
(30) YEAR OF ADT 2015 (109) TRUCK ADT PCT	6	(67) STRUCTURAL EVALUATION	
(19) BYPASS OR DETOUR LENGTH	1.0	(68) DECK GEOMETRY	
GEOMETRIC DATA		(69) UNDERCLEARANCES, VERT & HORIZ	
(48) LENGTH OF MAXIMUM SPAN	47.0	(71) WATERWAY ADEQUACY	
(40) STRUCTURE LENGTH	400.0		
(49) STRUCTURE LENGTH	189.0	(72) APPROACH ROADWAY ALIGNMENT	
(50) CURB OR SIDEWALK: LEFT 1.6 RIGHT	1.6		
(50) CURB OR SIDEWALK: LEFT 1.6 RIGHT (51) BRIDGE ROADWAY WIDTH, CURB TO CURB	1.6 30.1	(36) TRAFFIC SAFETY FEATURES	011
(50) CURB OR SIDEWALK: LEFT 1.6 RIGHT (51) BRIDGE ROADWAY WIDTH, CURB TO CURB (52) DECK WIDTH OUT TO OUT	1.6	(36) TRAFFIC SAFETY FEATURES (113) SCOUR CRITICAL BRIDGES	011
(50) CURB OR SIDEWALK: LEFT 1.6 RIGHT (51) BRIDGE ROADWAY WIDTH, CURB TO CURB	1.6 30.1 35.4	(36) TRAFFIC SAFETY FEATURES	
(50) CURB OR SIDEWALK: LEFT (51) BRIDGE ROADWAY WIDTH, CURB TO CURB (52) DECK WIDTH OUT TO OUT (32) APPROACH ROADWAY WITH (W/ SHOULDERS) (33) BRIDGE MEDIAN No median CODE (34) SKEW 40 (35) STRUCTURE FLARED	1.6 30.1 35.4 31.0 0	(36) TRAFFIC SAFETY FEATURES (113) SCOUR CRITICAL BRIDGES PROPOSED IMPROVEMENTS (75) TYPE OF WORK CODE	
(50) CURB OR SIDEWALK: LEFT (51) BRIDGE ROADWAY WIDTH, CURB TO CURB (52) DECK WIDTH OUT TO OUT (32) APPROACH ROADWAY WITH (W/ SHOULDERS) (33) BRIDGE MEDIAN No median CODE (34) SKEW 40 (35) STRUCTURE FLARED (10) INVENTORY ROUTE MIN VERT CLEAR	1.6 30.1 35.4 31.0 0 999.9	(36) TRAFFIC SAFETY FEATURES (113) SCOUR CRITICAL BRIDGES PROPOSED IMPROVEMENTS	011
(50) CURB OR SIDEWALK: LEFT (51) BRIDGE ROADWAY WIDTH, CURB TO CURB (52) DECK WIDTH OUT TO OUT (32) APPROACH ROADWAY WITH (W/ SHOULDERS) (33) BRIDGE MEDIAN No median CODE (34) SKEW 40 (35) STRUCTURE FLARED (10) INVENTORY ROUTE MIN VERT CLEAR (47) INVENTORY ROUTE TOTAL HORIZ CLEAR	1.6 30.1 35.4 31.0 0 0 999.9 30.1	(36) TRAFFIC SAFETY FEATURES (113) SCOUR CRITICAL BRIDGES PROPOSED IMPROVEMENTS (75) TYPE OF WORK CODE (76) LENGTH OF STRUCTURE IMPROVEMENT (94) BRIDGE IMPROVEMENT COST	011
(50) CURB OR SIDEWALK: LEFT (51) BRIDGE ROADWAY WIDTH, CURB TO CURB (52) DECK WIDTH OUT TO OUT (32) APPROACH ROADWAY WITH (W/ SHOULDERS) (33) BRIDGE MEDIAN No median CODE (34) SKEW 40 (35) STRUCTURE FLARED (10) INVENTORY ROUTE MIN VERT CLEAR	1.6 30.1 35.4 31.0 0 999.9	(36) TRAFFIC SAFETY FEATURES (113) SCOUR CRITICAL BRIDGES PROPOSED IMPROVEMENTS (75) TYPE OF WORK (76) LENGTH OF STRUCTURE IMPROVEMENT (94) BRIDGE IMPROVEMENT COST (95) ROADWAY IMPROVEMENT COST	011
(50) CURB OR SIDEWALK: LEFT (51) BRIDGE ROADWAY WIDTH, CURB TO CURB (52) DECK WIDTH OUT TO OUT (32) APPROACH ROADWAY WITH (W/ SHOULDERS) (33) BRIDGE MEDIAN No median CODE (34) SKEW 40 (35) STRUCTURE FLARED (10) INVENTORY ROUTE MIN VERT CLEAR (47) INVENTORY ROUTE TOTAL HORIZ CLEAR (53) MIN VERT CLEAR OVER BRIDGE RDWY	1.6 30.1 35.4 31.0 0 999.9 30.1 999.9	(36) TRAFFIC SAFETY FEATURES (113) SCOUR CRITICAL BRIDGES PROPOSED IMPROVEMENTS (75) TYPE OF WORK (76) LENGTH OF STRUCTURE IMPROVEMENT (94) BRIDGE IMPROVEMENT COST (95) ROADWAY IMPROVEMENT COST (96) TOTAL PROJECT COST	011
(50) CURB OR SIDEWALK: LEFT (51) BRIDGE ROADWAY WIDTH, CURB TO CURB (52) DECK WIDTH OUT TO OUT (32) APPROACH ROADWAY WITH (W/ SHOULDERS) (33) BRIDGE MEDIAN No median CODE (34) SKEW 40 (35) STRUCTURE FLARED (10) INVENTORY ROUTE MIN VERT CLEAR (47) INVENTORY ROUTE TOTAL HORIZ CLEAR (53) MIN VERT CLEAR OVER BRIDGE RDWY (54) MIN VERT UNDERCLEAR: REFERENCE R	1.6 30.1 35.4 31.0 0 999.9 30.1 999.9 21.3	(36) TRAFFIC SAFETY FEATURES (113) SCOUR CRITICAL BRIDGES 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	011
(50) CURB OR SIDEWALK: LEFT (51) BRIDGE ROADWAY WIDTH, CURB TO CURB (52) DECK WIDTH OUT TO OUT (32) APPROACH ROADWAY WITH (W/ SHOULDERS) (33) BRIDGE MEDIAN No median CODE (34) SKEW 40 (35) STRUCTURE FLARED (10) INVENTORY ROUTE MIN VERT CLEAR (47) INVENTORY ROUTE TOTAL HORIZ CLEAR (53) MIN VERT CLEAR OVER BRIDGE RDWY (54) MIN VERT UNDERCLEAR: REFERENCE R (55) MIN LAT UNDERCLEARANCE RT: REFERENCE R (56) MIN LAT UNDERCLEARANCE LT:	1.6 30.1 35.4 31.0 0 999.9 30.1 999.9 21.3 11.8	(36) TRAFFIC SAFETY FEATURES (113) SCOUR CRITICAL BRIDGES 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 16,600 YEAR OF FUTURE ADT	011
(50) CURB OR SIDEWALK: LEFT (51) BRIDGE ROADWAY WIDTH, CURB TO CURB (52) DECK WIDTH OUT TO OUT (32) APPROACH ROADWAY WITH (W/ SHOULDERS) (33) BRIDGE MEDIAN No median CODE (34) SKEW 40 (35) STRUCTURE FLARED (10) INVENTORY ROUTE MIN VERT CLEAR (47) INVENTORY ROUTE TOTAL HORIZ CLEAR (53) MIN VERT CLEAR OVER BRIDGE RDWY (54) MIN VERT UNDERCLEAR: REFERENCE R	1.6 30.1 35.4 31.0 0 999.9 30.1 999.9 21.3 11.8 0.0	(36) TRAFFIC SAFETY FEATURES (113) SCOUR CRITICAL BRIDGES 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	204
(50) CURB OR SIDEWALK: LEFT (51) BRIDGE ROADWAY WIDTH, CURB TO CURB (52) DECK WIDTH OUT TO OUT (32) APPROACH ROADWAY WITH (W/ SHOULDERS) (33) BRIDGE MEDIAN No median CODE (34) SKEW 40 (35) STRUCTURE FLARED (10) INVENTORY ROUTE MIN VERT CLEAR (47) INVENTORY ROUTE TOTAL HORIZ CLEAR (53) MIN VERT CLEAR OVER BRIDGE RDWY (54) MIN VERT UNDERCLEAR: REFERENCE (55) MIN LAT UNDERCLEARANCE RT: REFERENCE (56) MIN LAT UNDERCLEARANCE LT: NAVIGATION DATA (38) NAVIGATION CONTROL -	1.6 30.1 35.4 31.0 0 0 999.9 30.1 999.9 21.3 11.8 0.0	(36) TRAFFIC SAFETY FEATURES (113) SCOUR CRITICAL BRIDGES 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 16,600 YEAR OF FUTURE ADT INSPECTION	204
(50) CURB OR SIDEWALK: LEFT (51) BRIDGE ROADWAY WIDTH, CURB TO CURB (52) DECK WIDTH OUT TO OUT (32) APPROACH ROADWAY WITH (W/ SHOULDERS) (33) BRIDGE MEDIAN No median CODE (34) SKEW 40 (35) STRUCTURE FLARED (10) INVENTORY ROUTE MIN VERT CLEAR (47) INVENTORY ROUTE TOTAL HORIZ CLEAR (53) MIN VERT CLEAR OVER BRIDGE RDWY (54) MIN VERT UNDERCLEAR: REFERENCE (55) MIN LAT UNDERCLEARANCE RT: REFERENCE (56) MIN LAT UNDERCLEARANCE LT: NAVIGATION DATA (38) NAVIGATION CONTROL - CODE (111) PIER PROTECTION CODE	1.6 30.1 35.4 31.0 0 0 999.9 30.1 999.9 21.3 11.8 0.0	(36) TRAFFIC SAFETY FEATURES (113) SCOUR CRITICAL BRIDGES 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 16,600 YEAR OF FUTURE ADT INSPECTION (90) INSPECTION DATE (92) CRITICAL FEATURE INSPECTION (93) CFI DATE	204
(50) CURB OR SIDEWALK: LEFT 1.6 RIGHT (51) BRIDGE ROADWAY WIDTH, CURB TO CURB (52) DECK WIDTH OUT TO OUT (32) APPROACH ROADWAY WITH (W/ SHOULDERS) (33) BRIDGE MEDIAN No median CODE (34) SKEW 40 (35) STRUCTURE FLARED (10) INVENTORY ROUTE MIN VERT CLEAR (47) INVENTORY ROUTE TOTAL HORIZ CLEAR (53) MIN VERT CLEAR OVER BRIDGE RDWY (54) MIN VERT UNDERCLEAR: REFERENCE R (55) MIN LAT UNDERCLEARANCE RT: REFERENCE R (56) MIN LAT UNDERCLEARANCE LT: NAVIGATION DATA (38) NAVIGATION CONTROL - CODE (111) PIER PROTECTION CODE	1.6 30.1 35.4 31.0 0 0 999.9 30.1 999.9 21.3 11.8 0.0	(36) TRAFFIC SAFETY FEATURES (113) SCOUR CRITICAL BRIDGES 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 16,600 11/19 (91) FREQUENCY (92) CRITICAL FEATURE INSPECTION (93) CFI DATE A) FRACTURE CRIT DETAIL (115) TYPE OF WORK CODE (176) LENGTH OF STRUCTURE ADT (177) PROPOSED IMPROVEMENT (178) PROPOSED	204
(50) CURB OR SIDEWALK: LEFT (51) BRIDGE ROADWAY WIDTH, CURB TO CURB (52) DECK WIDTH OUT TO OUT (32) APPROACH ROADWAY WITH (W/ SHOULDERS) (33) BRIDGE MEDIAN No median CODE (34) SKEW 40 (35) STRUCTURE FLARED (10) INVENTORY ROUTE MIN VERT CLEAR (47) INVENTORY ROUTE TOTAL HORIZ CLEAR (53) MIN VERT CLEAR OVER BRIDGE RDWY (54) MIN VERT UNDERCLEAR: REFERENCE (55) MIN LAT UNDERCLEARANCE RT: REFERENCE (56) MIN LAT UNDERCLEARANCE LT: NAVIGATION DATA (38) NAVIGATION CONTROL - CODE (111) PIER PROTECTION CODE	1.6 30.1 35.4 31.0 0 0 999.9 30.1 999.9 21.3 11.8 0.0	(36) TRAFFIC SAFETY FEATURES (113) SCOUR CRITICAL BRIDGES 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 16,600 11/19 (91) FREQUENCY (92) CRITICAL FEATURE INSPECTION (93) CFI DATE A) FRACTURE CRIT DETAIL (114) FRACTURE CRIT DETAIL (115) FRACTURE CRIT DETAIL (116) FRACTURE CRIT DETAIL (117) FRACTURE CRIT DETAIL (117) FRACTURE CRIT DETAIL (118) SCOUR CRITICAL FEATURE INSPECTION (93) CFI DATE	204

			ertical							raffic	ce			See N	lote Be	low			m	
Span Number	Facility Carried	Inventory Route	Maximum Minimum Vert Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily Ti	Total Horizontal Clearan	Reference Feature	Minimum Vertical Underclearance	Rigth Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade	STRAHNET Highway	Direction of Traffic	National Highway Syster	National Truck Network
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
3	CSX RR	80000000		_								R	21.3	11.8		5				

Superstructure Build Details

Number of Items	Type of Component Element Name			Quantity	Protective System Applied	Quantity (Sq Ft)
1	Asphalt Wearing Surface	Wearing Surface	1140	Square Feet		
5	Plate Girder Steel Open Girder/Beam 19		190	Feet	Legacy Red Lead Primer Systems with Various Topcoats	1560
2	Concrete Railing	Reinforced Concrete Bridge Railing	76	Feet		
10	Other Bearing	Other Bearings	10	Each	Unknow	10
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1273	Square Feet		

 Span Number 2
 Span Length
 37.5000
 Skew
 50.0000

Number of Items	ns Type of Component Element Nam			Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1257	Square Feet		
2	Concrete Railing	Reinforced Concrete Bridge Railing	76	Feet		
10	Other Bearing	Other Bearings	10 Each		Unknow	10
1	Asphalt Wearing Surface	Wearing Surface	1125	Square Feet		
1	Standard Joint	Pourable Joint Seal	40	Feet		
5	Plate Girder	Steel Open Girder/Beam	190	Feet	Legacy Red Lead Primer Systems with Various Topcoats	1540

Span Number $\underline{3}$ Span Length $\underline{47.5000}$ Skew 50.0000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	96	Feet		
5	Plate Girder	Steel Open Girder/Beam	240 Feet		Legacy Red Lead Primer Systems with Various Topcoats	2300
1	Asphalt Wearing Surface	Wearing Surface	1425	Square Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1592	Square Feet		
10	Other Bearing	Other Bearings	10 Each		Unknow	10
1	Standard Joint	Pourable Joint Seal	40	Feet		

Span Number $\underline{4}$ Span Length $\underline{32.5000}$ Skew 50.0000

Superstructure Build Details

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete Railing	Reinforced Concrete Bridge Railing	66	Feet		
1	Asphalt Wearing Surface	Wearing Surface	975	Square Feet		
5	Plate Girder	Steel Open Girder/Beam	165	Feet	Legacy Red Lead Primer Systems with Various Topcoats	1230
1	Standard Joint	Pourable Joint Seal	40	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1089	Square Feet		
10	Other Bearing	Other Bearings	10	Each	Unknow	10

Span Number 5

Span Length <u>33.0000</u>

Skew 50.0000

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
5	Plate Girder	Steel Open Girder/Beam	165 Feet		Legacy Red Lead Primer Systems with Various Topcoats	1285
1	Asphalt Wearing Surface	Wearing Surface	990 Square Feet			
1	Concrete Railing	Reinforced Concrete Bridge Railing	33	Feet		
1	Standard Joint	Pourable Joint Seal	40	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1106	Square Feet		
10	Other Bearing	Other Bearings	10 Each		Unknow	10
1	Concrete Railing	Reinforced Concrete Bridge Railing	33	Feet	Unknow	33

Structure Element Scoring

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	О	Reinforced Concrete Deck	Deck	6317	6298	12	7	0
107	0	Steel Open Girder/Beam	Beam	950	552	365	15	18
515	107	Steel Protective Coating	Beam	7915	6618	324	937	36
205	0	Reinforced Concrete Column Piles and Columns 8 2		2	2	4	0	
215	0	Reinforced Concrete Abutment	Abutments	120	115	3	2	0
234	0	Reinforced Concrete Pier Cap	oncrete Pier Cap Caps 256		206	21	29	0
301	0	Pourable Joint Seal	Expansion Joints	160	160	0	0	0
316	0	Other Bearings	Bearing Device	50	6	32	12	0
515	316	Steel Protective Coating	Bearing Device	50	6	12	23	9
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	380	238	8	134	0
510	0	Wearing Surface	Wearing Surfaces	5655	4234	0	1421	0

Summary of Maintenance Needs

Maintenance By Defect

MMS Code	Element Name	Defect Name	Recommended Quantity		
3326	Reinforced Concrete Deck	Cracking (RC and Other)	9 Square Feet		
3326	Reinforced Concrete Deck	Delamination/Spall	10 Square Feet		
3314	Steel Open Girder/Beam	Corrosion	33 Feet		
3314	Steel Open Girder/Beam	Damage	1 Feet		
3348	Reinforced Concrete Column	Delamination/Spall	32 Each		
3348	Reinforced Concrete Column	oncrete Column Cracking (RC and Other)			
3350	Reinforced Concrete Abutment	Delamination/Spall	3 Feet		
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	24 Feet		
3348	Reinforced Concrete Pier Cap	Delamination/Spall	13 Feet		
3334	Other Bearings	Corrosion	11 Each		
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	9 Feet		
3318	Reinforced Concrete Bridge Railing	Cracking (RC and Other)	133 Feet		
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	6 Square Feet		
2816	Wearing Surface	Crack (Wearing Surface)	1415 Square Feet		
3342	Steel Protective Coating	el Protective Coating Peeling/Bubbling/Cracking (steel Protective Coatings) 750 Square Fee			
3342	Steel Protective Coating Effectiveness (Steel Protective Coatings) 591 Square Feet				

Element Structure Maintenance Quantities

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	3	120	0	2	3	115
Beam	3314	Maintenance Steel Superstructure Components	34	950	18	15	365	552
Beam	3342	Clean and Paint Steel	1297	7915	36	937	324	6618
Bearing Device	3334	Bridge Bearing	11	50	О	12	32	6
Bearing Device	3342	Clean and Paint Steel	44	50	9	23	12	6
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	142	380	0	134	8	238
Caps	3348	Maintenance of Concrete Substructure	37	256	0	29	21	206
Deck	3326	Maintenance of Concrete Deck	19	6317	0	7	12	6298
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	160	0	О	О	160
Piles and Columns	3348	Maintenance of Concrete Substructure	54	8	0	4	2	2
Wearing Surfaces	2816	Asphalt Surface Repair	1421	5655	0	1421	0	4234

Priority Actions Request

Structure Nun	nber <u>500037</u>		
Span3			
3314	Beam 1	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	5	Span 3 Beam 1: PARCORROSION 5FT LONG WITH UP TO 5/8" LOSS AT OUTER EDGES OF BOTTOM FLANGE WITH 1/2" AVERAGE REMAINING FULL WIDTH AND 1/2" THICKNESS REMAINING IN WEB 5FT LONG AT BENT 3
2	Corrosion	4	Span 3 Beam 1: PARSECTION LOSS WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM 1 FT LONG AND 1/2" REMAINING IN BOTTOM 6" OF WEB WITH 5/8" X FULL WIDTH REMAINING 3 FT LONG ON BOTTOM FLANGE AT BENT 2
Span4			
3314	Beam 1	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	3	Span 4 Beam 1: PAR1/4" section loss with 3/8" average remaining full width of bottom flange 3' long. Beam end has been painted with rust staining present at pier 3.
3314	Beam 5	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 4 Beam 5: PARSECTION LOSS UP TO 3/8" WITH 3/8" AVERAGE REMAINING FULL WIDTH OF BOTTOM FLANGE 1FT LONG ON BEAM END OVER PIER 3. BEAM END HAS BEEN CLEANED AND PAINTED WITH ACTIVE SURFACE CORROSION. PLATE REPAIR ADDED BUT DOES NOT EXTEND OUT TO DEFECT.
Span5			
3314	Beam 2	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 5 Beam 2: PAR1 FT LONG X 2" WIDE AREA OF PREVIOUS CORROSION WITH 1/4" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 4 AREA HAS BEEN PAINTED OVER AND ARRESTED.
3314	Beam 5	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	4	Span 5 Beam 5: PAR1/4" section loss with 3/8" average remaining full width of bottom flange 4' long. Beam end has been painted with rust staining present at pier 4.

Bent 3





Priority Actions Request

Structure Number 500037 3348 Pile 2 Reinforced Concrete Column **Priority Defect Type** Quantity **Defect Description** Level Bent 3 Pile 2: PAR--SPALL WITH EXPOSED REBAR AND BROKEN HORIZONTAL TIE 3 FT X 1 FT X 4" DEEP IN NORTHEAST CORNER MID HEIGHT WITH 2 Delamination/Spall **SECTION LOSS**



Element Condition and Maintenance Data

Structure Number: 500037 Inspection Date: 11/04/2019

oti dotai o	11dinibol: <u>000001</u>						opodilon	Date: 1170 172010
Spa	an 1	Deck						
Rei	inforced Concrete	Deck						
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	1,273	1,271	2	0	0	Square Feet
Eleme	Defect Type	Defect De	escription		cs	CS Qty	Maint Qty	
12	Cracking (RC and Other)	TRANSVERSE HAIRLINE CRA OVERHANG AT 12 FT FROM E		IGHT	2	2	:	2 Square Feet
	General Comments							

Spai	n 1	Beam 1						
Plate	e Girder							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	38	0	37	1	0 F	eet
515	Steel Pro	ective Coating	312	261	0	51	0 S	quare Feet
Element Number	Imber Defect Type Defect Description				cs	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF CORROSION WITH 7/16" R WEB 1 FT HIGH AROUND END DIAF			3	1	1	Feet
107	Damage	4" X 3" X 18" SPALL WITH EXPOSED OVERHANG AT BENT 1 END DIAPH			3		1	Feet
107	Corrosion	SURFACE CORROSION ON BOTTO UP TO 10 FT FROM BENT 1	M FLANGE EXTI	ENDING	2	6		Feet
107	Corrosion	CORROSION ON BOTTOM FLANGE MEASURABLE SECTION LOSS EXT END AT BENT 1		ROM THE	2	4		Feet
107	Corrosion	SURFACE CORROSION BOTTOM FI END BENT 1	LANGE WEST F	ACE AT	2	1		Feet
107	Corrosion	SURFACE CORROSION ON BOTH E FULL LENGTH	DGES OF TOP	FLANGE	2	26		Feet
515	Effectiveness (Steel Protective Coatings)	5 SF. OF INEFFECTIVE PROTECTIV BOTTOM FLANGE AND WEB AT BE			3	5	5	Square Feet
515	Effectiveness (Steel Protective Coatings)					1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITE BOTH EDGES OF TOP FLANGE FUL		ESS	3	15	15	Square Feet
515	Peeling/Bubbling/Crack ing (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLAN EAST FACE NEAR BENT 1 AND AT I		MAINLY	3	30	30	Square Feet

Spa	ın 1	Beam 2						
Plat	te Girder							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Stee	l Open Girder/Beam	38	37	1	0	0	Feet
515	Stee	I Protective Coating	312	282	0	30	0	Square Feet
Elemer Numbe	Dofoct Typo	Defect Desc	ription		CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PAINTED OVER PITTING WEB AT BENT 1, 10" HIGH X 1 FT		P IN	2	1		Feet
515	Peeling/Bubbling/C ing (steel Protectiv Coatings)	Crack 30 SF. OF PEELING PAINT ON FL BE FACE AT RANDOM	ANGES AND WEB	WEST	3	30	3	0 Square Feet

General Comments

General Comments

NEW PAINT AT BENT 1 END ON WEB AND BOTTOM FLANGE EXCEPT BOTTOM OF BOTTOM FLANGE WITHIN 1 FT OF BEARING

Spa	n 1	Beam 3						
Plate	e Girder							
Elen Nun 107	nber	Element Name en Girder/Beam	Total Qty 38	CS1 Qty 31	CS2 Qty	CS3 Qty 0	CS4 Qty 0 F	eet
515	Steel Pro	tective Coating	312	276	0	36	0 S	quare Feet
Elemen Number	Dofoot Typo	Defect Descri	otion		cs	CS Qty	Maint Qty	
107	Corrosion	SURFACE CORROSION BOTTOM OF FROM 5 FT TO 10 FT FROM BENT		NGE	2	5	•	Feet
107	Corrosion	1 FT. OF PAINTED OVER PITTING WEB AT BENT 1 AROUND END DIA		PIN	2	1		Feet
107	Corrosion	SURFACE CORROSION ON BOTTO	OM FLANGE AT B	ENT 1	2	1		Feet
515	Peeling/Bubbling/Crack ing (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLA RANDOM	NGES AND WEB	AT	3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMIT BOTTOM OF BOTTOM FLANGE FR BENT 1			3	5	5	Square Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMIT BOTTOM FLANGE AT BENT 1	ED EFFECTIVEN	ESS ON	3	1	1	Square Feet
-	General Comments							

PORTIONS OF WEB AND BOTTOM FLANGE NEAR BENT 1 HAVE BEEN PAINTED SINCE 2015 INSPECTION

Spar	n 1	Beam 4						
Plate	e Girder							
Elem Num	nber	Element Name pen Girder/Beam	Total Qty 38	CS1 Qty 37	CS2 Qty	CS3 Qty	CS4 Qty	- eet
515		rotective Coating	312	282	0	30		Square Feet
Element Number	Dofoct Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PAINTED OVER PITTING WEB AT BENT 1	NG UP TO 1/16" DEE	P IN	2	1		Feet
515	Peeling/Bubbling/Cracing (steel Protective Coatings)	ck 30 SF. OF PEELING PAINT ON F RANDOM	FLANGES AND WEB	AT	3	30	30	Square Feet

PORTIONS OF WEB AND BOTTOM FLANGE NEAR BENT 1 HAVE BEEN PAINTED SINCE 2015 INSPECTION

n 1	Beam 5					
e Girder						
nent nber Steel Op	Element Name en Girder/Beam	Total Qty 38	CS1 Qty 22	CS2 Qty 16	CS3 Qty 0	CS4 Qty 0 Feet
Steel Pro	otective Coating	312	250	0	62	0 Square Feet
t Defect Type	Defect Descr	iption		cs	CS Qty	Maint Qty
C						
Corrosion	1 FT. OF PAINTED OVER PITTING WEB AROUND END DIAPHRAGM			2	1	Feet
Corrosion		AT BENT 1 EAST I S OF TOP FLANG	FACE	2	1 15	Feet Feet
	e Girder nent nber Steel Op Steel Pro t Defect Type	e Girder nent nber Element Name Steel Open Girder/Beam Steel Protective Coating	nent Befort Type Percer Perceription	Potest Type Potest Description	Potest Type Potest Description CS CS2 CS3 CS3 CS4 CS4 CS4 CS4 CS5 CS5 CS5 CS5 CS5 CS5 CS6 CS6	Potest Type Potest Posstintion CS CS CS CS CS

Peeling/Bubbling/Crack 30 SF. OF PEELING PAINT ON FLANGES AND WEB AT

ing (steel Protective RANDOM

Coatings)

30

30 Square Feet

General Comments

PORTIONS OF WEB AND BOTTOM FLANGE NEAR BENT 1 HAVE BEEN PAINTED SINCE 2015 INSPECTION

Spa	n 1	Wearing Su	rface					
Asp	halt Wearing Sur	face						
Eler Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearin	g Surface	1,140	760	0	380	0 S	quare Feet
Elemen Numbe	Dofoot Typo	Defect Descr	iption		cs	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Full length longitudinal/map cracking lanes	g up to 1/4" wide in	travel	3	300	300	Square Feet
510	Crack (Wearing Surface)	FULL WIDTH TRANSVERSE/MAP WIDE OVER END BENT 1 AND BE			3	80	80	Square Feet
-	General Comments							

Spa	n 1	Left Bridge I	Rail					
Con	crete Railing							
Elen Nun		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfor	ced Concrete Bridge Railing	38	27	0	11	0 F	eet
Elemen Numbe	Dofoct Type	Defect Descri	ption		cs	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/maprail	p cracking in curb p	oortion of	3	10	10	Feet
331	Delamination/Spall	4" DIAMETER X 1" DEEP SPALL WI END POST AT SOUTHWEST CORN		BAR AT	3	1	1	Feet
-	General Comments							

Spa	n 1	Right Bridge	Rail					
Con	crete Railing							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfo	ced Concrete Bridge Railing	38	25	1	12	0 F	eet
Elemen Numbe	Dofoct Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/maprail	p cracking in curb p	oortion of	3	12	12	Feet
331	Delamination/Spall	3" X 1" X 1/2" DEEP SPALL WITH E OF CURB AT GUARDRAIL ATTACH		IN TOP	2	1	1	Feet
	General Comments							

Span 1		Near Bearing 1						
Other B	earing							
Element Number	Element N	lame	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings		1	0	1	0	0	Each
515	Steel Protective Coating		1	0	0	1	0	Square Feet
lement lumber	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

 Structure Number: 500037
 Inspection Date: 11/04/2019

 316
 Corrosion
 CORROSION WITH NO MEASURABLE SECTION LOSS
 2
 1
 Each

 515
 Effectiveness (Steel
 COATING HAS FAILED
 3
 1
 1
 Square Feet

Protective Coatings)
General Comments

Spa	ın 1		Far Bear	ing 1					
Oth	er Beari	ing							
	ment mber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316		Other Be	earings	1	0	0	1	0	Each
515		Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dof	ect Type	Defect De	escription		cs	CS Qty	Maint Qty	
316	Corrosion	n	Section loss on outer edges with Bearing has previously been pai corrosion present.			3	1		1 Each
515		ness (Steel e Coatings)	PAINT FAILED			4	1	•	1 Square Feet
	General C	comments							

Spa Oth	an 1 er Bearing	Far Bearin	g 2					
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
lemer	Dofoct Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS OF PI	ROTECTIVE COATING	3	3	1		1 Square Feet
	General Comments							

Spa	an 1	Far Bearin	g 3					
Oth	ner Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	0	1	0	Each
515	Steel Pr	rotective Coating	1	0	0	0	1	Square Feet
Eleme	Dofoct Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with g Bearing has previously been painte corrosion present.			3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT FAILED			4	1		1 Square Feet
	General Comments							

Spa	an 1	Near Bearing	J 4					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	searings	1	0	1	0	0	Each
515	Steel P	rotective Coating	1	0	0	1	0	Square Feet
Elemer	Dofoct Type	Defect Descri	otion		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMIT	ED EFFECTIVENI	ESS	3	1		1 Square Feet
	General Comments							

Spa Oth	nn 1 er Bearing	Far Bearing	4					
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
lemer	Dofoct Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS OF PRO	TECTIVE COATING	G	3	1		1 Square Feet
	General Comments							

Spa	an 1	Near Bearin	g 5					
Oth	ner Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other I	Bearings	1	0	1	0	0	Each
515	Steel F	Protective Coating	1	0	0	1	0	Square Feet
Elemei Numbe	Dofoct Typo	Defect Descr	iption		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMIT	TED EFFECTIVENE	ESS	3	1	1	1 Square Feet
	General Comments							

Spa	ın 1	Far Bearing	5					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Elemen Numbe	Dofoct Typo	Defect Descr	iption		cs	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with gre Bearing has previously been painted corrosion present.			3	1		1 Each
515	Effectiveness (Steel	PAINT FAILED			4	1		1 Square Feet

Protective Coatings)

General Comments

Spai	n 2	Beam 1						
Plate	e Girder							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Stee	l Open Girder/Beam	38	31	6	1	0 F	eet
515	Stee	I Protective Coating	308	273	0	35	0 8	Square Feet
lement lumber	Dofoot Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
107	Corrosion	SECTION IN BOTTOM FLANGE A SECTION IN WEB AROUND END	1 FT. OF PREVIOUS CORROSION WITH 1/2" REMAINING SECTION IN BOTTOM FLANGE AND 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED OVER AND ARRESTED.				1	Feet
107	Corrosion	5 FT. OF SURFACE CORROSION NEAR BENT 2	I ON BOTTOM FLAM	NGE	2	5		Feet
107	Corrosion	PREVIOUS SECTION LOSS HAS ARRESTED 7/16" THICKNESS RE HIGH AT BENT 1 END			2	1		Feet
515	,	Effectiveness (Steel PROTECTIVE COATING HAS LIMITED EFFECTIVENESS ON Protective Coatings) BOTTOM OF BOTTOM FLANGE AT BENT 2				5	5	Square Feet
515	Peeling/Bubbling/Cing (steel Protective Coatings)	Crack 30 SF. OF PEELING PAINT ON FI e	LANGES AND WEB		3	30	30	Square Feet

eneral Comments

NEW PAINT FOR 4 FT AT BENT 1 SINCE 2015 INSPECTION

Spai	n 2	Beam 2						
Plate	e Girder							
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	38	21	17	0	0	Feet
515	Steel Pro	tective Coating	308	263	0	45	0	Square Feet
Element Number	Dofoct Typo	Defect Descripti	on		cs	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PITTING 1/16" DEEP ON WE DIAPHRAGM AT BENT 2 HAS BEEN F		ID	2	1		Feet
107	Corrosion	PITTING AT WEB UP TO 1/16" DEEP ABEEN PAINTED OVER, 1 FT HIGH	AT BENT 1 ENI	D HAS	2	1		Feet
107	Corrosion	SURFACE CORROSION ALONG BOT RANDOM	TOM FLANGE	AT	2	15		Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLANC	GES AND WEB		3	30	30) Square Fee
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED ALONG BOTTOM FLANGE AT RANDO	_	ESS	3	15	15	5 Square Fee

NEW PAINT AT BENT 1 END WEB AND BOTTOM FLANGE AND BENT 2 BOTTOM FLANGE SINCE 2015 INSPECTION

Structure Number: 500037 Inspection Date: <u>11/04/2019</u>

n 2 e Girder nent nber	Steel Open Gird	ement Name	Beam 3	Total Qty	CS1	CS2	CS3	CS4	
nent	Steel Open Gird								
	Steel Open Gird								
	'	ler/Beam			Qty	Qty	Qty	Qty	
				38	36	2	0	0 F	-eet
515 Steel Protective C		Coating		308	278	0	30	0 8	Square Feet
Defect	Defect Type Defect Description				cs	CS Qty	Maint Qty		
Corrosion		-	OVER PITTING UP T	O 1/16" DEE	P IN	2	1		Feet
Corrosion	SECT	ION IN WEB A	ROUND END DIAPH		_	2	1		Feet
	•	. OF PEELING	PAINT ON FLANGE	S AND WEB		3	30	30	Square Feet
	Defect Corrosion Corrosion Peeling/Bubling (steel Pro Coatings)	Defect Type Corrosion 1 FT. WEB Corrosion 1 FT. SECT HAS I Peeling/Bubbling/Crack 30 SF ing (steel Protective	Defect Type Corrosion 1 FT. OF PAINTED (WEB AT BENT 1 Corrosion 1 FT. OF PREVIOUS SECTION IN WEB A HAS BEEN PAINTEI Peeling/Bubbling/Crack 30 SF. OF PEELING ing (steel Protective Coatings)	Defect Type Corrosion 1 FT. OF PAINTED OVER PITTING UP T WEB AT BENT 1 Corrosion 1 FT. OF PREVIOUS CORROSION WITH SECTION IN WEB AROUND END DIAPH HAS BEEN PAINTED OVER Peeling/Bubbling/Crack 30 SF. OF PEELING PAINT ON FLANGE ing (steel Protective Coatings)	Defect Type Corrosion 1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEE WEB AT BENT 1 Corrosion 1 FT. OF PREVIOUS CORROSION WITH 7/16" REMA SECTION IN WEB AROUND END DIAPHRAGM AT BI HAS BEEN PAINTED OVER Peeling/Bubbling/Crack 30 SF. OF PEELING PAINT ON FLANGES AND WEB ing (steel Protective Coatings)	Defect Type Corrosion 1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP IN WEB AT BENT 1 Corrosion 1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED OVER Peeling/Bubbling/Crack 30 SF. OF PEELING PAINT ON FLANGES AND WEB ing (steel Protective Coatings)	Defect Type Defect Description CS Corrosion 1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP IN WEB AT BENT 1 Corrosion 1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED OVER Peeling/Bubbling/Crack 30 SF. OF PEELING PAINT ON FLANGES AND WEB ing (steel Protective Coatings)	Defect Type Defect Description CS CS Qty Corrosion 1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP IN WEB AT BENT 1 Corrosion 1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED OVER Peeling/Bubbling/Crack 30 SF. OF PEELING PAINT ON FLANGES AND WEB 3 30 ing (steel Protective Coatings)	Defect Type Defect Description CS CS Qty Qty Corrosion 1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP IN WEB AT BENT 1 Corrosion 1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED OVER Peeling/Bubbling/Crack 30 SF. OF PEELING PAINT ON FLANGES AND WEB 3 30 ing (steel Protective Coatings)

NEW PAINT AT WEB AND BOTTOM FLANGE AT BOTH ENDS SINCE 2015 INSPECTION

_						
n 2	Beam 4					
e Girder						
nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
5	Steel Open Girder/Beam	38	36	2	0	0 Feet
5	Steel Protective Coating	308	278	0	30	0 Square Feet
t Defect T	ype Defect De	Defect Description			CS Qty	Maint Qty
Corrosion			_	2	1	Feet
Corrosion			P IN	2	1	Feet
•	S .	FLANGES AND WEB		3	30	30 Square Feet
	t Defect Ty Corrosion Corrosion Peeling/Bubblin	t Defect Type Defect Defect Defect Ion In MEB AROUND BENT 1 END D	e Girder Inter Element Name Qty Steel Open Girder/Beam 38 Steel Protective Coating 308 It Defect Type Defect Description Corrosion 1 FT. OF PREVIOUS CORROSION WITH 7/16" REMASECTION IN WEB AROUND END DIAPHRAGM AT BHAS BEEN PAINTED Corrosion 1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEWEB AROUND BENT 1 END DIAPHRAGM Peeling/Bubbling/Crack 30 SF. OF PEELING PAINT ON FLANGES AND WEB	ree Girder Total CS1 Act Protective Coating 38 36 Steel Protective Coating 308 278 Total CS1 Act Protective Coating 38 36 Steel Protective Coating 308 278 The corrosion 1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED Corrosion 1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP IN WEB AROUND BENT 1 END DIAPHRAGM Peeling/Bubbling/Crack 30 SF. OF PEELING PAINT ON FLANGES AND WEB	nent Element Name Qty Qty Qty Steel Open Girder/Beam 38 36 2 Steel Protective Coating 308 278 0 t Defect Type Defect Description CS Corrosion 1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED Corrosion 1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP IN WEB AROUND BENT 1 END DIAPHRAGM Peeling/Bubbling/Crack 30 SF. OF PEELING PAINT ON FLANGES AND WEB 3	CS

NEW PAINT ON WEB AND BOTTOM FLANGE AT BOTH ENDS SINCE 2015 INSPECTION

Spa	n 2	Beam 5	i						
Plate	e Girder								
Elen Num	nber	Element Name	Total Qty	•	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	38	1	16	21	1	0	Feet
515	Steel Pro	tective Coating	308		246	0	62	0	Square Feet
Element Number	Dofoot Typo	Defect	Description			cs	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PREVIOUS CORROREMAINING SECTION IN BO REMAINING SECTION IN WE AT BENT 2 HAS BEEN PAIN' CORROSION.	TTOM FLANGE AND B AROUND END DIA	7/16" APHR <i>A</i>	AGM	3	1	1	Feet
107	Corrosion	1 FT. OF PAINTED OVER PI WEB AROUND END DIAPHR		DEEP I	IN	2	1		Feet
107	Corrosion	SURFACE CORROSION ALC AT RANDOM WHERE PAINT		TH E	DGES	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	Coating starting to fail				3	32	32	2 Square Feet
515	Peeling/Bubbling/Crack ing (steel Protective	30 SF. OF PEELING PAINT C	ON FLANGES AND W	EB		3	30	30) Square Feet

Coatings)

General Comments

NEW PAINT AT WEB AND BOTTOM FLANGE AT BOTH ENDS SINCE 2015 INSPECTION

Spa	n 2		V	Wearing Surface						
Asp	halt Wearin	g Surfac	e							
	ment nber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	0 Wearing Surface				1,125	785	0	340	0 8	Square Feet
Elemen Numbe	Dofoct T	уре		Defect Description			cs	CS Qty	Maint Qty	
510	Crack (Wearin Surface)			al/map cracking up to	racking up to 1/4" wide in travel		3	300	300	Square Feet
510			FULL WIDTH TRANS WIDE OVER BENT 2	SVERSE/MAP CRACK !,	ING UP TO	1/2"	3	40	40	Square Feet
-	General Comm	ents								

Spa	ın 2	Left Bridge	Rail					
Cor	ncrete Railing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfor	ced Concrete Bridge Railing	38	28	0	10	0 Feet	
Elemer Numbe	Dofoot Typo	Defect Descri	iption		cs	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/ma rail	p cracking in curb p	oortion of	3	10	10 Feet	
	General Comments							_

Spa	n 2	Right Bridge	e Rail					
Con	crete Railing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinford	ced Concrete Bridge Railing	38	26	0	12	0 Feet	
Elemen Numbe	Dofoot Typo	Defect Descr	iption		cs	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/ma rail	p cracking in curb p	oortion of	3	12	12 Feet	
	General Comments							_

Spar	1 2	Near Beari	ng 1					
Othe	r Bearing							
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	1	0	0	Each
515	Steel Pro	otective Coating	1	0	0	1	0	Square Feet
lement lumber	Defect Type	Defect Desc	cription		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1	•	Each
	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS OF PI	ROTECTIVE COATING	i	3	1		1 Square Feet

General Comments

Spa	an 2		Far Bear	ing 1					
Oth	er Bearing								
	ment mber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316		Other B	earings	1	0	0	1	0	Each
515		Steel Protective Coating		1	0	0	0	1	Square Feet
Elemer Numbe	Dofoct 7	Гуре	Defect De	escription		cs	CS Qty	Maint Qty	
316	Corrosion			greater than 75% remained with active surface		3	1		1 Each
515	Effectiveness Protective Co	`	PAINT FAILED			4	1		1 Square Feet
	General Comr	ments							

Spa	an 2	Near Bearin	g 2					
Oth	ner Bearing							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other E	Bearings	1	0	1	0	0	Each
515	Steel P	rotective Coating	1	0	0	1	0	Square Feet
Elemei Numbe	Dofoct Typo	Defect Descr	iption		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMI	TED EFFECTIVEN	ESS	3	1		1 Square Feet
	General Comments							

Spa	an 2		Far Bearing 2						
Oth	ner Bearing								
	ement mber	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	0	ther Bearings		1	0	1	0	0	Each
515	S	teel Protective Coating		1	0	0	1	0	Square Feet
Eleme Numb	Dofoot Tv	ре	Defect Description			cs	CS Qty	Maint Qty	
316	Corrosion	Surface rust preser	nt			2	1		Each
515	Effectiveness (S Protective Coat		fail			3	1		1 Square Feet
	General Comme	nts							

Span	2	Near Bearing	g 3					
Othe	r Bearing							
Elem Numl		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0 Each	
515	Steel Pr	otective Coating	1	0	0	1	0 Square Fe	eet
Element Number	Defect Type	Defect Descri	ption		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1	Each	
515	Effectiveness (Steel	LIMITED EFFECTIVENESS OF PRO	TECTIVE COATING	i	3	1	1 Square	Feet

Protective Coatings)
General Comments

Spa	ın 2	Far Bearing	3					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	0	1	0	Each
515	Steel Pi	rotective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	Dofoct Type	Defect Descr	iption		cs	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with gre Bearing has previously been painted corrosion present.			3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	PAINT FAILED			4	1		1 Square Feet
	General Comments							

Spa	an 2	Near Bearing	ı 4					
Oth	ner Bearing							
Nu	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel P	rotective Coating	1	0	0	1	0	Square Feet
Eleme	Dofoot Typo	Defect Descrip	otion		cs	CS Qty	Maint Qty	
316	Corrosion	SURFACE CORROSION			2	1		Each
515	Effectiveness (Steel Protective Coatings)	LIMITED EFFECTIVENESS OF PRO	TECTIVE COATIN	IG	3	1		1 Square Feet
	General Comments							

Spa	an 2	Far Bearing	4					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bo	earings	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	Dofoct Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with gre Bearing has previously been painted corrosion present.			3	1	1	I Each
515	Effectiveness (Steel Protective Coatings)	PAINT FAILED			4	1	1	I Square Feet
	General Comments							

Spa	an 2		Near Bear	ing 5					
Oth	ner Bearing								
	ement imber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316		Other B	earings	1	0	1	0	0	Each
515		Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Eleme Numb	Dofoot	Туре	Defect Des	cription		cs	CS Qty	Maint Qty	
316	Corrosion		SURFACE CORROSION			2	1		Each
515	Effectivenes Protective C		PROTECTIVE COATING HAS LII	MITED EFFECTIVENE	ESS	3	1		1 Square Feet
	General Com	ments							

Spa	an 2		Far	Bearing 5						
Oth	er B	earing								
	ment mber		Element Name	= :	otal Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316		Other Be	earings		1	0	0	1	0	Each
515		Steel Protective Coating			1	0	0	0	1	Square Feet
lemer		Defect Type	Def	ect Description			cs	CS Qty	Maint Qty	
316	Corr			es with greater than 75 en painted with active			3	1	1	Each
515 -		ctiveness (Steel ective Coatings)	PAINT FAILED				4	1	1	Square Feet
	Gene	ral Comments								

Span 2 Expansion Joint at Bent 1							
Standar	d Joint						
Element Number		ement Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourable Joint	Seal	40	40	0	0	0 Feet
Element Number	Defect Type	Defect Des	cription		cs	CS Qty	Maint Qty

General Comments

Not visible

Span 3		Deck						
Reinfo	rced Concrete	Deck						
Elemen Number	r	Element Name ced Concrete Deck	Total Qty 1,592	CS1 Qty 1,590	CS2 Qty 0	CS3 Qty 2	CS4 Qty	Square Feet
ement umber	Defect Type	Defect Des	cription		cs	CS Qty	Maint Qty	
12 De	lamination/Spall	18" X 12" X 2" DEEP SPALL WITH UNDERSIDE OF LEFT OVERHAM MULTIPLE EXPOSED BARS TRA LONGITUDINAL HAVE SECTION REMAINING (PRIORITY MAINTE	NG NEAR MID SPA NSVERSE AND LOSS WITH 50% A	N.	3	2		2 Square Feet

Spai	n 3	Beam 1						
Plate	e Girder							
Elen Num	nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Op	oen Girder/Beam	48	24	15	0	9 F	eet
515	Steel Pro	otective Coating	460	370	0	80	10 8	Square Feet
Element Number	Dofoot Tymo	Defect Description	on		CS	CS Qty	Maint Qty	
107	Corrosion	PARCORROSION 5FT LONG WITH L OUTER EDGES OF BOTTOM FLANGE REMAINING FULL WIDTH AND 1/2" TH IN WEB 5FT LONG AT BENT 3	WITH 1/2" AV	ERAGE	4	5	5	Feet
107	Corrosion	PARSECTION LOSS WITH 7/16" REM WEB AROUND END DIAPHRAGM 1 F REMAINING IN BOTTOM 6" OF WEB WIDTH REMAINING 3 FT LONG ON BUBENT 2	T LONG AND 1 VITH 5/8" X FU	/2" LL	4	4	4	Feet
107	Corrosion	SURFACE RUST ON TOP AND BOTTO VARIOUS LOCATIONS ALONG BEAM		AT	2	15		Feet
515	Effectiveness (Steel Protective Coatings)	5 SF. OF INEFFECTIVE PROTECTIVE BOTTOM FLANGE AND WEB AT BEN			4	5	5	Square Feet
515	Effectiveness (Steel Protective Coatings)	5 SF. OF INEFFECTIVE PROTECTIVE BOTTOM FLANGE AND WEB AT BEN			4	5	5	Square Feet
515	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL			3	50	50	Square Feet
515	Peeling/Bubbling/Cracing (steel Protective Coatings) General Comments	k 30 SF. OF PEELING PAINT ON FLANG	SES AND WEB		3	30	30	Square Feet

Spa	n 3	Beam 2						
Plat	e Girder							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Op	en Girder/Beam	48	20	27	1	0 F	eet
515	Steel Pro	otective Coating	460	424	0	35	1 5	Square Feet
Elemen Numbe	Dofoot Typo	Defect Descripti	on		cs	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF ACTIVE CORROSION WITH SECTION IN WEB AROUND END DIA	-,		3	1	1	Feet
107	Corrosion	SURFACE RUST ON TOP AND BOTTO VARIOUS LOCATIONS ALONG BEAM		ΑT	2	12		Feet
107	Corrosion	FRECKLED RUST ON WEB AT RAND	ОМ		2	10		Feet
107	Corrosion	SURFACE CORROSION OF WEB AND BENT 3	D BOTTOM FLA	NGE AT	2	5		Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE BENT 2	COATING ON	WEB AT	4	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMITED WEB AND BOTTOM FLANGE AT BEN		ESS AT	3	5	5	Square Feet
515	ing (steel Protective Coatings)	x 30 SF. OF PEELING PAINT ON FLANC	GES AND WEB		3	30	30	Square Feet
	General Comments							

Spa	n 3	Beam 3						
Plat	e Girder							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel C	Open Girder/Beam	48	19	25	4	0 F	eet
515	Steel F	Protective Coating	460	423	0	35	2 S	Square Feet
lemen lumbe	Dofoot Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
107	Corrosion		1 FT. OF ACTIVE CORROSION WITH 9/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2				1	Feet
107	Corrosion	SECTION IN BOTTOM FLANGE AN	3 FT. OF ACTIVE CORROSION WITH 3/4" REMAINING SECTION IN BOTTOM FLANGE AND 9/16" REMAINING SECTION 1 FT LONG IN WEB AROUND END DIAPHRAGM AT			3	3	Feet
107	Corrosion	5 FT. OF SURFACE CORROSION (LOWER WEB NO MEASURABLE S			2	5		Feet
107	Corrosion	SURFACE CORROSION OF BOTTO WHERE PAINT HAS PEELED	OM FLANGE AT R	ANDOM	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTI BOTTOM FLANGE AND WEB AT B			4	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTI BENT 2	VE COATING ON	WEB AT	4	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	5 SF. OF INEFFECTIVE PROTECTI BOTTOM FLANGE AND WEB AT B			3	5	5	Square Feet
515	Peeling/Bubbling/Craing (steel Protective Coatings)	ack 30 SF. OF PEELING PAINT ON FLA	NGES AND WEB		3	30	30	Square Feet

Span	3	Beam 4						
Plate	Girder							
Eleme Numb	•	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	48	46	1	1	0	Feet
515	Steel Pro	tective Coating	460	428	0	31	1	Square Feet
Element Number	Defect Type	Defect Descript	ion		cs	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF ACTIVE CORROSION WITH SECTION IN WEB AROUND END DIA		_	3	1	1	I Feet
107	Corrosion	1 FT. OF SURFACE CORROSION ON DIAPHRAGM AT BENT 2	I WEB AROUND	END	2	1		Feet
	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE BENT 3	E COATING ON	WEB AT	4	1	1	Square Feet
i	Peeling/Bubbling/Crack ing (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLAN	GES AND WEB		3	30	30) Square Feet
	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE BENT 2	E COATING ON	WEB AT	3	1	1	Square Feet
G	eneral Comments							

Spa	n 3	Beam 5						
Plat	e Girder							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Op	en Girder/Beam	48	35	9	4	0	Feet
515	Steel Pro	otective Coating	460	419	0	35	6	Square Feet
Elemen Numbe	Defect Type	Defect Descript	ion		cs	CS Qty	Maint Qty	
107	Corrosion	4 FT. OF ACTIVE CORROSION WITH SECTION IN WEB AROUND DIAPHR. WEB AND 3/4" THICKNESS REMAINI BOTTOM FLANGE AT BENT 2 BEAM PAINTED WITH ACTIVE SURFACE C	AM AND BOTTO NG FULL WIDT ENDS HAVE BE	OM 6" OF H	3	4	2	l Feet
107	Corrosion	SURFACE CORROSION 1FT LONG E BENT 3 NO SECTION LOSS	BOTTOM FLANG	SE AT	2	4		Feet
107	Corrosion	5 FT. OF SURFACE CORROSION 1F BENT 3	T LONG ON WE	B AT	2	5		Feet
515	Effectiveness (Steel Protective Coatings)	6 SF. OF INEFFECTIVE PROTECTIVE AND BOTTOM FLANGE AT BENT 2	E COATING ON	WEB	4	6	6	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	k 30 SF. OF PEELING PAINT ON FLAN	GES AND WEB		3	30	30) Square Feet
515	Effectiveness (Steel	5 SF. OF INEFFECTIVE PROTECTIVE	COATING ON	WEB AT	3	5	Ę	Square Feet

Spa	n 3	Wearing Su	rface					
Asp	halt Wearing Surfa	nce						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing	Surface	1,425	1,182	0	243	0 S	quare Feet
lemen lumbe	Dofoct Typo	Defect Descr	iption		cs	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Full length longitudinal/map cracking lanes	g up to 3/16" wide	in travel	3	200	200	Square Feet
510	Crack (Wearing Surface)	FULL WIDTH TRANSVERSE/MAP OF WITH ASPHALT DETERIORATION POT HOLES UP TO 1' LONG X 2" N	WITH UP TO 3/4	' DEEP	3	40	40	Square Feet
510	Patched Area/Pothole (Wearing Surface)	3' Long x 6" wide x 2 1/2" deep poth 3	ole at right should	er at pier	3	3	3	Square Feet
-	General Comments				·		•	

Spa	ın 3	Left Bridge	Rail					
Cor	ncrete Railing							
	ment mber Reinfor	Element Name roed Concrete Bridge Railing	Total Qty 48	CS1 Qty 27	CS2 Qty	CS3 Qty 20	CS4 Qty 0 F	eet
 lemer	Dofoot Typo	Defect Descri	iption		cs	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/ma rail	p cracking in curb	portion of	3	20	20	Feet
331	Delamination/Spall	3" X 3/4" X 1/4" DEEP SPALL WITH OF CURB AT 15 FT FROM BENT 2		R IN TOP	2	1	1	Feet

General Comments

Spa	n 3	Right Bridge	e Rail					
Con	crete Railing							
Eler Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfo	rced Concrete Bridge Railing	48	32	1	15	0 F	eet
Elemen Numbe	Dofoot Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/mar	p cracking in curb p	ortion of	3	15	15	Feet
331	Delamination/Spall	3" X 1" X 1/2" DEEP SPALL WITH E OF RAIL POST AT BENT 2	XPOSED REBAR	IN FACE	2	1	1	Feet
-	General Comments							

Spa	an 3	Near Bearing 1						
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty		CS4 Qty	
316	Other B	earings	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	1	0	0	Square Feet
Elemei Numbe	Dofoot Typo	Defect Description			cs	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST			3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE			2	1		1 Square Feet
	General Comments							

Spa	ın 3	Far Bearing	g 1					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other	Bearings	1	0	1	0	0	Each
515	Steel F	Protective Coating	1	0	1	0	0	Square Feet
Elemen Numbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST			2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE			2	1		1 Square Feet
•	General Comments							

Spa	n 3	Near Bearing 2						
Oth	er Bearing							
Nur	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bo	earings	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	1	0	0	Square Feet
Elemen Numbe	Dofoot Typo	Defect Description	n		cs	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST			3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE			2	1		1 Square Feet

General Comments

Spa	ın 3	Far Bearing 2						
Oth	er Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	1	0	0	Square Feet
Elemer Numbe	Defect Type	Defect Descriptio	n		cs	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST			2	1		Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE			2	1		1 Square Feet
	General Comments							

Spar	n 3	Near Bearing 3						
Othe	er Bearing							
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	1	0	0	Square Feet
Element Number	Dofoct Typo	Defect Description	on		cs	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST			2	1		Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE			2	1		1 Square Feet
(General Comments							

Spa	an 3	Far Bearing 3						
Oth	ner Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other I	Bearings	1	0	1	0	0	Each
515	Steel F	Protective Coating	1	0	1	0	0	Square Feet
Eleme Numbe	Dofoot Typo	Defect Description	l		cs	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST			2	1		Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE			2	1		1 Square Feet
	General Comments							

Span Other	3 Bearing		Near Bearing 4						
Eleme		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Oth	her Bearings		1	0	1	0	0	Each
515	Ste	eel Protective Coating		1	0	1	0	0	Square Feet
lement Jumber	Defect Typ	oe	Defect Description			cs	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE R	UST			2	1		Each

515 Effectiveness (Steel SUBSTANTIALLY EFFECTIVE 2 1 1 Square Feet Protective Coatings)

General Comments

Spa Oth	in 3 er Bearing	Far Bearing 4						
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	1	0	0	Each
515	Steel Pro	otective Coating	1	0	1	0	0	Square Feet
Elemen Numbe	Dofoot Typo	Defect Descriptio	n		cs	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST			2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE			2	1		1 Square Feet
	General Comments							

Spa	an 3		Near Bearing 5	5					
Oth	ner Bearing								
	ement mber	Elemer	nt Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	0	ther Bearings		1	0	1	0	0	Each
515	S	teel Protective Coat	ting	1	0	1	0	0	Square Feet
Eleme	Dofoot Tv	ре	Defect Descripti	on		cs	CS Qty	Maint Qty	
316	Corrosion	LIGHT SU	RFACE RUST			2	1		Each
515	Effectiveness (S Protective Coat		TIALLY EFFECTIVE			2	1		1 Square Feet
	General Comme	nts							

Spa	an 3	Far Bearing 5						
Oth	ner Bearing							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	0	1	0	Each
515	Steel Pr	otective Coating	1	0	1	0	0	Square Feet
Eleme	Dofoot Tymo	Defect Description	on		cs	CS Qty	Maint Qty	
316	Corrosion	LIGHT SURFACE RUST			3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	SUBSTANTIALLY EFFECTIVE			2	1	1	Square Feet
	General Comments							

Span 3		Expansion Joint a	at Bent 2					
Standa	d Joint							
Element Number		•	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal		40	40	0	0	0 Feet	
Element Number	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

General Comments

Not visible

Spa	n 4	Beam 1						
Plat	e Girder							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	33	7	23	0	3 F	eet
515	Steel Pro	tective Coating	246	170	40	30	6 8	Square Feet
Elemen Numbe	Defect Type Defect Description			cs	CS Qty	Maint Qty		
107	Corrosion	PAR1/4" section loss with 3/8" average remaining full width of bottom flange 3' long. Beam end has been painted with rust staining present at pier 3.			4	3	3	Feet
107	Corrosion	2 FT. OF PREVIOUS CORROSION WE REMAINING SECTION IN WEB ARO AND BOTTOM 3" OF WEB 3' LONG BEEN CLEANED AND PAINTED OV	UND END DIAPH AT BENT 4 AREA	HRAGM	2	3		Feet
107	Corrosion	Freckled rust present on top and botto various locations along beam	om flanges and w	eb at	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	Coating has failed.			4	6	6	Square Feet
515	Peeling/Bubbling/Crack ing (steel Protective Coatings)				3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	ffectiveness (Steel Substantially effective			2	40	40	Square Feet

General Comments

BOLTED PLATE REPAIR FULL HEIGHT X 1' LONG TO WEB AT BENT 3 NEW PAINT AT BOTH BEAM ENDS

Spa	ın 4	Beam 2						
Plat	e Girder							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Op	oen Girder/Beam	33	20	13	0	0 1	Feet
515	Steel Pro	otective Coating	246	196	20	30	0 \$	Square Feet
Elemen Numbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 4 PAINTED OVER			2	1	·	Feet
107	Corrosion	1 FT. OF CORROSION WITH 7/16 WEB AROUND END DIAPHRAGM PAINTED OVER		-	2	1		Feet
107	Corrosion	Freckled rust present on top and be various locations along beam	ottom flanges and w	eb at	2	10		Feet
107	Corrosion	Section loss up to 3/16" with 3/4" average remaining 1' long at beam end over pier 3. Beam end has been cleaned and painted.			2	1		Feet
515	Peeling/Bubbling/Cracing (steel Protective Coatings)	eling/Bubbling/Crack 30 SF. OF PEELING PAINT ON FLANGES AND WEB g (steel Protective			3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	ctiveness (Steel Substantially effective			2	20	20	Square Feet

General Comments

NEW PAINT AT BOTH ENDS SINCE 2015 INSPECTION

							•	
Span	ո 4	Beam 3						
Plate	e Girder							
Eleme Numi	ber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Op	oen Girder/Beam	33	22	11	0	0 F	eet
515	Steel Pro	otective Coating	246	196	20	30	0 S	Square Feet
Element Number	Dofoot Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PREVIOUS CORROSION SECTION IN WEB AROUND END D PAINTED OVER		_	2	1		Feet
107	Corrosion	Freckled rust present on top and bot various locations along beam	tom flanges and w	eb at	2	10		Feet
i	Peeling/Bubbling/Cracing (steel Protective Coatings)	k 30 SF. OF PEELING PAINT ON FLA	NGES AND WEB		3	30	30	Square Feet
515 I	Effectiveness (Steel	Substantially effective			2	20	20	Square Feet

General Comments

BOLTED PLATE REPAIR TO WEB ON BEAM 3 SPAN 4 24" X 24" AT BENT 3 END BOTH FACES NEW PAINT AT BOTH ENDS

Spai	า 4	Beam 4						
Plate	e Girder							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	33	11	22	0	0	Feet
515	Steel Pro	tective Coating	246	175	40	31	0	Square Feet
lement	Dofoot Typo	Defect Descrip	otion		cs	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF SURFACE CORROSION O PITTNG WEB AT BENT 4	N BOTTOM FLAI	NGE AND	2	1	-	Feet
107	Corrosion	1 FT. OF PREVIOUS CORROSION V SECTION IN WEB AROUND END DI HAS BEEN PAINTED			2	1		Feet
107	Corrosion	Freckled rust present on top and botto various locations along beam	om flanges and w	eb at	2	20		Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLAI	NGES AND WEB		3	30	30) Square Fee
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE BOTTOM FLANGE AND WEB AT BE			3	1	1	Square Fee
515	Effectiveness (Steel Protective Coatings)	Substantially effective			2	40	40) Square Fee
-	General Comments							

NEW PAINT AT BENT 3 END SINCE 2015 INSPECTION

Span 4	4	Beam 5						
Plate (Girder							
Elemer Number	er	Element Name pen Girder/Beam	Total Qty 33	CS1 Qty 6	CS2 Qty 26	CS3 Qty	CS4 Qty	
515		rotective Coating	246	163	50	31	·	Square Feet
Element Number	Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
107 Co	orrosion	PARSECTION LOSS UP TO 3/8" REMAINING FULL WIDTH OF BO ON BEAM END OVER PIER 3. BE CLEANED AND PAINTED WITH A CORROSION. PLATE REPAIR AD	TTOM FLANGE 1FT AM END HAS BEE CTIVE SURFACE	LONG N	4	1	·	1 Feet

Structure	Number: <u>500037</u>			Insped	ction D	ate: 11/04/2019
		EXTEND OUT TO DEFECT.				
107	Corrosion	1 FT. OF SURFACE CORROSION ON BOTTOM FLANGE AND WEB AT BENT 4	2	1		Feet
107	Corrosion	Freckled rust present on top and bottom flanges and web at various locations along beam	2	25		Feet
515	Effectiveness (Steel Protective Coatings)	Coating has failed.	4	2	2	Square Feet
515	Peeling/Bubbling/Cracing (steel Protective Coatings)	k 30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON BOTTOM FLANGE AND WEB AT BENT 4	3	1	1	Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	50	50	Square Feet

General Comments

BOLTED PLATE REPAIR 24" X 24" TO WEB BOTH SIDES AND 24" BOTTOM FLANGE WEST SIDE BEAM 5 SPAN 4 AT BENT 3 NEW PAINT AT BOTH ENDS

Asp	halt Wearing Surfa	ace						
Elen Num	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing	Surface	975	707	0	268	0 S	quare Feet
lement umber	Dofoot Typo	Defect De	scription		cs	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Full length longitudinal/map craclanes	king up to 1/8" wide in	travel	3	225	225	Square Feet
510	Crack (Wearing Surface)	FULL WIDTH TRANSVERSE/MA WIDE OVER BENT 4,	AP CRACKING UP TO	1/2"	3	40	40	Square Feet
510	Patched Area/Pothole (Wearing Surface)	3' Long x 6" wide x 2 1/2" deep p	othole at left shoulder	at pier 3	3	3	3	Square Feet

Spa		Left Bridge I	Rail					
Con	crete Railing							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfor	ced Concrete Bridge Railing	33	20	1	12	0 F	eet
Elemen Numbe	Dofoct Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/maprail	o cracking in curb p	portion of	3	12	12	Feet
331	Delamination/Spall	3" X 1" X 1/2" DEEP SPALL WITH E OF CURB AT 10 FT FROM BENT 4	XPOSED REBAR	IN TOP	2	1	1	Feet
-	General Comments							

Spai	n 4	Right Bridge	e Rail					
Con	crete Railing							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfor	ced Concrete Bridge Railing	33	18	0	15	0 Fe	eet
Element Number	Dofoot Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/maprail	p cracking in curb p	oortion of	3	15	15	Feet
-								

Spa	ın 4	Near Bearin	ng 1					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	1	0	0	Each
515	Steel Pro	otective Coating	1	0	0	1	0	Square Feet
Elemer Numbe	Dofoct Typo	Defect Desc	ription		CS	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with gr Bearing has previously been painte corrosion present.			2	1		Each
515	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL			3	1		1 Square Feet
	General Comments							

Span 4	Far Bearing

Element	Floring Norma	Total	CS1	CS2	CS3	CS4
Number	Element Name	Qty	Qty	Qty	Qty	Qty
316	Other Bearings	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Elemen Numbe	Defeat Time	Defect Description	cs	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	Coating starting to fail.	3	1	1	Square Feet

General Comments

Near Bearing 2

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qtv	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Elemen Numbe	Dofoot Typo	Defect Description	cs	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL	3	1	1	Square Feet

General Comments

Span 4 Far Bearing 2

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	1	0	0	0 Each
515	Steel Protective Coating	1	1	0	0	0 Square Feet

Element Number Defect Type Defect Description CS CS Qty Qty

General Comments

BEARING HAS BEEN PAINTED SINCE 2015 INSPECTION

Spa	an 4	Near Bearin	ng 3					
Oth	ner Bearing							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pi	rotective Coating	1	0	0	1	0	Square Feet
Eleme	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
316	Corrosion		Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.			1		Each
515	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL			3	1	1	I Square Feet
	General Comments							

		g 3					
er Bearing							
ent ber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Other Be	arings	1	0	1	0	0	Each
Steel Pro	tective Coating	1	0	0	1	0	Square Feet
Defect Type	Defect Description			cs	CS Qty	Maint Qty	
Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with light rust staining present.			2	1		Each
Effectiveness (Steel Protective Coatings)	Coating starting to fail.			3	1		1 Square Feet
	ent ber Other Be Steel Pro Defect Type Corrosion Effectiveness (Steel	ent ber Element Name Other Bearings Steel Protective Coating Defect Type Defect Desc Corrosion Section loss on outer edges with g Bearing has previously been painted present. Effectiveness (Steel Protective Coatings)	ent ber Element Name Qty Other Bearings 1 Steel Protective Coating 1 Defect Type Defect Description Corrosion Section loss on outer edges with greater than 75% rem Bearing has previously been painted with light rust stair present. Effectiveness (Steel Protective Coatings)	ent ber Element Name Qty Qty Other Bearings 1 0 Steel Protective Coating 1 0 Defect Type Defect Description Corrosion Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with light rust staining present. Effectiveness (Steel Protective Coatings)	ent ber Element Name Qty Qty Qty Other Bearings 1 0 1 Steel Protective Coating 1 0 0 Defect Type Defect Description CS Corrosion Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with light rust staining present. Effectiveness (Steel Protective Coatings) 3	tent ber Element Name Other Bearings 1 0 1 0 1 0	ent ber Element Name Qty

Spa	an 4	Near Bearin	g 4					
Oth	ner Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	rotective Coating	1	0	0	1	0	Square Feet
Elemer Numbe	Dofoct Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.			2	1		Each
515	Effectiveness (Steel Protective Coatings)	COATING STARTING TO FAIL			3	1		1 Square Feet
	General Comments							

Structure Number: <u>500037</u> Inspection Date: <u>11/04/2019</u>

ın 4	Far Beari	ng 4					
er Bearing							
ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Other Be	arings	1	0	1	0	0	Each
Steel Pro	tective Coating	1	0	0	1	0	Square Feet
Element Number Defect Type		scription		cs	CS Qty	Maint Qty	
Corrosion	9	earing has previously been painted with light rust staining			1		Each
Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LI	IMITED EFFECTIVEN	ESS	3	1		1 Square Feet
	er Bearing ment nber Other Be Steel Pro t Defect Type Corrosion Effectiveness (Steel	rer Bearing The property of the project Type Tourness on outer edges with Bearing has previously been pair present. Effectiveness (Steel Type Tourness (Steel Protective Coating Protective Coating Tourness (Steel Protective C	rer Bearing Total Other Bearings Other Bearings Steel Protective Coating Total Qty Other Bearings 1 Steel Protective Coating 1 Defect Description Corrosion Section loss on outer edges with greater than 75% rem Bearing has previously been painted with light rust stair present. Effectiveness (Steel PROTECTIVE COATING HAS LIMITED EFFECTIVEN	ment Element Name Qty Qty Other Bearings 1 0 Steel Protective Coating 1 0 tr Defect Type Defect Description Corrosion Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with light rust staining present. Effectiveness (Steel PROTECTIVE COATING HAS LIMITED EFFECTIVENESS	ment Element Name Qty Qty Qty Other Bearings 1 0 1 Steel Protective Coating 1 0 0 tr Defect Type Defect Description CS Corrosion Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with light rust staining present. Effectiveness (Steel PROTECTIVE COATING HAS LIMITED EFFECTIVENESS 3	ment Element Name Total CS1 CS2 CS3 May Otty Otty Other Bearings 1 0 1 0 1 0 Steel Protective Coating 1 0 0 1 Total CS1 CS2 CS3 May Otty Otty Otty Otty Other Bearings 1 0 1 0 1 0 Steel Protective Coating 1 0 0 1 Total CS1 CS2 CS3 May Otty Otty Other Bearings 1 0 1 0 1 0 Steel Protective Coating 1 0 0 1 1 Total CS1 CS2 CS3 May Otty Other Bearings 1 0 1 0 1 0 0 1 1 Total CS1 CS2 CS3 May Otty Other Bearing 1 0 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0	ment Element Name Otty Otty Otty Otty Otty Otty Otty Ott

l	Near Bea	ring 5					
Bearing							
it r	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Other Be	earings	1	0	1	0	0	Each
Steel Pro	otective Coating	1	0	0	1	0	Square Feet
Element Number Defect Type		scription		cs	CS Qty	Maint Qty	
orrosion				2	1		Each
fectiveness (Steel otective Coatings)	COATING STARTING TO FAIL			3	1		1 Square Feet
	Bearing It Other Be Steel Pri Defect Type orrosion fectiveness (Steel	t Element Name Other Bearings Steel Protective Coating Defect Type Defect De orrosion Section loss on outer edges with Bearing has previously been pair corrosion present. fectiveness (Steel COATING STARTING TO FAIL	t Element Name Qty Other Bearings 1 Steel Protective Coating 1 Defect Type Defect Description Perrosion Section loss on outer edges with greater than 75% rem Bearing has previously been painted with active surface corrosion present. Sectiveness (Steel COATING STARTING TO FAIL	t Element Name Qty Qty Other Bearings 1 0 Steel Protective Coating 1 0 Defect Type Defect Description Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present. Sectiveness (Steel COATING STARTING TO FAIL	t Element Name Qty Qty Qty Other Bearings 1 0 1 Steel Protective Coating 1 0 0 Defect Type Defect Description CS Perrosion Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present. Rectiveness (Steel COATING STARTING TO FAIL 3	t Element Name Qty Qty Qty Qty Qty Other Bearings 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	t Element Name Qty

General Comments

Spa	an 4	Far Bearing	5					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	0	1	Square Feet
Elemer Numbe	Dofoot Typo	Defect Descri	otion		cs	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present.			2	1		Each
515	Effectiveness (Steel Protective Coatings)	FAILED COATING			4	1	1	I Square Feet
	General Comments							

Span 4		Expansion Joint at Bent 3						
Standar	d Joint							
Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal		40	40	0	0	0 Feet	
Element Number	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

General Comments Not visible

Spa	ın 5	Deck						
Rei	nforced Concrete	Deck						
	ment nber Reinfor	Element Name ced Concrete Deck	Total Qty 1,106	CS1 Qty 1,091	CS2 Qty	CS3 Qty 5	CS4 Qty 0 Square Fee	et
Elemen Numbe	Dofoct Type	Defect Descri	ption	,	cs	CS Qty	Maint Qty	
12	Delamination/Spall	3 SPALLS WITH EXPOSED REBAR DECK NEAR BENT 4 UP TO 3" DIA		-	3	3	3 Square F	eet
12	Delamination/Spall	TWO SPALL WITH EXPOSED REB DECK 4" DIAMETER X 1" DEEP AT			3	2	2 Square F	eet
12	Delamination/Spall	A FEW SMALL AREAS UP TO DELA UNDERSIDE WEST/EAST OVERHA LOCATIONS		•	2	3	3 Square F	eet
12	Cracking (RC and Other)	7' long hairline diagonal crack with m deck bay 4 at abutment 2	ninor efflo. in unde	erside of	2	7	7 Square F	eet
	General Comments							

Spa	n 5	Beam 1						
Plate	e Girder							
Elen Nun		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	33	11	20	2	0 !	Feet
515	Steel Pro	tective Coating	257	183	40	34	0 :	Square Feet
lemen lumbei	Defect Type	Defect Des	scription		cs	CS Qty	Maint Qty	
107	Corrosion	bottom flange. Beam end has be	" section loss with 3/8" average remaining full width of tom flange. Beam end has been painted with active surface rosion present. No PAR issued due to repair plate added at r 4.			2	2	? Feet
107	Corrosion	Freckled rust present on top and various locations along beam	bottom flanges and w	eb at	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	Coating starting to fail			3	4	4	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON F	FLANGES AND WEB		3	30	30) Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective			2	40	40	Square Feet

BOLTED PLATE REPAIR TO BOTTOM FLANGE WEST AND BOTH FACES OF WEB AT BENT 4 BEAM END AT BENT 4 HAS BEEN PAINTED.

Span	5	Beam 2						
Plate	Girder							
Eleme Number	er	Element Name Open Girder/Beam	Total Qty 33	CS1 Qty 19	CS2 Qty	CS3 Qty	CS4 Qty	
515		Protective Coating	257	201	24	32	0	Square Feet
Element Number	Defect Type	Defect Des	scription		cs	CS Qty	Maint Qty	
107 C	CORROSION WITH		2" WIDE AREA OF PREVIOUS 1 1/4" REMAINING SECTION IN WEB PHRAGM AT BENT 4 AREA HAS BEEN ND ARRESTED.		4	1		1 Feet

Structure	Number: <u>500037</u>			Inspe	ction Date: 11/04/2019
107	Corrosion	Freckled rust present on top and bottom flanges and web at various locations along beam	2	12	Feet
107	Corrosion	Minor section loss less than 1/16" on bottom flange 1' long at pier 4. Beam end has been painted over with no active corrosion	2	1	Feet
515	Peeling/Bubbling/Cracing (steel Protective Coatings)	k 30 SF. OF PEELING PAINT ON FLANGES AND WEB	3	30	30 Square Feet
515	Effectiveness (Steel Protective Coatings)	Coating has failed	3	2	2 Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective	2	24	24 Square Feet

General Comments

BEAM END AT BENT 4 HAS BEEN PAINTED SINCE 2015 INSPECTION

Plate Girder Element Number 107 515 Element Number Defect 107 Corrosion	·	Element Name en Girder/Beam tective Coating	Total Qty 33 257	CS1 Qty 22	CS2 Qty	CS3 Qty	CS4 Qty	
Number 107 515 Element Number Defect	·	en Girder/Beam	Qty 33	Qty	Qty			
515 Element Number Defec	·				11	0	0 1	Feet
Number Defe			251	207	20	30		Square Feet
107 Corrosion	ct Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
		1 FT. OF PREVIOUS CORROSION SECTION IN WEB AROUND END HAS BEEN PAINTED		_	2	1	·	Feet
107 Corrosion		Freckled rust present on top and bo various locations along beam	ottom flanges and w	eb at	2	10		Feet
515 Peeling/Bu ing (steel F Coatings)		30 SF. OF PEELING PAINT ON FL	ANGES AND WEB		3	30	30) Square Feet
515 Effectivene Protective	,	Substantially effective			2	20	20	Square Feet

Spa	n 5	Beam 4						
Plat	e Girder							
Elen Nun		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Op	en Girder/Beam	33	16	17	0	0	Feet
515	Steel Pro	tective Coating	257	195	30	32	0	Square Feet
Elemen Numbe	Dofoot Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
107	Corrosion	Freckled rust present on top and bottom flanges and web at various locations along beam				15		Feet
107	Corrosion	1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING 2 1 SECTION IN WEB AROUND END DIAPHRAGM AT BENT 4 HAS BEEN PAINTED				Feet		
107	Corrosion	Minor section loss less than 1/16" on bottom flange 1' long at pier 4. Beam end has been painted over with no active corrosion				1		Feet
515	Effectiveness (Steel Protective Coatings)	Coating has failed.			3	2	2	2 Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	k 30 SF. OF PEELING PAINT ON F	FLANGES AND WEB		3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective			2	30	30	Square Feet

Spa	n 5	Beam 5						
Plat	e Girder							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Ope	en Girder/Beam	33	7	22	0	4 F	eet
515	Steel Pro	tective Coating	257	179	40	30	8 S	quare Feet
Elemen Numbe	Defeat Time	Defect Descript	ion		cs	CS Qty	Maint Qty	
107	Corrosion	PAR1/4" section loss with 3/8" average bottom flange 4' long. Beam end has be staining present at pier 4.	4	4	4	Feet		
107	Corrosion	SURFACE CORROSION ON BOTTOM FLANGE EAST FACE 10" LONG AT END BENT 2 NO SECTION LOSS				1		Feet
107	Corrosion	1 FT. OF PREVIOUS CORROSION WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 4 HAS BEEN PAINTED				1		Feet
107	Corrosion	Freckled rust present on top and bottor various locations along beam	m flanges and w	eb at	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS FAILED)		4	8	8	Square Feet
515	Peeling/Bubbling/Cracking (steel Protective Coatings)	30 SF. OF PEELING PAINT ON FLAN	GES AND WEB		3	30	30	Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective			2	40	40	Square Feet

Spa	n 5	Wearing Su	rface					
Asp	halt Wearing Sur	face						
	ment nber Wearin	Element Name g Surface	Total Qty 990	CS1 Qty 800	CS2 Qty 0	CS3 Qty 190	CS4 Qty 0 S	quare Feet
Elemer Numbe	Defect Type	Defect Descr	iption		cs	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Full length longitudinal/map cracking lanes	g up to 1/4" wide in	travel	3	150	150	Square Feet
510	Crack (Wearing	FULL WIDTH TRANSVERSE/MAP	CRACKS UP TO 1/	4" WIDE	3	40	40	Square Feet
	Surface)	OVER END BENT 2						

Spa	an 5	Left Bridge F	Rail					
Co	ncrete Railing							
	ement mber Reinfor	Element Name ced Concrete Bridge Railing	Total Qty 33	CS1 Qty 19	CS2 Qty 2	CS3 Qty 12	CS4 Qty 0 F	eet
Eleme Numb	Defect Type	Defect Descrip	otion		cs	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/map rail	cracking in curb p	ortion of	3	12	12	Feet
331	Delamination/Spall	TWO SPALLS WITH EXPOSED REB IN TOP OF CURB AT 12 FT AND 6 F			2	2	2	Feet
	General Comments							

Structure Number: <u>500037</u> Inspection Date: <u>11/04/2019</u>

Spa	an 5	Right Bridge	Rail					
Co	ncrete Railing							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfor	ced Concrete Bridge Railing	33	16	2	15	0 F	eet
Eleme Numbe	Defect Type	Defect Descrip	tion		cs	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Hairline to 1/16" wide transverse/map rail	cracking in curb p	ortion of	3	15	15	Feet
331	Delamination/Spall	TWO SPALLS WITH EXPOSED REB. IN TOP/FRONT FACE OF CURB 4 F			2	2	2	Feet
	General Comments							

Spa	an 5	Near Bearin	ng 1					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Be	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Eleme	Dofoct Typo	Defect Desci	ription		cs	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with grundless previously been painted corrosion present.			2	1		Each
515	Effectiveness (Steel Protective Coatings)	Coating starting to fail.			3	1		1 Square Feet
	General Comments							

Spa	an 5			Far Bearing 1						
Oth	ner Bearing									
	ement Imber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316		Other B	earings		1	0	1	0	0	Each
515		Steel Pr	otective Coating		1	0	0	1	0	Square Feet
Eleme Numb	Dofoot	Туре		Defect Description			cs	CS Qty	Maint Qty	
316	Corrosion		Light surface rust				2	1		Each
515	Effectiveness Protective Co		LIMITED EFFECTIV	VENESS			3	1		1 Square Feet
	General Com	ments								

Span	5	Near	Bearing 2					
Other	Bearing							
Eleme Numb		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS ² Qty	
316	C	Other Bearings	1	0	1	0	0	Each
515	S	teel Protective Coating	1	0	1	0	0	Square Feet
Element Number	Defect Ty	rpe Defec	ct Description		cs	CS Qty	Maint Qty	
316 C	Corrosion	Section loss on outer edges Bearing has previously been present.			2	1	·	Each

Structure Number: 500037 Inspection Date: 11/04/2019

2

3

1

1 Square Feet

Effectiveness (Steel Coating starting to fail

Protective Coatings) **General Comments**

Span 5 **Near Bearing 3 Other Bearing** Element Total CS1 CS2 CS3 CS4 Number **Element Name** Qty Qty Qty Qty Qty Other Bearings 316 0 0 Each 515 Steel Protective Coating 0 0 1 0 Square Feet 1 Element Maint **Defect Type Defect Description** cs CS Qty Number Qty Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with light rust staining 316 Corrosion 2 Each present. 515 Effectiveness (Steel 1 Square Feet

Protective Coatings) **General Comments**

Coating starting to fail

Spa Oth	ın 5 er Bearing	Near Bear	ing 4					
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pi	rotective Coating	1	0	1	0	0	Square Feet
lemen lumbe	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
316	Corrosion	Section loss on outer edges with Bearing has previously been pain present.			2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	Coating starting to fail.			2	1		1 Square Feet

General Comments

n 5	Near Bear	ing 5					
er Bearing							
ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Other Be	arings	1	0	1	0	0	Each
Steel Pro	tective Coating	1	0	0	0	1	Square Feet
t r Defect Type	Defect Des	scription		cs	CS Qty	Maint Qty	
Corrosion				2	1		Each
Effectiveness (Steel Protective Coatings)	Coating starting to fail.			4	1		1 Square Feet
	er Bearing ment nber Other Be Steel Pro tr Defect Type Corrosion Effectiveness (Steel	ment Bearing The Defect Type Defect Desire Corrosion Section loss on outer edges with Bearing has previously been pain corrosion present. Effectiveness (Steel Coating starting to fail.	rer Bearing ment Element Name Qty Other Bearings 1 Steel Protective Coating 1 Other Defect Type Defect Description Corrosion Section loss on outer edges with greater than 75% rem. Bearing has previously been painted with active surface corrosion present. Effectiveness (Steel Coating starting to fail.	ment Element Name Qty Qty Other Bearings 1 0 Steel Protective Coating 1 0 Steel Protective Coating 1 0 Other Defect Type Defect Description Corrosion Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present. Effectiveness (Steel Coating starting to fail.	ment Element Name Qty Qty Qty Other Bearings 1 0 1 Steel Protective Coating 1 0 0 It Defect Type Defect Description CS Corrosion Section loss on outer edges with greater than 75% remaining. Bearing has previously been painted with active surface corrosion present. Effectiveness (Steel Coating starting to fail.	ment Element Name Other Bearings 1 0 1 0 1 0 1 0 Steel Protective Coating 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ment Element Name Qty

Structure Number: 500037 Inspection Date: 11/04/2019

								•	
Spa	an 5		Far Bearing 5						
Oth	ner Bearing								
	ement Imber	Element Name		Total Qty	CS1 Qty	CS2 Qty		CS4 Qty	
316	Othe	r Bearings		1	0	0	1	0	Each
515	Stee	I Protective Coating		1	0	0	1	0	Square Feet
Eleme Numb	Dofoot Typo		Defect Description			CS	CS Qty	Maint Qty	
316	Corrosion	Light surface rust				3	1		Each
515	Effectiveness (Stee Protective Coating		VENESS			3	1		1 Square Feet
	General Comments	S							

Span 5		Expansion Joint a	at Bent 4					
Standar	d Joint							
Element Number	Element Na	ame	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal		40	40	0	0	0 Feet	
Element Number	Defect Type	Defect Description			cs	CS Qty	Maint Qty	

General Comments

Not visible

Ben	t 1	Cap 1						
Reir	nforced Concrete	Pier Cap						
Elen Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfo	rced Concrete Pier Cap	40	29	3	8	0	Feet
Elemen Numbe	Dofoct Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
234	Delamination/Spall	24" X 8" DELAMINATION WITH C SOUTH FACE UNDER WEST OV PORTION			3	2	:	2 Feet
234	Cracking (RC and Other)	6' LONG X 1/8" WIDE HORIZONT. UNDER BAY 1	AL CRACK NORTH	FACE	3	6	(6 Feet
234	Cracking (RC and Other)	HORIZONTAL CRACK 3 FT LONG SOUTH FACE MID WAY BETWEE			2	3		Feet

General Comments

HORIZONTAL HAIRLINE CRACK IN SOUTH FACE UNDER BAY 4 2 FT. LONG HORIZONTAL HAIRLINE CRACK IN BOTTOM FACE BETWEEN COLUMNS 1 AND 2

l	Pile 1						
orced Concrete	Column						
er	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Reinfor	ced Concrete Column	1	0	0	1	0 1	Each
Defect Type	Defect Des	scription		cs	CS Qty	Maint Qty	
elamination/Spall	3 FT X 9" X 1" DEEP SPALL AND NORTHEAST CORNER	DELAMINATION AT		3		3	Each
elamination/Spall				3	1	5	Each
	nt er Reinfor	nt er Element Name Reinforced Concrete Column Defect Type Defect Desemblation/Spall 3 FT X 9" X 1" DEEP SPALL AND NORTHEAST CORNER Delamination/Spall 6 FT X 9" FT X 2" DEEP SPALL NORTHEAST CORNER	Drced Concrete Column Int Element Name Qty Reinforced Concrete Column 1 Defect Type Defect Description Total Qty Reinforced Concrete Column 1 Defect Type Defect Description Total Qty Reinforced Concrete Column 1 Neglight Specific S	Defect Type Defect Type Defect Type Defect Description Spall 3 FT X 9" X 1" DEEP SPALL AND DELAMINATION AT NORTHEAST CORNER	Defect Type Defect Description CS	Defect Type Defect Type Defect Description Defect Type Defect Description Spall 3 FT X 9" X 1" DEEP SPALL AND DELAMINATION AT NORTHEAST CORNER Delamination/Spall 6 FT X 9" FT X 2" DEEP SPALL WITH EXPOSED RUSTED 3 1	Total CS1 CS2 CS3 CS4

Structure Number: 500037 Inspection Date: <u>11/04/2019</u>

Bent	t 1	Pile 2						
Rein	forced Concrete	Column						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinfor	ced Concrete Column	1	0	0	1	0 E	Each
Element Number	Dofoct Typo	Defect Descrip	otion		cs	CS Qty	Maint Qty	
205	Cracking (RC and Other)	VERTICAL CRACKS UP TO 7 FT LO NORTH FACE	NG AND 1/16" WI	DE IN	3		7	Each
205	Delamination/Spall	4 FT X 1 FT X 1/2" DEEP SPALL AND CRACKS UP TO 1/8" WIDE IN NORT		N WITH	3	1	4	Each
205	Delamination/Spall	SEVERAL AREAS OF DELAMINATION TO 1/16" WIDE ON NORTH FACE	ONS WITH CRACI	KING UP	2		6	Each
(General Comments							

l Bent 1	Abutment						
nforced Concrete	Abutment						
ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Reinford	ced Concrete Abutment	60	56	2	2	0 Fee	et
nt r Defect Type	Defect Desc	cription		cs	CS Qty	Maint Qty	
Delamination/Spall	CRACK WITH EFFLORESCENCE	12" LONG X UP TO		3	2	2 F	eet
Cracking (RC and Other)	1' long horizontal hairline crack at	east end		2	1	F	eet
Cracking (RC and Other)	1' long vertical hairline to 1/32" cra	ck abay 3		2	1	F	eet
	nforced Concrete ment nber Reinfor T Defect Type Delamination/Spall Cracking (RC and Other) Cracking (RC and	ment nber Element Name Reinforced Concrete Abutment It Defect Type Defect Description SPALL WITH EXPOSED REBAR CRACK WITH EFFLORESCENCE WIDE IN CURTAIN WALL AT WEST Cracking (RC and Other) Cracking (RC and 1' long horizontal hairline to 1/32" cra	ment nber Element Name Qty Reinforced Concrete Abutment 60 It Defect Type Defect Description Delamination/Spall SPALL WITH EXPOSED REBAR 12" X 2" X 1/2" DEEF CRACK WITH EFFLORESCENCE 12" LONG X UP TO WIDE IN CURTAIN WALL AT WEST END Cracking (RC and Other) Cracking (RC and 1' long vertical hairline to 1/32" crack abay 3	ment Blement Name Blement Name Reinforced Concrete Abutment Blement Name Reinforced Concrete Abutment 60 56 Intrace Defect Type Defect Description Delamination/Spall SPALL WITH EXPOSED REBAR 12" X 2" X 1/2" DEEP WITH CRACK WITH EFFLORESCENCE 12" LONG X UP TO 1/32" WIDE IN CURTAIN WALL AT WEST END Cracking (RC and Other) Cracking (RC and 1' long horizontal hairline to 1/32" crack abay 3	ment Blement Name Reinforced Concrete Abutment Total CS1 CS2 Qty Qty Qty Reinforced Concrete Abutment 60 56 2 It Defect Type Defect Description CS Delamination/Spall SPALL WITH EXPOSED REBAR 12" X 2" X 1/2" DEEP WITH CRACK WITH EFFLORESCENCE 12" LONG X UP TO 1/32" WIDE IN CURTAIN WALL AT WEST END Cracking (RC and Other) 1' long horizontal hairline crack at east end Other) Cracking (RC and 1' long vertical hairline to 1/32" crack abay 3 2	ment Blement Name Blement Name Reinforced Concrete Abutment Blement Name Reinforced Concrete Abutment Blement Name Reinforced Concrete Abutment But Name Reinforced Concrete Abutment Bu	ment Blement Name Blement Name CS1 CS2 CS3 CS4 Oty Reinforced Concrete Abutment 60 56 2 2 0 0 Fee out reinforced Concrete Abutment 60 56 2 2 0 0 Fee out reinforced Concrete Abutment 60 56 2 2 1 0 Fee out reinforced Concrete Abutment 60 56 2 2 2 1 0 Fee out reinforced Concrete Abutment 60 56 2 2 2 1 0 Fee out reinforced Concrete Abutment 60 56 2 2 2 1 0 Fee out reinforced Concrete Abutment 60 56 2 2 2 1 0 Fee out reinforced Concrete Abutment 60 56 2 2 2 1 0 Fee out reinforced Concrete Abutment 60 56 2 2 2 1 0 Fee out reinforced Concrete Abutment 60 56 2 2 2 1 0 Fee out reinforced Concrete Abutment 60 56 2 2 2 1 0 Fee out reinforced Concrete Abutment 60 56 2 2 2 1 0 Fee out reinforced Concrete Abutment 60 56 2 2 2 1 0 Fee out reinforced Concrete Abutment 60 56 2 2 2 1 0 Fee out reinforced Concrete Abutment 60 56 2 2 2 1 0 Fee out reinforced Concrete Abutment 60 56 2 2 2 1 0 Fee out reinforced Concrete Abutment 60 56 2 2 2 2 1 0 Fee out reinforced Concrete Abutment 60 56 2 2 2 2 1 0 Fee out reinforced Concrete Abu

End	Bent 1	Cap 1						
Rein	forced Concrete	Pier Cap						
Elen Nun		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	48	38	2	8	0 F	eet
lement	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
234	Cracking (RC and Other)	6 FT HORIZONTAL CRACK UP T 1	O 1/16" WIDE UNDE	R BEAM	3	6	6	Feet
234	Delamination/Spall	8" X 2 FT X 1/2" DEEP SPALL WI UNDER BAY 4	ITH EXPOSED REBA	.R	3	1	1	Feet
234	Delamination/Spall	8" DIAMETER X 1" DEEP SPALL UNDER BAY 4	WITH EXPOSED RE	BAR	3	1	1	Feet
234	Cracking (RC and Other)	2 FT HORIZONTAL CRACK UP T	O 1/32" WIDE UNDE	R BAY 4	2	2		Feet

Structure Number: 500037 Inspection Date: <u>11/04/2019</u>

Ber	nt 2	Cap 1						
Rei	nforced Concrete	Pier Cap						
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	40	19	13	8	0 F	eet
lemer	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
234	Cracking (RC and Other)	6FT LONG HORIZONTAL CRACK BAYS 1 AND 2 NORTH FACE	UP TO 1/4" WIDE U	NDER	3	6	6	Feet
234	Cracking (RC and Other)	DIAGONAL CRACK UP TO 1/16" V SPAN 2 SIDE	VIDE BEAM 1 PEDE	STAL	3	1	1	Feet
234	Cracking (RC and Other)	DIAGONAL CRACK UP TO 1/16" V PEDESTAL UNDER BEAM 2	VIDE IN EAST FACE	OF	3	1	1	Feet
234	Cracking (RC and Other)	2' LONG 1/32" HORIZONTAL CRA BEAM 4	CK NORTH FACE U	NDER	2	2		Feet
234	Delamination/Spall	3 FT X 1 FT X 6" DELAMINATION BEAM 5 IN FLUTED PORTION	IN UNDERSIDE UNI	DER	2	3	3	Feet
234	Delamination/Spall	3 FT X 1.5 FT HIGH DELAMINATION 1/4" WIDE IN SOUTH FACE UNDE		РТО	2	3	3	Feet
234	Delamination/Spall	8" DIAMETER DELAMINATION AN DEEP SPALL WITH EXPOSED RE FACE UNDER BEAM 1	•		2	1	1	Feet
234	Cracking (RC and Other)	DIAGONAL CRACK UP TO 1/32" V EAST FACE	VIDE IN BEAM 2 PE	DESTAL	2	1		Feet
234	Cracking (RC and Other)	HORIZONTAL CRACK UP TO 1/32 UNDER BEAM 4	" WIDE ON SOUTH	FACE	2	3		Feet

End Be	ent 2	Abutmen	t					
Reinfo	rced Concrete	Abutment						
Elemen Numbe	· -	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinfor	ced Concrete Abutment	60	59	1	0	0 Feet	
Element Number	Defect Type	Defect De	scription		cs	CS Qty	Maint Qty	
215 De	elamination/Spall	3" diameter x up to 3/4" deep spa long hairline horizontal crack.	all in bay 1 at beam 1 v	vith a 6"	2	1	1 Feet	
Ger	neral Comments							

End	Bent 2	Cap 1						
Rei	nforced Concrete	Pier Cap						
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	48	44	0	4	0 Fee	et
lemen lumbe	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
234	Cracking (RC and Other)	HORIZONTAL CRACK 4 FT LONG OF CAP UNDER BEAM 5	G UP TO 1/8" WIDE IN	N FACE	3	4	4 F	eet
	General Comments							

Structure Number: 500037 Inspection Date: <u>11/04/2019</u>

							•	
Ber	nt 3	Cap 1						
Rei	nforced Concrete	Pier Cap						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	40	38	1	1	0	Feet
Elemer Numbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
234	Delamination/Spall	SPALL WITH EXPOSED REBAR 1 NORTH FACE UNDER BEAM 4	FT X 9" X 1" DEEP	IN	3	1	1	Feet
234	Delamination/Spall	9" DIAMETER DELAMINATION NO 5	ORTH FACE UNDER	RBEAM	2	1	1	Feet
	General Comments							

Ben	nt 3	Pile 1						
Rei	nforced Concrete	Column						
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinford	ced Concrete Column	1	0	1	0	0	Each
Elemen Numbe	Dofoct Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
205	Cracking (RC and Other)	VERTICAL THRU CRACK 7 FT LON OF CRASHWALL BOTH FACES	IG X 1/4" WIDE IN	MIDDLE	3		7	⁷ Each
205	Cracking (RC and Other)	VERTICAL THRU CRACK 7 FT LON OF CRASHWALL BOTH FACES	IG X 1/8" WIDE IN	MIDDLE	3		1	Each
205	Cracking (RC and Other)	AREA OF HAIRLINE MAP CRACKIN FACE OF CRASH WALL	NG 10' LONG ON S	SOUTH	2			Each
205	Delamination/Spall	9" X 6" X 1/2" DEEP SPALL WITH E LOSS IN SOUTH FACE BELOW CA		NO	2	1	1	Each
	General Comments							

Ben	t 3	Pile 2						
Rein	forced Concrete	Column						
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinfor	ced Concrete Column	1	0	0	1	0 E	ach
Element Number	Dofoct Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
205	Delamination/Spall	PARSPALL WITH EXPOSED RE HORIZONTAL TIE 3 FT X 1 FT X CORNER MID HEIGHT WITH SEC	4" DEEP IN NORTHE		3	1	3	Each
205	Delamination/Spall	4 FT X 2 FT AREA OF DELAMINA TO 1/2" WIDE AT SOUTHEAST C		ING UP	2		4	Each
(General Comments							

Ben	t 4	Cap 1						
Reir	forced Concrete	Pier Cap						
Elen Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	40	38	2	0	0	Feet
lemen	Dofoot Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
234	Cracking (RC and Other)	2 hairline to 1/32" wide horizontal that extend on to north face 1.5' lo		f cap	2	2	•	Feet
-	General Comments							

Structure Number: 500037 Inspection Date: 11/04/2019

Ben Rei	it 4 nforced Concrete	Pile 1 Column						
Nur	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	,
205	Reinfor	ced Concrete Column	1	0	1	0	0	Each
Elemen Numbe	Dofoot Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
205	Cracking (RC and Other)	VERTICAL CRACK 5 FT LONG UNORTHEAST CORNER	JP TO 1/8" WIDE AT		2	1		Each
	General Comments							

Ber	nt 4	Pile 2						
Rei	nforced Concrete	Column						
	ment nber Reinfor	Element Name ced Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty	CS3 Qty	CS4 Qty 0 Each	
Elemer Numbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
205	Delamination/Spall	6 FT X 9" AREA OF DELAMINATION 1/8" WIDE AT NORTHEAST CORN		G UP TO	3	1	6 Each	_

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1273
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	38
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	38
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	38
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	38
Span 1	Beam 5	Plate Girder	Steel Open Girder/Beam	38
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	38
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	38
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1140
Span 1	Near Bearing 1	Other Bearing	Other Bearings	1
Span 1	Far Bearing 1	Other Bearing	Other Bearings	1
Span 1	Near Bearing 2	Other Bearing	Other Bearings	1
Span 1	Far Bearing 2	Other Bearing	Other Bearings	1
Span 1	Near Bearing 3	Other Bearing	Other Bearings	1
Span 1	Far Bearing 3	Other Bearing	Other Bearings	1
Span 1	Near Bearing 4	Other Bearing	Other Bearings	1
Span 1	Far Bearing 4	Other Bearing	Other Bearings	1
Span 1	Near Bearing 5	Other Bearing	Other Bearings	1
Span 1	Far Bearing 5	Other Bearing	Other Bearings	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1257
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	38
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	38
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	38
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	38
Span 2	Beam 5	Plate Girder	Steel Open Girder/Beam	38
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	38
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	38
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1125
Span 2	Near Bearing 1	Other Bearing	Other Bearings	1
Span 2	Far Bearing 1	Other Bearing Other Bearing	Other Bearings	1
Span 2	Near Bearing 2	Other Bearing Other Bearing	Other Bearings	1
Span 2	Far Bearing 2	Other Bearing Other Bearing	Other Bearings	1
Span 2	Near Bearing 3	Other Bearing Other Bearing	Other Bearings Other Bearings	1
Span 2	Far Bearing 3	Other Bearing Other Bearing	Other Bearings	1
Span 2	Near Bearing 4	Other Bearing Other Bearing	Other Bearings	1
Span 2	Far Bearing 4	Other Bearing Other Bearing	Other Bearings Other Bearings	1
Span 2	Near Bearing 5	Other Bearing Other Bearing	Other Bearings Other Bearings	1
Span 2	Far Bearing 5	Other Bearing Other Bearing	Other Bearings Other Bearings	1
Span 3	Deck Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1592
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	48
Span 3	Beam 2	Plate Girder Plate Girder	Steel Open Girder/Beam	48
-		Plate Girder Plate Girder	'	48
Span 3	Beam 3		Steel Open Girder/Beam	
Span 3	Beam 4 Beam 5	Plate Girder Plate Girder	Steel Open Girder/Beam	48
Span 3			Steel Open Girder/Beam	
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	48

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	48
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1425
Span 3	Near Bearing 1	Other Bearing	Other Bearings	1
Span 3	Far Bearing 1	Other Bearing	Other Bearings	1
Span 3	Near Bearing 2	Other Bearing	Other Bearings	1
Span 3	Far Bearing 2	Other Bearing	Other Bearings	1
Span 3	Near Bearing 3	Other Bearing	Other Bearings	1
Span 3	Far Bearing 3	Other Bearing	Other Bearings	1
Span 3	Near Bearing 4	Other Bearing	Other Bearings	1
Span 3	Far Bearing 4	Other Bearing	Other Bearings	1
Span 3	Near Bearing 5	Other Bearing	Other Bearings	1
Span 3	Far Bearing 5	Other Bearing	Other Bearings	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1089
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	33
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	33
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	33
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	33
Span 4	Beam 5	Plate Girder	Steel Open Girder/Beam	33
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	33
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	33
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	975
Span 4	Near Bearing 1	Other Bearing	Other Bearings	1
Span 4	Far Bearing 1	Other Bearing	Other Bearings	1
Span 4	Near Bearing 2	Other Bearing	Other Bearings	1
Span 4	Far Bearing 2	Other Bearing	Other Bearings	1
Span 4	Near Bearing 3	Other Bearing	Other Bearings	1
Span 4	Far Bearing 3	Other Bearing	Other Bearings	1
Span 4	Near Bearing 4	Other Bearing	Other Bearings	1
Span 4	Far Bearing 4	Other Bearing	Other Bearings	1
Span 4	Near Bearing 5	Other Bearing	Other Bearings	1
Span 4	Far Bearing 5	Other Bearing	Other Bearings	1
Span 5	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1106
Span 5	Beam 1	Plate Girder	Steel Open Girder/Beam	33
Span 5	Beam 2	Plate Girder	Steel Open Girder/Beam	33
Span 5	Beam 3	Plate Girder	Steel Open Girder/Beam	33
Span 5	Beam 4	Plate Girder	Steel Open Girder/Beam	33
Span 5	Beam 5	Plate Girder	Steel Open Girder/Beam	33
Span 5	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	33
Span 5	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	33
Span 5	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	990
Span 5	Near Bearing 1	Other Bearing	Other Bearings	1
Span 5	Far Bearing 1	Other Bearing	Other Bearings	1
Span 5	Near Bearing 2	Other Bearing	Other Bearings	1
Span 5	Far Bearing 2	Other Bearing	Other Bearings	1
Span 5	Near Bearing 3	Other Bearing	Other Bearings	1

Elements Verfied

Location Name		Component	Element Name	Amount	
Span 5	Far Bearing 3	Other Bearing	Other Bearings	1	
Span 5	Near Bearing 4	Other Bearing	Other Bearings	1	
Span 5	Far Bearing 4	Other Bearing	Other Bearings	1	
Span 5	Near Bearing 5	Other Bearing	Other Bearings	1	
Span 5	Far Bearing 5	Other Bearing	Other Bearings	1	
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	40	
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1	
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	48	
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	60	
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	40	
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1	
End Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	48	
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	60	
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	40	
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 4	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	40	
Bent 4	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1	
Bent 4	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1	

General Inspection Notes

Span 2	Expansion Joint at Bent 1
Not visible	
Span 3	Expansion Joint at Bent 2
Not visible	
Span 4	Expansion Joint at Bent 3
Not visible	
Span 4	Far Bearing 2
BEARING HAS E	EEN PAINTED SINCE 2015 INSPECTION
Span 5	Expansion Joint at Bent 4
Not visible	

National Bridge and NC Inspection Items

Structure Number: 500037 Inspection Date: 11/04/2019

National Bridge Inventory Items

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

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation				
Drift	G, F, P, or C		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	G		
Superstructure Paint Code		Α		

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

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Υ
Inspection Time	Hours	8
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	Υ
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 500037 Inspection Date: 11/04/2019

Item General Comments and Misc Items Grade Maint Code Qty. 0

Details Guardrail impact damage to southeast terminal end

Guardrail impact damage to southwest rail midway 10' long

Guardrail impact damage to southwest rail 40' from bridge 10' long

36" X 8" X 3" DEEP SPALL WITH EXPOSED REBAR IN BENT 4 END DIAPHRAGM AND A 9" WIDE X 1' HIGH X 2" DEEP SPALL AT BEAM 2 IN BAY 1 SPAN 5

12" X 4" X 2" DEEP SPALL WITH EXPOSED REBAR IN BENT 4 END DIAPHRAGM AT EAST END

18" X 12" X 3" DEEP SPALL WITH EXPOSED REBAR AND A 1' LONG X 9" WIDE X 2" DEEP SPALL NO EXPOSED REBAR AT BEAM 2 IN BENT 3 DIAPHRAGM OVER PIER 3 IN BAY 1

12" X 4" X 2" DEEP SPALL WITH EXPOSED REBAR IN BENT 3 END DIAPHRAGM WEST END

24" X 6" X 2" DEEP SPALL WITH EXPOSED REBAR IN BENT 4 END DIAPHRAGM IN BAY 4

18" X 6" X 1 1/2" DEEP SPALL WITH EXPOSED REBAR IN BENT 1 END DIAPHRAGM IN BAY 1

18" X 10" X 2" DEEP SPALL WITH EXPOSED REBAR IN BENT 1 END DIAPHRAGM IN BAY 2

9" X 4" X 1" DEEP SPALL WITH EXPOSED REBAR IN BENT 1 END DIAPHRAGM IN BAY 3

4 FT X 9" X 2" DEEP SPALL WITH EXPOSED REBAR IN END DIAPHRAGM AT BENT 1

9" X 6" X 1" DEEP SPALL WITH EXPOSED REBAR IN BENT 2 END DIAPHRAGM IN BAY 3



Guardrail impact damage to southeast terminal end



Guardrail impact damage to southwest rail midway 10' long



Guardrail impact damage to southwest rail 40' from bridge 10' long



Span 1 Wearing Surface: Full length longitudinal/map cracking up to 1/4" wide in travel lanes



Span 1 Wearing Surface: FULL WIDTH TRANSVERSE/MAP CRACKING UP TO 1/2" WIDE OVER END BENT 1 AND BENT 1, BENT 1 SHOWN



Span 3 Wearing Surface: FULL WIDTH TRANSVERSE/MAP CRACK UP TO 2" WIDE WITH ASPHALT DETERIORATION WITH UP TO 3/4" DEEP POT HOLES UP TO 1' LONG X 2" WIDE OVER BENT 3



Span 3 Wearing Surface: 3' Long x 6" wide x 2 1/2" deep pothole at right shoulder at pier 3



Span 4 Wearing Surface: 3' Long x 6" wide x 2 1/2" deep pothole at left shoulder at pier 3



Typical small surface spall with exposed rebar in top of curb, span 5 left rail shown



Typical hairline to 1/16" wide transverse/map cracking in curb portion of rail, right rail span 5 shown



Span 1 Left Bridge Rail: 4" DIAMETER X 1" DEEP SPALL WITH EXPOSED REBAR AT END POST AT SOUTHWEST CORNER



BEAM 1 BOLTED PLATE REPAIR TO BOTTOM FLANGE WEST SIDE AND BOTH FACES OF WEB AT BENT 4 SPAN



Span 5 Beam 1: 1/4" section loss with 3/8" average remaining full width of bottom flange. Beam end has been painted with active surface corrosion present. No PAR issued due to repair plate added at pier 4.



Span 5 Beam 2: PAR--1 FT LONG X 2" WIDE AREA OF PREVIOUS CORROSION WITH 1/4" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 4 AREA HAS BEEN PAINTED OVER AND ARRESTED.



36" X 8" X 3" DEEP SPALL WITH EXPOSED REBAR IN BENT 4 END DIAPHRAGM IN BAY 1 SPAN 5 AND A 9" WIDE X 1' HIGH X 2" DEEP SPALL AT BEAM 2 IN BAY 1 SPAN 5



Span 5 Beam 5: PAR--1/4" section loss with 3/8" average remaining full width of bottom flange 4' long. Beam end has been painted with rust staining present at pier 4.



12" X 4" X 2" DEEP SPALL WITH EXPOSED REBAR IN BENT 4 END DIAPHRAGM AT EAST END



End Bent 2 Cap 1: HORIZONTAL CRACK 4 FT LONG UP TO 1/8" WIDE IN FACE OF CAP UNDER BEAM 5



Bent 4 Pile 2: 6 FT X 9" AREA OF DELAMINATION WITH CRACKING UP TO 1/8" WIDE AT NORTHEAST CORNER



Bent 4 Pile 1: VERTICAL CRACK 5 FT LONG UP TO 1/8" WIDE AT NORTHEAST CORNER



Span 4 Beam 1: PAR--1/4" section loss with 3/8" average remaining full width of bottom flange 3' long. Beam end has been painted with rust staining present at pier 3.



BOLTED PLATE REPAIR FULL HEIGHT X 1' LONG TO WEB AT BENT 3 BEAM 1 SPAN 4



Span 3 Beam 1: PAR--CORROSION 5FT LONG WITH UP TO 5/8" LOSS AT OUTER EDGES OF BOTTOM FLANGE WITH 1/2" AVERAGE REMAINING FULL WIDTH AND 1/2" THICKNESS REMAINING IN WEB 5FT LONG AT BENT 3



18" X 12" X 3" DEEP SPALL WITH EXPOSED REBAR AND A 1' LONG X 9" WIDE X 2" DEEP SPALL NO EXPOSED REBAR AT BEAM 2 IN BENT 3 DIAPHRAGM OVER PIER 3 IN BAY 1, BAY 2 SIMILAR



BOLTED PLATE REPAIR TO WEB ON BEAM 3 SPAN 4 24" X 24" AT BENT 3 END BOTH FACES



BEARING REPAIR AT BEAM 4 PIER 3 SPAN 4 EAST SIDE.



BOLTED PLATE REPAIR 24" X 24" TO WEB BOTH SIDES AND 24" BOTTOM FLANGE WEST SIDE BEAM 5 SPAN 4 AT BENT 3



BEARING REPAIR AT BEAM 5 PIER 3 SPAN 4 WEST SIDE.



Span 4 Beam 5: PAR--SECTION LOSS UP TO 3/8" WITH 3/8" AVERAGE REMAINING FULL WIDTH OF BOTTOM FLANGE 1FT LONG ON BEAM END OVER PIER 3. BEAM END HAS BEEN CLEANED AND PAINTED WITH ACTIVE SURFACE CORROSION. PLATE REPAIR ADDED BUT DOES NOT EXTEND OUT TO DEFECT.



Span 3 Beam 1: PAR--SECTION LOSS WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM 1 FT LONG AND 1/2" REMAINING IN BOTTOM 6" OF WEB WITH 5/8" X FULL WIDTH REMAINING 3 FT LONG ON BOTTOM FLANGE AT BENT 2



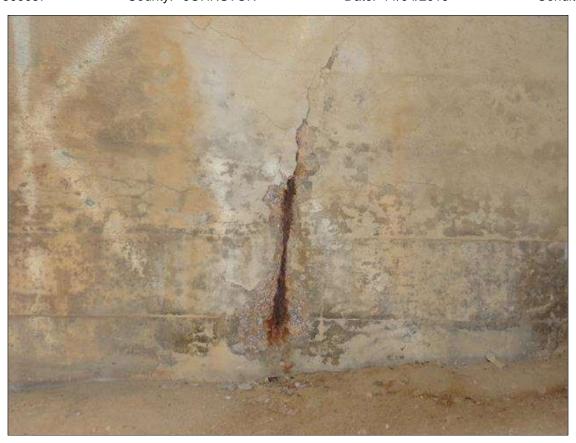
Span 2 Beam 1: 1 FT. OF PREVIOUS CORROSION WITH 1/2" REMAINING SECTION IN BOTTOM FLANGE AND 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED OVER AND ARRESTED.



Span 3 Beam 5: 4 FT. OF ACTIVE CORROSION WITH 1/2" REMAINING SECTION IN WEB AROUND DIAPHRAM AND BOTTOM 6" OF WEB AND 3/4" THICKNESS REMAINING FULL WIDTH BOTTOM FLANGE AT BENT 2 BEAM ENDS HAVE BEEN PAINTED WITH ACTIVE SURFACE CORROSION



Span 2 Beam 5: 1 FT. OF PREVIOUS CORROSION WITH 1/2" X FULL WIDTH REMAINING SECTION IN BOTTOM FLANGE AND 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 HAS BEEN PAINTED WITH ACTIVE SURFACE CORROSION



End Bent 1 Cap 1: 8" X 2 FT X 1/2" DEEP SPALL WITH EXPOSED REBAR UNDER BAY 4



End Bent 1 Cap 1: 8" DIAMETER X 1" DEEP SPALL WITH EXPOSED REBAR UNDER BAY 4



End Bent 1 Abutment/Backwall : SPALL WITH EXPOSED REBAR 12" X 2" X 1/2" DEEP WITH CRACK WITH EFFLORESCENCE 12" LONG X UP TO 1/32" WIDE IN CURTAIN WALL AT WEST END



Bent 1 Cap 1: 24" X 8" DELAMINATION WITH CRACKS UP TO 1/4" WIDE IN SOUTH FACE UNDER WEST OVERHANG IN FLUTED PORTION



Bent 1 Cap 1: HORIZONTAL CRACK 3 FT LONG UP TO 1/8" WIDE IN SOUTH FACE MID WAY BETWEEN COLUMNS 1 AND 2



Bent 1 Pile 1: 6 FT X 9" FT X 2" DEEP SPALL WITH EXPOSED RUSTED REBAR NO SECTION LOSS AT NORTHWEST CORNER



Bent 1 Pile 1: 3 FT X 9" X 1" DEEP SPALL AND DELAMINATION AT NORTHEAST CORNER



Bent 1 Pile 2: 4 FT X 1 FT X 1/2" DEEP SPALL AND DELAMINATION WITH CRACKS UP TO 1/8" WIDE IN NORTH FACE



Bent 2 Cap 1: 3 FT X 1.5 FT HIGH DELAMINATION WITH CRACK UP TO 1/4" WIDE IN SOUTH FACE UNDER BEAM 3



Bent 1 Cap 1: 6' LONG X 1/8" WIDE HORIZONTAL CRACK NORTH FACE UNDER BAY 1



Bent 2 Cap 1: 8" DIAMETER DELAMINATION AND 6" DIAMETER X 1/2" DEEP SPALL WITH EXPOSED REBAR NO LOSS IN NORTH FACE UNDER BEAM 1



Bent 2 Cap 1: 6FT LONG HORIZONTAL CRACK UP TO 1/4" WIDE UNDER BAYS 1 AND 2 NORTH FACE



Bent 2 Cap 1: 3 FT X 1 FT X 6" DELAMINATION IN UNDERSIDE UNDER BEAM 5 IN FLUTED PORTION



Bent 2 Pile 1: VERTICAL THRU CRACK 7 FT LONG UP TO 1/2" WIDE IN MIDDLE OF CRASH WALL BOTH FACES



Bent 3 Cap 1: SPALL WITH EXPOSED REBAR 1 FT X 9" X 1" DEEP IN NORTH FACE UNDER BEAM 4



Bent 3 Pile 2: PAR--SPALL WITH EXPOSED REBAR AND BROKEN HORIZONTAL TIE 3 FT X 1 FT X 4" DEEP IN NORTHEAST CORNER MID HEIGHT WITH SECTION LOSS



Bent 3 Pile 1: VERTICAL THRU CRACK 7 FT LONG X 1/4" WIDE IN MIDDLE OF CRASHWALL BOTH FACES



Bent 3 Pile 2: 4 FT X 2 FT AREA OF DELAMINATION WITH CRACKING UP TO 1/2" WIDE AT SOUTHEAST CORNER



Bent 3 Pile 1: VERTICAL THRU CRACK 7 FT LONG X 1/8" WIDE IN MIDDLE OF CRASHWALL BOTH FACES

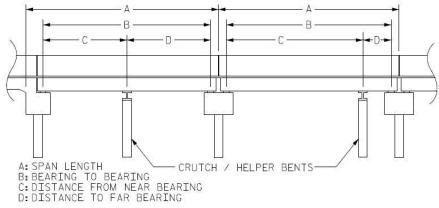


Bent 3 Pile 1: 9" X 6" X 1/2" DEEP SPALL WITH EXPOSED REBAR NO LOSS IN SOUTH FACE BELOW CAP

Structure Data Worksheet

Span Profile





Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	38.000	36.000			
2	37.500	36.500			
3	47.500	46.500			
4	32.500	31.500			
5	33.000	31.000			



Guardrail terminal end northwest corner, northeast and southeast similar



Looking south



Guardrail post spacing midway northwest shown, all others similar



Guardrail post spacing at bridge northwest shown, northeast and southeast similar



Guardrail attachment to bridge northwest shown



Guardrail transition at bridge southwest corner shown



Guardrail terminal end southwest corne



Looking north



Guardrail attachment to bridge southeast shown, northeast similar



Looking west



Looking east



Abutment 1, abutment 2 similar



Superstructure underside span 2 shown, all others similar



West elevation



Looking east through span 3



Looking west through span 3



East elevation



Pier 4, pier 1 similar



Typical bearing beam 2 at pier 4 span 5 shown



Pier 2, pier 3 similar

County JOHNSTON Bridge: 500037 Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3314	Maintain Steel Superstructure Components	LF	4	Span 3 Beam 1: PARSECTION LOSS WITH 7/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM 1 FT LONG AND 1/2" REMAINING IN BOTTOM 6" OF WEB WITH 5/8" X FULL WIDTH REMAINING 3 FT LONG ON BOTTOM FLANGE AT BENT 2	
3314	Maintain Steel Superstructure Components	LF	5	Span 3 Beam 1: PARCORROSION 5FT LONG WITH UP TO 5/8" LOSS AT OUTER EDGES OF BOTTOM FLANGE WITH 1/2" AVERAGE REMAINING FULL WIDTH AND 1/2" THICKNESS REMAINING IN WEB 5FT LONG AT BENT 3	
3314	Maintain Steel Superstructure Components	LF	3	Span 4 Beam 1: PAR1/4" section loss with 3/8" average remaining full width of bottom flange 3' long. Beam end has been painted with rust staining present at pier 3.	
3314	Maintain Steel Superstructure Components	LF	1	Span 4 Beam 5: PARSECTION LOSS UP TO 3/8" WITH 3/8" AVERAGE REMAINING FULL WIDTH OF BOTTOM FLANGE 1FT LONG ON BEAM END OVER PIER 3. BEAM END HAS BEEN CLEANED AND PAINTED WITH ACTIVE SURFACE CORROSION. PLATE REPAIR ADDED BUT DOES NOT EXTEND OUT TO DEFECT.	
3314	Maintain Steel Superstructure Components	LF	1	Span 5 Beam 2: PAR1 FT LONG X 2" WIDE AREA OF PREVIOUS CORROSION WITH 1/4" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 4 AREA HAS BEEN PAINTED OVER AND ARRESTED.	
3314	Maintain Steel Superstructure Components	LF	4	Span 5 Beam 5: PAR1/4" section loss with 3/8" average remaining full width of bottom flange 4' long. Beam end has been painted with rust staining present at pier 4.	
3348	Maintain Concrete Substructure Components	LF	3	Bent 3 Pile 2: PARSPALL WITH EXPOSED REBAR AND BROKEN HORIZONTAL TIE 3 FT X 1 FT X 4" DEEP IN NORTHEAST CORNER MID HEIGHT WITH SECTION LOSS	



Bridge: 500037 County JOHNSTON

MMS Code	MMS Des	MMS Description Quantity					
3314	Maintain S	Maintain Steel Superstructure Components 4 LF					
Location:	Location:						
		Bent/Span No.					
Priority Leve	I	Status					
Priority Main	tenance	Division Bridge Maint	tenance Noti	fication			
Submitted D	ate: Subn	itted By:		Assisted By:			
11/04/2019	Rick	Wertman					
Details							
	ND 1/2" REN	IAINING IN BOTTOM 6" (IG SECTION IN WEB AROUND END TH 5/8" X FULL WIDTH REMAINING			

MMS Code	MN	MMS Description Quantity				
3314	Mai	ntain Stee	Superstructure Components		5	LF
Location:						
			Bent/Span No.			
Priority Leve	el		Status			
Priority Mair	ntenan	ce	Division Bridge Maintenance Noti	fication		
Submitted D	ate:	Submitte	d By:	Assisted By:		
11/04/2019		Rick We	ertman			
Details						
				5/8" LOSS AT OUTER EDGES OF E ICKNESS REMAINING IN WEB 5FT		

Bridge: 500037 County JOHNSTON

MMS Code	MMS Descrip	MMS Description Quantity					
3314	Maintain Stee	Maintain Steel Superstructure Components 3 LF					
Location:	Location:						
		Bent/Span No.					
Priority Leve	I	Status					
Priority Main	tenance	Division Bridge Maintenance Noti	fication				
Submitted Da	ate: Submitte	d By:	Assisted By:				
11/04/2019	Rick We	ertman					
Details							
		section loss with 3/8" average rema taining present at pier 3.	ining full width of bottom flange 3' lor	ıg. Beam er	ıd		

MMS Code	MN	MMS Description Quantity				
3314	Mai	ntain Stee	Superstructure Components		1	LF
Location:						
			Bent/Span No.			
Priority Level Status						
Priority Main	itenan	ce	Division Bridge Maintenance Noti	fication		
Submitted D	ate:	Submitte	d By:	Assisted By:		
11/04/2019		Rick We	ertman			
Details	Details					
FLANGE 1F	T LO	NG ON BE	AM END OVER PIER 3. BEAM E	AVERAGE REMAINING FULL WIDT ND HAS BEEN CLEANED AND PAIN UT DOES NOT EXTEND OUT TO D	NTED WITH	OM

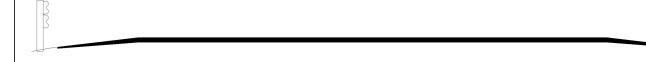
Bridge: 500037 County JOHNSTON

MMS Code	MMS	MMS Description					
3314	Mainta	Maintain Steel Superstructure Components 1					
Location:	Location:						
			Bent/Span No.				
Priority Leve	I		Status				
Priority Main	tenance)	Division Bridge Maintenance Noti	fication			
Submitted D	ate: S	Submitted	d By:	Assisted By:			
11/04/2019		Rick We	rtman				
Details							
•				IOUS CORROSION WITH 1/4" REM REA HAS BEEN PAINTED OVER A		ΓED.	

MMS Code	MN	MMS Description Quantity				
3314	Mai	ntain Stee	Superstructure Components		4	LF
Location:						
			Bent/Span No.			
Priority Leve	el		Status			
Priority Mair	Priority Maintenance Division Bridge Maintenance Notification					
Submitted D	ate:	Submitte	d By:	Assisted By:		
11/04/2019		Rick We	ertman			
Details						
			section loss with 3/8" average remataining present at pier 4.	ining full width of bottom flange 4' lor	ng. Beam e	nd

Bridge: 500037 County JOHNSTON

MMS Code	MM	MMS Description Quantity					
3348	Mair	Maintain Concrete Substructure Components 3 LF				LF	
Location:	Location:						
			Bent/Span No.				
Priority Leve	el		Status				
Priority Main	ntenand	ce	Division Bridge Maintenance Noti	fication			
Submitted D	ate:	Submitte	d By:	Assisted By:			
11/04/2019		Rick We	ertman				
Details							
			WITH EXPOSED REBAR AND BR HEIGHT WITH SECTION LOSS	OKEN HORIZONTAL TIE 3 FT X 1 F	T X 4" DEE	P IN	



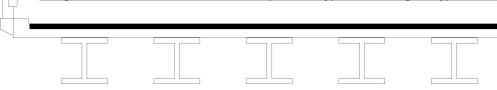
Roadway	23ft Wide	2 Paved Lanes	Looking North
Left Shoulder	5ft Wide	4ft Paved	1ft Unpaved
Right Shoulder	5ft Wide	4ft Paved	1ft Unpaved
Left Guardrail	5ft from road		
Right Guardrail	5ft from road		

SOUTH APPROACH (LOOKING NORTH)
MEASURMENTS TAKEN AT 15 FT SOUTH OF END BENT 1

MEAS. VERIFIED 11/4/2019...RFW

Title		Description			
APPROACH ROADWAY		LOOKING NORTH			
Bridge No: 500037	Drawn By: GGW		Date: 04/12/2006	File Name: S0214000199	

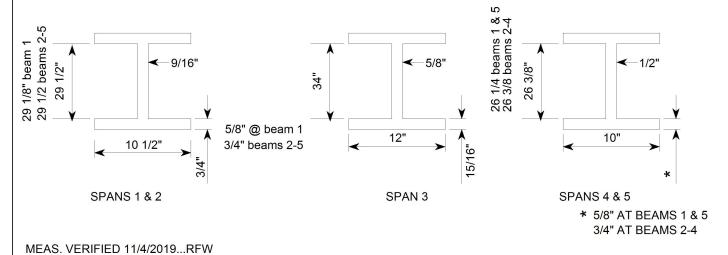
Deck Width/Out to Out	35.417ft	Betwee	Between Rails			
Clear Roadway	30.083ft	Wearir	ng Surface			0.333ft
Median Width		Mediar	n Height			
Curb Height	Left	0.625ft	Right	0.62	25ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left	1.042ft	Right	1.04	12ft
Top of Rail to Deck/Wearing Su	Left	2.25ft	Right	2.2	5ft	
Bridge Rail	Left	Type 14	Right	Тур	e 14	



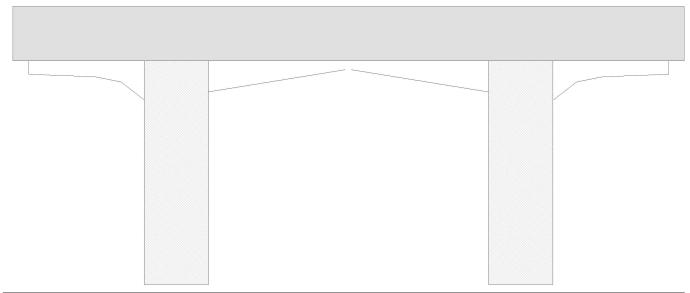
Measurements for Span #	1		
Deck Thickness	0.542	Left Overhang	4.041
Top of Rail to Bottom of Beam (A&B)	5.25	Right Overhang	4.041

5.75' (SPAN C) 5.00' (SPANS D&E)

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	6.833ft	
2	Steel I Beam	6.833ft	
3	Steel I Beam	6.833ft	
4	Steel I Beam	6.833ft	
5	Steel I Beam	ft	



Title		Descri	ption	
TYPICAL SECTION		LOOKI	NG NORTH	
Bridge No: 500037	Drawn By: GGW		Date: 04/12/2006	File Name: \$0214000200

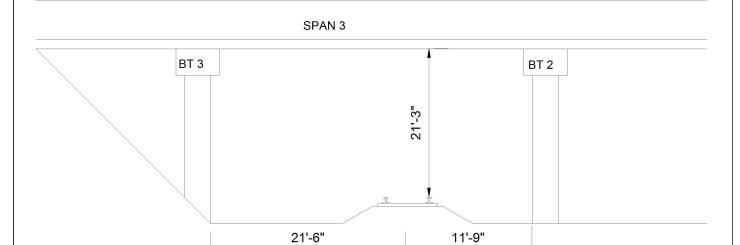


Cap In	Cap Information Material Cast-in-Place Concrete												
Lengt	h	Width	Height	Left Over	hang	Right Overh	ht Overhang Left Beam to End of Cap		nd of Cap.	Right Beam to End of Cap.		d of Cap.	
39.000	ft.	2.500 ft.	3.167 ft.	9.500	ft.	9.500 ft.		2.000 ft.			2.000 ft.		
Subcap Information Material													
Lengt	h	Width	Height	Left Overhang		Right Overhang		Left Pi	le to Splid	ce.			
Sill Info	Sill Information Material												
Lengt	h	Width	Height										
Pile#	M	aterial	Spacing	Width/Dia.	Height	Length	Orie	entation	Driven?	Replacem	nent?	Removed?	Collar?
1	C	oncrete	20 ft.	3.75 ft.	2 ft.		Ver	tical	No	No		No	No
2	C	oncrete		3.75 ft.	2 ft.		Ver	tical	No	No		No	No
Bont/A	Rent/Abutment #: 1 Similar Rents: 2.4												

CRASH WALLS AT BENTS 2 AND 3

MEAS. VERIFIED 11/4/2019...RFW

Title		Descri	ption				
BENT 1			BENT 1				
Bridge No: 500037	Drawn By: DAVID WAGNER	,	Date: 3/13/2017	File Name: \$0422000450			



Measurements Under Span 3 (of 5)								
Center of Left-most Tracks to Center of Right-most Tracks 1 set of tracks Looking: EAST								
Vertical Clearance	21.25ft	Measured from rail 2	at Beam # 1					
Distance to Left Bent	21.5ft							
Distance to Left Toe of Slope	20ft							
Distance to Right Bent	11.75ft							
Distance to Right Toe of Slope								

MEAS. VERIFIED 11/4/2019...RFW

Title			Description				
RAILROAD CLEARANCE PROFILE			LOOKING EAST				
Bridge No: 500037 Drawn By: WTW			Date:11/6/2013	File Name:S0214000201			