

NC DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

STRUCTURE MANAGEMENT UNIT

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

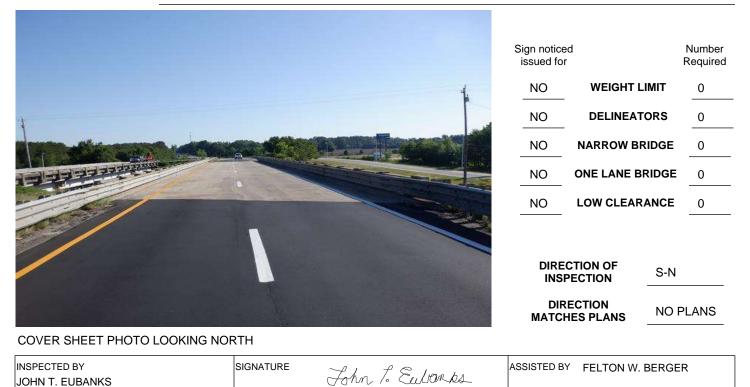
Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 05/15/2019

DIVISION: 6	COUNTY:	ROBESON	STRUCT	TURE NUMBER: 7701	59 FREQUENCY:	24 MONTHS
FACILITY CARRIED:	195NBL				MILE POST: 31.3	
LOCATION: 0.2MI.E.	OF JCT.	SR1732				
FEATURE INTERSEC	TED: NC2	20				
LATITUDE: 34° 48'	39.84"		LONGITUDE:	78° 59' 10.35"		
SUPERSTRUCTURE:	REINFO	DRCED CONCRETE F	LOOR ON I-E	BEAMS		
SUBSTRUCTURE: E.	BTS:RC (CAPS/PPC PILES;INT	.BT:RCP&B/P	ILES		
SPANS: 3 SPANS	. SEE SP/	AN PROFILE SHEET	FOR SPAN DI	ETAILS		
FRACTURE CRI	FICAL			SCOUR CRITICAL	SCOUR PLAN C	F ACTION
NBI GRADES:	DECK	6 SUPERSTRUC	TURE 5	SUBSTRUCTURE	5 CULVERT N	_
POSTED SV: Not P	osted			POSTED TTST: No	t Posted	

OTHER SIGNS PRESENT: 2 VERTICAL CLEARANCE SIGNS



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

		CATION ———	IDENTIFI	
770159		BRIDGE	ROLINA	(1) STATE NAME NORTH CA
1550159			,	(8) STRUCTURE NUMBER (FEI
11000950	11'		'	(5) INVENTORY ROUTE (ON/UI
6 58720	F	(4) PLACE CODE	155 IENT	(2) STATE HIGHWAY DEPARTN (3) COUNTY CODE (FEDERAL)
		(.). 1.01 0001	NC20	(6) FEATURE INTERSECTED
			195NBL	(7) FACILITY CARRIED
		OF JCT.SR1732	0.2MI.E.	9) LOCATION
31.3			,	
1 10095		Ē		12) BASE HIGHWAY NETWOR 13) LRS INVENTORY ROUTE 8
59' 10.35"	78° 59	(17) LONGITUDE		•
	IT SHARED	PERCENT	DDE	(98) BORDER BRIDGE STATE C
		BER	URE NUME	(99) BORDER BRIDGE STRUCT
	AL	E AND MATERIAL	URE TYP	STRUCT
Steel				43) STRUCTURE TYPE MAIN
302	jirder CODE	ger/Multi-beam or gird	String	TYPE
			АСН	44) STRUCTURE TYPE APPRO
	CODE			TYPE
3			N UNIT	45) NUMBER OF SPANS IN MAI
0			ROACH	46) NUMBER OF SPANS IN APP
1	CODE			107) DECK STRUCTURE TYPE
		STEM	ECTIVE SY	108)WEARING SURFACE/PROT
6	CODE		FACE	(A) TYPE OF WEARING SUF
0	CODE			(B) TYPE OF MEMBRANE
0	CODE		TION	(C) TYPE OF DECK PROTEC
1959				(27) YEAR BUILT
0.000000	0		1	(106) YEAR RECONSTRUCTED
Structure	Overpass S			(42) TYPE OF SERVICE ON -
61	way CODE	Highway		OFF -
4	TRUCTURE	LANES UNDER STR	2	28) LANES ON STRUCTURE
22500				(29) AVERAGE DAILY TRAFFIC
23	ГРСТ	(109) TRUCK ADT PO	2015	30) YEAR OF ADT
0.0			тн	19) BYPASS OR DETOUR LENG
			GEOMETR	
79.0			AN	48) LENGTH OF MAXIMUM SP
181.0				49) STRUCTURE LENGTH
0.0		0.0 RIGHT		50) CURB OR SIDEWALK: LEF
28.0 33.4		UKD		51) BRIDGE ROADWAY WIDTH (52) DECK WIDTH OUT TO OU
30.0		OULDERS)		32) APPROACH ROADWAY W
1	lian CODE	Open mediar		33) BRIDGE MEDIAN
1	ED	TRUCTURE FLARED	. ,	
999.9				
		HAR	L HURIZ CI	47) INVENTORY ROUTE TOTA
28.0 999 9			RIDGE DD	
28.0 999.9 14.8	н	NY		(53) MIN VERT CLEAR OVER B
999.9	н н	NY CE H	REFEREN	(53) MIN VERT CLEAR OVER E (54) MIN VERT UNDERCLEAR: (55) MIN LAT UNDERCLEARAN
999.9 14.8		NY CE H	REFEREN CE RT: RE	(53) MIN VERT CLEAR OVER E (54) MIN VERT UNDERCLEAR:
999.9 14.8 11.7		NY CE H IFERENCE	REFEREN CE RT: RE	53) MIN VERT CLEAR OVER E 54) MIN VERT UNDERCLEAR: 55) MIN LAT UNDERCLEARAN 56) MIN LAT UNDERCLEARAN
999.9 14.8 11.7		NY CE H IFERENCE	REFEREN CE RT: RE CE LT:	53) MIN VERT CLEAR OVER E 54) MIN VERT UNDERCLEAR: 55) MIN LAT UNDERCLEARAN 56) MIN LAT UNDERCLEARAN
999.9 14.8 11.7 99.9	н	NY CE H IFERENCE	REFEREN CE RT: RE CE LT:	 (53) MIN VERT CLEAR OVER E (54) MIN VERT UNDERCLEAR: (55) MIN LAT UNDERCLEARAN (56) MIN LAT UNDERCLEARAN (56) MIN LAT UNDERCLEARAN (77) NA (78) NAVIGATION CONTROL -
999.9 14.8 11.7 99.9	H	NY CE H IFERENCE	REFEREN CE RT: RE CE LT: VIGATION	 (53) MIN VERT CLEAR OVER E (54) MIN VERT UNDERCLEAR: (55) MIN LAT UNDERCLEARAN (56) MIN LAT UNDERCLEARAN
999.9 14.8 11.7 99.9 N	H	NY CE H IFERENCE	REFEREN CE RT: RE CE LT: VIGATION	53) MIN VERT CLEAR OVER E 54) MIN VERT UNDERCLEAR: 55) MIN LAT UNDERCLEARAN 56) MIN LAT UNDERCLEARAN MA 38) NAVIGATION CONTROL - 111) PIER PROTECTION

SUFFICIENCY RATING		68.000000
STATUS =	Functional	
	CLASSIFICATION	CODE
(112) NBIS BRIDGE SYSTEM		YES
(104) HIGHWAY SYSTEM	Inventory Route is on NHS	1
(26) FUNCTIONAL CLASS	Rural Principal Arterial - Interstate	01
(100) STRAHNET HIGHWAY	Interstate STRAHNET Route	1
(101) PARALLEL STRUCTURE	The right structure of parallel bridges	R
(102) DIRECTION OF TRAFFIC	1-way traffic	1
(103) TEMPORARY STRUCTUR	E	
(110) DESIGNATED NATIONAL	NETWORK - on natiional network for trucks	1
(20) TOLL	On Free Road	3
(21) MAINT -		01
(22) OWNER -		01
(37) HISTORICAL SIGNIFICANO	E -	5
		CODE
(58) DECK		6
(59) SUPERSTRUCTURE		5
(60) SUBSTRUCTURE		5
(61) CHANNEL & CHANNEL PR	OTECTION	Ν
(62) CULVERTS		Ν
LOAD	RATING AND POSTING	CODE
(31) DESIGN LOAD	H 20 + Mod	6
(63) OPERATING RATING MET	HOD - Load Factor	1
(64) OPERATING RATING -	HS-32	60
(65) INVENTORY RATING METH		1
(66) INVENTORY RATING	HS-19	36
(70) BRIDGE POSTING	No Posting Required	5
(41) STRUCTURE OPEN, POST	ED, OR CLOSED	Α
DESCRIPTION	Open, no restriction	
	APPRAISAL	CODE
(67) STRUCTURAL EVALUATIO	IN	5
(68) DECK GEOMETRY		2
(69) UNDERCLEARANCES, VEI		6
(71) WATERWAY ADEQUACY		5
(72) APPROACH ROADWAY AL		2
(36) TRAFFIC SAFETY FEATUR		1111
(113) SCOUR CRITICAL BRIDG		N
(75) TYPE OF WORK	OSED IMPROVEMENTS)E
(76) LENGTH OF STRUCTURE		
(94) BRIDGE IMPROVEMENT C		
(95) ROADWAY IMPROVEMEN		
(96) TOTAL PROJECT COST		
(97) YEAR OF IMPROVEMENT	COST ESTIMATE	
(114) FUTURE ADT	45,000 YEAR OF FUTURE ADT	2040
	INSPECTION	
(90) INSPECTION DATE	05/17 (91) FREQUENCY	24
(92) CRITICAL FEATURE INSPE	CTION (93) CFI DA	TE
A) FRACTURE CRIT DET	AIL 0 A)	
B) UNDERWATER INSP	0 B)	
C) OTHER SPECIAL INSP	0 C)	
SCOUR		

			ertical				_			raffic	lce			See N	lote Be	low			E	
Span Number	Facility Carried	Inventory Route	Maximum Minimum V Clearance	Milepoint	Base Highway	LRS Inventory Route	Functional Classification	Number of Lanes	Average Daily Traffic	Year of Average Daily T	Total Horizontal Clearan	Reference Feature	Minimum Vertical Underclearance	Rigth Lateral Underclearance	Left Lateral Underclearance	Under Appra	STRAHNET Highway	Direction of Traffic	National Highway Syste	National Truck Network
	7	5	10	11	12	13	26	28	29	30	47	54A	54	55	56	69	100	102	104	110
2	NC20E	31000200	15.1		0		7	2	6500	2015	71.7	н	14.8	11.7	99.9	6	0	1		

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

Superstructure Build Details

Skew 111.0000

Span Length <u>50.5000</u>

Span Number <u>1</u>

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
1	Reinforced Concrete Deck	Reinforced Concrete Deck	1591	Square Feet		
3	Plate Girder	Steel Open Girder/Beam	150	Feet	Unknow	1482
4	Fixed Bearing	Fixed Bearing	4	Each	Unknow	8
1	Plate Girder	Steel Open Girder/Beam	50	Feet	Enamel	494
4	Movable Bearing	Movable Bearing	4	Each	Unknow	8
2	Concrete and Metal Railing	Other Bridge Railing	102	Feet		
1	Asphalt Wearing Surface	Wearing Surface	1414	Square Feet		
Span Nu	ımber <u>2</u> Sp	pan Length <u>80.0000</u>		Sk		

Number of Items	Type of Component	Element Name		Quantity	Protective System Applied	Quantity (Sq Ft)
2	Concrete and Metal Railing	Other Bridge Railing	160	Feet		
1	Standard Joint	Pourable Joint Seal	32	Feet		
1	Reinforced Concrete Deck	Reinforced Concrete Deck	2520	Square Feet		
4	Plate Girder	Steel Open Girder/Beam	320	Feet	Unknow	3152
4	Movable Bearing	Movable Bearing	4	Each	Unknow	8
1	Asphalt Wearing Surface	Wearing Surface	2240	Square Feet		
4	Fixed Bearing	Fixed Bearing	4	Each	Unknow	8
Span Nu	mber <u>3</u> Sp	an Length <u>50.5000</u>		Sk	ew 111.0000	

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

Superstructure Build Details

4	Movable Bearing	Movable Bearing	4	Each	Unknow	8
1	Standard Joint	Pourable Joint Seal	32	Feet		
4	Fixed Bearing	Fixed Bearing	4	Each	Unknow	8
1	Asphalt Wearing Surface	Wearing Surface	1414	Square Feet		

Structure Element Scoring

Structure Number: 770159

Inspection Date 5/15/2019

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	0	Reinforced Concrete Deck	Deck	5702	4611	591	500	0
107	0	Steel Open Girder/Beam	Beam	720	680	31	9	0
515	107	Steel Protective Coating	Beam	7104	7081	12	2	9
205	0	Reinforced Concrete Column	Piles and Columns	4	1	2	1	0
215	0	Reinforced Concrete Abutment	Abutments	94	62	18	14	0
220	0	Reinforced Concrete Pile Cap/Footing	Footing	18	18	0	0	0
226	0	Prestressed Concrete Pile	Foundation Pile	24	24	0	0	0
226	0	Prestressed Concrete Pile	Piles and Columns	14	14	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	140	88	25	25	2
301	0	Pourable Joint Seal	Expansion Joints	64	58	6	0	0
311	0	Movable Bearing	Bearing Device	12	0	5	7	0
515	311	Steel Protective Coating	Bearing Device	24	0	10	0	14
313	0	Fixed Bearing	Bearing Device	12	3	9	0	0
515	313	Steel Protective Coating	Bearing Device	24	6	14	4	0
333	0	Other Bridge Railing	Bridge Rail	364	214	146	4	0
510	0	Wearing Surface	Wearing Surfaces	5068	5068	0	0	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 770159

Inspection Date: 05/15/2019

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

Element Structure Maintenance Quantities

Structure Number: 77	7 <u>0159</u>				Ir	spection D	ate <u>05/15/</u>	<u>2019</u>
Location	MMS Code	Ma Description Qua		Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	42	94	0	14	18	62
Beam	3314	Maintenance Steel Superstructure Components	8	720	0	9	31	680
Beam	3342	Clean and Paint Steel	23	7104	9	2	12	7081
Bearing Device	3334	Bridge Bearing	8	24	0	7	14	3
Bearing Device	3342	Clean and Paint Steel	42	48	14	4	24	6
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	84	364	0	4	146	214
Caps	3348	Maintenance of Concrete Substructure	66	140	2	25	25	88
Deck	3326	Maintenance of Concrete Deck	1091	5702	0	500	591	4611
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	64	0	0	6	58
Footing	3348	Maintenance of Concrete Substructure	0	18	0	0	0	18
Foundation Pile	3348	Maintenance of Concrete Substructure	0	24	0	0	0	24
Piles and Columns	3348	Maintenance of Concrete Substructure	17	18	0	1	2	15
Wearing Surfaces	2816	Asphalt Surface Repair	0	5068	0	0	0	5068

Priority Actions Request

oan1			
3314	Beam 1	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
1	Corrosion	0	Span 1 Beam 1: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR
3314	Beam 2	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
1	Corrosion	1	Span 1 Beam 2: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR
3314	Beam 3	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
1	Corrosion	1	Span 1 Beam 3: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR
pan2			
3314	Beam 1	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 1: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR
3314	Beam 4	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 2 Beam 4: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 2 PAR
ipan3			
3314	Beam 3	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description
2	Corrosion	1	Span 3 Beam 3: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AND 1/4" REMAINING SECTION IN BEARIN STIFFENER AT BENT 2 PAR
3334	Beam 4	Plate Girder	
Priority Level	Defect Type	Quantity	Defect Description

Priority Actions Request

Structure Numb	er 770159		
2	Connection	1	Span 3 Beam 4 Near Bearing: EAST AND WEST ANCHOR BOLT LEANING TOWARDS NORTH
3318	Right Bridge Rail	Concrete and	Metal Railing
Priority Level	Defect Type	Quantity	Defect Description
2	Distortion	1	Span 3 Right Bridge Rail: IMPACT DAMAGE TO END OF BRIDGE RAIL
Bent 2			
3348	Cap 1	Reinforced Co	ncrete Pier Cap
Priority Level	Defect Type	Quantity	Defect Description
2	Patched Area	2	Bent 2 Cap 1: 18" X 6" X 4" FAILED PATCH WITH 4" X 1 1/2" LOSS OF BEARING AREA IN NORTH FACE UNDER BEAM 3 PAR
General Comments and Misc Items	5		
	General Comments and Misc Items	General Comr	nents and Misc Items
Priority Level	Defect Type	Quantity	Defect Description
2		1	END DIAPHRAGM BAY 2 AT BENT 2: 12" X 3" X 2" DEEP SPALL WITH EXPOSE REBAR IN NORTH FACE PAR

? Priority Action Request (PAR) 1 Assigned Routine Maintenance



Element Condition and Maintenance Data

ructure N	umber: <u>770159</u>					Ins	spection D	ate: 05/15/2019
Span	1	Deck						
Rein	forced Concrete	Deck						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	1,591	1,067	24	500	0 S	quare Feet
Element Number	Defect Type	Defect Descrip	tion		CS	CS Qty	Maint Qty	
	Cracking (RC and Other)	500 SF. OF HAIRLINE MAP AND TRA WITH EFFLORESCENCE IN BOTTO		ACKING	3	500	500	Square Feet
	Cracking (RC and Other)	11 - 2 FT. TRANSVERSE HAIRLINE (EFFLORESCENCE IN BOTTOM OF I OVERHANG			2	11	11	Square Feet
	Cracking (RC and Other)	13 - 2 FT. TRANSVERSE HAIRLINE (EFFLORESCENCE IN BOTTOM OF I		ERHANG	2	13	13	Square Feet

General Comments

Left Bridge Rail

Concrete and Metal Railing

	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other I	Bridge Railing	51	49	2	0	0 Feet	
Elemei Numbe	Dofoot Typo	Defect De	scription		CS	CS Qty	Maint Qty	
333	Cracking (RC and Other)	1 - 18" TRANSVERSE HAIRLIN	E CRACK IN CURB		2	1	2 Feet	
333	Cracking (RC and Other)	1 - 8" TRANSVERSE HAIRLINE	CRACK IN RAIL		2	1	1 Feet	
	General Comments							

Span 1

Span 1

Right Bridge Rail

Concrete and Metal Railing

		•						
Elen Num	nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	- .
333	Other E	Bridge Railing	51	22	26	3	0	Feet
Element Number	Dofact Type	Defect De	escription		CS	CS Qty	Maint Qty	
333	Delamination/Spall	12" X 2" X 2" DEEP SPALL WIT BRIDGE RAIL POST 20 FT. FR		1	3	1		I Feet
333	Delamination/Spall	12" X 3" X 2" DEEP SPALL IN E FROM END BENT 1	BRIDGE RAIL POST 15	FT.	3	1		I Feet
333	Delamination/Spall	8" DIAMETER X 2" DEEP SPAL 1	L IN END POST AT EN	D BENT	3	1		I Feet
333	Cracking (RC and Other)	2 - 18" TRANSVERSE HAIRLIN	E CRACKS IN CURB		2	2	2	1 Feet
333	Cracking (RC and Other)	4 - 8" TRANSVERSE HAIRLINE	CRACKS IN RAIL		2	4	2	1 Feet
333	Distortion	MULTIPLE GOUGES UP TO 8"	X 2" IN RAIL		2	20		Feet

General Comments

Spa	in 1	Beam 1						
Plat	te Girder							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel C	Dpen Girder/Beam	50	49	0	1	0 Feet	
515	Steel F	Protective Coating	494	493	0	0	1 Square Feet	
Elemer Numbe	Defect Type	Defect Descr	iption		CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF CORROSION WITH 11/16 WEB AROUND END DIAPHRAGM		CTION IN	3	1	Feet	
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECT AROUND END DIAPHRAGM AT BE		WEB	4	1	1 Square Feet	
	General Comments							
	END DIAPHRAG	M WEST OVERHANG AT BENT 1: 12"	X 6" DELAMINATI	ION IN SOU	UTH FA	CE		
Spa	n 1	Beam 2						
Plat	te Girder							
	ment mber Steel C	Element Name Open Girder/Beam	Total Qty 50	CS1 Qty 49	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0 Feet	

515	Steel Pr	otective Coating	494	493	0	0	1	Square Feet
Elemen Number	Defect Turne	Defect Description			CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF CORROSION WITH 11/16" REMA WEB AROUND END DIAPHRAGM AT BEN		CTION IN	3	1		I Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE CC AROUND END DIAPHRAGM AT BENT 1	OATING ON	WEB	4	1		Square Feet
-	General Comments							

END DIAPHRAGM BAY 2 AT BENT 1: 18" VERTICAL HAIRLINE CRACK IN SOUTH FACE

Spa	an 1	Beam 3						
Pla	te Girder							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Op	ben Girder/Beam	50	49	0	1	0	Feet
515	Steel Pr	otective Coating	494	493	0	0	1	Square Feet
Elemer Numbe	Dofact Type	Defect Desci	ription		CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF CORROSION WITH 11/16 WEB AROUND END DIAPHRAGM		CTION IN	3	1		1 Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECT AROUND END DIAPHRAGM AT BI		WEB	4	1		1 Square Feet
	General Comments							

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

Span 1		Bea	am 4					
Plate G	irder							
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Ste	eel Open Girder/Beam	50	49	1	0	0	Feet
515	St	eel Protective Coating	494	494	0	0	0	Square Feet
Element Number	Defect Typ	De De	efect Description		CS	CS Qty	Maint Qty	
107 Co	rrosion	1 FT. OF PAINTED OVE AROUND END DIAPHR	R PITTING 1/16" DEEP IN W AGM AT BENT 1	ΈB	2	1		Feet

n 1	Near Bearin	g					
d Bearing							
	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Fixed Be	earing	1	0	1	0	0	Each
Steel Pre	otective Coating	2	0	2	0	0	Square Feet
Dofact Type	Defect Descr	iption		CS	CS Qty	Maint Qty	
Corrosion	FRECKLED RUST			2	1	-	Each
Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENES COATING	S OF PROTECTIVE		2	2	:	2 Square Fee
	Steel Pro	t Defect Type Defect Descr Corrosion FRECKLED RUST Effectiveness (Steel 2 SF. OF LIMITED EFFECTIVENES	Ad Bearing Total Qty Fixed Bearing Steel Protective Coating t Pefect Type Corrosion Corrosion FRECKLED RUST Effectiveness (Steel 2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE	Total Neet CS1 Qty Element Name Total Qty CS1 Qty Fixed Bearing 1 0 Steel Protective Coating 2 0 t Defect Type Defect Description Corrosion FRECKLED RUST FRECKLED RUST Effectiveness (Steel 2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE	Ad Bearing Total CS1 CS2 Qty Qty Fixed Bearing 1 0 1 Steel Protective Coating 2 0 2 t Defect Type Defect Description CS Corrosion FRECKLED RUST 2 Effectiveness (Steel 2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE 2	Total Name Total Qty CS1 Qty CS2 Qty CS3 Qty Qty	Total Name Total Qty CS1 Qty CS2 Qty CS4 Qty Qty

Sp	an 1			Far Bearing						
Мо	vable	e Bearing								
	ement umber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311		Movable	Bearing		1	0	1	0	0	Each
515	5	Steel Pro	otective Coating		2	0	2	0	0	Square Feet
Eleme Numb		Defect Type		Defect Description			CS	CS Qty	Maint Qty	
311	Cor	rosion	FRECKLED RUST				2	1		Each
515		ectiveness (Steel tective Coatings)	2 SF. OF LIMITED COATING	EFFECTIVENESS OF PF	ROTECTIVE		2	2	:	2 Square Feet
	Gene	eral Comments								

Span 1

Far Bearing

Movable Bearing

Elen Num	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	0	1	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Elemen Number	- Dofoot Tuno	Defect Desc	ription		CS	CS Qty	Maint Qty	
311	Corrosion	1/2" OF PACK RUST			3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECT	IVE COATING		4	2		2 Square Feet
-	General Comments							

Span 1

Far Bearing

Movable Bearing Element Total CS1 CS2 CS3 CS4 Number **Element Name** Qty Qty Qty Qty Qty 311 Movable Bearing 1 0 0 1 0 Each 2 515 Steel Protective Coating 0 0 0 2 Square Feet Element Maint Defect Type cs CS Qty **Defect Description** Number Qty

Structure	Number: <u>770159</u>	Inspectior	n Date: 05/15/2019		
311	Corrosion	1/4" OF PACK RUST	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE COATING	4	2	2 Square Feet

Span 1			Near Bearing						
Fixed B	earing								
Element Number		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Be	aring		1	0	1	0	0	Each
515	Steel Pro	otective Coating		2	0	2	0	0	Square Feet
Element Number	Defect Type		Defect Description			CS	CS Qty	Maint Qty	
313 Cor	rosion	FRECKLED RUST				2	1		Each
	ectiveness (Steel tective Coatings)	2 SF. OF LIMITED COATING	EFFECTIVENESS OF PI	ROTECTIVE		2	2	:	2 Square Feet
	tective Coatings) eral Comments	COATING							

General Comments

Far Bearing

Movable Bearing

Span 1

	ment nber Movable	Element Name Bearing	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Elemen Numbe	Defect Type	Defect Descriptio	'n		CS	CS Qty	Maint Qty	
311	Corrosion	1/4" OF PACK RUST			3	1	-	1 Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECTIVE	COATING		4	2	:	2 Square Feet
	General Comments							

Span 2

Deck

Reinforced Concrete Deck

Elen Num 12	iber	Element Name	Total Qty 2,520	CS1 Qty 2,485	CS2 Qty 35	CS3 Qty 0	CS4 Qty 0 S	quare Feet
Element Number	Defect Type	Defect Desc		_,	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	16 - 2 FT. TRANSVERSE HAIRLIN EFFLORESCENCE IN BOTTOM C OVERHANG			2	16	16	Square Feet
12	Cracking (RC and Other)	17 - 2 FT. TRANSVERSE HAIRLIN EFFLORESCENCE IN BOTTOM C		ERHANG	2	17	17	Square Feet
12	Delamination/Spall	20" DIAMETER DELAMINATION I OVERHANG 10 FT. FROM BENT			2	2	2	Square Feet

General Comments

Span 2

Standard Joint

Elemen Number	-	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourab	le Joint Seal	32	29	3	0	0 Feet
Element Number	Defect Type	Defect Descript	ion		CS	CS Qty	Maint Qty
301 De	bris Impaction	3FT OF DEBRIS IMPACTION			2	3	Feet

General Comments

Span 2

Left Bridge Rail

Expansion Joint

Concrete and Metal Railing

Elen Nun 333	nber	Element Name Bridge Railing	Total Qty 80	CS1 Qty 65	CS2 Qty 15	CS3 Qty 0	CS4 Qty 0 F	eet
Elemen Number	Defect Type	Defect De	escription		CS	CS Qty	Maint Qty	
333	Cracking (RC and Other)	4 - 8" TRANSVERSE HAIRLINE	CRACKS IN RAIL		2	4	4	Feet
333	Cracking (RC and Other)	5 - 18" TRANSVERSE HAIRLIN	E CRACKS IN CURB		2	5	10	Feet
333	Delamination/Spall	24" X 6" DELAMINATION IN CU	RB NEAR BENT 1		2	2	2	Feet
333	Delamination/Spall	36" X 6" DELAMINATION IN CU	RB NEAR MIDSPAN		2	3	3	Feet
333	Distortion	4" X 1" GOUGE IN RAIL 3 FT. F	ROM BENT 1		2	1		Feet

Span 2

Right Bridge Rail

Concrete and Metal Railing

Eleme Numbe		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other I	Bridge Railing	80	10	70	0	0 Fe	eet
Element Number	Defect Type	Defect De	escription		CS	CS Qty	Maint Qty	
	racking (RC and other)	10 - 18" TRANSVERSE HAIRLI	NE CRACKS IN CURB		2	10	20	Feet
	racking (RC and ther)	10 - 8" TRANSVERSE HAIRLIN	E CRACKS IN RAIL		2	10	10	Feet
333 D	istortion	MULTIPLE GOUGES UP TO 8"	X 2" IN RAIL		2	50		Feet

General Comments

Span 2

Beam 1

Plate Girder

Elen Nun 107	nber	Element Name Dpen Girder/Beam	Total Qty 80	CS1 Qty 72	CS2 Qty 6	CS3 Qty 2	CS4 Qty 0 Feet
515	Steel F	Protective Coating	788	786	0	0	2 Square Feet
Elemen							•• •
Number	Defect Tune	Defect Descrip	tion		CS	CS Qty	Maint Qty
	Defect Tune	Defect Descrip 1 FT. OF CORROSION WITH 11/16" WEB AROUND END DIAPHRAGM A ⁻	REMAINING SEC	CTION IN	CS 3	CS Qty 1	

Structure	Number: 770159			Inspec	ction Date: 05/15/2019
107	Distortion	1 FT. OF VEHICLE SCRAPES IN BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FT. FROM BENT 1	2	1	Feet
107	Distortion	5 FT. OF VEHICLE SCRAPES WITH GOUGES UP TO 3" X 1/2" IN BOTTOM FLANGE AND BOTTOM FLANGE COVER PLATE 25 FT. FROM BENT 2	2	5	Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AT BENT 1	4	1	1 Square Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AT BENT 2	4	1	1 Square Feet

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

Span 2

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Beam 2
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Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	80	72	6	2	0 Feet
515	Steel Protective Coating	788	786	0	0	2 Square Feet

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

General Comments

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

Spa	an 2	Beam 3					
Pla	te Girder						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Stee	el Open Girder/Beam	80	72	8	0	0 Feet
515	Stee	Protective Coating	788	787	0	1	0 Square Feet
Elemei Numbe	Dofact Type	Defect Desci	ription		CS	CS Qty	Maint Qty
107	Corrosion	1 FT. OF PAINTED OVER PITTING AROUND END DIAPHRAGM AT BI		ΞB	2	1	Feet
107	Corrosion	1 FT. OF SURFACE CORROSION DIAPHRAGM AT BENT 2	ON WEB AROUND	END	2	1	Feet
107	Distortion	1 FT. OF VEHICLE SCRAPES IN B BOTTOM FLANGE COVER PLATE	• • • • • • • • • • • • • • • • • • • •		2	1	Feet
107	Distortion	5 FT. OF VEHICLE SCRAPES WIT 1/2" IN BOTTOM FLANGE AND BC PLATE 25 FT. FROM BENT 2		• • • •	2	5	Feet
515	Effectiveness (Ste Protective Coating			WEB	3	1	1 Square Feet
	General Comment	c					

General Comments

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

1 Square Feet

Span 2

Plate Girder

Elem Num		Element	Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107		Steel Open Girder/Bea	am	80	72	7	1	0	Feet
515		Steel Protective Coatin	ng	788	787	0	0	1 \$	Square Feet
Element Number	Dofoct	Туре	Defect Des	cription		CS	CS Qty	Maint Qty	
107	Corrosion		ORROSION WITH 11/ JND END DIAPHRAGI		CTION IN	3	1	1	Feet
107	Corrosion	-	AINTED OVER PITTIN ND DIAPHRAGM AT I		ΞB	2	1		Feet
107	Distortion		EHICLE SCRAPES IN LANGE COVER PLAT			2	1		Feet
107	Distortion	1/2" IN BOT	EHICLE SCRAPES WI TOM FLANGE AND B T. FROM BENT 2		• • •	2	5		Feet

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1

 515
 Effectiveness (Steel Protective Coatings)
 1 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB AROUND END DIAPHRAGM AT BENT 2

General Comments

Spa	an 2	Near I	Bearing					
Мо	vable Bearing							Square Feet
	ment mber Movable	Element Name Bearing	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Elemer Numbe	Defect Type	Defec	t Description		CS	CS Qty	Maint Qty	
311	Corrosion	1/2" OF PACK RUST			3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PR	OTECTIVE COATING		4	2	2	2 Square Feet
	General Commonte							

General Comments

Span 2

Far Bearing

Fixed Bearing

	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Be	earing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	2	0	0	Square Feet
Elemer Numbe	Defect Type	Defect Description			CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED RUST			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENESS OF F	PROTECTIVE		2	2	2	2 Square Feet
	General Comments							

Structure Number: 770159

Near Bearing

Each

Square Feet

Each

2 Square Feet

Span 2

Mov	able Bearing						
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
311	Movable	e Bearing	1	0	0	1	0 E
515	Steel Pr	rotective Coating	2	0	0	0	2 S
Elemen Numbe	Defect Type	Defect	Description		CS	CS Qty	Maint Qty
311	Corrosion	1/2" OF PACK RUST			3	1	
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PRC	DTECTIVE COATING		4	2	2

General Comments

Span 2

Far Bearing

Fixed Bearing

	5						
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed B	earing	1	0	1	0	0 Each
515	Steel Pr	otective Coating	2	0	0	2	0 Square Feet
Elemen Numbe	Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty
313	Corrosion	SURFACE CORROSION			2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECT	IVE COATING		3	2	2 Square Fee
	General Comments						

Span 2

Near Bearing

Movable Bearing

	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	0	1	0	Each
515	Steel Pr	otective Coating	2	0	0	0	2	Square Feet
Elemen Numbe	Defect Turne	Defect Des	cription		CS	CS Qty	Maint Qty	
311	Corrosion	1/4" OF PACK RUST			3	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTEC	TIVE COATING		4	2		2 Square Feet

General Comments

Span 2

Far Bearing

Fixed Bearing	
Flement	

	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Be	earing	1	0	1	0	0 Each
515	Steel Pr	otective Coating	2	0	2	0	0 Square Feet
Elemen Numbe	Dofoot Typo	Defect Description			CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED RUST			2	1	Each

Spa	n 2	Near Bearin	g					
Mov	able Bearing							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	0	1	0	Each
515	Steel Pr	ptective Coating	2	0	0	0	2	Square Feet
Elemen Number	Dofact Type	Defect Descr	iption		CS	CS Qty	Maint Qty	
311	Corrosion	1/4" OF PACK RUST			3	1	-	1 Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECT	IVE COATING		4	2		2 Square Feet
-	General Comments							

Sp	an 2			Far Bearing						
Fix	ed Bearing									
	ement Imber		Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313		Fixed Be	earing		1	0	1	0	0	Each
515	i	Steel Pro	otective Coating		2	0	2	0	0	Square Feet
Eleme Numb	Dofoot	Туре		Defect Description			CS	CS Qty	Maint Qty	
313	Corrosion		FRECKLED RUST				2	1		Each
515	Effectiveness Protective Co		2 SF. OF LIMITED COATING	EFFECTIVENESS OF PI	ROTECTIVE		2	2		2 Square Feet
	General Com	ments								

General Gomment

Span 3

Deck

Reinforced Concrete Deck

	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	1,591	1,059	532	0	0 S	quare Feet
Elemer Numbe	Defect Type	Defect Descri	ption		CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	15 - 2 FT. TRANSVERSE HAIRLINE EFFLORESCENCE IN BOTTOM OF		ERHANG	2	15	15	Square Feet
12	Cracking (RC and Other)	16 - 2 FT. TRANSVERSE HAIRLINE EFFLORESCENCE IN BOTTOM OF OVERHANG			2	16	16	Square Feet
12	Cracking (RC and Other)	500 SF. OF TRANSVERSE AND LC CRACKING WITH EFFLORESCEN			2	500	500	Square Feet
12	Delamination/Spall	4" DIAMETER SPALL IN BOTTOM (MIDSPAN	OF DECK BAY 21	NEAR	2	1	1	Square Feet

General Comments

Structure Number: 770159

Span 3

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Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
301	Pourab	le Joint Seal	32	29	3	0	0 Feet
Element Number	Defect Turne	Defect Descrip	otion		CS	CS Qty	Maint Qty
301	Debris Impaction	3FT OF DEBRIS IMPACTION			2	3	Feet

Expansion Joint

General Comments

n 3	Beam 1						
e Girder							
nent hber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty		
Steel Op	en Girder/Beam	50	49	1	0	0	Feet
Steel Pro	tective Coating	494	493	0	1	0	Square Feet
t Defect Type	Defect Descr	iption		CS	CS Qty	Maint Qty	
Corrosion			AND	2	1	Ē	Feet
Effectiveness (Steel Protective Coatings)				3	1		1 Square Feet
	e Girder hent ber Steel Op Steel Pro t Defect Type Corrosion Effectiveness (Steel	e Girder hent her Steel Open Girder/Beam Steel Protective Coating Defect Type Corrosion 1 FT. OF SURFACE CORROSION WEB AROUND END DIAPHRAGM Effectiveness (Steel 1 SF. OF INEFFECTIVE PROTECT	e Girder her Element Name Steel Open Girder/Beam Steel Protective Coating Corrosion 1 FT. OF SURFACE CORROSION ON TOP FLANGE WEB AROUND END DIAPHRAGM AT BENT 2 Effectiveness (Steel 1 SF. OF INEFFECTIVE PROTECTIVE COATING ON	Defect Type Defect Description Corrosion 1 FT. OF SURFACE CORROSION ON TOP FLANGE AND WEB AROUND END DIAPHRAGM AT BENT 2 Effectiveness (Steel 1 SF. OF INEFFECTIVE PROTECTIVE COATING ON TOP	Element Name Total Qty CS1 Qty Qty Qty Steel Open Girder/Beam 50 49 1 Steel Protective Coating 494 493 0 Corrosion 1 FT. OF SURFACE CORROSION ON TOP FLANGE AND VEB AROUND END DIAPHRAGM AT BENT 2 2 Effectiveness (Steel 1 SF. OF INEFFECTIVE PROTECTIVE COATING ON TOP 3	Element Name Total Qty CS1 Qty CS2 Qty Qty Qty Steel Open Girder/Beam 50 49 1 0 Steel Protective Coating 494 493 0 1 Defect Type Defect Description CS CS Qty Corrosion 1 FT. OF SURFACE CORROSION ON TOP FLANGE AND WEB AROUND END DIAPHRAGM AT BENT 2 2 1 Effectiveness (Steel 1 SF. OF INEFFECTIVE PROTECTIVE COATING ON TOP 3 1	Defect Type Defect Description CS CS Qty Qty

General Comments

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

Spa	in 3		Beam 2						
Plat	e Girder								
Nur	ment nber	Element N	ame	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	S	teel Open Girder/Beam		50	49	1	0	0	Feet
515	S	teel Protective Coating		494	493	1	0	0	Square Feet
Elemen Numbe	Dofoot Tv	ре	Defect Descrip	tion		CS	CS Qty	Maint Qty	
107	Corrosion	on 1 FT. OF PAINTED OVER PITTING UP TO 1/16" DEEP WITH 2 1 RUST BLEEDING IN WEB AROUND END DIAPHRAGM AT BENT 2					Feet		
515	Effectiveness (S Protective Coat		ED EFFECTIVENESS			2	1	1	Square Feet
	General Comme	ents							
			T 2: 2 - 18" VERTICAL T 2: 12" X 3"X 2" DEEP					FACE PA	R
Spa	in 3		Beam 3						
Plat	e Girder								
	ment nber	Element National Street Open Girder/Beam	ame	Total Qty 50	CS1 Qty 49	CS2 Qty 0	CS3 Qty	CS4 Qty	Feet
107				50	49	U	I	0	661

515	Steel P	Protective Coating	494	493	0	0	1 5	Square Feet
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty	
107 Co	orrosion	1 FT. OF CORROSION WITH 11/16" REMAIN WEB AROUND END DIAPHRAGM AND 1/4"			3	1	1	Feet

SECTION IN BEARING STIFFENER AT BENT 2 PAR

Structure Number: 770159

515 Effectiveness (Steel Protective Coatings)

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1 SF. OF INEFFECTIVE PROTECTIVE COATING ON WEB
AROUND END DIAPHRAGM AND BEARING STIFFENER AT
BENT 2
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Inspection Date: 05/15/2019

1 Square Feet

1

4

General Comments

Spai	n 3	Beam 4						
Plate	e Girder							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Op	en Girder/Beam	50	49	1	0	0 F	eet
515	Steel Pro	otective Coating	494	483	11	0	0 S	quare Feet
Element Number	Dofact Type	Defect Descr	iption		CS	CS Qty	Maint Qty	
107	Corrosion	1 FT. OF PAINTED OVER PITTING RUST BLEEDING IN WEB AROUN BENT 2			2	1		Feet
515	Effectiveness (Steel Protective Coatings)	1 SF. OF LIMITED EFFECTIVENES COATING ON WEB AROUND END			2	1	1	Square Feet
515 515	```	1 SF. OF LIMITED EFFECTIVENES	DIAPHRAGM AT E	BENT 2	2 2	1 10	1 10	Square Feet Square Feet

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

Spa	ın 3	Left Bridg	e Rail					
Cor	ncrete and Metal	Railing						
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
333	Other	Bridge Railing	51	50	1	0	0 Feet	
Elemer Numbe	Defect Turne	Defect Des	cription		CS	CS Qty	Maint Qty	
333	Cracking (RC and Other)	1 - 8" TRANSVERSE HAIRLINE (CRACK IN RAIL		2	1	1 Feet	
	Conoral Commonte							

General Comments

Span 3

Right Bridge Rail

Concrete and Metal Railing

Elen Num 333	nber	Element Name Bridge Railing	Total Qty 51	CS1 Qty 18	CS2 Qty 32	CS3 Qty 1	eet	
Element Number	Dofact Type	Defect Des	cription		CS	CS Qty	Maint Qty	
333	Distortion	IMPACT DAMAGE TO END OF B	RIDGE RAIL		3	1	1	Feet
333	Cracking (RC and Other)	2 - 18" TRANSVERSE HAIRLINE	CRACKS IN CURB		2	2	4	Feet
333	Cracking (RC and Other)	5 - 18" TRANSVERSE HAIRLINE	CRACKS IN CURB		2	5	10	Feet
333	Cracking (RC and Other)	5 - 8" TRANSVERSE HAIRLINE C	RACKS IN RAIL		2	5	5	Feet
333	Distortion	MULTIPLE GOUGES UP TO 8" X	2" IN RAIL		2	20		Feet

General Comments

Span 3

Movable Bearing

	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movabl	e Bearing	1	0	1	0	0	Each
515	Steel P	rotective Coating	2	0	2	0	0	Square Feet
Elemen Numbe	Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty	
311	Connection	EAST AND WEST ANCHOR BOL NORTH	TS LEANING TOWA	RDS	2		-	Each
311	Corrosion	FRECKLED RUST			2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENE COATING	ESS OF PROTECTIV	E	2	2		2 Square Feet
-	General Comments							

Fixe	ed Bearing						
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Be	earing	1	0	1	0	0 Each
515	Steel Pr	otective Coating	2	0	2	0	0 Square Feet
lemen lumbe	Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty
313	Corrosion	FRECKLED RUST			2	1	Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EFFECTIVENE COATING	SS OF PROTECTIVE		2	2	2 Square Feet
-	General Comments						

Near Bearing

Movable Bearing

	ment nber	Element Name			Total CS1 Qty Qty		CS2 Qty	CS3 Qty	CS4 Qty		
311		Movable	Bearing		1	0	1	0	0	Each	
515		Steel Pro	tective Coating		2	0	2	0	0	Square Feet	
Elemen Number	Dofoot 7	Гуре		Defect Description			CS	CS Qty	Maint Qty		
311	Connection		EAST AND WEST AN NORTH	NCHOR BOLTS LEAN	ING TOWA	RDS	2	1	-	1 Each	
311	Corrosion		FRECKLED RUST				2			Each	
515	Effectiveness Protective Co		2 SF. OF LIMITED EI COATING	FFECTIVENESS OF P	ROTECTIV	E	2	2	:	2 Square Feet	
-	General Com	nents									

Span 3

Near Bearing

Movable Bearing

Element Number		nt Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable Bearing		1	0	1	0	0	Each
515	Steel Protective Coa	ating	2	0	2	0	0	Square Feet
Element Number	Defect Type	Defect Description	on		CS	CS Qty	Maint Qty	

Structure Number: 770159 Inspection Date: 05/1					ction Date: 05/15/2019
311	Corrosion	FRECKLED RUST	2	1	Each
515	(2 SF. OF LIMITED EFFECTIVENESS OF PROTECTIVE COATING	2	2	2 Square Feet

Spa	n 3	F	ar Bearing						
Fixe	ed Bearing								
	nent nber Fixed Be	Element Name earing		Total Qty 1	CS1 Qty 0	CS2 Qty 1		CS4 Qty 0	
515	Steel Pr	otective Coating		2	0	2	0	0	Square Feet
Elemen Numbe	Defect Type		Defect Description			CS	CS Qty	Maint Qty	
313	Corrosion	FRECKLED RUST				2	1		Each
515	Effectiveness (Steel Protective Coatings)	2 SF. OF LIMITED EF COATING	FECTIVENESS OF PRO	DTECTIVE	1	2	2		2 Square Feet
	General Comments								

Span 3

Near Bearing

Movable Bearing

Elem Numl			Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	N	lovable	Bearing	1	0	1	0	0	Each
515	S	teel Pro	tective Coating	2	0	2	0	0	Square Feet
lement lumber	Defect Ty	pe	Defect Desc	ription		CS	CS Qty	Maint Qty	
311	Connection		EAST AND WEST ANCHOR BOLT	LEANING TOWARD	S	2	1		1 Each
311	Corrosion		FRECKLED RUST			2			Each
	Effectiveness (Protective Coat		2 SF. OF LIMITED EFFECTIVENE COATING	SS OF PROTECTIVE		2	2	:	2 Square Feet
G	General Comme	ents							

Span 3

Far Bearing

Fixed Bearing

Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Be	earing	1	0	1	0	0 Each
515	Steel Pr	otective Coating	2	0	0	2	0 Square Feet
Element Number	Defect Type	Defect Descr	iption		CS	CS Qty	Maint Qty
313	Corrosion	SURFACE CORROSION			2	1	Each
	Effectiveness (Steel Protective Coatings)	2 SF. OF INEFFECTIVE PROTECT	IVE COATING		3	2	2 Square Feet
G	General Comments						

End Bent 1

Reinforced Concrete Abutment

Nun		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
215	Reinfor	ced Concrete Abutment	47	23	10	14	0 F	eet
Elemen Number	Defect Type	Defect Descript	ion		CS	CS Qty	Maint Qty	
215	Cracking (RC and Other)	1 SF. OF HAIRLINE MAP CRACKING OVERHANG	UNDER EAST		3	1	1	Feet
215	Cracking (RC and Other)	5 SF. OF HORIZONTAL AND VERTIC WIDE	AL CRACKS UP	TO 1/16"	3	5	5	Feet
215	Cracking (RC and Other)	8 SF. OF HAIRLINE MAP CRACKING	IN BAY 3		3	8	8	Feet
215	Cracking (RC and Other)	2 SF. OF HORIZONTAL AND VERTIC IN BAY 2	AL HAIRLINE CF	RACKS	2	2	2	Feet
215	Cracking (RC and Other)	5 SF. OF HORIZONTAL AND VERTIC IN BAY 1	AL HAIRLINE CF	RACKS	2	5	5	Feet
215	Delamination/Spall	6" X 3" DELAMINATION IN BAY 3			2	1	1	Feet
215	Delamination/Spall	6" X 4" DELAMINATION IN BAY 1			2	1	1	Feet
215	Delamination/Spall	6" X 4" DELAMINATION IN BAY 2			2	1	1	Feet

End Bent 1

Cap 1

Reinforced Concrete Pier Cap

Eleme Numb 234	ber	Element Name ced Concrete Pier Cap	Total Qty 40	CS1 Qty 37	CS2 Qty 3	CS3 Qty 0	CS4 Qty 0 Fe	et
Element Number	Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty	
	Cracking (RC and Other)	3 FT. HORIZONTAL HAIRLINE CR	ACK UNDER BAY 2		2	3	3	Feet

General Comments

Bent 1

Pile 1

Reinforced Concrete Column

	Element Name	Total Qty	CS1 Qty			CS4 Qty	
Reinfor	ced Concrete Column	1	0	0	1	0 E	lach
Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty	
Cracking (RC and Other)	72" VERTICAL CRACK UP TO 1/	16" WIDE IN SOUTH	FACE	3	1	6	Each
Cracking (RC and Other)	2 SF. OF HORIZONTAL AND VE IN WEST FACE	RTICAL HAIRLINE CF	RACKS	2		2	Each
Cracking (RC and Other)	48" VERTICAL HAIRLINE CRACH	(IN NORTH FACE		2		4	Each
	Cracking (RC and Other) Cracking (RC and Other) Cracking (RC and Other) Cracking (RC and	Defect Type Defect Des Cracking (RC and Other) 72" VERTICAL CRACK UP TO 1/ Cracking (RC and Other) 2 SF. OF HORIZONTAL AND VEI Cracking (RC and Other) 2 NWEST FACE Cracking (RC and Other) 48" VERTICAL HAIRLINE CRACK	Defect Type Defect Description Cracking (RC and Other) 72" VERTICAL CRACK UP TO 1/16" WIDE IN SOUTH Cracking (RC and Other) 2 SF. OF HORIZONTAL AND VERTICAL HAIRLINE CF Cracking (RC and Other) 2 SF. OF HORIZONTAL AND VERTICAL HAIRLINE CF Cracking (RC and Other) 48" VERTICAL HAIRLINE CRACK IN NORTH FACE	Index Element Name Qty Qty Reinforced Concrete Column 1 0 Defect Type Defect Description Cracking (RC and Other) 72" VERTICAL CRACK UP TO 1/16" WIDE IN SOUTH FACE Cracking (RC and Other) 2 SF. OF HORIZONTAL AND VERTICAL HAIRLINE CRACKS IN WEST FACE Cracking (RC and Other) 48" VERTICAL HAIRLINE CRACK IN NORTH FACE	Index Element Name Qty Qty Qty Reinforced Concrete Column 1 0 0 Image: transformed concrete Column Defect Description CS Cracking (RC and Other) 72" VERTICAL CRACK UP TO 1/16" WIDE IN SOUTH FACE 3 Cracking (RC and Other) 2 SF. OF HORIZONTAL AND VERTICAL HAIRLINE CRACKS 2 Cracking (RC and Other) 2 SF. OF HORIZONTAL AND VERTICAL HAIRLINE CRACKS 2 Cracking (RC and Other) 48" VERTICAL HAIRLINE CRACK IN NORTH FACE 2	Index Element Name Qty Qty	berElement NameQty </td

Bent 1

Reinforced Concrete Column

Nun		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
205	Reinfor	rced Concrete Column	1	0	1	0	0 Each
Elemen Number	Defect Tune	Defect Des	cription		CS	CS Qty	Maint Qty
205	Cracking (RC and	48" VERTICAL HAIRLINE CRACK	IN WEST FACE		2	1	4 Each

General Comments

Bent 1

Cap 1

Pile 2

Reinforced Concrete Pier Cap

Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	Reinforced Concrete Pier Cap			7	21	0 F	eet
Element Number	Defect Type	Defect Descript	ion		CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	10 SF. OF HAIRLINE MAP CRACKING BETWEEN COLUMNS 1 AND 2	G IN BOTTOM O	F CAP	3	10	10	Feet
234	Cracking (RC and Other)	2 SF. OF HAIRLINE MAP CRACKING	IN EAST FACE		3	2	2	Feet
234	Cracking (RC and Other)	24" VERTICAL CRACK 1/16" WIDE IN WEST OVERHANG	SOUTH FACE	UNDER	3	1	2	Feet
234	Cracking (RC and Other)	3 - 36" VERTICAL CRACKS UP TO 1/ FACE UNDER BAY 3	16" DEEP IN SO	UTH	3	3	9	Feet
234	Cracking (RC and Other)	5 SF. OF MAP CRACKING 1/16" WIDI UNDER BAY 1	E IN SOUTH FAG	CE	3	5	5	Feet
234	Cracking (RC and Other)	2 - 36" VERTICAL HAIRLINE CRACKS UNDER BAY 1	S IN NORTH FAG	CE	2	2	6	Feet
234	Cracking (RC and Other)	2 - 36" VERTICAL HAIRLNIE CRACKS UNDER BAY 3	S IN NORTH FAG	CE	2	2		Feet
234	Cracking (RC and Other)	2 - 36" VERTICAL HAIRLNIE CRACKS UNDER BAY 3	S IN SOUTH FAC	CE	2	1		Feet
234	Delamination/Spall	24" X 3" DELAMINATION IN BOTTON COLUMNS 1 AND 2	OF CAP BETW	EEN	2	2	2	Feet

General Comments

End Bent 2

Abutment

Reinforced Concrete Abutment

Elem Num 215	iber	Element Name ced Concrete Abutment	Total Qty 47	CS1 Qty 39	CS2 Qty 8	CS3 Qty 0	CS4 Qty 0 Fe	eet
Element Number	Defect Type	Defect Descript	ion		CS	CS Qty	Maint Qty	
	Cracking (RC and Other)	2 - 30" VERTICAL HAIRLINE CRACKS	S IN BAY 2		2	2	6	Feet
	Cracking (RC and Other)	2 - 30" VERTICAL HAIRLINE CRACKS	S IN BAY 3		2	2	6	Feet
215	Delamination/Spall	18" X 6" DELAMINATION IN BAY 1			2	1	2	Feet
215	Delamination/Spall	18" X 6" DELAMINATION IN BAY 2			2	1	2	Feet
215	Delamination/Spall	6" X 3" DELAMINATION IN BAY 2			2	1	1	Feet
215	Delamination/Spall	8" DIAMETER DELAMINATION IN BAY	Y 3		2	1	1	Feet

General Comments

End Bent 2

Cap 1

Reinforced Concrete Pier Cap

Elen Nun		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfo	rced Concrete Pier Cap	40	33	7	0	0 Feet	
Elemen Number	Defect Tune	Defect Descr	iption		CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	2 - 12" VERTICAL HAIRLINE CRAC	KS UNDER BAY 1		2	2	2 Feet	
234	Cracking (RC and Other)	2 - 12" VERTICAL HAIRLINE CRAC	KS UNDER BAY 3		2	2	2 Feet	
234	Cracking (RC and Other)	3 - 12" VERTICAL HAIRLINE CRAC	KS UNDER BAY 2		2	3	3 Feet	
-	General Comments							_

Bent 2

Cap 1

Reinforced Concrete Pier Cap

Elem Num	iber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	30	16	8	4	2 F	eet
Element Number	Defect Type	Defect Descr	iption		CS	CS Qty	Maint Qty	
234	Patched Area	18" X 6" X 4" FAILED PATCH WITH BEARING AREA IN NORTH FACE			4	2	2	Feet
	Cracking (RC and Other)	36" DIAGONAL CRACK 1/16" WIDE BEAM 2	IN NORTH FACE U	INDER	3	3	3	Feet
	Cracking (RC and Other)	6" VERTICAL CRACK 1/16" WIDE I EAST OVERHANG	N NORTH FACE UN	DER	3	1	1	Feet
	Cracking (RC and Other)	2 FT. VERTICAL HAIRLINE CRACK BEAM 4	IN SOUTH FACE U	NDER	2	2	2	Feet
	Cracking (RC and Other)	3 - 3 FT. VERTICAL HAIRLINE CRA UNDER BAY 2	CKS IN SOUTH FA	CE	2	3	9	Feet
	Cracking (RC and Other)	3 FT. DIAGONAL HAIRLINE CRACI BAY 1	K IN SOUTH FACE L	JNDER	2	2		Feet
234	Cracking (RC and Other)	36" VERTICAL HAIRLINE CRACK I BAY 2	N NORTH FACE UN	DER	2	1	3	Feet

General Comments

Bent 2

Pile 2

Reinforced Concrete Column

Elemen Numbe		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
205	Reinfor	ced Concrete Column	1	0	1	0	0 Each
Element Number	Defect Type	Defect Description	n		CS	CS Qty	Maint Qty
205 De	elamination/Spall	4" X 4" X 1" DEEP SPALL IN NORTHEAS	ST CORNER A	AT BASE	2	1	1 Each

General Comments

Elements Verfied

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

Elements Verfied

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

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 770159

Inspection Date: 05/15/2019

National Bridge Inventory Items

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

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C		0	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C			
Field Scour Evaluation				
Drift	G, F, P, or C		0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	F		
Superstructure Paint Code		U		

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

Inspection Information

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Y
Inspection Time	Hours	9
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	Y
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

ucture Numb	Der: 770159		Ir	nspection Date: 05/15/2019
Item	Deck - Item 58	Grade 6	Maint Code	Qty. 0
Details	ASPHALT WEARING SURFACE HAS BEEN MILLED INSPECTION	AND EPOXITY CO	DATING ADDED SINCE P	REVIOUS
Item	Deck Debris	Grade G	Maint Code 3376	Qty. 0
Detaile	Deale milled since last increation and anows surface			

Details Deck milled since last inspection and epoxy surface.

County: ROBESON

Date: 05/15/2019

Condition Photos



Expansion Joint : 3FT OF DEBRIS IMPACTION



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

Structure: 770159

County: ROBESON

Date: 05/15/2019

Condition Photos



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



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

County: ROBESON

Date: 05/15/2019

Condition Photos



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



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

Structure: 770159

County: ROBESON

Date: 05/15/2019

Condition Photos



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



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

County: ROBESON

Date: 05/15/2019

Condition Photos



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



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

Date: 05/15/2019

Condition Photos



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



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

Date: 05/15/2019

Condition Photos



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



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

County: ROBESON

Date: 05/15/2019

Condition Photos



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



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

Date: 05/15/2019

Condition Photos



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



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

Date: 05/15/2019

Condition Photos



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



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

Date: 05/15/2019

Condition Photos



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



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

Date: 05/15/2019

Condition Photos



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



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



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



VERTICAL CLEARANCE SIGN LOCATED AT BRIDGE

County: ROBESON

Date: 05/15/2019

Structure Photos



SOUTHWEST GUARDRAIL END TERMINAL



SW GUARDRAIL MID POST SPACING

County: ROBESON

Date: 05/15/2019

Structure Photos



SW GUARDRAIL POST SPACING AT TRANSITION



SW GUARDRAIL TRANSITION

Date: 05/15/2019

Structure Photos



COVER SHEET PHOTO LOOKING NORTH



LEFT RAIL RIGHT RAIL SIMILAR

Date: 05/15/2019

Structure Photos



SOUTH APPROACH



LOOKING WEST

County: ROBESON

Date: 05/15/2019

Structure Photos



LOOKING EAST



NORTH APPROACH

County: ROBESON

Date: 05/15/2019

Structure Photos



LOOKING SOUTH



WEST ELEVATION

County: ROBESON

Date: 05/15/2019

Structure Photos



EAST ELEVATION



SPAN 2 WEST BOUND THRU LANE

County: ROBESON

Date: 05/15/2019

Structure Photos



SPAN 2 EAST BOUND THRU LANE



ABUTMENT 1

Date: 05/15/2019

Structure Photos



ABUTMENT 1 BEAM 3 BEARING



SPAN 1 SUPERSTRUCTURE

Date: 05/15/2019

Structure Photos

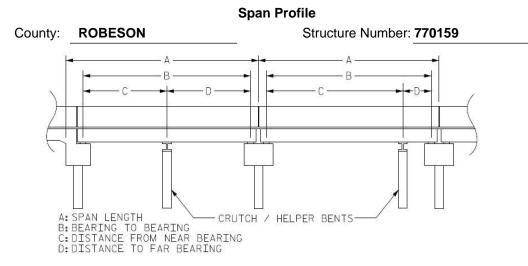


BENT 1



BENT 1 BEAM 3 BEARING

Structure Data Worksheet



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

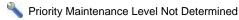
Bridge: 770159

County ROBESON

Date:

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

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



Bridge: 770159 C

County ROBESON

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

MMS Code	MMS De	MMS Description			Quantity		
0	No Maint	aintenance Required 1			1	NA	
Location:	Location:						
			Bent/Span No.				
Priority Leve	:		Status				
Priority Main	tenance		Division Maintenance Work In Process				
Submitted D	ate: Sub	omitte	d By:	Assisted By:			
05/16/2019	JO)HN E	UBANKS				
Details							
END DIAPH	RAGM BA`	Y 2 A	T BENT 2: 12" X 3" X 2" DEEP SP	ALL WITH EXPOSED REBAR IN NC	ORTH FACE	PAR	

MMS Code	MN	MMS Description Quantity					
3314	Mai	ntain Stee	ntain Steel Superstructure Components 1 LF				
Location:							
	Bent/Span No.						
Priority Level			Status				
Priority Maint	tenan	се	Division Maintenance Work In Process				
Submitted Da	ate:	Submitte	d By:	Assisted By:			
05/15/2019		JOHN E	UBANKS				
Details							
Span 2 Beam 1: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AT BENT 1 PAR							

Bridge: 770159

County ROBESON

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

MMS Code	MN	/IS Descrip		Quantity			
3314	Mair	ntain Stee ^r	I Superstructure Components	perstructure Components 1 LF			
Location:							
			Bent/Span No.				
Priority Leve	9I		Status				
Priority Main	ntenan	се	Division Maintenance Work In Process				
Submitted D	Date:	Submitte	d By:	Assisted By:			
05/15/2019		JOHN E	EUBANKS				
Details							
Span 2 Bear AT BENT 2		FT. OF C	ORROSION WITH 11/16" REMAIN	IING SECTION IN WEB AROUND EI	ND DIAPHR	AGM	

MMS Code	MN	MMS Description Quantity						
3314	Mai	ntain Steel	Superstructure Components		1	LF		
Location:								
			Bent/Span No.					
Priority Level			Status					
Priority Main	ntenan	се	Division Maintenance Work In Process					
Submitted D	ate:	Submitte	d By:	Assisted By:				
05/15/2019		JOHN E	UBANKS					
Details								
		Span 3 Beam 3: 1 FT. OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM AND 1/4" REMAINING SECTION IN BEARING STIFFENER AT BENT 2 PAR						

Bridge: 770159

County ROBESON

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

MMS Code	MMS Descri	MMS Description					
3318	Maint to Cond	int to Concrete Handrail			LF		
Location:	Location:						
		Bent/Span No.					
Priority Level	l	Status	Status				
Priority Maint	tenance	Division Maintenance Work In Process					
Submitted Da	ate: Submitte	ed By:	Assisted By:				
05/15/2019	JOHN I	EUBANKS					
Details							
Span 3 Right	t Bridge Rail: IN	IPACT DAMAGE TO END OF BRII	DGE RAIL				

MMS Code	MN	IS Descrip	Quantity				
3334	Brid	Bridge Bearings			1	EA	
Location:							
			Bent/Span No.				
Priority Leve	el		Status				
Priority Mair	ntenan	се	Division Maintenance Work In Process				
Submitted D	ate:	Submitte	d By:	Assisted By:			
05/15/2019		JOHN E	UBANKS				
Details							
Span 3 Bea	m 4 Ne	ear Bearin	g: EAST AND WEST ANCHOR BC	DLT LEANING TOWARDS NORTH			

Bridge: 770159

County ROBESON

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

MMS Code	MM	IS Descrip	S Description			Quantity	
3348	Mair	ntain Conc	crete Substructure Components	e Substructure Components 2 LF			
Location:							
			Bent/Span No.				
Priority Leve	el		Status				
Priority Mair	ntenand	се	Division Maintenance Work In Process				
Submitted D	Date:	Submitte	d By:	Assisted By:			
05/16/2019		JOHN E	EUBANKS				
Details							
Bent 2 Cap BEAM 3 PA		X 6" X 4" I	FAILED PATCH WITH 4" X 1 1/2" L	LOSS OF BEARING AREA IN NORT	H FACE UN	JDER	

MMS Code	MN	MMS Description					
3314	Mai	laintain Steel Superstructure Components				LF	
Location:	Location:						
Bent/Span No.							
Priority Level			Status				
Recommend	ded		Routine Maintenance				
Submitted D	ate:	Submitte	d By:	Assisted By:			
05/15/2019		JOHN EUBANKS					
Details	Details						

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

Bridge: 770159

County ROBESON

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

MMS Code	MN	MMS Description					
3314	Mair	ntain Stee ^r	I Superstructure Components	perstructure Components 1 LF			
Location:							
			Bent/Span No.				
Priority Leve)		Status				
Recommend	bed		Routine Maintenance				
Submitted D	ate:	Submitte	d By:	Assisted By:			
05/15/2019		JOHN E	EUBANKS				
Details							
Span 1 Bea AT BENT 1		FT. OF C	ORROSION WITH 11/16" REMAIN	IING SECTION IN WEB AROUND EI	ND DIAPHR	AGM	

MMS Code	MN	MMS Description Quantity					
3314	Mai	aintain Steel Superstructure Components 1				LF	
Location:	Location:						
Bent/Span No.							
Priority Level			Status				
Recommend	led		Routine Maintenance				
Submitted Da	ate:	Submitte	d By:	Assisted By:			
05/15/2019		JOHN EUBANKS					
Details	Details						
Span 1 Beam 3: 1 FT, OF CORROSION WITH 11/16" REMAINING SECTION IN WEB AROUND END DIAPHRAGM							

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

Bridge Inspection Field Sketch

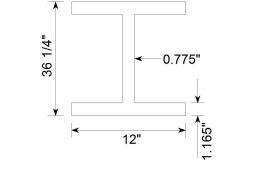
Roadway	24ft Wide	2 Paved Lanes	Looking North
Left Shoulder	3ft Wide	3ft Paved	
Right Shoulder	3ft Wide	3ft Paved	
Left Guardrail	3ft from road		
Right Guardrail	3ft from road		

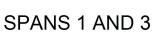
MEASUREMENTS TAKEN AT END BENT 1

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

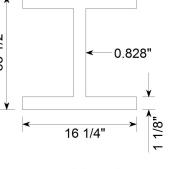
Title		Description						
APPROACH ROADWAY		LOOKI	NG NORTH					
Bridge No: 770159	Drawn By: RLK		Date: 5/23/2011	File Name:S0098000565				
Bridge No: 770159	Drawn By: KLK		Date: 5/23/2011	File Name: \$0098000565				

M C S C G G T	lear Roadway ledian Width urb Height idewalk Width lear Roadway (Rail to Media uardrail Width op of Rail to Deck/Wearing S ridge Rail			ng Surface n Height 0.80ft 2.60ft 2.60ft	Right Right Right	0.292ft 0.80ft 2.40ft	
C S C G T	urb Height idewalk Width lear Roadway (Rail to Media uardrail Width op of Rail to Deck/Wearing S		Left Left Left Left Left	0.80ft 2.60ft 2.60ft	Right Right Right		
S C G T	idewalk Width lear Roadway (Rail to Media luardrail Width op of Rail to Deck/Wearing S		Left Left Left Left	2.60ft 2.60ft	Right Right Right		
C G T	lear Roadway (Rail to Media uardrail Width op of Rail to Deck/Wearing S		Left Left Left	2.60ft	Right Right	2.40ft	
G T	uardrail Width op of Rail to Deck/Wearing S		Left Left	2.60ft	Right	2.40ft	
Т	op of Rail to Deck/Wearing S	Surface	Left	2.60ft		2.40ft	
	-	Surface			A CONTRACTOR OF A CONTRACTOR		
	ridge Rail		Left		Right	2.60ft	
				Type 33	Right	Туре 33	
	asurements for Span # ck Thickness	1 0.604	Left Overhang		4.708		
Тор	o of Rail to Bottom of Beam	6.229	Righ	t Overhang		4.708	
Beam Number	r Beam Type Spacing			Com	ments		
1	Steel I Beam	8ft					
2	Steel I Beam	8ft					
3		8ft					
4	Steel I Beam	ft					
	Steel I Beam			ES ON BO			



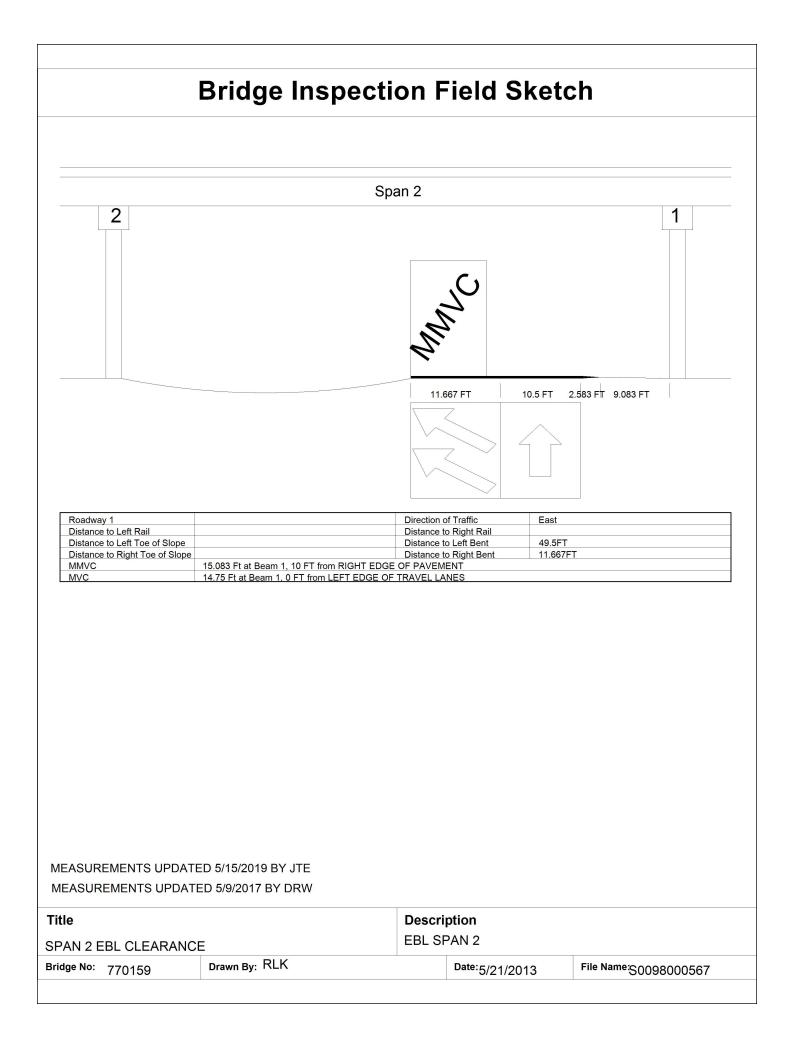






SPAN 2

Title Description SIMILAR SECTION SUPERSTRUCTURE Bridge No: 770159 Drawn By: RBH Date:01/01/08 File Name: \$0098000566



		Bri	dge l	nsp	oectio	n Fie	ld S	ketc	h		
Can In	formation		Material	Castin	Place Concre	ato					
Leng	th Width	h Width Height Left Overhang Right C		Right Overh	verhang Left Beam to End of Cap.				Right Beam to End of Cap.		
29.500 Subca	ft. 2.500 ft. p Information			5.000 ft.	D ft. 1.833 ft.				1.833 ft.		
				Right Overh	verhang Left Pile to Splice.						
Sill Inf	ormation		Material								
Leng	th Width	Height									
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacem	nent?	Removed?	Collar?
1	Concrete	19.5 ft.	3 ft.	2.5 ft.		Vertical	No	No		No	No
2	Concrete		3 ft.	2.5 ft.		Vertical	No	No		No	No
ME	ASUREMENTS	VERIFIED	5/15/2019 I	BY JTE							
Bent/A	vbutment #: 1	1	Similar I	Bents:	2						
	IEASUREMEI					Description	I				
	RUCTURE				E	BENT 1					
JBSTR		1						1			

