

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 04/16/2018

DIVISION: 8 COUNTY: LEE	STRUCTURE NUMBER: 520010	FREC	QUENCY: 24 MONT	HS
FACILITY CARRIED: US15/501,NC87	1	MILE POST:		
LOCATION: 0.6 MI. N. JCT. SR1465				
FEATURE INTERSECTED: DEEP RIVER				
LATITUDE: 35° 34' 42.28"	LONGITUDE: 79° 11' 38.97"			
SUPERSTRUCTURE: REINFORCED CO	NCRETE DECK GIRDERS			
SUBSTRUCTURE: ABUTS:RC FULL HT,	INT.BT#1-3:RC POST & BEAM, INT.BT#4&9:RC PC	ST & WEB	, INT.BT#5-8:RC SO	L
SPANS: 10 SPANS. SEE SPAN PROF	ILE SHEET FOR SPAN DETAILS			
FRACTURE CRITICAL TEMPO	DRARY SHORING SCOUR CRITICAL	SCOUR	PLAN OF ACTION	
GRADES: DECK 5 SUPERSTR	UCTURE 5 SUBSTRUCTURE 5 CULVI	ERT N	-	
POSTED SV: Not Posted	POSTED TTST: Not Post	ed		
OTHER SIGNS PRESENT: NONE				
		Sign noticed issued for		Number Required
Service .		NO	WEIGHT LIMIT	0
		NO	DELINEATORS	0
	The second secon	NO	NARROW BRIDGE	0
N. A. L. Valley	ECLP BINDS	NO	ONE LANE BRIDGE	0
		NO	LOW CLEARANCE	0
Looking north		INSP DIRE	ECTION OF S-N ECTION S-N ES PLANS	
INSPECTED BY	SIGNATURE Ruh Well	ASSISTED BY	Jim Stocks	
Rick Wertman	Juh Mer			

Structure Element Scoring

Structure Number: <u>520010</u> Inspection Date <u>4/16/2018</u>

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	16462	15974	31	457	0
110	0	Reinforced Concrete Open Girder/Beam	Beam	2590	2360	48	182	0
205	0	Reinforced Concrete Column	Piles and Columns	15	2	1	12	0
210	0	Reinforced Concrete Pier Wall	Piles and Columns	136	135	1	0	0
215	0	Reinforced Concrete Abutment	Abutments	152	63	19	70	0
234	0	Reinforced Concrete Pier Cap	Caps	263	175	46	42	0
301	0	Pourable Joint Seal	Expansion Joints	267	267	0	0	0
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	1060	874	153	33	0
510	0	Wearing Surface	Wearing Surfaces	14757	6957	0	7800	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 520010 Inspection Date: 04/16/2018

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	132 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	87 Square Feet
3326	Reinforced Concrete Deck	Patched Areas	187 Square Feet
3306	Reinforced Concrete Open Girder/Beam	Delamination/Spall	150 Feet
3306	Reinforced Concrete Open Girder/Beam	Exposed Rebar	24 Feet
3306	Reinforced Concrete Open Girder/Beam	Cracking (RC and Other)	30 Feet
3348	Reinforced Concrete Column	Patched Area	4 Each
3348	Reinforced Concrete Column	Exposed Rebar	4 Each
3348	Reinforced Concrete Column	Cracking (RC and Other)	1 Each
3348	Reinforced Concrete Column	Delamination/Spall	11 Each
3348	Reinforced Concrete Pier Wall	Delamination/Spall	1 Feet
3350	Reinforced Concrete Abutment	Cracking (RC and Other)	38 Feet
3350	Reinforced Concrete Abutment	Delamination/Spall	6 Feet
3350	Reinforced Concrete Abutment	Patched Area	26 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	33 Feet
3348	Reinforced Concrete Pier Cap	Patched Area	4 Feet
3348	Reinforced Concrete Pier Cap	Exposed Rebar	28 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	6 Feet
3318	Reinforced Concrete Bridge Railing	Patched Area	25 Square Feet
3318	Reinforced Concrete Bridge Railing	Cracking (RC and Other)	3 Feet
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	5 Feet
3318	Reinforced Concrete Bridge Railing	Exposed Rebar	1 Feet
2816	Wearing Surface	Crack (Wearing Surface)	7800 Square Feet

Element Structure Maintenance Quantities

Structure Number: 520010 Inspection Date 04/16/2018

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	70	152	0	70	19	63
Beam	3306	Maintenance Concrete Superstructure Components	204	2590	0	182	48	2360
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	34	1060	0	33	153	874
Caps	3348	Maintenance of Concrete Substructure	71	263	0	42	46	175
Deck	3326	Maintenance of Concrete Deck	406	16462	О	457	31	15974
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	267	О	О	0	267
Piles and Columns	3348	Maintenance of Concrete Substructure	21	151	0	12	2	137
Wearing Surfaces	2816	Asphalt Surface Repair	7800	14757	0	7800	0	6957

Element Condition and Maintenance Data

Structure Number: 520010 Inspection Date: 04/16/2018

laotaic	14d111501: <u>020010</u>						opeolion Bate: <u>0-7/10/2010</u>
Spa	an 1	Deck					
Rei	nforced Concrete	e Deck					
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinfo	rced Concrete Deck	1,645	1,564	29	52	0 Square Feet
lemer	Dofoot Typo	Defect Desc	cription		CS	CS Qty	Maint Qty
12	Patched Areas	Patched area 1' high x full length o distressed with efflorescence/stala throughout.			3	52	Square Feet
12	Patched Areas	Full width patch over pier 6			2	29	Square Feet
	General Comments						

Spa	n 1	Wearing 9	Surface					
Asp	halt Wearing Sur	face						
Elen Nun 510		Element Name g Surface	Total Qty 1,475	CS1 Qty 775	CS2 Qty 0	CS3 Qty 700	CS4 Qty 0 Sc	quare Feet
 lemen lumbe	Dofoot Typo	Defect Des	scription		CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Transverse/longitudinal/map crac throughout span both travel lanes		" wide	3	700	700	Square Feet
-	General Comments							

Spa	an 1	Right Bridge	Rail					
Cor	ncrete Railing							
	ment mber Reinford	Element Name ed Concrete Bridge Railing	Total Qty 53	CS1 Qty 48	CS2 Qty 5	CS3 Qty 0	CS4 Qty 0 Feet	
Elemer Numbe	Dofoot Tuno	Defect Descript	tion		CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Several full width 1/32" transverse crac various locations.	cks in top of curb	at	2	5	Feet	
	General Comments							

Spa	an 1		Beam 2							
Rei	nforce	ed Concrete	Girder							
	ment mber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty		
110		Reinford	ed Concrete Open Girder/Beam	51	50	1	0	0 F	eet	
Elemer Numbe	г	Defect Type	Defect Description			CS	CS Qty	Maint Qty		
110	Crack Other)	ing (RC and)	1' long diagonal crack at end of beam over bottom of beam.	pier 1 startir	ng at	2	1		Feet	_
	Genera	al Comments	·	·						

Spa	ın 1	Beam 3							
Reir	nforced Concrete	Girder							
Nur	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty		
110	Reinford	ed Concrete Open Girder/Beam	51	47	4	0	0	Feet	
Elemen Numbe	Dofoot Typo	Defect Description	on		cs	CS Qty	Maint Qty		
110	Efflorescence/Rust Staining	4' of efflorescence on bottom of beam be starting at abutment 1.	etween beams 2	2 and 3	2	4		Feet	
•	General Comments								_

Spai	n 1	Beam 5						
Rein	forced Concrete	e Girder						
Elen Num	. •	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfo	rced Concrete Open Girder/Beam	51	47	1	3	0	Feet
Element Number	Dofoot Typo	Defect Descript	ion		CS	CS Qty	Maint Qty	
110	Cracking (RC and Other)	3' long longitudinal crack up to 1/16" w mid span.	ide on bottom of	beam at	3	3	;	3 Feet
110	Exposed Rebar	6" high x 2" wide x 1/4" deep spall with measurable section loss on west face			2	1	•	1 Feet
(General Comments							

Span 2	<u>)</u>	Deck					
Reinfo	rced Concrete	Deck					
Elemen Numbe		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinfor	ced Concrete Deck	1,645	1,593	0	52	0 Square Feet
Element Number	Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty
12 Pa	atched Areas	Patched area 1' high x full length of distressed with efflorescence/stalac throughout			3	52	52 Square Feet
Ger	neral Comments						

Span 2		Expansion	Joint					
Standar	d Joint							
Element Number 301		Element Name int Seal	Total Qty 32	CS1 Qty 32	CS2 Qty 0	CS3 Qty 0	CS4 Qty 0 Feet	
Element Number	Defect Type	Defect Des	cription		CS C	S Qty	Maint Qty	

General Comments

Not visible

Span	2	Wearing S	Surface					
Aspha	alt Wearing Surf	ace						
Eleme Numb	• • •	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing	Surface	1,475	775	0	700	0 S	quare Feet
lement lumber	Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
	Crack (Wearing Surface)	Transverse/longitudinal/map crac throughout span both travel lanes		" wide	3	700	700	Square Feet
G	eneral Comments							

Spa	n 2	Right Bridge	e Rail					
Con	crete Railing							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfo	rced Concrete Bridge Railing	53	20	12	21	0 F	eet
Elemen Numbe	Dofoct Typo	Defect Descr	iption		CS	CS Qty	Maint Qty	
331	Patched Area	East face of curb has several failed spalled out up to 5' long x 8" high x 2	•		3	21	21	Square Feet
331	Cracking (RC and Other)	Several full width 1/32" transverse or various locations.	racks in top of curb	at	2	12		Feet
-	General Comments							

Span	2	Beam 1						
Reinfo	orced Concrete	Girder						
Eleme Number 110	er	Element Name ced Concrete Open Girder/Beam	Total Qty 52	CS1 Qty 45	CS2 Qty 0	CS3 Qty 7	CS4 Qty 0 Feet	
Element Number	Defect Type	Defect Descripti	ion		CS	CS Qty	Maint Qty	
110 D	Pelamination/Spall	3' high x 2' wide area of delamination o a 16" square x 1" deep spall with expos measurable section loss over pier 1.			3	2	2 Feet	
110 E	xposed Rebar	Full height spall up to 2' wide x 2" deep section loss that extends down to botto long x up to 1' wide by up to 3" deep wi section loss on west face of beam 3' fro	m corner spall that th exposed rebar	at is 5'	3	5	5 Feet	
Ge	eneral Comments							_

Span	1 2	Beam 2						
Reinf	forced Concrete	Girder						
Elem	0	Florida Nove	Total	CS1	CS2	CS3	CS4	
Numl	ber	Element Name	Qty	Qty	Qty	Qty	Qty	
110	Reinford	ced Concrete Open Girder/Beam	52	43	1	8	0 Feet	
Element Number	Defect Type	Defect Description	on		CS	CS Qty	Maint Qty	
110	Delamination/Spall	3' high x 16" wide area of delamination of from pier 1 with spalls up to 8" long x 6"			3	2	2 Feet	
110	Delamination/Spall	Delamination 6' long x 8" wide on bottom west face 9' from pier 2.	n of beam x 5"	high on	3	6	6 Feet	
110	Patched Area	10" long x full width of bottom of beam sopier 2.	ound patched a	area at	2	1	Feet	
G	Seneral Comments							

Spa	n 2	Beam 4						
Reir	nforced Concrete	Girder						
Eler Nun 110		Element Name ced Concrete Open Girder/Beam	Total Qty 52	CS1 Qty 51	CS2 Qty 0	CS3 Qty	CS4 Qty 0 F	eet
		ced Concrete Open Girder/beam	52	31		'		
Elemen Numbe	Dofoot Typo	Defect Descript	ion		CS	CS Qty	Maint Qty	
110	Delamination/Spall	Area of delamination 1' square on botto west face with a spall 6" high x 6" with a rebar with no measurable section loss	x 1" deep with ex		3	1	1	Feet
-	General Comments							

Spa	n 2	Beam 5						
Reir	nforced Concret	e Girder						
Elen Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfo	orced Concrete Open Girder/Beam	52	50	0	2	0 F	eet
lemen Jumbe	Dofoot Typo	Defect Descript	ion		CS	CS Qty	Maint Qty	
110	Delamination/Spall	18" high x 4" wide x 1" deep spall on ea	ast face of beam	over	3	1	1	Feet
110	Delamination/Spall	Full height x 3" wide x up to 1" deep sp pier 2 east face.	all at end of bea	m over	3	1	1	Feet
-	General Comments							

Span	3	Deck						
Reinfo	orced Concrete	Deck						
Eleme Numb 12	er	Element Name	Total Qty 1,645	CS1 Qty 1,592	CS2 Qty 0	CS3 Qty 53	CS4 Qty 0 S	Square Feet
	Remore	Lea Concrete Deck	1,045	1,592				equare reet
Element Number	Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty	
12 [Delamination/Spall	1' diameter spall 3/4" deep with exp measurable section loss on unders middle diaphragm			3	1	1	Square Feet
12 P	Patched Areas	Patched area 1' high x full length of distressed with efflorescence/stalacthroughout			3	52	52	Square Feet
Ge	eneral Comments							

Span 3		Expansion Jo	int					
Standar	d Joint							
Element Number 301		ent Name	Total Qty 29	CS1 Qty 29	CS2 Qty 0	CS3 Qty 0	CS4 Qty 0 Feet	
Element Number	Defect Type	Defect Descript	ion		CS (CS Qty	Maint Qty	

General Comments

Not visible

Spai	n 3	Wearing 9	Surface					
Asp	halt Wearing Surf	ace						
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing	Surface	1,475	775	0	700	0 S	quare Feet
Element Number	Dofoot Typo	Defect Des	scription		CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Transverse/longitudinal/map crace throughout span both travel lanes		" wide	3	700	700	Square Feet
(General Comments							

Span 3		Right Bridge	e Rail					
Concre	te Railing							
Element Number 331		Element Name ced Concrete Bridge Railing	Total Qty 53	CS1 Qty 38	CS2 Qty 15	CS3 Qty 0	CS4 Qty 0 Feet	
Element Number	Defect Type	Defect Descr	iption		CS	CS Qty	Maint Qty	
Oth	cking (RC and er) eral Comments	Several up to full width 1/32" transve various locations.	erse cracks in top of	curb at	2	15	Feet	

Span 3		Beam 1						
Reinford	ced Concrete	Girder						
Element Number 110		Element Name ced Concrete Open Girder/Beam	Total Qty 52	CS1 Qty 51	CS2 Qty 1	CS3 Qty 0	CS4 Qty 0 I	Feet
lement Jumber	Defect Type	Defect Descripti	ion		CS	CS Qty	Maint Qty	
110 Pato	ched Area	1' wide x 20" high sound patched area over pier 2.	on east face of b	eam	2	1	,	Feet
Gene	eral Comments							

Spa	n 3	Beam 4						
Reir	nforced Concrete	Girder						
Elen Num	nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfor	ced Concrete Open Girder/Beam	52	50	1	1	0	Feet
Elemen Number	Dofoct Typo	Defect Descript	ion		cs	CS Qty	Maint Qty	
110	Delamination/Spall	1' square area of delamination with a 1 deep spall on bottom of beam at pier 2.		x 1/2"	3	1	1	I Feet
110	Patched Area	Sound patched area 1' long x 3" high o bottom of beam at pier 2.	n west face x 6"	wide on	2	1		Feet

Structure Number: 520010 Inspection Date: <u>04/16/2018</u>

Spa	an 3	Beam 5						
Reir	nforced Concrete	Girder						
	ment mber Reinford	Element Name ced Concrete Open Girder/Beam	Total Qty 52	CS1 Qty 41	CS2 Qty 10	CS3 Qty 1	CS4 Qty 0 F	eet
Elemen Numbe	Dofoct Typo	Defect Descripti	on		cs	CS Qty	Maint Qty	
110	Delamination/Spall	1' square area of delamination on east	face of beam at	pier 3.	3	1	1	Feet
110	Cracking (RC and Other)	5' long x 3' high area of hairline map crabeam starting 2' from pier 3.	acking on east fa	ace of	2	5		Feet
110	Exposed Rebar	1' high x 3" wide x 1" deep spall with ex measurable section loss on west face of	•		2	1	1	Feet
110	Exposed Rebar	5" diameter spall 1" deep on bottom of rebar with no measurable section loss s		sed	2	1	1	Feet
110	Patched Area	Sound patched area full height at end of bottom of beam that extends 8" on bottom			2	3		Feet

General (Comments
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Span 4	4	Deck						
Reinfo	rced Concrete	Deck						
Elemer Numbe		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	1,647	1,616	0	31	0 8	Square Feet
Element Number	Defect Type	Defect Descr	ription		CS	CS Qty	Maint Qty	
12 Pa	atched Areas	Patched area 1' high x 6' long startil long starting at pier 4 of east overha efflorescence/stalactites/staining an	ang that is distress	ed with	3	31	31	Square Feet
Ge	neral Comments	-						

Span 4		Expansion	Joint					
Standa	rd Joint							
Elemen Number		lement Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint	Seal	29	29	0	0	0 Feet	
Element Number	Defect Type	Defect Descr	ription		cs c	CS Qty	Maint Qty	

General Comments Not visible

Spa	ın 4			Wearing Surface						
Asp	halt Wearin	g Surfa	ace							
	ment nber	Wearing	Element Name Surface		Total Qty 1,476	CS1 Qty 476	CS2 Qty 0	CS3 Qty 1,000	CS4 Qty 0 S	quare Feet
Elemen Numbe	Dofoot T	уре		Defect Description			CS	CS Qty	Maint Qty	
510	Crack (Wearin Surface)		Transverse/longitud	linal/map cracking in AW th travel lanes.	S up to 1/2	2" wide	3	1,000	1,000	Square Feet
	General Comm	ients								

Span	' 7	Left Bridge	IXAII					
Cond	crete Railing							
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinf	orced Concrete Bridge Railing	53	38	9	6	0 F	eet
lement lumber	Defect Type	Defect Descr	iption		CS	CS Qty	Maint Qty	
	Cracking (RC and Other)	2' long x 1/8" wide crack in top of top	p rail at rail post 8.		3	2	2	Feet
331	Patched Area	unsound patched area on west face and 9.	of curb between ra	il posts 8	3	4	4	Square Feet
331	Patched Area	Sound patched area on west face of 5 and 6 and rail posts 7 and 8.	f curb between rail p	oosts	2	9		Square Feet

Spar	n 4	Right Bridge	Rail					
Con	crete Railing							
Elen Num 331	nber	Element Name ced Concrete Bridge Railing	Total Qty 53	CS1 Qty 35	CS2 Qty 18	CS3 Qty 0	CS4 Qty 0 F	eet
Element Number	Dofoot Typo	Defect Descrip	otion		CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Numerous up to full width hairline to 1 top of curb at various locations.	/32" transverse cr	acks in	2	18	•	Feet
(General Comments							

Spa	an 4	Beam 1						
Rei	nforced Concrete	Girder						
	ment mber Reinfor	Element Name ced Concrete Open Girder/Beam	Total Qty 52	CS1 Qty 36	CS2 Qty 0	CS3 Qty 16	CS4 Qty 0 F	eet
Eleme	Dofoot Typo	Defect Description	on		CS	CS Qty	Maint Qty	
110	Delamination/Spall	1' high x 7" wide x full width bottom corn with exposed rebar with no measurable	•		3	1	1	Feet
110	Delamination/Spall	Area of delamination 13' long x 15" high width of bottom of beam with a 10' long at pier 4.			3	13	13	Feet
110	Delamination/Spall	Area of delamination 18" wide x 32" high over pier 4	n on west face o	of beam	3	2	2	Feet
	General Comments							

Beam 2					
crete Girder					
Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
einforced Concrete Open Girder/Beam	52	50	0	2	0 Feet
pe Defect Descript	tion		CS	CS Qty	Maint Qty
pall Area of delamination 20" long x 5" high on bottom of beam at pier 4.	on west face x	5" wide	3	2	2 Feet
	Element Name einforced Concrete Open Girder/Beam pe Defect Descript pall Area of delamination 20" long x 5" high	Element Name Qty einforced Concrete Open Girder/Beam 52 pe Defect Description pall Area of delamination 20" long x 5" high on west face x s	Element Name Element Name Oty Oty Oty Oty Oty Oty Oty Ot	Element Name Element Name Ottal Otty O	Element Name Element Name Outy Ou

Beam 3						
ete Girder						
Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
nforced Concrete Open Girder/Beam	52	51	1	0	0 F	eet
Defect Descript	tion		CS	CS Qty	Maint Qty	
4" diameter corner spall on bottom and from pier 4.	d east faces 1/2" of	deep 20'	2	1		Feet
r	Element Name nforced Concrete Open Girder/Beam Defect Descript all 4" diameter corner spall on bottom and	ete Girder Element Name Qty nforced Concrete Open Girder/Beam 52 Defect Description 4" diameter corner spall on bottom and east faces 1/2" of the control of the corner spall on bottom and east faces 1/2" of the corner spall on bottom east faces 1/2" of the corner spall on bottom east faces 1/2" of the corner spall on bottom east faces 1/2" of the corner spall on bottom east faces 1/2" of the corner spall on bottom east faces 1/2" of the corner spall on bottom east faces 1/2" of the corner spall on bottom east faces 1/2" of the corner spall on bottom east faces 1/2" of the corner spall on bottom east faces 1/2" of the corner spall on bottom east faces 1/2" of the corner spall on bottom east faces 1/2" of the corner spall on bottom east faces 1/2" of the corner spall on bottom east faces 1/2" of the corner spall on bottom east faces 1/2" of the corner spall on bottom east faces 1/2"	ete Girder Total CS1 Element Name Qty Qty Inforced Concrete Open Girder/Beam 52 51 Defect Description 4" diameter corner spall on bottom and east faces 1/2" deep 20'	ete Girder Total CS1 CS2 Element Name Qty Qty Qty Inforced Concrete Open Girder/Beam 52 51 1 Element Name Defect Description CS A" diameter corner spall on bottom and east faces 1/2" deep 20' 2	ete Girder Total CS1 CS2 CS3 Element Name Qty Qty Qty Qty Inforced Concrete Open Girder/Beam 52 51 1 0 Defect Description CS CS Qty All 4" diameter corner spall on bottom and east faces 1/2" deep 20' 2 1	Element Name Total CS1 CS2 CS3 CS4

General Comments

Span 4	4	Beam 4						
Reinfo	rced Concrete	Girder						
Elemer Numbe 110	er	Element Name ced Concrete Open Girder/Beam	Total Qty 52	CS1 Qty 50	CS2 Qty 0	CS3 Qty 2	CS4 Qty 0 F	eet
Element Number	Defect Type	Defect Descript	tion		CS	CS Qty	Maint Qty	
110 D	elamination/Spall	Area of delamination 21" long x 3" high on bottom of beam with a 10" wide x 8' exposed rebar with no measurable sec	" high x 2" deep :	spall with	3	2	2	Feet
<u></u>	noral Commonte							

General Comments

Spai	n 4	Beam 5						
Rein	nforced Concret	e Girder						
Elen Num	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfo	orced Concrete Open Girder/Beam	52	36	0	16	0 F	eet
Element Number	Dofoot Typo	Defect Descrip	tion		CS	CS Qty	Maint Qty	
110	Cracking (RC and Other)	1' long horizontal crack 1/16" wide on of beam 20' from pier 4.	west face 1" from	bottom	3	1	1	Feet
110	Cracking (RC and Other)	15' long x up to 1/4" deep horizontal cr from bottom of beam at mid span.	ack in west face	1" up	3	15	15	Feet
(General Comments							

5	Deck						
rced Concrete	Deck						
nt er	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Reinford	ced Concrete Deck	1,647	1,595	0	52	0 8	Square Feet
Defect Type	Defect Des	cription		cs	CS Qty	Maint Qty	
atched Areas				3	52	52	Square Feet
	rced Concrete nt Reinford Defect Type	rced Concrete Deck Int Element Name Reinforced Concrete Deck Defect Type Defect Deserted Areas Patched Area 1' high x full length distressed with efflorescence/stale	rced Concrete Deck It Element Name Qty Reinforced Concrete Deck 1,647 Defect Type Defect Description atched Areas Patched area 1' high x full length of east overhang that distressed with efflorescence/stalactites/staining and of the concrete Deck 1.	rced Concrete Deck It Element Name Qty Qty Reinforced Concrete Deck 1,647 1,595 Defect Type Defect Description atched Areas Patched area 1' high x full length of east overhang that is distressed with efflorescence/stalactites/staining and cracking	rced Concrete Deck It Element Name Qty Qty Qty Reinforced Concrete Deck 1,647 1,595 0 Defect Type Defect Description CS atched Areas Patched area 1' high x full length of east overhang that is 3 distressed with efflorescence/stalactites/staining and cracking	rced Concrete Deck In Element Name Qty	rced Concrete Deck In transport Element Name

Span 5		Expansi	on Joint					
Standa	rd Joint							
Element Number	I	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Join	t Seal	29	29	0	0	0 Feet	
Element Number	Defect Type	Defect D	escription		CS	CS Qty	Maint Qty	

General Comments

Not visible

Spar	า 5	Wearing	Surface				
Aspl	nalt Wearing Sur	face					
Elem Num 510	ber	Element Name g Surface	Total Qty 1,476	CS1 Qty 476	CS2 Qty 0	CS3 Qty 1,000	CS4 Qty 0 Square Feet
Element Number	Defect Type	Defect De	escription		CS	CS Qty	Maint Qty
	Crack (Wearing Surface)	Transverse/longitudinal/map cracthroughout span both travel lane		" wide	3	1,000	1,000 Square Feet
_	General Comments						

Spa	an 5	Left Bridge F	Rail					
Cor	ncrete Railing							
	ment mber Reinfor	Element Name ced Concrete Bridge Railing	Total Qty 53	CS1 Qty 48	CS2 Qty 0	CS3 Qty 5	CS4 Qty 0 F	eet
Elemer Numbe	Dofoot Typo	Defect Descrip	otion		CS	CS Qty	Maint Qty	
331	Delamination/Spall	4' long x up to full height x up to 1" de face of curb starting at pier 4	ep spalled area or	n front	3	4	4	Feet
331	Delamination/Spall	Full height up to 1/16" crack with a 8" delamination/spall up to 3/4" deep in f		a of	3	1	1	Feet
	General Comments		-					

Spa	ın 5	Right Bridge	e Rail					
Con	ncrete Railing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfor	ced Concrete Bridge Railing	53	31	22	0	0 F	eet
Elemen Numbe	Dofoot Typo	Defect Descri	iption		CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Numerous up to full width hairline to top of curb at various locations.	1/32" transverse cr	acks in	2	22	·	Feet
	General Comments							

Spa	n 5	Beam 1						
Reir	nforced Concrete	Girder						
Nun	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfor	ced Concrete Open Girder/Beam	52	50	0	2	0 F	eet
Elemen Numbe	Dofoct Typo	Defect Description	on		CS	CS Qty	Maint Qty	
110	Delamination/Spall	2' long x 14" wide on bottom of beam x 6 area of delamination starting at pier 5	6" high on east	face	3		2	Feet
110	Delamination/Spall	Spall 18" long x 1' high on west face x 10 beam with exposed rebar with no measuran area of delamination 16" long x 5" higher 5.	urable section lo	oss and	3	2	2	Feet
-	General Comments							

Spar	า 5	Beam 2						
Rein	forced Concrete	Girder						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfor	ced Concrete Open Girder/Beam	52	47	2	3	0 F	eet
Element Number	Dofoct Typo	Defect Descrip	tion		cs	CS Qty	Maint Qty	
110	Delamination/Spall	30" long x 10" wide on bottom of beam area of delamination starting at pier 5	x 6" high on wes	st face	3	3	3	Feet
110	Patched Area	18" long x 4" high on west face x 4" w sound patched area starting at pier 4.	ide on bottom of	beam	2	2		Feet
7	General Comments							

Spa	n 5	Beam 4						
Reir	nforced Concrete	Girder						
Eler Nun 110		Element Name rced Concrete Open Girder/Beam	Total Qty 52	CS1 Qty 50	CS2 Qty 1	CS3 Qty 1	CS4 Qty 0 F	- eet
Elemen Numbe	Dofoct Typo	Defect Description	n		CS	CS Qty	Maint Qty	
110	Delamination/Spall	1" long x 4" high on west face x 6" wide of delamination with a crack up to 1/8" wide delamination starting at pier 4.		eam	3	1	1	Feet
110	Patched Area	1' long x full width of bottom of beam sou staining at pier 5.	nd patched are	ea with	2	1		Feet
	General Comments							

Spa	n 5	Beam 5						
Reir	nforced Concrete	e Girder						
Elen Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfo	rced Concrete Open Girder/Beam	52	46	4	2	0	Feet
Elemen Numbe	Dofoot Typo	Defect Descrip	tion		CS	CS Qty	Maint Qty	
110	Delamination/Spall	18" long x 3" high on east face x 2" wi starting 7' from pier 4.	de on bottom of b	eam	3	2	2	? Feet
110	Cracking (RC and Other)	2' long x 1/32" wide longitudinal crack starting 2' from pier 4.	long x 1/32" wide longitudinal crack on bottom of beam		2	2		Feet
110	Delamination/Spall	4" diameter area of delamination on wifrom pier 5.	est face of beam	at top 5'	2	1	1	Feet

110 Exposed Rebar Spall 1" wide x full width of bottom of beam x 1/4" deep at pier 2 1 1 Feet

General Comments

Spa	n 6	Deck						
Reir	nforced Concrete	Deck						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinford	ced Concrete Deck	1,648	1,618	0	30	0 S	quare Feet
Elemen Numbe	Dofoct Typo	Defect Descr	ription		CS	CS Qty	Maint Qty	
12	Delamination/Spall		5' long x full height of front face east overhang area of oncrete deterioration with a spall 2' long x 7" wide x up to 2"			15	15	Square Feet
12	Delamination/Spall	15' long x full height of front face ea concrete deterioration with a spall 2 deep starting at pier 6.			3	15	15	Square Feet
-	General Comments							

Span 6		Expansion Joint						
Standa	rd Joint							
Element Number		ne	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Joint Seal		29	29	0	0	0 Feet	
Element Number	Defect Type	Defect Description			CS (CS Qty	Maint Qty	

General Comments

Not visible

	Wearing Surfac	ce					
ring Surface							
Element N	ame	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Wearing Surface		1,477	477	0	1,000	0 S	quare Feet
ct Type	Defect Description	on		CS	CS Qty	Maint Qty	
		AWS up to 1/2	?" wide	3	1,000	1,000	Square Feet
	Wearing Surface ct Type earing Transverse/lon	Element Name Wearing Surface ct Type Defect Descriptions	Element Name Qty Wearing Surface 1,477 ct Type Defect Description earing Transverse/longitudinal/map cracking in AWS up to 1/2	Element Name Qty Qty Wearing Surface 1,477 477 ct Type Defect Description Transverse/longitudinal/map cracking in AWS up to 1/2" wide	Element Name Qty Qty Qty Wearing Surface 1,477 477 0 ct Type Defect Description CS earing Transverse/longitudinal/map cracking in AWS up to 1/2" wide 3	Element Name Wearing Surface Total CS1 CS2 CS3 Qty Qty Qty Qty Qty Qty 1,477 477 0 1,000 Ct Type Defect Description CS CS Qty	Total

General Comments

Span 6		Left Bridge I	Rail				
Concrete R	ailing						
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinfor	ced Concrete Bridge Railing	53	52	1	0	0 Feet
Element Number Def	ect Type	Defect Descri	ption		CS	CS Qty	Maint Qty
331 Exposed	Rebar	1' high x full width x 2" deep spall wit measurable section loss in top of rail		ith no	2	1	1 Feet

Spa	an 6	Right Bridge	Rail					
Cor	ncrete Railing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforc	ed Concrete Bridge Railing	53	38	15	0	0 Feet	
Elemer Numbe	Dofoot Typo	Defect Descrip	otion		CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Numerous up to full width hairline to 1 top of curb at various locations.	/32" transverse cr	acks in	2	15	Feet	
	General Comments			•	•			

Spa	n 6	Beam 1						
Rei	nforced Concret	e Girder						
	ment mber Reinfo	Element Name orced Concrete Open Girder/Beam	Total Qty 52	CS1 Qty 51	CS2 Qty 1	CS3 Qty 0	CS4 Qty 0 Feet	
Elemer Numbe	Dofoot Typo	Defect Descript	ion		CS	CS Qty	Maint Qty	
110	Exposed Rebar	1' long x 4" wide x 1 1/2" deep corner s with no measurable section loss on bot from pier 6.			2	1	1 Feet	
	General Comments							_

Spar	า 6	Beam 3						
Rein	forced Concrete	Girder						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfor	rced Concrete Open Girder/Beam	52	50	0	2	0	Feet
lement Jumber	Dofoot Typo	Defect Descript	tion		CS	CS Qty	Maint Qty	
110	Cracking (RC and Other)	2' long crack 1/16" wide on bottom of b	peam starting at p	oier 6.	3	2	2	2 Feet
(General Comments							

1 6	Beam 4						
forced Concrete	Girder						
ent ber Reinfor	Element Name ced Concrete Open Girder/Beam	Total Qty 52	CS1 Qty 51	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0 Feet	
Defect Type	Defect Descript	tion		CS	CS Qty	Maint Qty	
Delamination/Spall				3	1	1 Feet	
f	ent ber Reinfor	ent ber Element Name Reinforced Concrete Open Girder/Beam Defect Type Delamination/Spall Delamination 16" high x 1' long x 9" wi with a 7" wide x 4" long x 3" deep corn	ent Element Name Qty Reinforced Concrete Open Girder/Beam 52 Defect Type Defect Description Delamination/Spall Delamination 16" high x 1' long x 9" wide on bottom of by with a 7" wide x 4" long x 3" deep corner spall at bottom	ent Element Name Qty Qty Reinforced Concrete Open Girder/Beam 52 51 Defect Type Defect Description Delamination/Spall Delamination 16" high x 1' long x 9" wide on bottom of beam with a 7" wide x 4" long x 3" deep corner spall at bottom of	ent Element Name Qty Qty Qty Reinforced Concrete Open Girder/Beam 52 51 0 Defect Type Defect Description CS Delamination/Spall Delamination 16" high x 1' long x 9" wide on bottom of beam with a 7" wide x 4" long x 3" deep corner spall at bottom of	ent ber Element Name Qty Qty Qty Qty Qty Reinforced Concrete Open Girder/Beam 52 51 0 1 Defect Type Defect Description CS CS Qty Delamination/Spall Delamination 16" high x 1' long x 9" wide on bottom of beam with a 7" wide x 4" long x 3" deep corner spall at bottom of	ent ber Element Name Qty

Sp	an 6	Beam 5						
Re	inforced Concrete	e Girder						
	ement Imber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfo	rced Concrete Open Girder/Beam	52	25	1	26	0 F	eet
Eleme Numb	Dofoot Typo	Defect Descript	ion		CS	CS Qty	Maint Qty	
110	Delamination/Spall	1' long x 4" high x 2" deep spall on eas cracking up to 3' long x up to 3/16" wide			3	6	6	Feet
110	Delamination/Spall	10' long x 4" high area of delamination up to 1/4" wide on west face of bottom pier 5.			3	10	10	Feet
110	Delamination/Spall	Area of delamination 6' long x up to 1' In 10" wide on bottom of beam 16' from p		e x up to	3	6	6	Feet
110	Exposed Rebar	PMSpall 4' long x 10" high on west fa beam with exposed rebar with section l			3	4	4	Feet
110	Cracking (RC and Other)	1' long 1/32" horizontal crack on west fapier 5.	ace of beam star	rting at	2	1		Feet
110	ũ (S .	ace of beam star	ung at				I

Span	7	Deck						
Reinf	orced Concrete	Deck						
Eleme Numb 12	per	Element Name ced Concrete Deck	Total Qty 1,647	CS1 Qty 1,641	CS2 Qty 0	CS3 Qty 6	CS4 Qty 0	Square Feet
Element Number	Defect Type	Defect Descr	ription		CS	CS Qty	Maint Qty	
12 [Delamination/Spall	6' long x full height of front face eas: deterioration with a spall 2' long x 7' starting at pier 6.			3	6		6 Square Feet
G	eneral Comments							

Span 7		Expan	sion Joint					
Standa	rd Joint							
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Jo	int Seal	29	29	0	0	0 Feet	
Element Number	Defect Type	Defect	Description		CS	CS Qty	Maint Qty	

General Comments

Not visible

Spa	ın 7	Wearing S	Surface					
Asp	halt Wearing Sur	face						
Nun	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing	g Surface	1,476	676	0	800	0 S	Square Feet
Elemen Numbe	Dofoct Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Transverse/longitudinal/map crace throughout span both travel lanes	•	" wide	3	800	800	Square Feet
	General Comments							

Spa	n 7	Right Bridge	Rail					
Cor	ncrete Railing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinford	ed Concrete Bridge Railing	53	37	16	0	0 Feet	
Elemen Numbe	Dofoot Typo	Defect Descrip	otion		CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Numerous up to full width hairline to 1 top of curb at various locations.	/32" transverse cr	acks in	2	16	Feet	
	General Comments							

Spa	an 7	Beam 1						
Rei	nforced Concrete	Girder						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfor	ced Concrete Open Girder/Beam	52	48	2	2	0 Feet	
Elemer Numbe	Dofoot Typo	Defect Descripti	on		CS	CS Qty	Maint Qty	
110	Delamination/Spall	Delamination 25" high x 16" wide on we pier 7	est face of beam	over	3	2	2 Feet	i .
110	Delamination/Spall	End of beam has spalled off 18" high x over pier 7.	full width x up to	3" deep	3		1 Feet	İ
110	Delamination/Spall	6" long x 4" wide x 1/2" deep spall with measurable section loss on bottom ove	•	vith no	2	1	1 Feet	i .
110	Exposed Rebar	9" long x 6" wide x 1/2" deep spall with measurable section loss on bottom of b			2	1	1 Feet	İ

Span	n 7	Beam 2						
Rein	forced Concrete	Girder						
Elem Num 110	ber	Element Name ced Concrete Open Girder/Beam	Total Qty 52	CS1 Qty 51	CS2 Qty 1	CS3 Qty 0	CS4 Qty 0 Feet	
Element Number	Dofoot Typo	Defect Descript	ion		CS	CS Qty	Maint Qty	
110	Delamination/Spall	5" high x 1" wide x1/4" deep spall on w pier 6.	est face of beam	over	2	1	1 Fee	t
G	General Comments							

Spa	an 7	Beam 3						
Rei	nforced Concrete	Girder						
	ment mber Reinfor	Element Name rced Concrete Open Girder/Beam	Total Qty 52	CS1 Qty 51	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0 Feet	
Elemer Numbe	Dofoot Tuno	Defect Descript	ion		CS	CS Qty	Maint Qty	
110	Cracking (RC and Other)	1' long longitudinal crack 1/8" wide on bottom of beam starting at pier 6.		3	1	1 Feet	_	
	General Comments							_

General Comments

Spar	n 7	Beam 4						
Rein	forced Concrete	e Girder						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfo	rced Concrete Open Girder/Beam	52	49	3	0	0 F	eet
Element Number	Dofoot Typo	Defect Descript	ion		cs	CS Qty	Maint Qty	
110	Exposed Rebar	10" long x 6" wide x 1" deep spall with a measurable section loss on bottom of b		ith no	2	1	1	Feet
110	Patched Area	Sound patched area 18" long x 1' high of beam at pier 7.	on east and wes	t faces	2	2		Feet
(General Comments							

Spa	an 7	Beam 5								
Reinforced Concrete Girder										
	ment mber Reinford	Element Name ced Concrete Open Girder/Beam	Total Qty 52	CS1 Qty 30	CS2 Qty 0	CS3 Qty 22	CS4 Qty 0 F	eet		
Elemer Numbe	Dofoct Typo	Defect Description	on		CS	CS Qty	Maint Qty			
110	Cracking (RC and Other)	2' long horizontal crack 1/8" wide on wes pier 7.	st face of beam	16' from	3	2	2	Feet		
110	Delamination/Spall	Delamination 20' long x up to full width o high on west face at mid span.	n bottom of bea	am x 4"	3	20	20	Feet		
110	Delamination/Spall	Delamination 8' long x up to full width on high on west face with a 10" diameter sp of beam starting 3' from pier 7.			3			Feet		
General Comments										

Rei	nforced Concrete	Deck						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	1,645	1,614	1	30	0 S	quare Feet
lemer lumbe	Dofoct Typo	Defect De	escription		CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	Full width transverse cracks up to up to 3" long x 5" wide x 1" deep		of potholes	3	29	29	Square Feet
12	Delamination/Spall	Spall in east overhang 2' wide x span over pier 8.	4" long x 5" deep at e	nd of	3	1	1	Square Feet
12	Delamination/Spall	Spall 6" wide x 3" long x 1/4" dee measurable section loss on under bay 3.			2	1	1	Square Feet

Span 8		Expansion J	oint					
Standar	d Joint							
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourable Jo	int Seal	32	32	0	0	0 Feet	
Element Number	Defect Type	Defect Descrip	otion		CS	CS Qty	Maint Qty	

Not visible

Spai	n 8	Wearing	Surface					
Asp	halt Wearing Sur	face						
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing	g Surface	1,475	675	0	800	0 S	quare Feet
lement Number	Dofoot Typo	Defect De	escription		CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Transverse/longitudinal/map cracthroughout span both travel lane		?" wide	3	800	800	Square Fee
(General Comments							

Spa	n 8	Left Bridge	Rail					
Con	crete Railing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfor	ced Concrete Bridge Railing	53	52	0	1	0 Feet	
Elemen Numbe	Dofoot Typo	Defect Descri	ption		CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	J 1			3	1	1 Feet	
_	General Comments							_

Spa	n 8	Right Bridge	Rail					
Con	crete Railing							
	ment nber Reinford	Element Name red Concrete Bridge Railing	Total Qty 53	CS1 Qty 33	CS2 Qty 20	CS3 Qty 0	CS4 Qty 0 Feet	
Elemen Numbe	Dofoot Typo	Defect Descrip	otion		CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Numerous up to full width hairline to 1 top of curb at various locations.	ous up to full width hairline to 1/32" transverse cracks in urb at various locations.		2	20	Feet	
	General Comments							

Spa	n 8	Beam 1						
Rei	nforced Concrete	Girder						
	ment mber Reinfo	Element Name rced Concrete Open Girder/Beam	Total Qty 52	CS1 Qty 48	CS2 Qty 4	CS3 Qty 0	CS4 Qty 0 Fe	eet
Elemer Numbe	Dofoot Typo	Defect Descripti	ion		CS	CS Qty	Maint Qty	
110	Cracking (RC and Other)	Full height vertical hairline to 1/32" crac at mid span.	ck on west face o	f beam	2	1		Feet
110	Exposed Rebar	Three spalls spaced 1' apart up to 10" I deep with exposed rebar with no meas bottom of beam 14' from pier 7			2	3	3	Feet
	General Comments							

Span 8	Beam 3						
Reinforced Concrete	e Girder						
Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110 Reinfo	rced Concrete Open Girder/Beam	52	51	1	0	0 Feet	
Element Number Defect Type	Defect Description	on		CS	CS Qty	Maint Qty	
110 Exposed Rebar	Spall 1' square x 3" deep on bottom of be with no measurable section loss at pier		ed rebar	2	1	1 Feet	

Spai	n 8	Beam 5						
Rein	forced Concrete	Girder						
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfor	ced Concrete Open Girder/Beam	52	40	1	11	0 F	eet
Element Number	Dofoot Typo	Defect Descript	ion		CS	CS Qty	Maint Qty	
110	Delamination/Spall	1' long x 8" wide area of delamination of from pier 8.	I' long x 8" wide area of delamination on bottom of beam 11' rom pier 8.			1	1	Feet
110	Delamination/Spall	Delamination 2' long x 10" wide on bott west face 10' from pier 7	om of beam x 4'	high on	3	2	2	Feet
110	Delamination/Spall	Delamination 4' long x 8" wide on botto west face 13' from pier 8.	m of beam x 4"	high on	3	4	4	Feet
110	Delamination/Spall	Delamination 4' long x up to 11" wide on high on west face 20' from pier 8.	n bottom of bear	m x 4"	3	4	4	Feet
110	O Delamination/Spall Delamination 4' long x up to full width of bothigh on west face starting 1' from pier 7			n x 4"	3			Feet
110	Delamination/Spall	5" long x 4" high x 1/2" deep spall on e pier 7.	ast face of beam	over	2	1	1	Feet
(General Comments							

Spa	n 9	Deck						
Rei	nforced Concrete	Deck						
	ment mber Reinfor	Element Name ced Concrete Deck	Total Qty 1,648	CS1 Qty 1,577	CS2 Qty 1	CS3 Qty 70	CS4 Qty 0 S	quare Feet
Elemer Numbe	Dofoct Typo	Defect Des	cription		CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	Full width transverse cracks up to up to 1" long x 3" wide x 1/4" deep		f potholes	3	29	29	Square Feet
12	Delamination/Spall	40' long x full height of front face e concrete deterioration with a spall starting at pier 9.	•		3	40	40	Square Feet
12 Delamination/Spall Spall in east overhang 2' wide x 9" long x 5" deep with ex rebar with no measurable section loss at end of span over 8.				•	3	1	1	Square Feet
12	Efflorescence/Rust Staining	Full width hairline transverse crack stalactites on underside of deck 5			2	1		Square Feet
General Comments								

Span 9		Expansio	on Joint					
Standa	rd Joint							
Element Number 301		Element Name pint Seal	Total Qty 29	CS1 Qty 29	CS2 Qty 0	CS3 Qty 0	CS4 Qty 0 Feet	
Element Number	Defect Type	Defect De	escription		CS (CS Qty	Maint Qty	

General Comments

Not visible

General Comments

Spai	n 9	Wearing S	Surface				
Asp	halt Wearing Sur	face					
Elen Num 510	nber	Element Name g Surface	Total Qty 1,477	CS1 Qty 977	CS2 Qty 0	CS3 Qty 500	CS4 Qty 0 Square Feet
Element Number	Dofoot Typo	Defect Des	scription		cs	CS Qty	Maint Qty
510			king in AWS up to 1/2 s.	" wide	3	500	500 Square Feet
(General Comments						

Span 9 Left Bridge Rail Concrete Railing Total CS1 CS2 CS3 CS4 Element Number Element Name Qty Qty Qty Qty Qty 331 Reinforced Concrete Bridge Railing 53 51 2 0 Feet Element Maint Defect Type **Defect Description** CS CS Qty Number Qty 331 Patched Area Sound patched area on bottom west face of rail posts 8 and 9. 2 2 Square Feet

Spa	n 9	Right Bridge Rail						
Con	crete Railing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfor	ced Concrete Bridge Railing	53	43	10	0	0	Feet
Elemen Numbe	Dofoot Typo	Defect Descri	iption		CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Numerous up to full width hairline to top of curb at various locations.	1/32" transverse cr	acks in	2	10		Feet
	General Comments							

Span 9 Beam 1 Reinforced Concrete Girder Element CS1 CS2 CS3 CS4 Total Number Element Name Qty Qty Qty Qty Qty 110 Reinforced Concrete Open Girder/Beam 52 45 3 0 Feet Element Maint Defect Type **Defect Description** CS CS Qty Number Qty

Structure	Number: <u>520010</u>			Inspecti	on Date: <u>04/16/2018</u>
110	Delamination/Spall	2' square area of delamination on west face of beam over pier 8.	3	2	2 Feet
110	Delamination/Spall	Spall at beam end 1' wide x 26" high x full width over pier 9	3	1	1 Feet
110	Exposed Rebar	4 spalls spaced approximately 1' apart up to 3" long x 2" wide x 1/2" deep with exposed rebar with no measurable section loss on bottom of beam 7' from pier 8.	2	4	4 Feet
	General Comments				

Span	9	Beam 2						
Reinf	orced Concrete	Girder						
Eleme	per	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinfor	ced Concrete Open Girder/Beam	52	47	3	2	0 F	eet
Element Number	Defect Type	Defect Description	n		cs	CS Qty	Maint Qty	
	Cracking (RC and Other)	Spall at beam end west face 3" wide x 10 with a 16" long vertical crack 1/4" wide o	•	deep	3	1	1	Feet
110	Delamination/Spall	,		3	1	1	Feet	
110 I	Patched Area	Three sound patched area on bottom of 10" long starting at pier 8 out 4'.	beam up to 1' v	vide x	2	3		Feet
G	eneral Comments							

Spa	an 9	Beam 5						
Rei	nforced Concrete	Girder						
	ement mber Reinford	Element Name ced Concrete Open Girder/Beam	Total Qty 52	CS1 Qty 16	CS2 Qty 0	CS3 Qty 36	CS4 Qty 0 F	eet
Elemei Numbe	Dofoot Typo	Defect Descriptio	n		cs	CS Qty	Maint Qty	
110	Cracking (RC and Other)	2' long horizontal crack 1/16" wide on we starting 11' from pier 8	est face of beam		3	2	2	Feet
110	Cracking (RC and Other)	3' long horizontal crack 3/16" wide on we starting 5' from pier 8	est face of beam		3	3	3	Feet
110	Delamination/Spall	Delamination 30' long x up to full width of to 1' on west face starting approximately		n x up	3	30	30	Feet
110	Delamination/Spall	Up to 1' long x full height at end of beam deterioration with spalling up to 3" deep s			3	1	1	Feet
	General Comments							

Spai	n 10	Deck						
Rein	forced Concrete	Deck						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinford	ced Concrete Deck	1,645	1,564	0	81	0 S	quare Feet
Element Number	Dofoot Typo	Defect Desc	cription		CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	Full width transverse cracks up to a up to 6" long x 3" wide over pier 9.	e cracks up to 1" wide with areas of potholes de over pier 9.		3	29	29	Square Feet
12	Delamination/Spall	Full length x full height of front face concrete deterioration with a spallir starting at pier 9.			3	52	52	Square Feet
(General Comments							

Span 10	0	Expansion C	Joint					
Standar	rd Joint							
Element Number 301		lement Name Seal	Total Qty 29	CS1 Qty 29	CS2 Qty 0	CS3 Qty 0	CS4 Qty 0 Feet	
Element Number	Defect Type	Defect Descri	iption		CS C	CS Qty	Maint Qty	

General Comments

Not visible

Spa	n 10	Wearing	Surface					
Asp	halt Wearing Sur	face						
	nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	_
510	Wearing	g Surface	1,475	875	0	600	0 Sc	quare Feet
Elemen Numbe	Dofoot Typo	Defect De	escription		cs	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Transverse/longitudinal/map cra throughout span both travel lane	•	" wide	3	600	600	Square Feet
-	General Comments							

Span	10	Left Bridge F	Rail					
Conc	crete Railing							
Elem Numl		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinford	ced Concrete Bridge Railing	53	52	1	0	0	Feet
lement Number	Defect Type	Defect Descri	ption		CS	CS Qty	Maint Qty	
331	31 Patched Area Sound patched area of		face of rail post 1.		2	1	-	Square Feet
G	General Comments							

Spar	n 10	Right Bridge Rail							
Cond	crete Railing								
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty		
331	Reinfor	ced Concrete Bridge Railing	53	46	7	0	0 Feet		
Element Number	Dofoot Typo	Defect Descri	ption		CS	CS Qty	Maint Qty		
331 Cracking (RC and Several full/partial wi Other) various locations.		Several full/partial width transverse ovarious locations.	racks in top of curl	o at	2	7	Fe	eet	
-	General Comments								

Span 1	0	Beam 5						
Reinfor	ced Concrete Gird	er						
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Co	oncrete Open Girder/Beam	51	42	0	9	0 Feet	
Element Number	Defect Type	Defect Descripti	on		cs c	S Qty	Maint Qty	

Structure	Number: <u>520010</u>			Inspec	tion Date: 04/16/2018
110	Delamination/Spall	Delamination 3' long x 1' wide on bottom of beam x 3" high on west face approximately 10' from pier 9.	3	3	3 Feet
110	Delamination/Spall	Delamination 3' long x 6" wide on bottom of beam x 3" high on west face approximately 14' from pier 9.	3	2	2 Feet
110	Delamination/Spall	Delamination 4' long x 10" wide on bottom of beam x 3" high on west face starting 3' from abutment 2.	3	4	4 Feet

General Comments

End	l Bent 1	Abutment						
Rei	nforced Concrete	Abutment						
	ment nber Reinfor	Element Name ced Concrete Abutment	Total Qty 76	CS1 Qty 38	CS2 Qty 1	CS3 Qty 37	CS4 Qty 0 F	eet
Elemer Numbe	Dofoot Typo	Defect Descripti	ion		CS	CS Qty	Maint Qty	
215	Cracking (RC and Other)	25' long horizontal crack up to 1/8" wide abutment that extends 3' on front face s		/ 1.	3	30	30	Feet
215	Cracking (RC and Other)	7' long diagonal 1/32" to 1/16" wide cra beam 2 starting at top of abutment	ck in front face ur	nder	3	2	2	Feet
215	Cracking (RC and Other)	Full height vertical/diagonal crack up to efflorescence starting at top of abutmer side.		east	3	1	1	Feet
215	Delamination/Spall	1.5' wide x 2.5' long x 3" deep spall with measurable section loss at beam 5.	n exposed rebar v	vith no	3	2	2	Feet
215	Patched Area	Patched area that is unsound 16" wide under beam 5.	x 5' high on front	face	3	2	2	Feet
215	Cracking (RC and Other)	Full height vertical hairline to 1/32" crac 2.	k in front face un	der bay	2	1		Feet
	General Comments							

Ber	nt 1	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	27	10	16	1	0 F	eet
Elemer Numbe	Defeat Tune	Defect Descri	ption		CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	2' long horizontal/transverse crack up face and bottom of cap starting at co		north	3		2	Feet
234	,		e x 12" wide x 2" de		3	1	1	Feet
234	Patched Area	3' high x 2' wide unsound patched an cap with 2 spalls up to 4" diameter 1, rebar with no measurable section los	/2" deep with expos		3		2	Feet
234	Exposed Rebar	1' high x 10" wide x 3/4" deep spall we measurable section loss on south factors.			2	1	1	Feet
234	Exposed Rebar	2 spalls at west end of cap up to 13" with exposed rebar with no measura		deep	2	1	1	Feet
234	Exposed Rebar	2' long x 1' wide x 4" deep spall with measurable section loss on south fac			2	2	2	Feet
234	Exposed Rebar	Two spalls up to 21" high x 2' wide x rebar with no measurable section los under bay 2.			2		3	Feet
234	Patched Area	Several sound patched area on sout square starting under beam 2.	h face of cap up to	4'	2	12		Feet
	General Comments							

Ben	t 1	Pile 1						
Reir	nforced Concrete	Column						
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinfor	ced Concrete Column	1	0	0	1	0 1	Each
lemen lumbe	Dofoot Typo	Defect Desc	cription		CS	CS Qty	Maint Qty	
205	Cracking (RC and Other)	3' high vertical crack up to 1/8" wid starting 2' from ground line.	e on north face of co	lumn	3	1	1	Each
-	General Comments							

Bent 1		Pile 2						
Reinfo	rced Concrete	Column						
Elemen Numbe 205	r	Element Name ced Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0 Ea	ach
Element Number	Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty	
205 Ex	posed Rebar	PM2' high x 1' wide x 3" deep spa section loss on north face starting 3		r with	3	1	1	Each
Ger	neral Comments							

End	Bent 2	Abutment						
Reir	nforced Concrete	Abutment						
	nent nber Reinfor	Element Name ced Concrete Abutment	Total Qty 76	CS1 Qty 25	CS2 Qty 18	CS3 Qty 33	CS4 Qty 0 F	eet
Elemen Numbe	Dofoot Typo	Defect Descri	ption		CS	CS Qty	Maint Qty	
215	Cracking (RC and Other)	Several full/partial height vertical crace efflorescence under bay 2 out to bea	•	e with	3	5	5	Feet
215	Delamination/Spall	1.5' square area of delamination with 2" deep to the right of delamination w measurable section loss starting 3' w	vith exposed rebar		3	4	4	Feet
215	Patched Area	Patched area 24' long x up to 6' high that is unsound with full width horizor with efflorescence and an area of mapatch up to 1/8" wide.	ntal crack up to 3/1	6" wide	3	24	24	Feet
215	Cracking (RC and Other)	Two 6' long x up to 1/32" wide horizo efflorescence and a 6' high x 4' wide beams 2 and 3.		ea under	2	6		Feet
045	Deteloral Asses	At the ball of the Could be a ball to a council or a tab			0	40		E

General Comments

Patched Area

215

Forming left in place under beams 2 and 3.

Bent 2		Cap 1						
Reinfor	ced Concrete	Pier Cap						
Element Number 234		Element Name	Total Qty 27	CS1 Qty	CS2 Qty 12	CS3 Qty 8	CS4 Qty 0 Feet	
	Reinion	ced Concrete Pier Cap		/	12			
Element Number	Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty	
234 Del	amination/Spall	6" wide x 11" high area of delaminunder bay 2.	ation on north face of	cap	3	1	1 Feet	

2

12

Feet

4' high x up to full height sound patched area starting under beam 5 that extends out to east side of beam 5.

Structure	Number: <u>520010</u>			Inspec	tion Da	ate: <u>04/16/2018</u>
234	Delamination/Spall	6" wide x 30" high area of delamination at east end of cap under beam 5 $$	3	1	1	Feet
234	Delamination/Spall	Delamination 3' high x 6' long on south face of cap under bay 2.	3	6	6	Feet
234	Patched Area	2 sound patched area on north face of cap under beams 3 and 4.	2			Feet
234	Patched Area	Several sound patched areas on south face of cap between beams 2 thru 5.	2	12		Feet
	General Comments					

Bent	2	Pile 1						
Reinf	orced Concrete	Column						
Eleme Numb 205	per	Element Name ced Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0 Each	า
lement Jumber	Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
205 [Delamination/Spall	2' long x 4" wide area of delamina starting at bottom of cap.	ation on northwest corr	ner	3	1	1 Ea	ach
G	eneral Comments	·						

Bent	2	Pile 2						
Rein	forced Concrete	Column						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinford	ced Concrete Column	1	0	0	1	0 E	ach
Element Number	Dofoot Typo	Defect Des	cription		CS	CS Qty	Maint Qty	
205	Delamination/Spall	4.5' high x 16" wide delaminated a starting 2' from bottom of cap.	area on southeast cor	ner	3	1	1	Each
(General Comments	·						

Ber	nt 2	Pile 3						
Rei	nforced Concrete	Column						
	ment mber Reinfo	Element Name rced Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0 Each	١
Elemer Numbe	Dofoot Typo	Defect Des	cription		CS	CS Qty	Maint Qty	
205	Patched Area	5' high x 8" wide corner patch on sunsound starting at bottom of cap.		S	3	1	1 Ea	ach
205	Patched Area	2.5' high x 7" wide sound corner postarting 2' from bottom of cap	atch on southwest cor	ner	2		Ea	ach
	General Comments							

Bent 3		Сар	1						
Reinforce	ed Concrete	Pier Cap							
Element Number		Element Name	Tot Q		CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinford	ced Concrete Pier Cap	2	27	8	10	9	0 Feet	
Element Number	Defect Type	Defe	ect Description			CS	CS Qty	Maint Qty	
234 Delam	nination/Spall	1' high x up to 19" wide x u	up to 5" deep spall on so	outh fa	ace of	3		2 Feet	

Structure	Number: <u>520010</u>			Inspec	ction Date: <u>04/16/2018</u>
234	Delamination/Spall	3' high x up to 16" wide x up to 4" deep spall with exposed rebar with no measurable section loss on south face of cap under beam 2.	3	1	1 Feet
234	Delamination/Spall	6' long x up to full height area of delamination on south face of cap under beam 3 in to bay 2.	3	6	6 Feet
234	Patched Area	Unsound patched area on top of cap east end with 4" wide x 1/2" deep spalling around patch that extends down east face and south face.	3	2	2 Feet
234	Exposed Rebar	Two spalls up to 6" diameter x 1/2" deep with exposed rebar with no measurable section loss on north face of cap under beam 3.	2		2 Feet
234	Patched Area	Several sound patched areas on south face of cap starting under bay 2 out to east end.	2	10	Feet

t 3	Pile 3						
nforced Concrete	Column						
nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Reinfor	ced Concrete Column	1	0	0	1	0 1	Each
t Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty	
Delamination/Spall						1	Each
Delamination/Spall	•		s that	3		1	Each
Delamination/Spall				3		1	Each
Delamination/Spall	5' high x 8" wide corner spall with exposed rebar with no measurable section loss on southwest corner with areas of delamination on both sides of spall with a crack up to 1/8" wide that extends down to ground starting 2' from bottom of cap.			3	1	1	Each
Exposed Rebar			n around.	2		1	Each
	nent nber Reinfor T Defect Type Delamination/Spall Delamination/Spall Delamination/Spall	nent her Element Name Reinforced Concrete Column t Defect Type Defect Des Delamination/Spall 1' square area of concrete deterior deep 7' from ground line on east for extend 2' up and down from delant extend 2' up and down from delant 27" high x 9" wide x 1 1/2" deep syno measurable section loss on we from ground. Delamination/Spall 5' high x 8" wide corner spall with measurable section loss on sout delamination on both sides of spathat extends down to ground start. Exposed Rebar 6" diameter spall 1" deep with expanding the control of the control of the column.	nent Element Name Qty Reinforced Concrete Column t Defect Type Defect Description Delamination/Spall 1' square area of concrete deterioration with spalling up deep 7' from ground line on east face. Delamination/Spall 1.5' high x 6" wide area of delamination with 1/32" crack extend 2' up and down from delamination. Delamination/Spall 27" high x 9" wide x 1 1/2" deep spall with exposed rebarno measurable section loss on west face of column star from ground. Delamination/Spall 5' high x 8" wide corner spall with exposed rebar with nomeasurable section loss on southwest corner with area delamination on both sides of spall with a crack up to 1/that extends down to ground starting 2' from bottom of column tarea for delamination on both sides of spall with a crack up to 1/that extends down to ground starting 2' from bottom of column tarea for delamination on both sides of spall with a crack up to 1/that extends down to ground starting 2' from bottom of column tarea for delamination on both sides of spall with a crack up to 1/that extends down to ground starting 2' from bottom of column tarea for delamination on both sides of spall with a crack up to 1/that extends down to ground starting 2' from bottom of column tarea for delamination on both sides of spall with a crack up to 1/that extends down to ground starting 2' from bottom of column tarea for delamination.	Interest Proced Concrete Column The Reinforced Concrete Column Reinforced Concrete Column Total CS1 Qty Qty Reinforced Concrete Column Total CS1 Qty Qty Reinforced Concrete Column Total CS1 Qty Qty Reinforced Concrete Column Total CS1 Qty Qty Reinforced Concrete Column Total CS1 Qty Qty Reinforced Concrete Column Total CS1 Qty Qty Reinforced Concrete Column Total CS1 Reinforced Concrete Celemn To 0 Total CS1 Reinforced Concrete Celemn T	nent Element Name Qty Qty Qty Qty Reinforced Concrete Column Total CS1 CS2 Qty Qty Qty Qty Qty Reinforced Concrete Column 1 0 0 Total CS1 CS2 Qty Qty Qty Qty Qty Qty Qty Qty Qty Qty	nent Element Name Qty Qty Qty Qty Qty Qty Qty Reinforced Concrete Column 1 0 0 1 Total CS1 CS2 CS3 CS Qty Reinforced Concrete Column 1 0 0 1 Total CS1 CS2 CS3 Qty Qty Qty Qty Qty Qty Qty Qty Qty Qty	nent Element Name Qty Qty Qty Qty Qty Qty Qty Qty Qty Qty

Ben	t 4	Cap 1							
Reir	nforced Concrete	Pier Cap							
Elen Num 234		Element Name red Concrete Pier Cap	Total Qty 27	CS1 Qty 4	CS2 Qty 1	CS3 Qty 22	CS4 Qty 0 F	eet	
Elemen Number		Defect Description			CS	CS Qty	Maint Qty		
234	Cracking (RC and Other)	3' long x 1/8" wide horizontal crack on bottor columns 1 and 2 starting at construction join			3	3	3	Feet	
234	Cracking (RC and Other)	Full height vertical crack up to 1/16" wide on	west face of	of cap.	3		1	Feet	
234	Delamination/Spall	1' long x 8" wide spall with exposed rebar wire section loss with an area of delamination 1' leto spall on bottom corner of cap south face be 1 and 2.	ong x 8" wi	de next	3	2	2	Feet	
234	Delamination/Spall	14" wide x 8" long x 3" deep and 11" wide x corner spalls on top of cap east end both corner		" deep	3	1	1	Feet	
234	Delamination/Spall	8' long x 6" wide area of delamination on bot under bays 2 and 3.	tom corner	of cap	3	8	8	Feet	
234	Exposed Rebar	PM3' long x up to 1' high x up to 5" deep sp corner of cap with exposed rebar with section with a 5 ' long x 5" high area of delamination	n loss on no		3	8	8	Feet	
234	Exposed Rebar	Numerous spalls up to 6" diameter x 1/2" derebar with no measurable section loss on so starting under beam 3 out to beam 5.			2		6	Feet	
				•					

234 Patched Area 6" deep x full height/width sound patched area on west end of 2 1 Feet

Ben	t 4	Pile 1						
Reir	nforced Concrete	Column						
	ment nber Reinfor	Element Name ced Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0 Each	
Elemen Numbe	Dofoot Typo	Defect Desc	cription		CS	CS Qty	Maint Qty	
205	Exposed Rebar	PM Patch that has failed, Spall 8 deep with exposed rebar with sect column starting under cap.			3	1	1 Each	
-	General Comments							_

Bent	4	Pile 2						
Reinf	forced Concrete	Column						
Eleme Numb 205	ber	Element Name ced Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0 E	ach
lement Number	Defect Type	Defect Descr	iption		CS	CS Qty	Maint Qty	
205	Delamination/Spall	18" wide x 1' high area of delaminati starting at bottom of cap.	on on south face of	column	3		1	Each
205 [Delamination/Spall	5' high x 3' wide area of delamination starting 3' from bottom of cap.	n on north face of c	olumn	3	1	1	Each
205 I	Patched Area	3' square sound patched area with a face starting at bottom of cap	1/32" vertical crack	c north	2			Each
G	eneral Comments	·						

Bent	: 4	Pile 3						
Rein	forced Concrete	Column						
Elem Num 205	ber	Element Name ced Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty 0	CS3 Qty 1	CS4 Qty 0	≣ach
Element Number	Defect Type	Defect D	escription		CS	CS Qty	Maint Qty	
205	Delamination/Spall	9' high x 16" wide area of delan starting 3' from ground.	nination on south face of	column	3	1	1	Each
205	Patched Area	Patched area 4' high x 1' wide of x 6" wide on southeast corner to		l 2' high	3		2	Each
_	General Comments							

Bent 5		Cap 1						
Reinforc	ed Concrete	Pier Cap						
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinford	ced Concrete Pier Cap	32	30	1	1	0 Feet	
Element Number	Defect Type	Defect D	Description		CS	CS Qty	Maint Qty	
234 Delamination/Spall 18" high end.		18" high x 11" wide x 3" deep s end.	pall on south face of cap	at west	3	1	1 Feet	

1 Feet

Delamination/Spall 5" diameter x 1" deep corner spall on bottom of cap north face

1' from west end

General Comments

234

Bent 7		Cap 1						
Reinfor	rced Concrete	Pier Cap						
Element Number	-	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	32	31	1	0	0 F	eet
Element Number	Defect Type	Defect Des	cription		CS	CS Qty	Maint Qty	
234 De	lamination/Spall	Two 6" diameter x 1/4" deep spalls corners.	s on top of cap east e	nd both	2	1	1	Feet
Gen	eral Comments							

Bent 7		Pile 1						
Reinforced	Concrete Pier Wall							
Element Number	Element Name	e	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
210	Reinforced Concrete Pier W	all	34	33	1	0	0 Feet	
Element Number Defe	ect Type	Defect Description			CS	CS Qty	Maint Qty	
210 Delamina	ation/Spall 4" diameter x 1/2"	deep spall on east face of	column und	der cap.	2	1	1 Feet	

Bent 9 Cap 1 Reinforced Concrete Pier Cap Element CS1 CS2 CS3 CS4 Total Element Name Number Qty Qty Qty Qty Qty 234 Reinforced Concrete Pier Cap 27 21 5 0 Feet Element Maint

Defect Type **Defect Description** CS CS Qty Number Qty 234 Delamination/Spall Up to 10" long x full width of top of cap east end area of 3 1 Feet concrete deterioration with spalling up to 2" deep. 234 **Exposed Rebar** Three spalls up to 8" diameter x 3/4" deep with exposed rebar 2 3 3 Feet with no measurable section loss on north face of cap under bay 234 **Exposed Rebar** Two spalls up to 6" diameter x 1" deep with exposed rebar with 2 2 2 Feet no measurable section loss on north face of cap under bay 3.

General Comments

Bent 9		Pile 1						
Reinfor	ced Concrete Column							
Element Number			Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column		1	1	0	0	0 Each	
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty	

Bei	nt 9	Pile 2						
Rei	inforced Concrete	Column						
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinford	ed Concrete Column	1	-1	1	1	0 E	Each
Eleme Numb	Dofoct Typo	Defect Descrip	otion		CS	CS Qty	Maint Qty	
205	Delamination/Spall	9' high x up to 1' wide on south face x delaminated area with 2 spalls up to 3 with exposed rebar with no measurab bottom of cap.	3' high x 5" wide x :	2" deep	3	1	1	Each
205	Exposed Rebar	Spall 2' high x 1' wide x 2" deep with a measurable section loss on north face ground line.	•		2	1	1	Each
205	Patched Area	1' high x 6" wide on south face x 6" wind patched area 4' from ground line.	ide on west face so	ound	2			Each
	General Comments							

Bei	nt 9	Pile 3						
Rei	inforced Concrete	Column						
	ement mber Reinford	Element Name red Concrete Column	Total Qty 1	CS1 Qty -1	CS2 Qty 0	CS3 Qty 2	CS4 Qty 0 Each	
Eleme Numbe	Dofoct Typo	Defect Descripti	on		CS	CS Qty	Maint Qty	
205	Delamination/Spall	8' high x up to 1' wide on south face x up to 10" wide on west face delaminated area with spall 3' high x 1' wide x 3" deep with exposed rebar with no measurable section loss starting at bottom of cap.			3	1	1 Each	
205	Patched Area	Unsound patched area on north face of wide with a1/32" x 2' long crack at top o bottom of cap.			3	1	1 Each	
205	Patched Area	5' high x 1' wide sound patched area on starting 3' from ground line.	north face of co	lumn	2		Each	_
	General Comments							

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1645
Span 1	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 1	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 1	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 1	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 1	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1475
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1645
Span 2	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 2	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 2	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 2	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 2	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1475
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1645
Span 3	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 3	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 3	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 3	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 3	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1475
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1647
Span 4	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 4	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 4	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 4	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 4	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 4	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1476
Span 5	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1647
Span 5	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 5	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 5	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 5	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 5	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 5	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 5	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 5	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1476

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 6	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1648
Span 6	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 6	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 6	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 6	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 6	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 6	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 6	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 6	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1477
Span 7	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1647
Span 7	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 7	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 7	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 7	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 7	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 7	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 7	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 7	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1476
Span 8	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1645
Span 8	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 8	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 8	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 8	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 8	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 8	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 8	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 8	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1475
Span 9	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1648
Span 9	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 9	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 9	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 9	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 9	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	52
Span 9	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 9	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 9	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1477
Span 10	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1645
Span 10	Beam 1	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 10	Beam 2	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 10	Beam 3	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 10	Beam 4	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 10	Beam 5	Reinforced Concrete Girder	Reinforced Concrete Open Girder/Beam	51
Span 10	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 10	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	53
Span 10	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	1475

Elements Verfied

Location	Name	Component	Element Name	Amount
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	27
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	76
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	27
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	76
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	27
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 4	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	27
Bent 4	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 4	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 4	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 5	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	32
Bent 5	Pile 1	Reinforced Concrete Pier Wall	Reinforced Concrete Pier Wall	34
Bent 6	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	32
Bent 6	Pile 1	Reinforced Concrete Pier Wall	Reinforced Concrete Pier Wall	34
Bent 7	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	32
Bent 7	Pile 1	Reinforced Concrete Pier Wall	Reinforced Concrete Pier Wall	34
Bent 8	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	32
Bent 8	Pile 1	Reinforced Concrete Pier Wall	Reinforced Concrete Pier Wall	34
Bent 9	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	27
Bent 9	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 9	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 9	Pile 3	Reinforced Concrete Column	Reinforced Concrete Column	1

General Inspection Notes

Bent 9 Pile 1

VEGETATION OVERGROWTH ALONG HEIGHT OF COLUMN EXTENDING TO CAP

Expansion Joint	
Expansion Joint	
	Expansion Joint Expansion Joint Expansion Joint Expansion Joint Expansion Joint Expansion Joint Expansion Joint

National Bridge and NC Inspection Items

Structure Number: 520010 Inspection Date: 04/16/2018

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
Item 59: Superstructure	0 - 9 , N	5
Item 60: Substructure	0 - 9 , N	5
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	7
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

ltem	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	F	16462	3376
Drainage System	G, F, P, or C	F	12	3332
Utilities	G, F, P, or C	G		
Slope Protection	G, F, P, or C		0	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C		0	3350
Field Scour Evaluation		G		
Drift	G, F, P, or C	Р	144	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		
Estimated Remaining Life	0 - 100 Years	4		
Superstructure Paint Code				

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	14
Traffic Control Time	Hours	8
Snooper Time	Hours	8
Ladder Used	YES/NO	N
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: 520010 Inspection Date: 04/16/2018

.,	Item	Deck Debris	Grade F	Maint Code 3	3376	Qty.	16462
	Details	Sand and vegetation accumulation 1' wide along both cu	rbs blocking drain he	oles, right curb s	span 1 sh	own.	
Details Sand and vegetation accumulation 1' wide along both curbs blocking drain holes.	Item	Drainage System	Grade F	Maint Code 3	3332	Qty.	12
Details Sailu and vegetation accumulation i wide along both curbs blocking drain noies.							

Details Drift accumulation at upstream end of bridge 200' long x 100' wide x 8' high, removal process has been started.



Bent 4 Pile 1: PM-- Patch that has failed, Spall 8' long x up to 21" wide x 2" deep with exposed rebar with section loss on north face of column starting under cap.



Bent 4 Cap 1: PM--3' long x up to 1' high x up to 5" deep spall on bottom corner of cap with exposed rebar with section loss on north face with a 5 ' long x 5" high area of delamination.



Bent 4 Pile 2: 3' square sound patched area with a 1/32" vertical crack north face starting at bottom of cap



Bent 4 Pile 2: 5' high x 3' wide area of delamination on north face of column starting 3' from bottom of cap.



Bent 4 Cap 1: 3' long x 1/8" wide horizontal crack on bottom of cap between columns 1 and 2 starting at construction joint north side.



Bent 4 Cap 1: 6" deep x full height/width sound patched area on west end of cap.



Bent 4 Cap 1: Full height vertical crack up to 1/16" wide on west face of cap.



Span 5 Beam 2: 18" long x 4" high on west face x 4" wide on bottom of beam sound patched area starting at pier 4.



Span 5 Beam 4: 1" long x 4" high on west face x 6" wide on bottom of beam delamination with a crack up to 1/8" wide full width of delamination starting at pier 4.



Span 5 Beam 5: 2' long x 1/32" wide longitudinal crack on bottom of beam starting 2' from pier 4.



Span 5 Beam 5: 18" long x 3" high on east face x 2" wide on bottom of beam starting 7' from pier 4.



Bent 4 Cap 1: 14" wide x 8" long x 3" deep and 11" wide x 8" long x 2" deep corner spalls on top of cap east end both corners.



Span 5 Deck: Patched area 1' high x full length of east overhang that is distressed with efflorescence/stalactites/staining and cracking throughout



Bent 5 Cap 1: 18" high x 11" wide x 3" deep spall on south face of cap at west end.



Span 5 Beam 1: Spall 18" long x 1' high on west face x 10" wide on bottom of beam with exposed rebar with no measurable section loss and an area of delamination 16" long x 5" high x 5" wide starting at pier 5.



Span 5 Beam 1: 2' long x 14" wide on bottom of beam x 6" high on east face area of delamination starting at pier 5



Span 5 Beam 2: 30" long x 10" wide on bottom of beam x 6" high on west face area of delamination starting at pier 5



Span 5 Beam 4: 1' long x full width of bottom of beam sound patched area with staining at pier 5.



Span 5 Beam 5: Spall 1" wide x full width of bottom of beam x 1/4" deep at pier 5.



Span 6 Deck: 15' long x full height of front face east overhang area of concrete deterioration with a spall 2' long x 7" wide x up to 2" deep starting at pier 5.



Span 6 Beam 5: 1' long x 4" high x 2" deep spall on east face of beam with cracking up to 3' long x up to 3/16" wide on both sides of spall.



Span 6 Beam 5: Area of delamination 6' long x up to 1' high on west face x up to 10" wide on bottom of beam 16' from pier 6



Span 6 Beam 5: PM--Spall 4' long x 10" high on west face x 8" wide on bottom of beam with exposed rebar with section loss 14' from pier 6.



Span 6 Beam 5: 10' long x 4" high area of delamination with a full length cracks up to 1/4" wide on west face of bottom of beam starting 10' from pier 5.



Span 6 Deck: 15' long x full height of front face east overhang area of concrete deterioration with a spall 2' long x 7" wide x up to 2" deep starting at pier 6.



Span 7 Deck: 6' long x full height of front face east overhang area of concrete deterioration with a spall 2' long x 7" wide x up to 2" deep starting at pier 6.



Span 6 Beam 4: Delamination 16" high x 1' long x 9" wide on bottom of beam with a 7" wide x 4" long x 3" deep corner spall at bottom of beam on west face at pier 6.



Span 6 Beam 3: 2' long crack 1/16" wide on bottom of beam starting at pier 6.



Span 6 Beam 1: 1' long x 4" wide x 1 1/2" deep corner spall with exposed rebar with no measurable section loss on bottom of beam west face 7' from pier 6.



Span 7 Beam 5: Delamination 20' long x up to full width on bottom of beam x 4" high on west face at mid span.



Span 7 Beam 5: 2' long horizontal crack 1/8" wide on west face of beam 16' from pier 7.



Span 7 Beam 5: Delamination 8' long x up to full width on bottom of beam x 4" high on west face with a 10" diameter spall x 2" deep on bottom of beam starting 3' from pier 7.



Span 7 Beam 4: Sound patched area 18" long x 1' high on east and west faces of beam at pier 7.



Span 7 Beam 3: 1' long longitudinal crack 1/8" wide on bottom of beam starting at pier 6.



Span 7 Beam 4: 10" long x 6" wide x 1" deep spall with exposed rebar with no measurable section loss on bottom of beam at pier 6



Span 7 Beam 1: 9" long x 6" wide x 1/2" deep spall with exposed rebar with no measurable section loss on bottom of beam 1' from pier 7.



Span 7 Beam 1: Delamination 25" high x 16" wide on west face of beam over pier 7



Span 7 Beam 1: End of beam has spalled off 18" high x full width x up to 3" deep over pier 7.



Span 8 Beam 5: Delamination 2' long x 10" wide on bottom of beam x 4" high on west face 10' from pier 7



Span 8 Beam 5: 1' long x 8" wide area of delamination on bottom of beam 11' from pier 8.



Span 8 Beam 5: Delamination 4' long x 8" wide on bottom of beam x 4" high on west face 13' from pier 8.



Span 8 Beam 5: Delamination 4' long x up to 11" wide on bottom of beam x 4" high on west face 20' from pier 8.



Span 8 Deck: Spall 6" wide x 3" long x 1/4" deep with exposed rebar with no measurable section loss on underside of deck near mid span in bay 3.



Span 8 Beam 1: Three spalls spaced 1' apart up to 10" long x 1" wide x 1/4" deep with exposed rebar with no measurable section loss on bottom of beam 14' from pier 7



Span 8 Beam 3: Spall 1' square x 3" deep on bottom of beam with exposed rebar with no measurable section loss at pier 7.



Span 8 Beam 5: Delamination 4' long x up to full width of bottom of beam x 4" high on west face starting 1' from pier 7



Span 8 Beam 1: Full height vertical hairline to 1/32" crack on west face of beam at mid span.



Span 8 Deck: Spall in east overhang 2' wide x 4" long x 5" deep at end of span over pier 8.



Span 9 Deck: Spall in east overhang 2' wide x 9" long x 5" deep with exposed rebar with no measurable section loss at end of span over pier 8.



Span 9 Beam 5: 3' long horizontal crack 3/16" wide on west face of beam starting 5' from pier 8



Span 9 Beam 5: Delamination 30' long x up to full width of bottom of beam x up to 1' on west face starting approximately 10' from pier 9.



Span 9 Beam 1: 2' square area of delamination on west face of beam over pier 8.



Span 9 Beam 1: 4 spalls spaced approximately 1' apart up to 3" long x 2" wide x 1/2" deep with exposed rebar with no measurable section loss on bottom of beam 7' from pier 8.



Span 9 Beam 2: Three sound patched area on bottom of beam up to 1' wide x 10" long starting at pier 8 out 4'.



Span 9 Beam 1: Spall at beam end 1' wide x 26" high x full width over pier 9



Span 9 Beam 2: Spall at beam end west face 3" wide x 10" high x 1 1/2" deep with a 16" long vertical crack 1/4" wide over pier 9



Span 9 Beam 2: Delamination 16" long x 3" high on west face x 4" wide on bottom of beam starting at pier 9.



Span 9 Deck: Full width hairline transverse crack with efflorescence and stalactites on underside of deck 5' from pier 9 in bay 1.



Bent 9 Pile 2: 9' high x up to 1' wide on south face x up to 5" wide on east face delaminated area with 2 spalls up to 3' high x 5" wide x 2" deep with exposed rebar with no measurable section loss starting at bottom of cap.



Bent 9 Pile 2: 1' high x 6" wide on south face x 6" wide on west face sound patched area 4' from ground line.



Bent 9 Pile 3: 8' high x up to 1' wide on south face x up to 10" wide on west face delaminated area with spall 3' high x 1' wide x 3" deep with exposed rebar with no measurable section loss starting at bottom of cap.



Span 9 Deck: 40' long x full height of front face east overhang area of concrete deterioration with a spalling up to 3" deep throughout starting at pier 9.



Span 10 Deck: Full length x full height of front face east overhang area of concrete deterioration with a spalling up to 3" deep throughout starting at pier 9.



Span 9 Beam 5: Up to 1' long x full height at end of beam area of concrete deterioration with spalling up to 3" deep starting at pier 9.



Bent 9 Cap 1: Up to 10" long x full width of top of cap east end area of concrete deterioration with spalling up to 2" deep.



Bent 9 Cap 1: Three spalls up to 8" diameter x 3/4" deep with exposed rebar with no measurable section loss on north face of cap under bay 3

County: LEE Structure: 520010 Date: 04/16/2018 **Condition Photos**



Bent 9 Pile 3: 5' high x 1' wide sound patched area on north face of column starting 3' from ground line.



Span 10 Beam 5: Delamination 3' long x 1' wide on bottom of beam x 3" high on west face approximately 10' from pier



Span 10 Beam 5: Delamination 3' long x 6" wide on bottom of beam x 3" high on west face approximately 14' from pier 9.



Span 10 Beam 5: Delamination 4' long x 10" wide on bottom of beam x 3" high on west face starting 3' from abutment



Bent 1 Cap 1: 2 spalls at west end of cap up to 13" high x 8" wide x 2" deep with exposed rebar with no measurable section loss



Bent 1 Cap 1: 2' long x 1' wide x 4" deep spall with exposed rebar with no measurable section loss on south face of cap under bay 1.



Span 2 Beam 5: 18" high x 4" wide x 1" deep spall on east face of beam over pier 1



Bent 1 Cap 1: East end is spalled full height on northeast corner 4" wide x 1/4" deep with top corner spalled 16" wide x 12" wide x 2" deep and bottom corner spalled 8" wide x 8" high x 2" deep.



Span 2 Beam 4: Area of delamination 1' square on bottom of beam x 1' high on west face with a spall 6" high x 6" with x 1" deep with exposed rebar with no measurable section loss at pier 1.



Span 2 Beam 2: 3' high x 16" wide area of delamination on west face of cap 7' from pier 1 with spalls up to 8" long x 6" wide x 1"deep .



Span 2 Beam 1: 3' high x 2' wide area of delamination on west face of beam with a 16" square x 1" deep spall with exposed rebar with no measurable section loss over pier 1.



Span 2 Beam 1: Full height spall up to 2' wide x 2" deep with exposed rebar with section loss that extends down to bottom corner spall that is 5' long x up to 1' wide by up to 3" deep with exposed rebar with section loss on west face of beam 3' from pier 2.



Span 2 Beam 2: Delamination 6' long x 8" wide on bottom of beam x 5" high on west face 9' from pier 2.



Span 2 Beam 2: 10" long x full width of bottom of beam sound patched area at pier 2.



Bent 2 Cap 1: Delamination 3' high x 6' long on south face of cap under bay 2.



Span 2 Beam 5: Full height x 3" wide x up to 1" deep spall at end of beam over pier 2 east face.



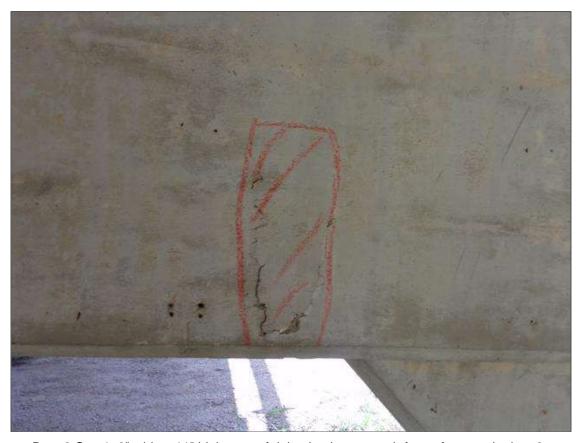
Bent 2 Cap 1: 6" wide x 30" high area of delamination at east end of cap under beam 5



Span 3 Beam 5: 5" diameter spall 1" deep on bottom of beam with exposed rebar with no measurable section loss 5' from pier 2.



Span 3 Beam 1: 1' wide x 20" high sound patched area on east face of beam over pier 2.



Bent 2 Cap 1: 6" wide x 11" high area of delamination on north face of cap under bay 2.



Span 3 Beam 4: 1' square area of delamination with a 10" long x 3" wide x 1/2" deep spall on bottom of beam at pier 2.



Span 3 Beam 4: Sound patched area 1' long x 3" high on west face x 6" wide on bottom of beam at pier 2.



Span 3 Beam 5: 1' high x 3" wide x 1" deep spall with exposed rebar with no measurable section loss on west face of beam over pier 2.



Span 3 Beam 5: Sound patched area full height at end of beam x 3' long at bottom of beam that extends 8" on bottom of beam at pier 2.



Span 4 Beam 1: 1' high x 7" wide x full width bottom corner spall at end of beam with exposed rebar with no measurable section loss over pier 3.



Bent 3 Cap 1: 6' long x up to full height area of delamination on south face of cap under beam 3 in to bay 2.



Bent 3 Cap 1: 3' high x up to 16" wide x up to 4" deep spall with exposed rebar with no measurable section loss on south face of cap under beam 2.



Bent 3 Cap 1: 1' high x up to 19" wide x up to 5" deep spall on south face of cap under bay 2



Bent 3 Cap 1: Unsound patched area on top of cap east end with 4" wide x 1/2" deep spalling around patch that extends down east face and south face.



Span 3 Beam 5: 1' square area of delamination on east face of beam at pier 3.



Span 4 Beam 3: 4" diameter corner spall on bottom and east faces 1/2" deep 20' from pier 4.



Span 4 Beam 1: Area of delamination 13' long x 15" high on west face x full width of bottom of beam with a 10' long unsound patch starting at pier 4.



Span 4 Beam 1: Area of delamination 18" wide x 32" high on west face of beam over pier 4



Span 4 Beam 2: Area of delamination 20" long x 5" high on west face x 5" wide on bottom of beam at pier 4.



Span 4 Beam 4: Area of delamination 21" long x 3" high on west face x 10" wide on bottom of beam with a 10" wide x 8" high x 2" deep spall with exposed rebar with no measurable section loss at pier 4.



Span 4 Beam 5: 15' long x up to 1/4" deep horizontal crack in west face 1" up from bottom of beam at mid span.



End Bent 1 Abutment/Backwall : 1.5' wide x 2.5' long x 3" deep spall with exposed rebar with no measurable section loss at beam 5.



End Bent 1 Abutment/Backwall: Patched area that is unsound 16" wide x 5' high on front face under beam 5.



End Bent 1 Abutment/Backwall: 7' long diagonal 1/32" to 1/16" wide crack in front face under beam 2 starting at top of abutment..



End Bent 1 Abutment/Backwall : 25' long horizontal crack up to 1/8" wide at west end of abutment that extends 3' on front face starting under bay 1.



End Bent 1 Abutment/Backwall : Full height vertical/diagonal crack up to 1/16" wide with efflorescence starting at top of abutment 4' from beam 5 east side.



Span 1 Deck: Patched area 1' high x full length of east overhang that is distressed with efflorescence/stalactites/staining and cracking throughout .



Span 2 Deck: Patched area 1' high x full length of east overhang that is distressed with efflorescence/stalactites/staining and cracking throughout



Span 2 Right Bridge Rail: East face of curb has several failed patched areas that have spalled out up to 5' long x 8" high x 2" deep at various locations.



Span 3 Deck: Patched area 1' high x full length of east overhang that is distressed with efflorescence/stalactites/staining and cracking throughout



Span 4 Deck: Patched area 1' high x 6' long starting at pier 3 and 1' high x 25' long starting at pier 4 of east overhang that is distressed with efflorescence/stalactites/staining and cracking throughout.



Bent 1 Cap 1: 1' high x 10" wide x 3/4" deep spall with exposed rebar with no measurable section loss on south face of cap under beam 3.



Bent 1 Cap 1: Several sound patched area on south face of cap up to 4' square starting under beam 2.



Span 1 Beam 5: 6" high x 2" wide x 1/4" deep spall with exposed rebar with no measurable section loss on west face of beam near mid span.



Span 1 Beam 3: 4' of efflorescence on bottom of beam between beams 2 and 3 starting at abutment 1.



Span 1 Beam 5: 3' long longitudinal crack up to 1/16" wide on bottom of beam at mid span.



Bent 1 Cap 1: 3' high x 2' wide unsound patched area with on north face of cap with 2 spalls up to 4" diameter 1/2" deep with exposed rebar with no measurable section loss under beam 4.



Bent 1 Cap 1: Two spalls up to 21" high x 2' wide x 1" deep with exposed rebar with no measurable section loss on north face of cap under bay 2.



Bent 1 Pile 2: PM--2' high x 1' wide x 3" deep spall with exposed rebar with section loss on north face starting 3' from ground line.



Several spalls up to 8" wide x 6" long x 1/2" deep with exposed rebar with no measurable section loss on web wall next to column 2 north face.



Bent 1 Cap 1: 2' long horizontal/transverse crack up to 1/16" wide on north face and bottom of cap starting at construction joint.



Bent 1 Pile 1: 3' high vertical crack up to 1/8" wide on north face of column starting 2' from ground line.



Bent 2 Cap 1: Several sound patched areas on south face of cap between beams 2 thru 5.



Bent 2 Pile 3: 5' high x 8" wide corner patch on southeast corner that is unsound starting at bottom of cap.



Bent 2 Pile 3: 2.5' high x 7" wide sound corner patch on southwest corner starting 2' from bottom of cap



Bent 2 Pile 2: 4.5' high x 16" wide delaminated area on southeast corner starting 2' from bottom of cap.



Bent 2 Pile 1: 2' long x 4" wide area of delamination on northwest corner starting at bottom of cap.



Two spalls up to 16" long x 4" wide x 1/2" deep with exposed rebar with no measurable section loss on north face of web wall next to column 2



Bent 2 Cap 1: 2 sound patched area on north face of cap under beams 3 and 4.



Bent 3 Pile 2: 5' high x 8" wide corner patch on southeast corner that is unsound with a crack up to 1/8" wide that extends down to ground starting 2' from bottom of cap.



Bent 3 Cap 1: Several sound patched areas on south face of cap starting under bay 2 out to east end.



Bent 3 Pile 3: 5' high x 8" wide corner spall with exposed rebar with no measurable section loss on southwest corner with areas of delamination on both sides of spall with a crack up to 1/8" wide that extends down to ground starting 2' from bottom of cap.



Bent 3 Pile 3: 1' square area of concrete deterioration with spalling up to 1/2" deep 7' from ground line on east face.



Bent 3 Pile 3: 1.5' high x 6" wide area of delamination with 1/32" cracks that extend 2' up and down from delamination.



Bent 3 Pile 3: 6" diameter spall 1" deep with exposed rebar with no measurable section loss on north face of column 7' from ground.



Bent 3 Pile 3: 27" high x 9" wide x 1 1/2" deep spall with exposed rebar with no measurable section loss on west face of column starting 6' from ground.



Bent 3 Pile 2: 3' high x 8" wide corner patch on northeast corner that is sound starting 2' from bottom of cap.



Bent 3 Cap 1: Two spalls up to 6" diameter x 1/2" deep with exposed rebar with no measurable section loss on north face of cap under beam 3.



Span 3 Deck: 1' diameter spall 3/4" deep with exposed rebar with no measurable section loss on underside of deck in bay 1, 16' from middle diaphragm



Bent 4 Pile 3: 9' high x 16" wide area of delamination on south face of column starting 3' from ground.



Bent 4 Pile 3: Patched area 4' high x 1' wide on southwest corner and 2' high x 6" wide on southeast corner that are unsound.



Bent 4 Cap 1: 8' long x 6" wide area of delamination on bottom corner of cap under bays 2 and 3.



Bent 4 Cap 1: Numerous spalls up to 6" diameter x 1/2" deep with exposed rebar with no measurable section loss on south face of cap starting under beam 3 out to beam 5.



Bent 4 Cap 1: 1' long x 8" wide spall with exposed rebar with no measurable section loss with an area of delamination 1' long x 8" wide next to spall on bottom corner of cap south face between columns 1 and 2.



Bent 4 Pile 2: 18" wide x 1' high area of delamination on south face of column starting at bottom of cap.



Full height vertical crack in web wall up to 1/8" wide between columns 2 and 3 south face.



Form work left in place 4' long x 3' high under beams 2 and 3.



Drift accumulation at upstream end of bridge 200' long x 100' wide x 8' high, removal process has been started.



Bent 9 Pile 3: Unsound patched area on north face of column 5' high x1.5' wide with a1/32" x 2' long crack at top of patch starting at bottom of cap.



Bent 9 Pile 2: Spall 2' high x 1' wide x 2" deep with exposed rebar with no measurable section loss on north face of column starting 5' from ground line.



Bent 9 Cap 1: Two spalls up to 6" diameter x 1" deep with exposed rebar with no measurable section loss on north face of cap under bay 3.



End Bent 2 Abutment/Backwall : Patched area 24' long x up to 6' high starting 12' from west end that is unsound with full width horizontal crack up to 3/16" wide with efflorescence and an area of map cracking at west end of patch up to 1/8" wide.



End Bent 2 Abutment/Backwall : 1.5' square area of delamination with a 1.5' square spall x up to 2" deep to the right of delamination with exposed rebar with no measurable section loss starting 3' west of beam 1.



End Bent 2 Abutment/Backwall : Two 6' long x up to 1/32" wide horizontal cracks with efflorescence and a 6' high x 4' wide sound patched area under beams 2 and 3.



End Bent 2 Abutment/Backwall : Several full/partial height vertical cracks up to 1/16" wide with efflorescence under bay 2 out to beam 5.



End Bent 2 Abutment/Backwall : 4' high x up to full height sound patched area starting under beam 5 that extends out to east side of beam 5.



Span 10 Wearing Surface: Transverse/longitudinal/map cracking in AWS up to 1/2" wide throughout span both travel lanes.



Span 10 Deck: Full width transverse cracks up to 1" wide with areas of potholes up to 6" long x 3" wide over pier 9.



Typical transverse/longitudinal/map cracking in AWS up to 1/2" wide throughout span both travel lanes, span 9 shown



Span 9 Deck: Full width transverse cracks up to 1" wide with areas of potholes up to 1" long x 3" wide x 1/4" deep over pier 8.



Span 8 Deck: Full width transverse cracks up to 2" wide with areas of potholes up to 3" long x 5" wide x 1" deep over pier 7.



Span 4 Left Bridge Rail: Sound patched area on west face of curb between rail posts 5 and 6 and rail posts 7 and 8.



Span 4 Left Bridge Rail: 2' long x 1/8" wide crack in top of top rail at rail post 8.



Span 4 Left Bridge Rail: unsound patched area on west face of curb between rail posts 8 and 9.



Span 5 Left Bridge Rail: 4' long x up to full height x up to 1" deep spalled area on front face of curb starting at pier 4



Span 5 Left Bridge Rail: Full height up to 1/16" crack with a 8" long x 4" high area of delamination/spall up to 3/4" deep in front face of post.



Span 6 Left Bridge Rail: 1' high x full width x 2" deep spall with exposed rebar with no measurable section loss in top of rail post 5 west face



Span 9 Left Bridge Rail: Sound patched area on bottom west face of rail posts 8 and 9.



Span 10 Left Bridge Rail: Sound patched area on bottom west face of rail post 1.



Typical full/partial width transverse cracks in top of curb at various locations right rail only all spans, span 8 shown.



Sand and vegetation accumulation along both curbs blocking drain holes, right curb span 1 shown.



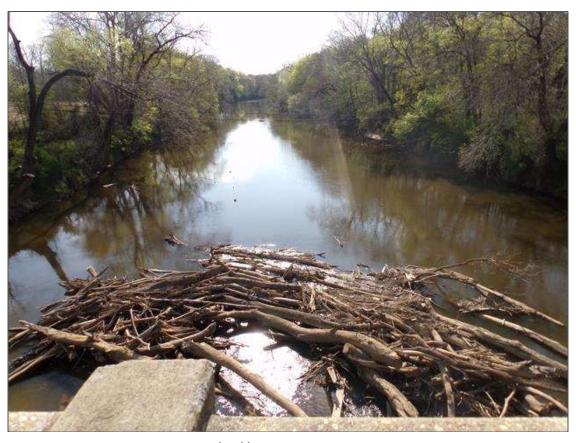
Pier 4, pier 9 similar



Pier 3, piers 1 and 2 similar



Pier 5, piers 6 thru 8 similar



Looking west upstream



Looking east downstream



Looking south



Abutment 1, abutment 2 similar



Superstructure underside span 2 shown, all others similar



Joint over pier 1, piers 2 thru 6 similar



West elevation



Guardrail terminal end southeast shown southwest similar



Guardrail post spacing midway southeast shown all others similar



Guardrail post spacing at bridge southeast shown all others similar



Guardrail attachment to bridge southeast shown all others similar



Looking north



East elevation



Utility under west overhang

Stream Bed Soundings (Profile diagram on following sheet)

County LEE Inspection Date 04/11/2018 Structure Number: 520010

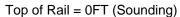
Sounding recorded from: Top of Bridge Rail

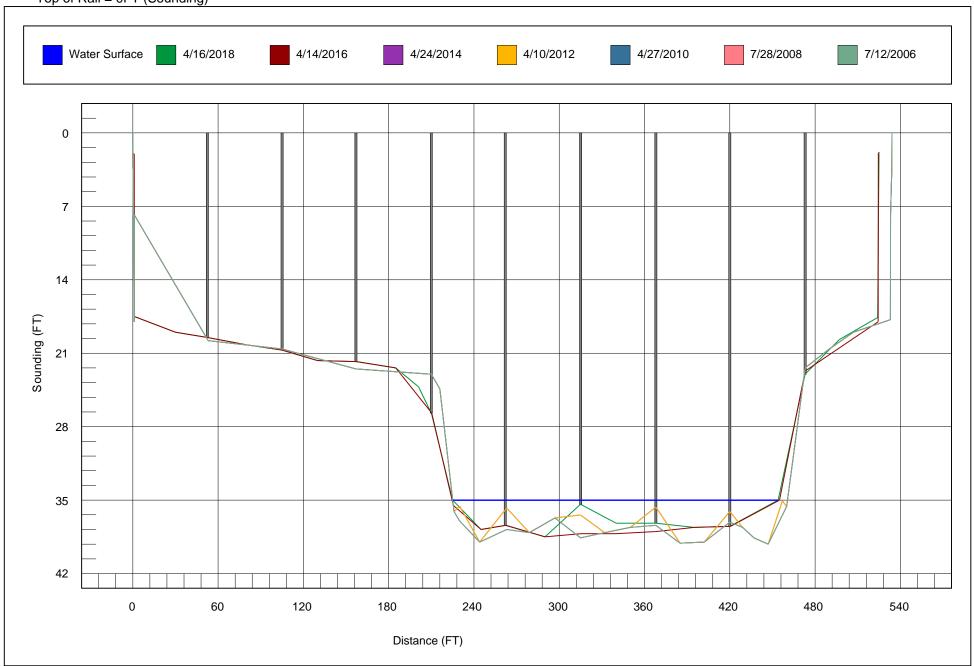
Highwater Mark Distance Location of Highwater Mark

Distance	Downstream	Upstream	
(Station) ft.	Sounding ft.	Sounding ft.	Description
0.000	2.000	0.000	FF ABUT.1
1.100	17.500	17.200	SF ABUT.1
30.000	19.000	0.000	
52.500	19.500	19.200	PIER 1
80.000	20.200	0.000	
105.000	20.700	21.400	PIER 2
130.000	21.700	0.000	
157.000	21.800	21.700	PIER 3
185.000	22.400	0.000	
201.000	24.200	0.000	
210.000	26.700	24.400	PIER 4
225.000	35.000	0.000	WSWE
245.000	37.800	0.000	
262.000	37.400	37.300	PIER 5
290.000	38.500	0.000	
315.000	35.400	39.500	PIER 6
340.000	37.200	0.000	
368.000	37.200	40.000	PIER 7
395.000	37.600	0.000	
420.000	37.500	37.900	PIER 8
454.000	35.000	0.000	WSWE
473.000	23.000	23.000	PIER 9
497.000	19.700	0.000	
524.000	17.600	18.300	SF ABUT.2
525.000	2.000	0.000	FF ABUT.2

Bridge: 520010 County: LEE Date: 04/16/2018

STREAMBED PROFILE (Downstream)

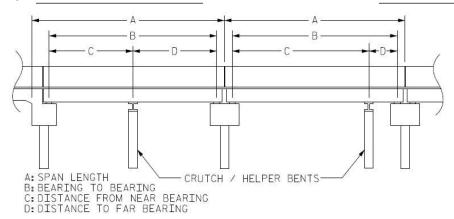




Structure Data Worksheet

Span Profile

County: LEE Structure Number: 520010



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	52.500	50.500			
2	52.500	51.000			
3	52.500	51.000			
4	52.542	51.042			
5	52.542	51.042			
6	52.583	51.080			
7	52.542	51.042			
8	52.500	51.000			
9	52.583	51.080			
10	52.500	50.500			

IDENTIFICATION -			
(1) STATE NAME -NORTH CAROLINA BRIDGE	520010	SUFFICIENCY RATING =	66.72
(8) STRUCTURE NUMBER(FEDERAL) 000	0000001050010	STATUS = Not Deficient	
(5) INVENTORY ROUTE (ON/UNDER) - ON	21000150		
(2) STATE HIGHWAY DEPARTMENT DISTRICT	2		- CODE
(3) COUNTY CODE 105 (4) PLACE CODE	0	(112)NBIS BRIDGE SYSTEM -	YES
(6) FEATURE INTERSECTED - DEEP RIVER		(104)HIGHWAY SYSTEM Is not on NHS	C
(7) FACILITY CARRIED US15/501,NC87		(26) FUNCTIONAL CLASS - Minor Arterial	06
(9) LOCATION 0.6 MI. N. JCT. SR1465		(100)STRAHNET HIGHWAY - Not a STRAHNET Route	C
(11)MILEPOINT	0	(101)PARALLEL STRUCTURE - No Parallel Structure	N
(16)LAT 35° 34' 42.28" (17)LONG 79° 11' 3.		(102)DIRECTION OF TRAFFIC - 2-way Traffic	2
(98)BORDER BRIDGE STATE CODE PCT SHA		(103)TEMPORARY STRUCTURE -	
(99)BORDER BRIDGE STRUCTURE NO		(110)DESIGNATED NATIONAL NETWORK - On the National Network	1
		(20) TOLL On Free Road	3
STRUCTURE TYPE AND MATERIAL		(31) MAINTAIN - State Highway Agency	01
(43) STRUCTURE TYPE MAIN: Concrete		(22) OWNER - State Highway Agency	01
TYPE - Tee Beam	CODE 104	(37) HISTORICAL SIGNIFICANCE - Not Eligible	5
(44) STRUCTURE TYPE APPR :	00DL .01	(5.) Otto iz olotti formoz	
TYPE -	CODE 0	CONDITION	- CODE
(45) NUMBER OF SPANS IN MAIN UNIT	10	(58) DECK	5 CODE
(46) NUMBER OF APPROACH SPANS	0	(59) SUPERSTRUCTURE	5
(107)DECK STRUCTURE TYPE - 1	CODE	(60) SUBSTRUCTURE	5
(107)DECK STRUCTURE TYPE - 1 (108)WEARING SURFACE / PROTECTIVE SYSTEM:	CODE	(61) CHANNEL & CHANNEL PROTECTION	5
(A) TYPE OF WEARING SURFACE -	CODE	(62) CULVERTS	N
(B) TYPE OF MEMBRANE -	CODE	(02) GOEVERTO	1
	CODE	LOAD RATING AND POSTING	
(C) TYPE OF DECK PROTECTION -	CODE	(31) DESIGN LOAD H 15	2
ACE AND SERVICE		(63) OPERATING RATING METHOD - Load Factor	1
AGE AND SERVICE (27) YEAR BUILT	1949	(64) OPERATING RATING - HS-44	79
• •		(65) INVENTORY RATING METHOD - Load Factor	1
(106)YEAR RECONSTRUCTED	1960	(66) INVENTORY RATING - HS-26	47
(42) TYPE OF SERVICE : ON - Highway	0005 45	(70) BRIDGE POSTING - No Posting Required	5
UNDER - Waterway	CODE 15	(41) STRUCTURE OPEN, POSTED ,OR CLOSED	Д
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE	7200	DESCRIPTION - Open, No Restriction	0005
(29) AVERAGE DAILY TRAFFIC	7200		- CODE
(30) YEAR OF ADT 2013 (109) TRUCK ADT PCT	8%	(67) STRUCTURAL EVALUATION	5
(19) BYPASS OR DETOUR LENGTH	4 MI	(68) DECK GEOMETRY	4
GEOMETRIC DATA	54.57	(69) UNDERCLEARANCES, VERTI & HORIZ	N
(48) LENGTH OF MAXIMUM SPAN	51 FT	(71) WATERWAY ADEQUACY	7
(49) STRUCTURE LENGTH	525 FT	(72) APPROACH ROADWAY ALIGNMENT	8
(50)CURB OR SIDEWALK: LEFT 1.5835 FT RIGHT	1.5835 FT	(36) TRAFFIC SAFETY FEATURES	0110
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	28.083 FT	(113)SCOUR CRITICAL BRIDGES	U
(52) DECK WIDTH OUT TO OUT	31.5 FT	PROPOSED IMPROVEMENTS	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	27 FT	(75) TYPE OF WORK - CODE	
(33) BRIDGE MEDIAN - No Median	CODE 0	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(34) SKEW 0° (35) STRUCTURE FLARED		(94) BRIDGE IMPROVEMENT COST	
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9 FT	(95) ROADWAY IMPROVEMENT COST	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	28.083 FT	(96) TOTAL PROJECT COST	
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad	0 FT	(114)FUTURE ADT 14400 (115) YEAR FUTURE ADT	2025
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad	000 FT		
(56) MIN LAT UNDERCLEAR LT REF -	000 FT		04/16/2018
NAVIGATION DATA		(20) 251 515	
		(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE	
(38) NAVIGATION CONTROL - No Navigational Control	CODE 0		
		A) FRACTURE CRIT DETAIL - NO A) B) UNDERWATER INCR. VEC. 49Ms. B) 06	2/00/0040
(111)PIER PROTECTION -	CODE	B) UNDERWATER INSP - YES 48Mo B) 06	6/22/2016
			6/22/2016

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 08/09/2018

CITY:

FT

COUNTY: DIVISION: DISTRICT: STRUCTURE NUMBER: LENGTH: 525 FEET

LEE 520010

ROUTE CARRIED: FEATURE INTERSECTED:

US15/501,NC87 **DEEP RIVER**

BRIDGE NAME: LOCATED: 0.6 MI. N. JCT. SR1465

FUNC. CLASS: SYST.ON: SYST.UNDER: ADT & YR: RAIL TYPE:

FΑ NFA 7200 2013 LT 111 RT 141

BUILT: BY: PROJ: FED.AID PROJ: **DESIGN LOAD:**

1949 **SHPWC** 404-C F-179(3) H 15

REHAB: BY: PROJ: ALIGNMENT: SKEW: LANES:

SHC 8.14043 90 2 TAN ON **UNDER** 0 1960

NAVIGATION: HT. CRN. TO BED: WATER DEPTH:

0 HC 0 36 FT VC FT FT FT

SUPERSTRUCTURE: REINFORCED CONCRETE DECK GIRDERS

ABUTS:RC FULL HT, INT.BT#1-3:RC POST & BEAM, INT.BT#4&9:RC POST & WEB, INT.BT#5-8:RC SOLID SUBSTRUCTURE:

PIER

SPANS: 1@56'11", 1@52'5.5", 1@52'7", 1@52'8", 1@52'6.5", 1@52'4.5", 1@52'6.5", 2@52'7", 1@57'2.5"

BEAMS OR GIRDERS: 5 LINES OF RC DECK GIRDERS @ VARIOUS SIZES & CENTERS

FLOOR: ENCROACHMENT: DECK (OUT TO OUT):

6 3/4"RC, 1 LN 8" 31.5 FT

4"AWS GAS

CLEAR ROADWAY: **BETWEEN RAILS:** SIDEWALK OR CURB:

28.083 FT 31.25 FT LT 1.5835 RT 1.5835

FT

VERT.CL.OVER:

999.9 FT

INV.RTG.: OPE.RTG.: CONTR.MEMBER: POSTED:

HS-26 HS-44 **RCDG** SV TTST DATE

GREEN LINE ROUTE: SYSTEM:

Primary U.S. Route Υ

UNDER ROUTES AND CLEARANCES

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 520010 County LEE Date: 04/16/2018

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3306	Maintain Concrete Superstructure Components	SF	5	Span 2 Beam 1: Full height spall up to 2' wide x 2" deep with exposed rebar with section loss that extends down to bottom corner spall that is 5' long x up to 1' wide by up to 3" deep with exposed rebar with section loss on west face of beam 3' from pier 2.	
3306	Maintain Concrete Superstructure Components	SF	4	Span 6 Beam 5: PMSpall 4' long x 10" high on west face x 8" wide on bottom of beam with exposed rebar with section loss 14' from pier 6.	
3348	Maintain Concrete Substructure Components	LF	1	Bent 1 Pile 2: PM2' high x 1' wide x 3" deep spall with exposed rebar with section loss on north face starting 3' from ground line.	
3348	Maintain Concrete Substructure Components	LF	8	Bent 4 Cap 1: PM3' long x up to 1' high x up to 5" deep spall on bottom corner of cap with exposed rebar with section loss on north face with a 5' long x 5" high area of delamination.	
3348	Maintain Concrete Substructure Components	LF	1	Bent 4 Pile 1: PM Patch that has failed, Spall 8' long x up to 21" wide x 2" deep with exposed rebar with section loss on north face of column starting under cap.	



BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 520010 County LEE

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

MMS Code	MMS Description							
3306	Maintain Cor	Maintain Concrete Superstructure Components						
Location:	Location:							
		Bent/Span No.						
Priority Leve	I	Status						
Priority Maintenance Division Bridge Maintenance Notification Received								
Submitted Da	ate: Submitt	ed By:	Assisted By:					
04/14/2018	Ryan F	isher isher						
Details								
	er spall that is t		xposed rebar with section loss that exep with exposed rebar with section lo					

MMS Code	MN	MMS Description Quantity					
3306	Mai	ntain Cond	crete Superstructure Components		4	SF	
Location:							
			Bent/Span No.				
Priority Leve	el		Status				
Priority Maintenance			Division Bridge Maintenance Notification Received				
Submitted D	ate:	Submitte	d By:	Assisted By:			
04/14/2018		Ryan Fi	sher				
Details							
Span 6 Beam 5: PMSpall 4' long x 10" high on west face x 8" wide on bottom of beam with exposed rebar with section loss 14' from pier 6.							

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 520010 County LEE

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

MMS Code	MMS Descri	MMS Description						
3348	Maintain Con	Maintain Concrete Substructure Components						
Location:	Location:							
		Bent/Span No.						
Priority Leve	ı	Status						
Priority Maintenance Division Bridge Maintenance Notification Received								
Submitted Da	ate: Submitte	ed By:	Assisted By:					
04/14/2018	Ryan F	isher						
Details								
Bent 1 Pile 2 ground line.	: PM2' high x	1' wide x 3" deep spall with expose	d rebar with section loss on north fac	e starting 3'	from			

MMS Code	MN	IS Descrip	otion		Quantity		
3348	Maii	ntain Cond	crete Substructure Components		8	LF	
Location:							
			Bent/Span No.				
Priority Leve	el		Status				
Priority Main	itenan	се	Division Bridge Maintenance Notification Received				
Submitted D	ate:	Submitte	d By:	Assisted By:			
04/14/2018		Ryan Fi	sher				
Details							
Bent 4 Cap 1: PM3' long x up to 1' high x up to 5" deep spall on bottom corner of cap with exposed rebar with section loss on north face with a 5 ' long x 5" high area of delamination.							

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 520010 County LEE

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

MMS Code	MMS Description						
3348	Maintain Co	Maintain Concrete Substructure Components					
Location:							
	Bent/Span No.						
Priority Leve	I	Status					
Priority Main	tenance	Division Bridge Maintenance Noti	fication Received				
Submitted D	ate: Submitt	ed By:	Assisted By:				
04/14/2018	Ryan I	isher					
Details							
		nat has failed, Spall 8' long x up to 2 irting under cap.	1" wide x 2" deep with exposed reba	r with section	n loss		

MEAS. TAKEN 10FT FROM SOUTH APPROACH

Roadway	24ft Wide	2 Paved Lanes	Looking North
Left Shoulder	1ft Wide	1ft Paved	
Right Shoulder	2ft Wide	2ft Paved	
Left Guardrail	1ft from road		
Right Guardrail	2ft from road		

MEAS. EDITED 4/16/2018...RDF ROADWAY EDITED TO 24FT LEFT SHOULDER EDITED TO 1FT WIDE/PAVED RIGHT SHOULDER EDITED TO 2FT WIDE/PAVED

Title			Description			
APPROACH ROADWAY			LOOKING NORTH			
Bridge No: 520010 Drawn By: DCR			Date: _{7/28/08}	File Name: \$0074001016		

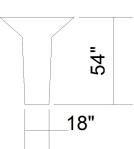
Deck Width/Out to Out 31.5ft			Between Rails			
Clear Roadway 28.083ft			ng Surface		0.333ft	
Median Width			n Height			
Curb Height		Left	0.583ft	Right	0.583ft	
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median))	Left		Right		
Guardrail Width	Left	0.667ft	Right	0.667ft		
Top of Rail to Deck/Wearing Su	Left	2.333ft	Right	2.333ft		
Bridge Rail	Left	Type 11	Right	Type 14		

ONE THRU LANE IN EACH DIRECTION

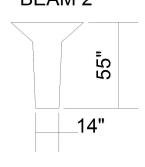
Measurements for Spans	1 thru 10		
Deck Thickness	0.563	Left Overhang	3.75
Top of Rail to Bottom of Beam	7.833	Right Overhang	3.75

Beam Number	Beam Type	Spacing	Comments
1	RC Deck Girder	6.667ft	
2	RC Deck Girder	1.333ft	
3	RC Deck Girder	8.0ft	
4	RC Deck Girder	8.0ft	
5	RC Deck Girder		

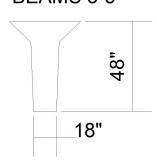




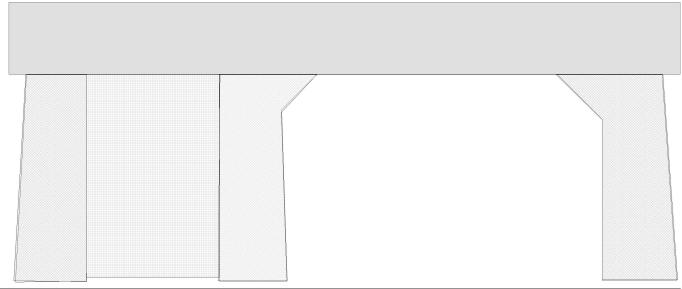
BEAM 2



BEAMS 3-5

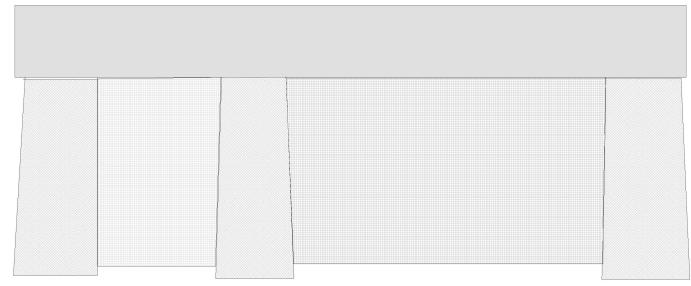


Title		Description					
TYPICAL SECTION			4 LINES OF RCDG'S				
Bridge No: 520010	Drawn By: DCR		Date: _{7/28/08}	File Name: \$0074001017			



Cap In	ap Information Material Cast-in-Place Concrete											
Length	n Width	Height	Left Over	hang	Right Overh	ang	Left Be	eam to Er	nd of Cap.	Right	Beam to En	d of Cap.
27.0 ft	3.0 ft.	3.25 ft.	1.5 ft.		1.5 ft.			1.5 ft.			1.5 ft.	
Subca	p Information		Material	'		'						
Length	n Width	Height	Left Over	hang	Right Overh	ang	Left Pi	le to Splid	ce.			
Sill Info	ormation		Material	'								
Length	n Width	Height										
Pile#	Material	Spacing	Width/Dia.	Height	Length	Orie	ntation	Driven?	Replaceme	ent?	Removed?	Collar?
1	Concrete	8 ft.	2.5 ft.	2.5 ft.		Vert	ical	No	No		No	No
2	Concrete	16 ft.	2.5 ft.	2.5 ft.		Vert	ical	No	No		No	No
3	Concrete		2.5 ft.	2.5 ft.		Vert	ical	No	No		No	No
Bent: 1			Similar B	ents: 2	and 3							

Title		Description					
BENT PROFILE			BENTS 1 THRU 3				
Bridge No: 520010	Drawn By: EC BLAKE		Date: 4/29/2010	File Name: \$0070001479			

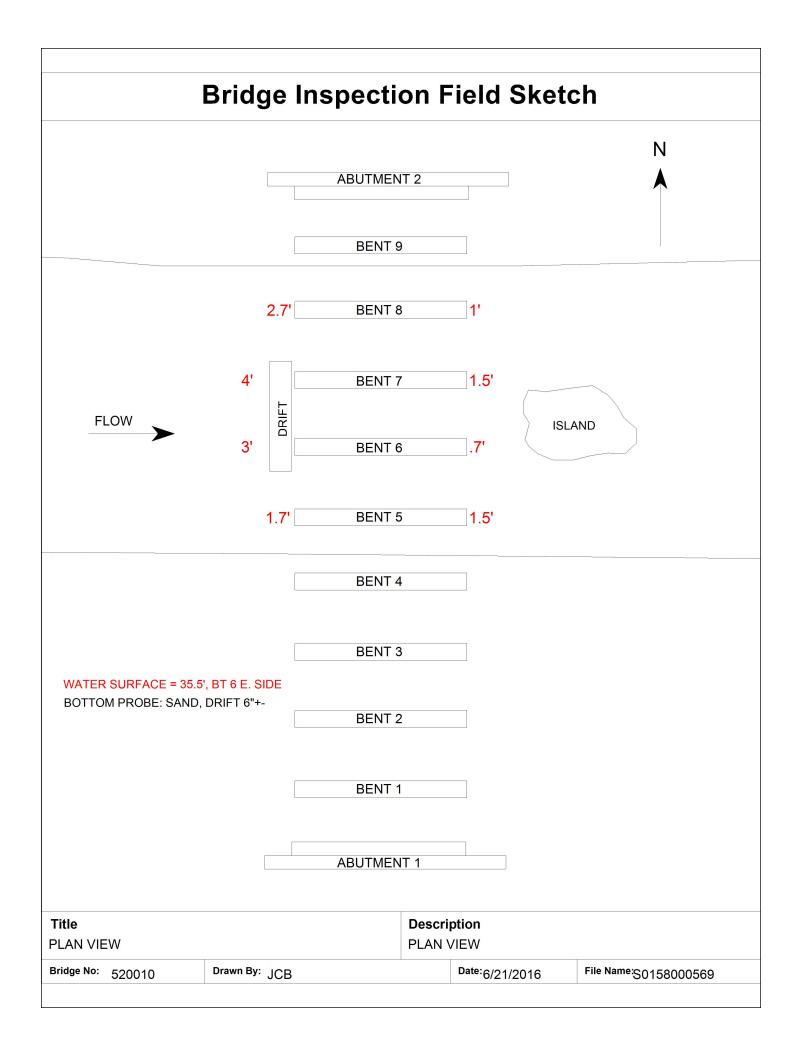


Cap In	formation Material Cast-in-Place Concrete											
Length	n Width	Height	Left Over	Left Overhang Right Overhang Left Beam to End of Cap. Right Beam to I				t Beam to En	d of Cap			
27.0 ft	t. 3.0 ft.	3.25 ft.	1.5 ft		1.5 ft.			1.5 ft.			1.5 ft.	
Subca	p Information		Material									
Length	n Width	Height	Left Over	hang	Right Overh	ang	Left Pi	le to Splid	ce.			
Sill Info	ormation		Material			'						
Length	n Width	Height										
Pile#	Material	Spacing	Width/Dia.	Height	Length	Orier	ntation	Driven?	Replacem	nent?	Removed?	Collar?
1	Concrete	8 ft.	2.5 ft.	2.5 ft.		Verti	ical	No	No		No	No
2	Concrete	16 ft.	2.5 ft.	2.5 ft.		Verti	ical	No	No		No	No
3	Concrete		2.5 ft.	2.5 ft.		Verti	ical	No	No		No	No
Bent: 4		1	Similar B	ent: 9	1			1			1	1

Title		Description					
BENT PROFILE 1			BENTS 4 AND 9				
Bridge No: 520010	Drawn By: EC BLAKE		Date: 4/29/2010	File Name: \$0070001480			

Cap In	forn	nation		Material	Cast-in-l	Place Concre	te				
Lengt	th	Width	Height	Left Over	hang	Right Overh	ang Left B	eam to Er	nd of Cap. I	Right Beam to En	d of Cap.
31.67 ft	t.	3.0 ft.	3.0 ft.	N/A		N/A	6.3	25 ft.		1.5 ft.	
Subcap Information Material											
Lengt	th	Width	Height	Left Over	hang	Right Overh	ang Left P	ile to Splic	ce.		
Sill Info	orm	ation		Material							
Lengt	th	Width	Height								
Pile#	Ma	aterial	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replaceme	nt? Removed?	Collar?
1	Co	oncrete		33.67 ft.	3 ft.		Vertical	No	No	No	No
			•	Similar B							

Title		Description					
BENT PROFILE 2		BENTS 5 THRU 8					
Bridge No: 520010 Drawn By: EC BLAKE			Date: 4/29/2010	File Name: \$0070001481			



6/22/16

BENT	NE	SE	NW	sw
5	1.1'	0.6'	1.0'	1.0'
6	COV	COV	1.8'	1.2'
7	DRIFT	DRIFT	DRIFT	DRIFT
8	COV	COV	0.8'	1.0'

Title			Description					
VERTICAL FTG. EXPOSURE			MEASUREMENTS					
Bridge No: 520010 Drawn By: JCB			Date: 6/4/2008	File Name:S0158000570				