



NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 STRUCTURE MANAGEMENT UNIT

ATTENTION: **PRIORITY MAINTENANCE ISSUED; SNOOPER USED**

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 04/16/2018

DIVISION: 8 COUNTY: LEE STRUCTURE NUMBER: 520010 FREQUENCY: 24 MONTHS

FACILITY CARRIED: US15/501,NC87 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 CONCRETE DECK GIRDERS

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

SPANS: 10 SPANS. SEE SPAN PROFILE SHEET FOR SPAN DETAILS

FRACTURE CRITICAL TEMPORARY SHORING SCOUR CRITICAL SCOUR PLAN OF ACTION

GRADES: DECK 5 SUPERSTRUCTURE 5 SUBSTRUCTURE 5 CULVERT N

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: NONE



Sign noticed issued for	Number Required
<u>NO</u> WEIGHT LIMIT	<u>0</u>
<u>NO</u> DELINEATORS	<u>0</u>
<u>NO</u> NARROW BRIDGE	<u>0</u>
<u>NO</u> ONE LANE BRIDGE	<u>0</u>
<u>NO</u> LOW CLEARANCE	<u>0</u>

DIRECTION OF INSPECTION S-N

DIRECTION MATCHES PLANS _____

Looking north

INSPECTED BY Rick Wertman	SIGNATURE 	ASSISTED BY Jim Stocks
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Structure Element Scoring

Structure Number: 520010

Inspection Date 4/16/2018

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	0	457	31	15974
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	0	267	0	0	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

Span 1	Deck
Reinforced Concrete Deck	

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,645	1,564	29	52	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Patched Areas	Patched area 1' high x full length of east overhang that is distressed with efflorescence/stalactites/staining and cracking throughout .	3	52		Square Feet
12	Patched Areas	Full width patch over pier 6	2	29		Square Feet

General Comments

Span 1	Wearing Surface
Asphalt Wearing Surface	

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,475	775	0	700	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Transverse/longitudinal/map cracking in AWS up to 1/2" wide throughout span both travel lanes.	3	700	700	Square Feet

General Comments

Span 1	Right Bridge Rail
Concrete Railing	

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	53	48	5	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Several full width 1/32" transverse cracks in top of curb at various locations.	2	5		Feet

General Comments

Span 1	Beam 2
Reinforced Concrete Girder	

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	51	50	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
110	Cracking (RC and Other)	1' long diagonal crack at end of beam over pier 1 starting at bottom of beam.	2	1		Feet

General Comments

Span 1 Beam 3

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	51	47	4	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Efflorescence/Rust Staining	4' of efflorescence on bottom of beam between beams 2 and 3 starting at abutment 1.	2	4	Feet

General Comments

Span 1 Beam 5

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	51	47	1	3	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Cracking (RC and Other)	3' long longitudinal crack up to 1/16" wide on bottom of beam at mid span.	3	3	3 Feet
110	Exposed Rebar	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.	2	1	1 Feet

General Comments

Span 2 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,645	1,593	0	52	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Patched Areas	Patched area 1' high x full length of east overhang that is distressed with efflorescence/stalactites/staining and cracking throughout	3	52	52 Square Feet

General Comments

Span 2 Expansion Joint

Standard Joint

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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General Comments

Not visible

Span 2 Wearing Surface
Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,475	775	0	700	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	Transverse/longitudinal/map cracking in AWS up to 1/2" wide throughout span both travel lanes.	3	700	700 Square Feet

General Comments

Span 2 Right Bridge Rail
Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	53	20	12	21	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Patched Area	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.	3	21	21 Square Feet
331	Cracking (RC and Other)	Several full width 1/32" transverse cracks in top of curb at various locations.	2	12	Feet

General Comments

Span 2 Beam 1
Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	45	0	7	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	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.	3	2	2 Feet
110	Exposed Rebar	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.	3	5	5 Feet

General Comments

Span 2 Beam 2
Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	43	1	8	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	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 .	3	2	2 Feet
110	Delamination/Spall	Delamination 6' long x 8" wide on bottom of beam x 5" high on west face 9' from pier 2.	3	6	6 Feet
110	Patched Area	10" long x full width of bottom of beam sound patched area at pier 2.	2	1	Feet

General Comments

Span 2 Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	51	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	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.	3	1	1 Feet

General Comments

Span 2 Beam 5

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	50	0	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	18" high x 4" wide x 1" deep spall on east face of beam over pier 1	3	1	1 Feet
110	Delamination/Spall	Full height x 3" wide x up to 1" deep spall at end of beam over pier 2 east face.	3	1	1 Feet

General Comments

Span 3 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,645	1,592	0	53	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Delamination/Spall	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	3	1	1 Square Feet
12	Patched Areas	Patched area 1' high x full length of east overhang that is distressed with efflorescence/stalactites/staining and cracking throughout	3	52	52 Square Feet

General Comments

Span 3 Expansion Joint

Standard Joint

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty

General Comments

Not visible

Span 3 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,475	775	0	700	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	Transverse/longitudinal/map cracking in AWS up to 1/2" wide throughout span both travel lanes.	3	700	700 Square Feet

General Comments

Span 3 Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	53	38	15	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	Several up to full width 1/32" transverse cracks in top of curb at various locations.	2	15	Feet

General Comments

Span 3 Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	51	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Patched Area	1' wide x 20" high sound patched area on east face of beam over pier 2.	2	1	Feet

General Comments

Span 3 Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	50	1	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	1' square area of delamination with a 10" long x 3" wide x 1/2" deep spall on bottom of beam at pier 2.	3	1	1 Feet
110	Patched Area	Sound patched area 1' long x 3" high on west face x 6" wide on bottom of beam at pier 2.	2	1	Feet

General Comments

Span 3 Beam 5

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	41	10	1	0 Feet

Element Number	Defect Type	Defect Description	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 cracking on east face of beam starting 2' from pier 3.	2	5	Feet
110	Exposed Rebar	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.	2	1	1 Feet
110	Exposed Rebar	5" diameter spall 1" deep on bottom of beam with exposed rebar with no measurable section loss 5' from pier 2.	2	1	1 Feet
110	Patched Area	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.	2	3	Feet

General Comments

Span 4 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,647	1,616	0	31	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Patched Areas	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.	3	31	31 Square Feet

General Comments

Span 4 Expansion Joint

Standard Joint

Element Number	Element 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 Description	CS	CS Qty	Maint Qty
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General Comments

Not visible

Span 4 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,476	476	0	1,000	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	Transverse/longitudinal/map cracking in AWS up to 1/2" wide throughout span both travel lanes.	3	1,000	1,000 Square Feet

General Comments

Span 4 Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	53	38	9	6	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	2' long x 1/8" wide crack in top of top rail at rail post 8.	3	2	2 Feet
331	Patched Area	unsound patched area on west face of curb between rail posts 8 and 9.	3	4	4 Square Feet
331	Patched Area	Sound patched area on west face of curb between rail posts 5 and 6 and rail posts 7 and 8.	2	9	Square Feet

General Comments

Span 4 Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	53	35	18	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	Numerous up to full width hairline to 1/32" transverse cracks in top of curb at various locations.	2	18	Feet

General Comments

Span 4 Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	36	0	16	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	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.	3	1	1 Feet
110	Delamination/Spall	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.	3	13	13 Feet
110	Delamination/Spall	Area of delamination 18" wide x 32" high on west face of beam over pier 4	3	2	2 Feet

General Comments

Span 4 Beam 2

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	50	0	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	Area of delamination 20" long x 5" high on west face x 5" wide on bottom of beam at pier 4.	3	2	2 Feet

General Comments

Span 4 Beam 3

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	51	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	4" diameter corner spall on bottom and east faces 1/2" deep 20' from pier 4.	2	1	Feet

General Comments

Span 4 Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	50	0	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	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.	3	2	2 Feet

General Comments

Span 4 Beam 5

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	36	0	16	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Cracking (RC and Other)	1' long horizontal crack 1/16" wide on west face 1" from bottom of beam 20' from pier 4.	3	1	1 Feet
110	Cracking (RC and Other)	15' long x up to 1/4" deep horizontal crack in west face 1" up from bottom of beam at mid span.	3	15	15 Feet

General Comments

Span 5 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,647	1,595	0	52	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Patched Areas	Patched area 1' high x full length of east overhang that is distressed with efflorescence/stalactites/staining and cracking throughout	3	52	52 Square Feet

General Comments

Span 5 Expansion Joint**Standard Joint**

Element Number	Element 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 Description	CS	CS Qty	Maint Qty
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General Comments

Not visible

Span 5 Wearing Surface**Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,476	476	0	1,000	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	Transverse/longitudinal/map cracking in AWS up to 1/2" wide throughout span both travel lanes.	3	1,000	1,000 Square Feet

General Comments

Span 5 Left Bridge Rail**Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	53	48	0	5	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Delamination/Spall	4' long x up to full height x up to 1" deep spalled area on front face of curb starting at pier 4	3	4	4 Feet
331	Delamination/Spall	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.	3	1	1 Feet

General Comments

Span 5 Right Bridge Rail**Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	53	31	22	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	Numerous up to full width hairline to 1/32" transverse cracks in top of curb at various locations.	2	22	Feet

General Comments

Span 5 Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	50	0	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	2' long x 14" wide on bottom of beam x 6" high on east face area of delamination starting at pier 5	3		2 Feet
110	Delamination/Spall	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.	3	2	2 Feet

General Comments

Span 5 Beam 2

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	47	2	3	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	30" long x 10" wide on bottom of beam x 6" high on west face area of delamination starting at pier 5	3	3	3 Feet
110	Patched Area	18" long x 4" high on west face x 4" wide on bottom of beam sound patched area starting at pier 4.	2	2	Feet

General Comments

Span 5 Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	50	1	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	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.	3	1	1 Feet
110	Patched Area	1' long x full width of bottom of beam sound patched area with staining at pier 5.	2	1	Feet

General Comments

Span 5 Beam 5

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	46	4	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	18" long x 3" high on east face x 2" wide on bottom of beam starting 7' from pier 4.	3	2	2 Feet
110	Cracking (RC and Other)	2' long x 1/32" wide longitudinal crack on bottom of beam starting 2' from pier 4.	2	2	Feet
110	Delamination/Spall	4" diameter area of delamination on west face of beam at top 5' from pier 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
5.

General Comments

Span 6 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	1,648	1,618	0	30	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Delamination/Spall	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.	3	15	15	Square Feet
12	Delamination/Spall	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.	3	15	15	Square Feet

General Comments

Span 6 Expansion Joint

Standard Joint

Element Number	Element 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 Description	CS	CS Qty	Maint Qty	
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General Comments

Not visible

Span 6 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,477	477	0	1,000	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Transverse/longitudinal/map cracking in AWS up to 1/2" wide throughout span both travel lanes.	3	1,000	1,000	Square Feet

General Comments

Span 6 Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	53	52	1	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Exposed Rebar	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	2	1	1	Feet

General Comments

Span 6 Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	53	38	15	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	Numerous up to full width hairline to 1/32" transverse cracks in top of curb at various locations.	2	15	Feet

General Comments

Span 6 Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	51	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Exposed Rebar	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.	2	1	1 Feet

General Comments

Span 6 Beam 3

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	50	0	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Cracking (RC and Other)	2' long crack 1/16" wide on bottom of beam starting at pier 6.	3	2	2 Feet

General Comments

Span 6 Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	51	0	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	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 beam on west face at pier 6.	3	1	1 Feet

General Comments

Span 6 Beam 5

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	25	1	26	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	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.	3	6	6 Feet
110	Delamination/Spall	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.	3	10	10 Feet
110	Delamination/Spall	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	3	6	6 Feet
110	Exposed Rebar	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.	3	4	4 Feet
110	Cracking (RC and Other)	1' long 1/32" horizontal crack on west face of beam starting at pier 5.	2	1	Feet

General Comments

Span 7 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,647	1,641	0	6	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Delamination/Spall	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.	3	6	6 Square Feet

General Comments

Span 7 Expansion Joint

Standard Joint

Element Number	Element 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 Description	CS	CS Qty	Maint Qty
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General Comments

Not visible

Span 7 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,476	676	0	800	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	Transverse/longitudinal/map cracking in AWS up to 1/2" wide throughout span both travel lanes.	3	800	800 Square Feet

General Comments

Span 7 Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	53	37	16	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	Numerous up to full width hairline to 1/32" transverse cracks in top of curb at various locations.	2	16	Feet

General Comments

Span 7 Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	48	2	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	Delamination 25" high x 16" wide on west face of beam over pier 7	3	2	2 Feet
110	Delamination/Spall	End of beam has spalled off 18" high x full width x up to 3" deep over pier 7.	3		1 Feet
110	Delamination/Spall	6" long x 4" wide x 1/2" deep spall with exposed rebar with no measurable section loss on bottom over pier 7.	2	1	1 Feet
110	Exposed Rebar	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.	2	1	1 Feet

General Comments

Span 7 Beam 2

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	51	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	5" high x 1" wide x 1/4" deep spall on west face of beam over pier 6.	2	1	1 Feet

General Comments

Span 7 Beam 3

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	51	0	1	0 Feet

Element Number	Defect Type	Defect Description	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

Span 7 Beam 4

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	49	3	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Exposed Rebar	10" long x 6" wide x 1" deep spall with exposed rebar with no measurable section loss on bottom of beam at pier 6	2	1	1 Feet
110	Patched Area	Sound patched area 18" long x 1' high on east and west faces of beam at pier 7.	2	2	Feet

General Comments

Span 7 Beam 5

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	30	0	22	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Cracking (RC and Other)	2' long horizontal crack 1/8" wide on west face of beam 16' from pier 7.	3	2	2 Feet
110	Delamination/Spall	Delamination 20' long x up to full width on bottom of beam x 4" high on west face at mid span.	3	20	20 Feet
110	Delamination/Spall	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.	3		Feet

General Comments

Span 8 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,645	1,614	1	30	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Cracking (RC and Other)	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.	3	29	29 Square Feet
12	Delamination/Spall	Spall in east overhang 2' wide x 4" long x 5" deep at end of span over pier 8.	3	1	1 Square Feet
12	Delamination/Spall	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.	2	1	1 Square Feet

General Comments

Span 8 Expansion Joint

Standard Joint

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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General Comments

Not visible

Span 8 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing Surface	1,475	675	0	800	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Transverse/longitudinal/map cracking in AWS up to 1/2" wide throughout span both travel lanes.	3	800	800	800 Square Feet

General Comments

Span 8 Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	53	52	0	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Full height vertical 1/16" crack in south face of rail	3	1	1	1 Feet

General Comments

Span 8 Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	53	33	20	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Cracking (RC and Other)	Numerous up to full width hairline to 1/32" transverse cracks in top of curb at various locations.	2	20		Feet

General Comments

Span 8 Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
110	Reinforced Concrete Open Girder/Beam	52	48	4	0	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
110	Cracking (RC and Other)	Full height vertical hairline to 1/32" crack on west face of beam at mid span.	2	1		Feet
110	Exposed Rebar	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	2	3	3	3 Feet

General Comments

Span 8 Beam 3

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	51	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Exposed Rebar	Spall 1' square x 3" deep on bottom of beam with exposed rebar with no measurable section loss at pier 7.	2	1	1 Feet

General Comments

Span 8 Beam 5

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	40	1	11	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Delamination/Spall	1' long x 8" wide area of delamination on bottom of beam 11' from pier 8.	3	1	1 Feet
110	Delamination/Spall	Delamination 2' long x 10" wide on bottom of beam x 4" high on west face 10' from pier 7	3	2	2 Feet
110	Delamination/Spall	Delamination 4' long x 8" wide on bottom of beam x 4" high on west face 13' from pier 8.	3	4	4 Feet
110	Delamination/Spall	Delamination 4' long x up to 11" wide on bottom of beam x 4" high on west face 20' from pier 8.	3	4	4 Feet
110	Delamination/Spall	Delamination 4' long x up to full width of bottom of beam x 4" high on west face starting 1' from pier 7	3		Feet
110	Delamination/Spall	5" long x 4" high x 1/2" deep spall on east face of beam over pier 7.	2	1	1 Feet

General Comments

Span 9 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,648	1,577	1	70	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Cracking (RC and Other)	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.	3	29	29 Square Feet
12	Delamination/Spall	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.	3	40	40 Square Feet
12	Delamination/Spall	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.	3	1	1 Square Feet
12	Efflorescence/Rust Staining	Full width hairline transverse crack with efflorescence and stalactites on underside of deck 5' from pier 9 in bay 1.	2	1	Square Feet

General Comments

Span 9 Expansion Joint

Standard Joint

Element Number	Element 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 Description	CS	CS Qty	Maint Qty
General Comments					
Not visible					

Span 9 Wearing Surface

Asphalt Wearing Surface

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,477	977	0	500	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	Transverse/longitudinal/map cracking in AWS up to 1/2" wide throughout span both travel lanes.	3	500	500 Square Feet
General Comments					

Span 9 Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	53	51	2	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Patched Area	Sound patched area on bottom west face of rail posts 8 and 9.	2	2	Square Feet
General Comments					

Span 9 Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	53	43	10	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	Numerous up to full width hairline to 1/32" transverse cracks in top of curb at various locations.	2	10	Feet
General Comments					

Span 9 Beam 1

Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	45	4	3	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: 520010

Inspection Date: 04/16/2018

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**
Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	47	3	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Cracking (RC and Other)	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	3	1	1 Feet
110	Delamination/Spall	Delamination 16" long x 3" high on west face x 4" wide on bottom of beam starting at pier 9.	3	1	1 Feet
110	Patched Area	Three sound patched area on bottom of beam up to 1' wide x 10" long starting at pier 8 out 4'.	2	3	Feet

General Comments

Span 9 **Beam 5**
Reinforced Concrete Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	52	16	0	36	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
110	Cracking (RC and Other)	2' long horizontal crack 1/16" wide on west face of beam starting 11' from pier 8	3	2	2 Feet
110	Cracking (RC and Other)	3' long horizontal crack 3/16" wide on west face of beam starting 5' from pier 8	3	3	3 Feet
110	Delamination/Spall	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.	3	30	30 Feet
110	Delamination/Spall	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.	3	1	1 Feet

General Comments

Span 10 **Deck**
Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	1,645	1,564	0	81	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Cracking (RC and Other)	Full width transverse cracks up to 1" wide with areas of potholes up to 6" long x 3" wide over pier 9.	3	29	29 Square Feet
12	Delamination/Spall	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.	3	52	52 Square Feet

General Comments

Span 10 Expansion Joint**Standard Joint**

Element Number	Element 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 Description	CS	CS Qty	Maint Qty
General Comments					
Not visible					

Span 10 Wearing Surface**Asphalt Wearing Surface**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
510	Wearing Surface	1,475	875	0	600	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
510	Crack (Wearing Surface)	Transverse/longitudinal/map cracking in AWS up to 1/2" wide throughout span both travel lanes.	3	600	600 Square Feet
General Comments					

Span 10 Left Bridge Rail**Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	53	52	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Patched Area	Sound patched area on bottom west face of rail post 1.	2	1	Square Feet
General Comments					

Span 10 Right Bridge Rail**Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	53	46	7	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Cracking (RC and Other)	Several full/partial width transverse cracks in top of curb at various locations.	2	7	Feet
General Comments					

Span 10 Beam 5**Reinforced Concrete Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
110	Reinforced Concrete Open Girder/Beam	51	42	0	9	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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Structure Number: 520010Inspection 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 Bent 1**Abutment****Reinforced Concrete Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215	Reinforced Concrete Abutment	76	38	1	37	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
215	Cracking (RC and Other)	25' long horizontal crack up to 1/8" wide at west end of abutment that extends 3' on front face starting under bay 1.	3	30	30 Feet
215	Cracking (RC and Other)	7' long diagonal 1/32" to 1/16" wide crack in front face under beam 2 starting at top of abutment..	3	2	2 Feet
215	Cracking (RC and Other)	Full height vertical/diagonal crack up to 1/16" wide with efflorescence starting at top of abutment 4' from beam 5 east side.	3	1	1 Feet
215	Delamination/Spall	1.5' wide x 2.5' long x 3" deep spall with exposed rebar with no measurable section loss at beam 5.	3	2	2 Feet
215	Patched Area	Patched area that is unsound 16" wide x 5' high on front face under beam 5.	3	2	2 Feet
215	Cracking (RC and Other)	Full height vertical hairline to 1/32" crack in front face under bay 2.	2	1	Feet

General Comments

Bent 1**Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	27	10	16	1	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Cracking (RC and Other)	2' long horizontal/transverse crack up to 1/16" wide on north face and bottom of cap starting at construction joint.	3		2 Feet
234	Delamination/Spall	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.	3	1	1 Feet
234	Patched Area	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.	3		2 Feet
234	Exposed Rebar	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.	2	1	1 Feet
234	Exposed Rebar	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	2	1	1 Feet
234	Exposed Rebar	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.	2	2	2 Feet
234	Exposed Rebar	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.	2		3 Feet
234	Patched Area	Several sound patched area on south face of cap up to 4' square starting under beam 2.	2	12	Feet

General Comments

Bent 1 Pile 1**Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
205	Cracking (RC and Other)	3' high vertical crack up to 1/8" wide on north face of column starting 2' from ground line.	3	1	1 Each

General Comments

Bent 1 Pile 2**Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
205	Exposed Rebar	PM--2' high x 1' wide x 3" deep spall with exposed rebar with section loss on north face starting 3' from ground line.	3	1	1 Each

General Comments

End Bent 2 Abutment**Reinforced Concrete Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215	Reinforced Concrete Abutment	76	25	18	33	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
215	Cracking (RC and Other)	Several full/partial height vertical cracks up to 1/16" wide with efflorescence under bay 2 out to beam 5.	3	5	5 Feet
215	Delamination/Spall	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.	3	4	4 Feet
215	Patched Area	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.	3	24	24 Feet
215	Cracking (RC and Other)	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.	2	6	Feet
215	Patched Area	4' high x up to full height sound patched area starting under beam 5 that extends out to east side of beam 5.	2	12	Feet

General Comments

Forming left in place under beams 2 and 3.

Bent 2 Cap 1**Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	27	7	12	8	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Delamination/Spall	6" wide x 11" high area of delamination on north face of cap under bay 2.	3	1	1 Feet

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

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**Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
205	Delamination/Spall	2' long x 4" wide area of delamination on northwest corner starting at bottom of cap.	3	1	1 Each

General Comments

Bent 2 Pile 2**Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
205	Delamination/Spall	4.5' high x 16" wide delaminated area on southeast corner starting 2' from bottom of cap.	3	1	1 Each

General Comments

Bent 2 Pile 3**Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
205	Patched Area	5' high x 8" wide corner patch on southeast corner that is unsound starting at bottom of cap.	3	1	1 Each
205	Patched Area	2.5' high x 7" wide sound corner patch on southwest corner starting 2' from bottom of cap	2		Each

General Comments

Bent 3 Cap 1**Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	27	8	10	9	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Delamination/Spall	1' high x up to 19" wide x up to 5" deep spall on south face of cap under bay 2	3		2 Feet

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

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

General Comments

Bent 3**Pile 3****Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Delamination/Spall	1' square area of concrete deterioration with spalling up to 1/2" deep 7' from ground line on east face.	3		1	Each
205	Delamination/Spall	1.5' high x 6" wide area of delamination with 1/32" cracks that extend 2' up and down from delamination.	3		1	Each
205	Delamination/Spall	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.	3		1	Each
205	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
205	Exposed Rebar	6" diameter spall 1" deep with exposed rebar with no measurable section loss on north face of column 7' from ground.	2		1	Each

General Comments

Bent 4**Cap 1****Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	27	4	1	22	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	3' long x 1/8" wide horizontal crack on bottom of cap between columns 1 and 2 starting at construction joint north side.	3	3	3	Feet
234	Cracking (RC and Other)	Full height vertical crack up to 1/16" wide on west face of cap.	3		1	Feet
234	Delamination/Spall	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.	3	2	2	Feet
234	Delamination/Spall	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.	3	1	1	Feet
234	Delamination/Spall	8' long x 6" wide area of delamination on bottom corner of cap under bays 2 and 3.	3	8	8	Feet
234	Exposed Rebar	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.	3	8	8	Feet
234	Exposed Rebar	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.	2		6	Feet

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

General Comments

Bent 4 Pile 1**Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Exposed Rebar	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.	3	1	1	Each

General Comments

Bent 4 Pile 2**Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Delamination/Spall	18" wide x 1' high area of delamination on south face of column starting at bottom of cap.	3		1	Each
205	Delamination/Spall	5' high x 3' wide area of delamination on north face of column starting 3' from bottom of cap.	3	1	1	Each
205	Patched Area	3' square sound patched area with a 1/32" vertical crack north face starting at bottom of cap	2			Each

General Comments

Bent 4 Pile 3**Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Delamination/Spall	9' high x 16" wide area of delamination on south face of column starting 3' from ground.	3	1	1	Each
205	Patched Area	Patched area 4' high x 1' wide on southwest corner and 2' high x 6" wide on southeast corner that are unsound.	3		2	Each

General Comments

Bent 5 Cap 1**Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	32	30	1	1	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Delamination/Spall	18" high x 11" wide x 3" deep spall on south face of cap at west end.	3	1	1	Feet

234	Delamination/Spall	5" diameter x 1" deep corner spall on bottom of cap north face 1' from west end	2	1	1	Feet
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General Comments

Bent 7 Cap 1**Reinforced Concrete Pier Cap**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	32	31	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Delamination/Spall	Two 6" diameter x 1/4" deep spalls on top of cap east end both corners.	2	1	1 Feet

General Comments

Bent 7 Pile 1**Reinforced Concrete Pier Wall**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
210	Reinforced Concrete Pier Wall	34	33	1	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
210	Delamination/Spall	4" diameter x 1/2" deep spall on east face of column under cap.	2	1	1 Feet

General Comments

Bent 9 Cap 1**Reinforced Concrete Pier Cap**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Delamination/Spall	Up to 10" long x full width of top of cap east end area of concrete deterioration with spalling up to 2" deep.	3	1	1 Feet
234	Exposed Rebar	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	2	3	3 Feet
234	Exposed Rebar	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.	2	2	2 Feet

General Comments

Bent 9 Pile 1**Reinforced Concrete Column**

Element Number	Element Name	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
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General Comments

VEGETATION OVERGROWTH ALONG HEIGHT OF COLUMN EXTENDING TO CAP

Bent 9**Pile 2****Reinforced Concrete Column**

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

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
205	Delamination/Spall	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.	3	1	1	Each
205	Exposed Rebar	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.	2	1	1	Each
205	Patched Area	1' high x 6" wide on south face x 6" wide on west face sound patched area 4' from ground line.	2			Each

General Comments

Bent 9**Pile 3****Reinforced Concrete Column**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinforced Concrete Column	1	-1	0	2	0	Each

Element Number	Defect Type	Defect Description	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 column 5' high x 1.5' wide with a 1/32" x 2' long crack at top of patch starting at bottom of cap.	3	1	1	Each
205	Patched Area	5' high x 1' wide sound patched area on north face of column starting 3' from ground line.	2			Each

General Comments

Elements Verified

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 Verified

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

Span 10 Expansion Joint

Not visible

Span 2 Expansion Joint

Not visible

Span 3 Expansion Joint

Not visible

Span 4 Expansion Joint

Not visible

Span 5 Expansion Joint

Not visible

Span 6 Expansion Joint

Not visible

Span 7 Expansion Joint

Not visible

Span 8 Expansion Joint

Not visible

Span 9 Expansion Joint

Not visible

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

Item	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	P	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 Inspection 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	3376	Qty.	16462
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Details Sand and vegetation accumulation 1' wide along both curbs blocking drain holes, right curb span 1 shown.

Item	Drainage System	Grade	F	Maint Code	3332	Qty.	12
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Details Sand and vegetation accumulation 1' wide along both curbs blocking drain holes.

Item	Drift	Grade	P	Maint Code	3366	Qty.	144
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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



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 9.



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 2.



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 x 1.5' wide with a 1/32" 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.



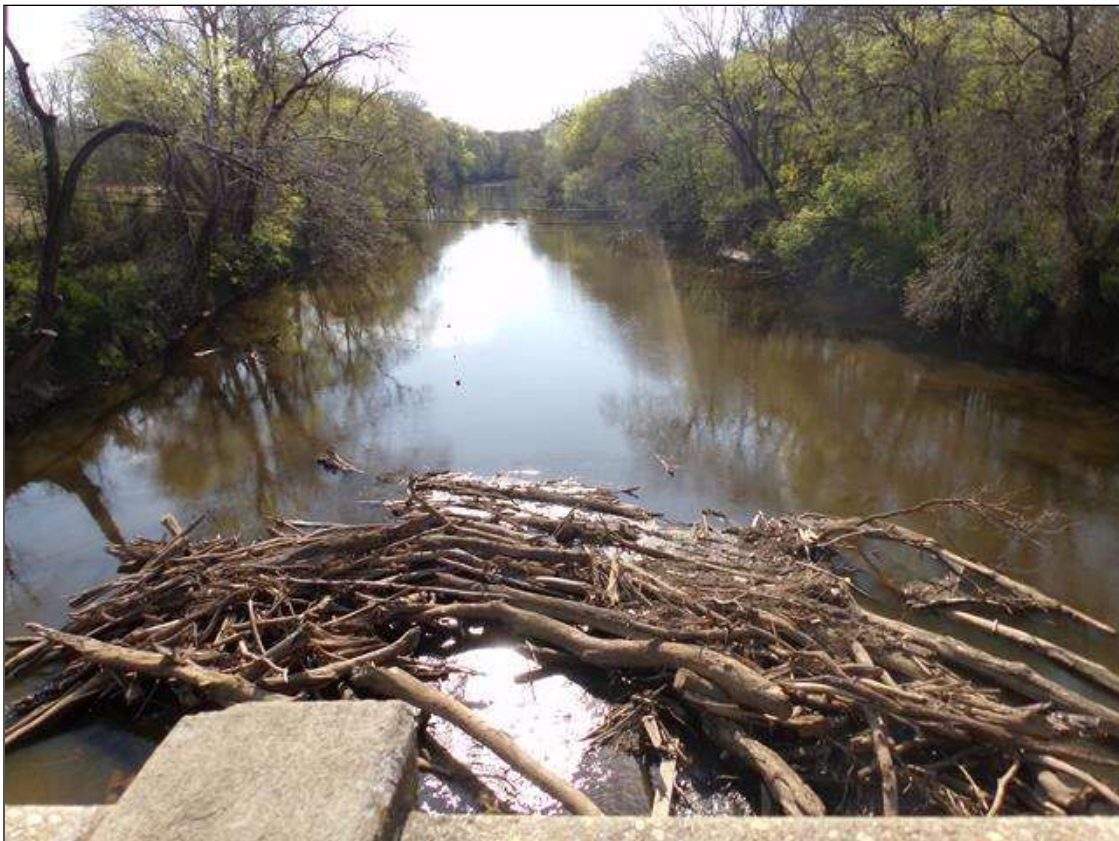
Pier 4, pier 9 similar



Pier 3, piers 1 and 2 similar



Pier 5, piers 6 thru 8 similar



Looking west upstream



Looking east downstream



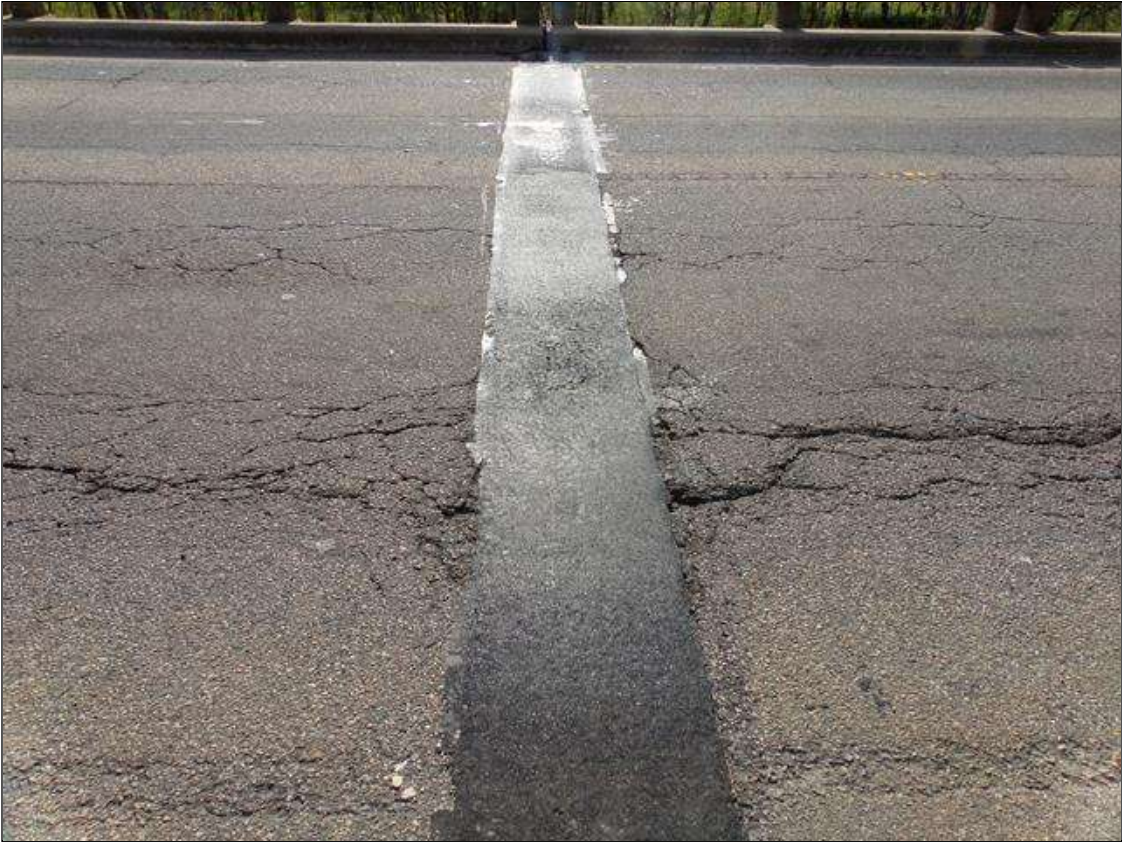
Looking south



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

Structure Number: 520010

Inspection Date 04/11/2018

Sounding recorded from: Top of Bridge Rail

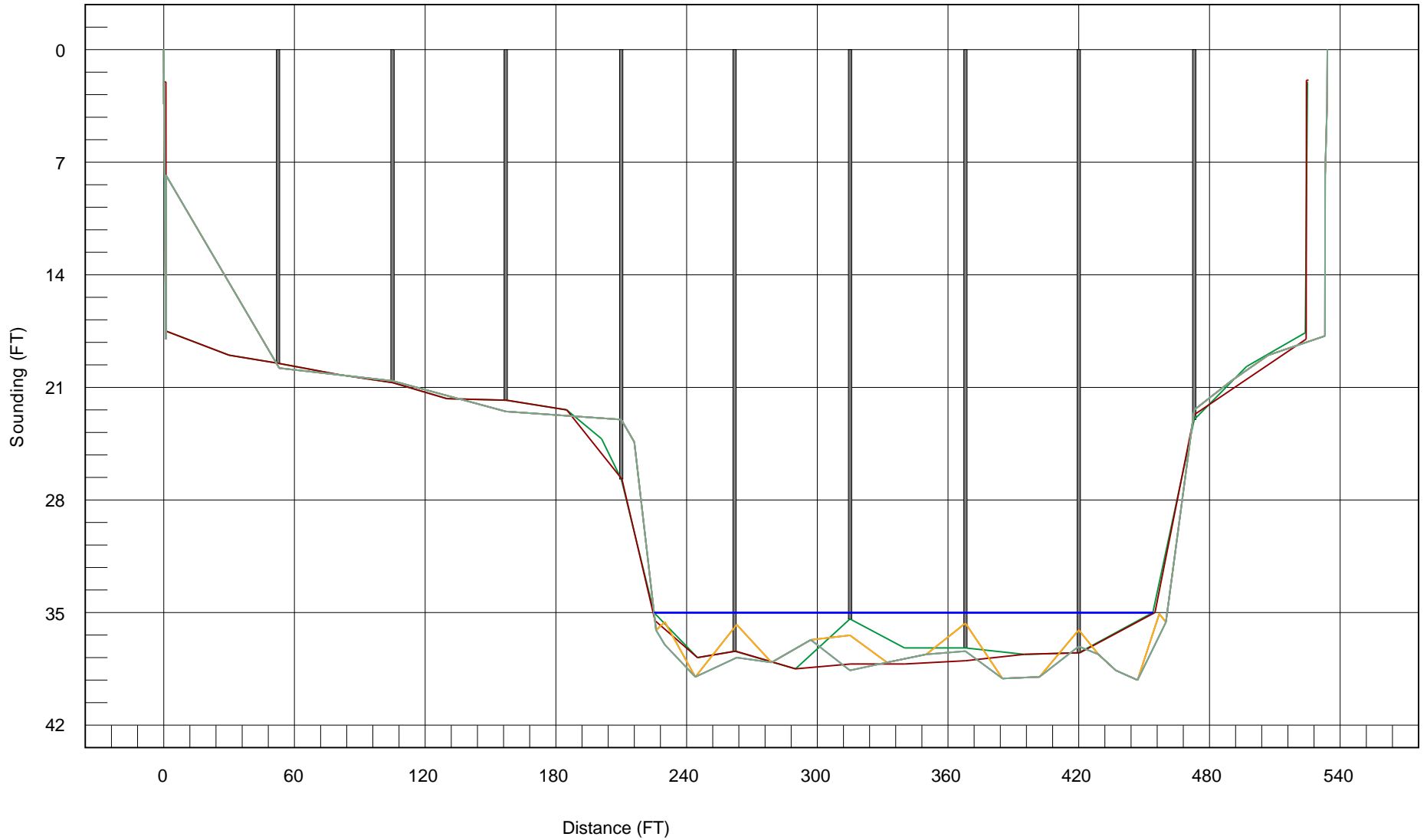
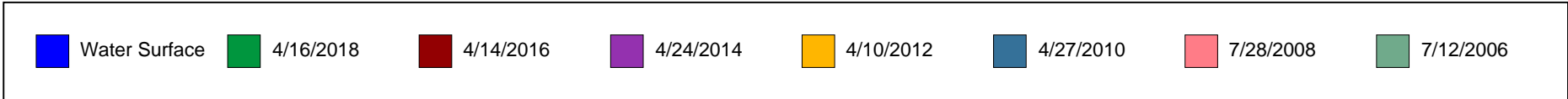
Highwater Mark Distance

Location of Highwater Mark

Distance (Station) ft.	Downstream Sounding ft.	Upstream 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

STREAMBED PROFILE (Downstream)

Top of Rail = 0FT (Sounding)

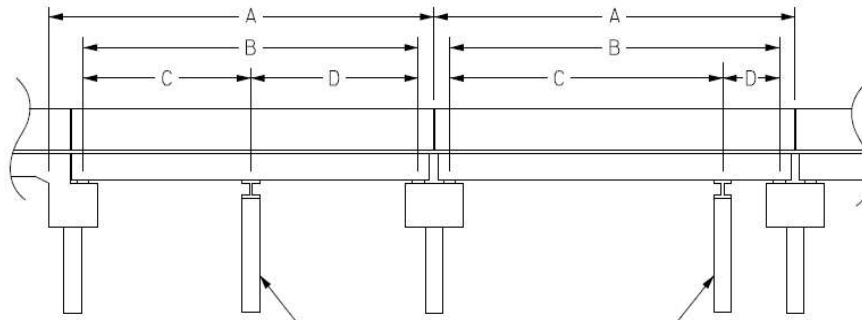


Structure Data Worksheet

Span Profile

County: LEE

Structure Number: 520010



A: SPAN LENGTH
 B: BEARING TO BEARING
 C: DISTANCE FROM NEAR BEARING
 D: DISTANCE TO FAR BEARING

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				CLASSIFICATION			
(1) STATE NAME -NORTH CAROLINA	BRIDGE	520010		SUFFICIENCY RATING =			66.72
(8) STRUCTURE NUMBER(FEDERAL)		000000001050010		STATUS =	Not Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		21000150					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		2					
(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		0
(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		0
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure		N
(16)LAT 35° 34' 42.28"	(17)LONG	79° 11' 38.97"		(102)DIRECTION OF TRAFFIC -	2-way Traffic		2
(98)BORDER BRIDGE STATE CODE		PCT SHARE		(103)TEMPORARY STRUCTURE -			
(99)BORDER BRIDGE STRUCTURE NO				(110)DESIGNATED NATIONAL NETWORK -	On the National Network		1
				(20) TOLL	On Free Road		3
				(31) MAINTAIN -	State Highway Agency		01
				(22) OWNER -	State Highway Agency		01
				(37) HISTORICAL SIGNIFICANCE -	Not Eligible		5
STRUCTURE TYPE AND MATERIAL				CONDITION			
(43) STRUCTURE TYPE MAIN: Concrete				(58) DECK			5
TYPE - Tee Beam		CODE	104	(59) SUPERSTRUCTURE			5
(44) STRUCTURE TYPE APPR :				(60) SUBSTRUCTURE			5
TYPE -		CODE	0	(61) CHANNEL & CHANNEL PROTECTION			5
(45) NUMBER OF SPANS IN MAIN UNIT			10	(62) CULVERTS			N
(46) NUMBER OF APPROACH SPANS			0				
(107)DECK STRUCTURE TYPE - 1		CODE		LOAD RATING AND POSTING			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(31) DESIGN LOAD	H 15		2
(A) TYPE OF WEARING SURFACE -		CODE		(63) OPERATING RATING METHOD -	Load Factor		1
(B) TYPE OF MEMBRANE -		CODE		(64) OPERATING RATING -	HS-44		79
(C) TYPE OF DECK PROTECTION -		CODE		(65) INVENTORY RATING METHOD -	Load Factor		1
				(66) INVENTORY RATING -	HS-26		47
				(70) BRIDGE POSTING -	No Posting Required		5
				(41) STRUCTURE OPEN, POSTED ,OR CLOSED			A
				DESCRIPTION -	Open, No Restriction		
AGE AND SERVICE				APPRAISAL			
(27) YEAR BUILT			1949	(67) STRUCTURAL EVALUATION			5
(106)YEAR RECONSTRUCTED			1960	(68) DECK GEOMETRY			4
(42) TYPE OF SERVICE : ON - Highway				(69) UNDERCLEARANCES,VERTI & HORIZ			N
UNDER - Waterway		CODE	15	(71) WATERWAY ADEQUACY			7
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE			0	(72) APPROACH ROADWAY ALIGNMENT			8
(29) AVERAGE DAILY TRAFFIC			7200	(36) TRAFFIC SAFETY FEATURES			0110
(30) YEAR OF ADT 2013	(109) TRUCK ADT PCT		8%	(113)SCOUR CRITICAL BRIDGES			U
(19) BYPASS OR DETOUR LENGTH			4 MI	PROPOSED IMPROVEMENTS			
GEOMETRIC DATA				(75) TYPE OF WORK -			CODE
(48) LENGTH OF MAXIMUM SPAN			51 FT	(76) LENGTH OF STRUCTURE IMPROVEMENT			
(49) STRUCTURE LENGTH			525 FT	(94) BRIDGE IMPROVEMENT COST			
(50)CURB OR SIDEWALK: LEFT 1.5835 FT RIGHT 1.5835 FT				(95) ROADWAY IMPROVEMENT COST			
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			28.083 FT	(96) TOTAL PROJECT COST			
(52) DECK WIDTH OUT TO OUT			31.5 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			27 FT	(114)FUTURE ADT 14400	(115) YEAR FUTURE ADT	2025	
(33) BRIDGE MEDIAN - No Median		CODE	0	INSPECTIONS			
(34) SKEW 0°	(35) STRUCTURE FLARED		0	(90) INSPECTION DATE			04/16/2018
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT	(92) CRITICAL FEATURE INSPECTION :			(93) CFI DATE
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			28.083 FT	A) FRACTURE CRIT DETAIL -	NO		A)
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9 FT	B) UNDERWATER INSP -	YES 48Mo		B) 06/22/2016
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad			0 FT	C) OTHER SPECIAL INSP	NO		C)
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad			000 FT	SCOUR			
(56) MIN LAT UNDERCLEAR LT REF -			000 FT	NAVIGATION DATA			
(38) NAVIGATION CONTROL - No Navigational Control		CODE	0	(99) NAVIGATION VERTICAL CLEARANCE			0
(111)PIER PROTECTION -		CODE		(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR			FT
(39) NAVIGATION VERTICAL CLEARANCE			0	(40) NAVIGATION HORIZONTAL CLEARANCE			0 FT
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR			FT				
(40) NAVIGATION HORIZONTAL CLEARANCE			0 FT				

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 08/09/2018

COUNTY : LEE DIVISION : 8 DISTRICT : 2 STRUCTURE NUMBER : 520010 LENGTH : 525 FEET

ROUTE CARRIED : US15/501,NC87 FEATURE INTERSECTED : DEEP RIVER

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

FUNC. CLASS : 06 SYST.ON : FA SYST.UNDER : NFA ADT & YR : 7200 2013 RAIL TYPE : LT 111 RT 141

BUILT : 1949 BY : SHPWC PROJ : 404-C FED.AID PROJ : F-179(3) DESIGN LOAD : H 15

REHAB : 1960 BY : SHC PROJ : 8.14043 ALIGNMENT : TAN SKEW : 90 LANES : ON 2 UNDER 0

NAVIGATION : VC 0 FT HC 0 FT HT. CRN. TO BED : 36 FT WATER DEPTH : 4 FT

SUPERSTRUCTURE : REINFORCED CONCRETE DECK GIRDERS

SUBSTRUCTURE : ABUTS:RC FULL HT, INT.BT#1-3:RC POST & BEAM, INT.BT#4&9:RC POST & WEB, INT.BT#5-8:RC SOLID 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 : 6 3/4"RC, 4"AWS ENCROACHMENT : 1 LN 8" GAS DECK (OUT TO OUT) : 31.5 FT

CLEAR ROADWAY : 28.083 FT BETWEEN RAILS : 31.25 FT SIDEWALK OR CURB : LT 1.5835 FT RT 1.5835 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-26 OPE.RTG. : HS-44 CONTR.MEMBER : RCDG POSTED : SV TTST DATE

SYSTEM : Primary U.S. Route GREEN LINE ROUTE : Y

UNDER ROUTES AND CLEARANCES

REMARKS :






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: 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.	
 3348	Maintain Concrete Substructure Components	LF	1	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.	
 3348	Maintain Concrete Substructure Components	LF	8	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.	
 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.	

Key

 Priority Maintenance Item

 Critical Finding Item

 Priority Maintenance Level Not Determined

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	Quantity
3306	Maintain Concrete Superstructure Components	5 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
04/14/2018	Ryan Fisher	
Details		
<p>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.</p>		

MMS Code	MMS Description	Quantity
3306	Maintain Concrete Superstructure Components	4 SF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
04/14/2018	Ryan Fisher	
Details		
<p>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.</p>		

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	Quantity
3348	Maintain Concrete Substructure Components	1 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
04/14/2018	Ryan Fisher	
Details		
<p>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.</p>		

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	8 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
04/14/2018	Ryan Fisher	
Details		
<p>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.</p>		

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

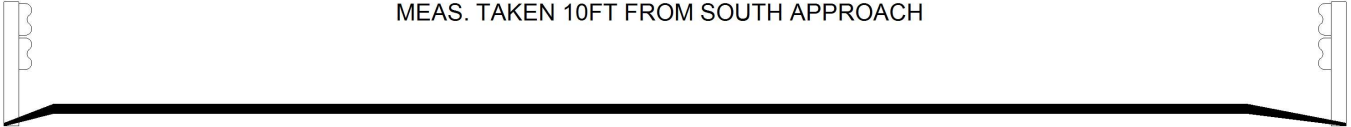
Bridge: 520010 County LEE

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

MMS Code	MMS Description	Quantity
3348	Maintain Concrete Substructure Components	1 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
04/14/2018	Ryan Fisher	
Details		
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 Inspection Field Sketch

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

APPROACH ROADWAY

Description

LOOKING NORTH

Bridge No: 520010

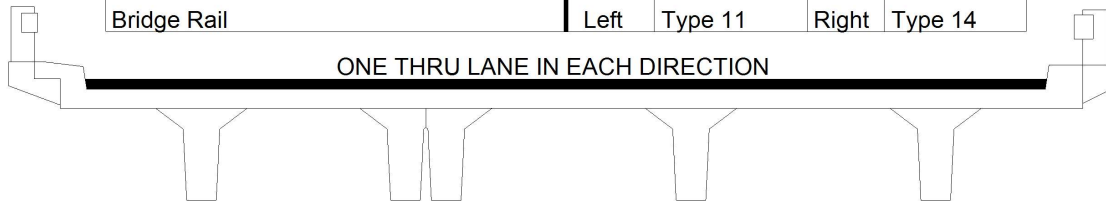
Drawn By: DCR

Date: 7/28/08

File Name: S0074001016

Bridge Inspection Field Sketch

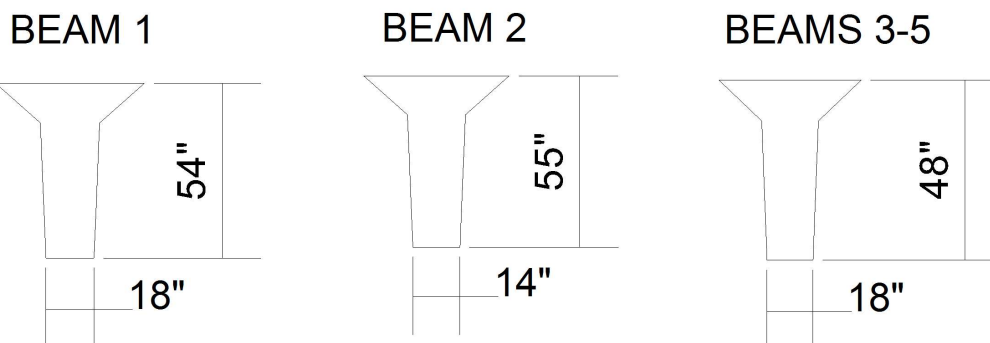
Deck Width/Out to Out	31.5ft	Between Rails	31.25ft
Clear Roadway	28.083ft	Wearing Surface	0.333ft
Median Width		Median Height	
Curb Height		Left	0.583ft
Sidewalk Width		Right	0.583ft
Clear Roadway (Rail to Median)		Left	
Guardrail Width		Right	
Top of Rail to Deck/Wearing Surface		Left	0.667ft
Bridge Rail		Right	0.667ft
		Left	2.333ft
		Right	2.333ft
		Left	Type 11
		Right	Type 14



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		

MEAS. VERIFIED 4/16/2018...RDF



Title

TYPICAL SECTION

Description

4 LINES OF RCDG'S

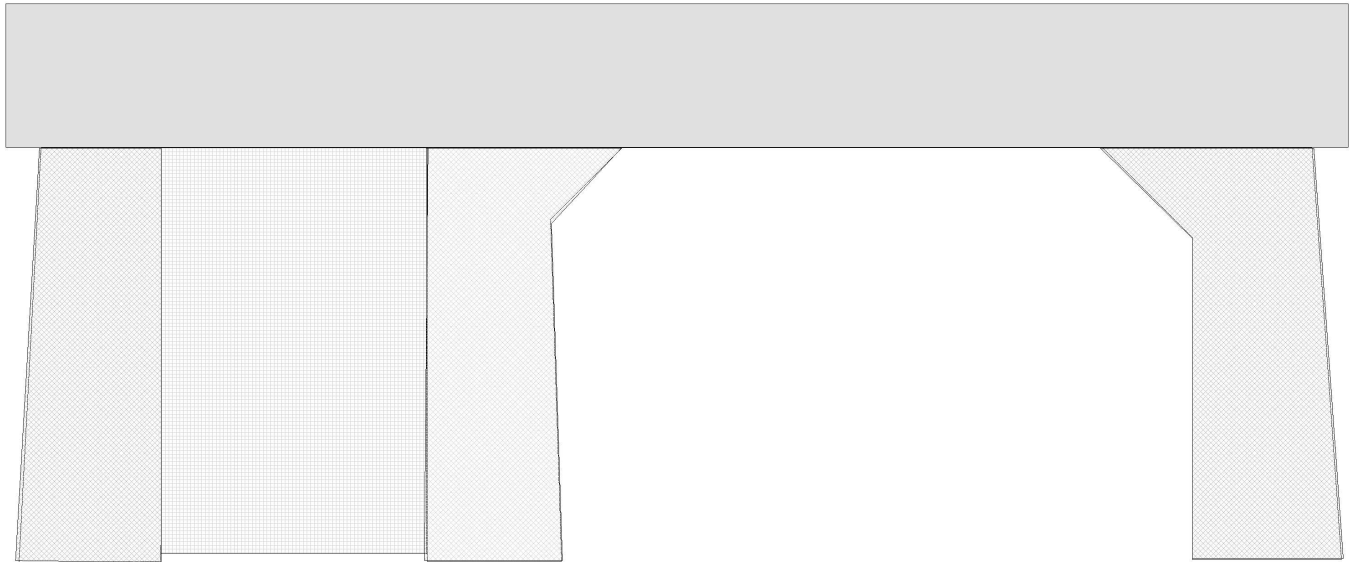
Bridge No: 520010

Drawn By: DCR

Date: 7/28/08

File Name: S0074001017

Bridge Inspection Field Sketch



Cap Information			Material Cast-in-Place Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
27.0 ft.	3.0 ft.	3.25 ft.	1.5 ft.	1.5 ft.	1.5 ft.	1.5 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	8 ft.	2.5 ft.	2.5 ft.		Vertical	No	No	No	No
2	Concrete	16 ft.	2.5 ft.	2.5 ft.		Vertical	No	No	No	No
3	Concrete		2.5 ft.	2.5 ft.		Vertical	No	No	No	No
Bent: 1			Similar Bents: 2 and 3							

MEAS. VERIFIED 4/16/2018...RDF

Title
BENT PROFILE

Description
BENTS 1 THRU 3

Bridge No: 520010

Drawn By: EC BLAKE

Date: 4/29/2010

File Name: S0070001479

Bridge Inspection Field Sketch



Cap Information			Material Cast-in-Place Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
27.0 ft.	3.0 ft.	3.25 ft.	1.5 ft.	1.5 ft.	1.5 ft.	1.5 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	8 ft.	2.5 ft.	2.5 ft.		Vertical	No	No	No	No
2	Concrete	16 ft.	2.5 ft.	2.5 ft.		Vertical	No	No	No	No
3	Concrete		2.5 ft.	2.5 ft.		Vertical	No	No	No	No
Bent: 4			Similar Bent: 9							

MEAS. VERIFIED 4/16/2018...RDF

Title
BENT PROFILE 1

Description
BENTS 4 AND 9

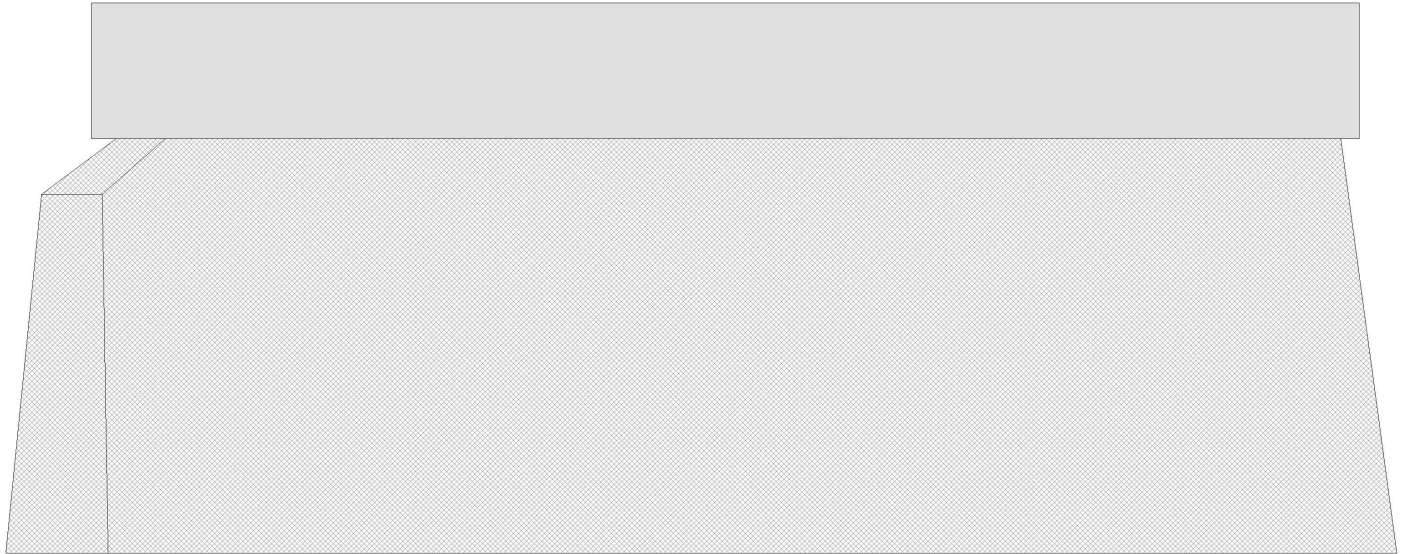
Bridge No: 520010

Drawn By: EC BLAKE

Date: 4/29/2010

File Name: S0070001480

Bridge Inspection Field Sketch



Cap Information			Material Cast-in-Place Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
31.67 ft.	3.0 ft.	3.0 ft.	N/A	N/A	6.25 ft.	1.5 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete		33.67 ft.	3 ft.		Vertical	No	No	No	No
Bent: 5			Similar Bents: 6 thru 8							

MEAS. VERIFIED 4/16/2018...RDF

Title
BENT PROFILE 2

Description
BENTS 5 THRU 8

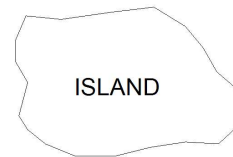
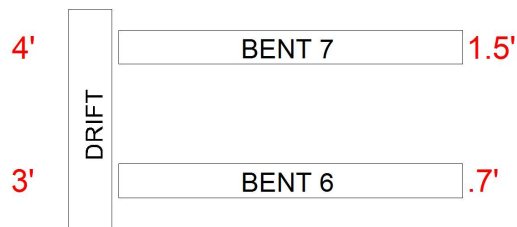
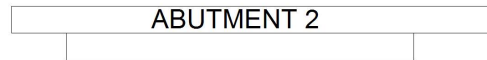
Bridge No: 520010

Drawn By: EC BLAKE

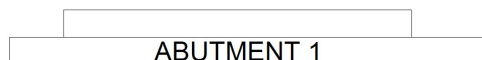
Date: 4/29/2010

File Name: S0070001481

Bridge Inspection Field Sketch



WATER SURFACE = 35.5', BT 6 E. SIDE
 BOTTOM PROBE: SAND, DRIFT 6"+-



Title
 PLAN VIEW

Description
 PLAN VIEW

Bridge No: 520010

Drawn By: JCB

Date: 6/21/2016

File Name: S0158000569

