NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: VERTICAL CLR. CHECKED

Structure Safety Report

Routine Element Inspection

COUNTY: GASTON **STRUCTURE NUMBER:** 350125 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: SR2278 **MILE POST:**

LOCATION: 1.4 MI. S. JCT. SR2275

FEATURE INTERSECTED: I85

LATITUDE: 35° 16' 56.24" **LONGITUDE:** 81° 11' 2.12"

SUPERSTRUCTURE: REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE: END BTS:RC CAPS ON PPC PILES,INT.BTS:RC POST & BEAM,PILE FTG

SPANS: 3@81''0, 1@41''6

☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

PRESENT CONDITION: Fair **INSPECTION DATE:** 10/07/2014

POSTED SV: Not Posted **POSTED TTST:** Not Posted

OTHER SIGNS PRESENT: 4 DELINEATORS

west approaxh

Sign noticed issued for		Number Required
NO	**WEIGHT LIMIT**	0
NO	**DELINEATORS**	0
NO	**NARROW BRIDGE**	0
NO	**ONE LANE BRIDGE**	0
NO	**LOW CLEARANCE**	0

INSPECTED BY	SIGNATURE	ASSISTED BY
DEREK RICKUS		ERIC PATTERSON

Span Element Report

Structure Number: 350125 Inspection Date: 10/07/2014

Span Number 1 **Span Length** 81 Feet **Number of Beams/Girders:** 6

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	3,274	1,274	2,000	0	0	2,000	3326
107		Steel Open Girder/Beam	486	456	30	0	0	30	3314
515	107	Steel Protective Coating	5472	5472	0	0	0	0	5603
215		Reinforced Concrete Abutment	47	47	0	0	0	0	3350
234		Reinforced Concrete Pier Cap	47	47	0	0	0	0	3348
300		Strip Seal Expansion Joint	0	0	0	0	0	0	3310
301		Pourable Joint Seal	0	0	0	0	0	0	3310
311		Movable Bearing	12	12	0	0	0	0	3334
313		Fixed Bearing	12	12	0	0	0	0	3334
515	313	Steel Protective Coating	8	8	0	0	0	0	5603
333		Other Bridge Railing	162	162	0	0	0	0	3318
510		Wearing Surface	0	0	0	0	0	0	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Span Number 2 **Span Length** 80.6667 Feet **Number of Beams/Girders:** 6

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	3,261	2,061	1,200	0	0	1,200	3326
107		Steel Open Girder/Beam	486	458	24	4	0	28	3314
515	107	Steel Protective Coating	5502	5502	0	0	0	0	5603
205		Reinforced Concrete Column	3	3	0	0	0	0	3348
215		Reinforced Concrete Abutment	44	44	0	0	0	0	3350
234		Reinforced Concrete Pier Cap	44	41	0	3	0	3	3348
301		Pourable Joint Seal	44	44	0	0	0	0	3310
302		Compression Joint Seal	44	44	0	0	0	0	3310
311		Movable Bearing	11	11	0	0	0	0	3334
313		Fixed Bearing	12	12	0	0	0	0	3334
515	313	Steel Protective Coating	12	12	0	0	0	0	5603
331		Reinforced Concrete Bridge Railing	81	81	0	0	0	0	3318
333		Other Bridge Railing	162	162	0	0	0	0	3318
510		Wearing Surface	0	0	0	0	0	0	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Span Number 3 **Span Length** 81 Feet **Number of Beams/Girders:** 6

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	3,274	1,774	1,500	0	0	1,500	3326
107		Steel Open Girder/Beam	486	450	36	0	0	36	3314
515	107	Steel Protective Coating	5502	5502	0	0	0	0	5603
205		Reinforced Concrete Column	3	3	0	0	0	0	3348
215		Reinforced Concrete Abutment	44	44	0	0	0	0	3350
234		Reinforced Concrete Pier Cap	44	44	0	0	0	0	3348
300		Strip Seal Expansion Joint	44	44	0	0	0	0	3310

301		Pourable Joint Seal	44	44	0	0	0	0	3310
311		Movable Bearing	12	12	0	0	0	0	3334
313		Fixed Bearing	12	12	0	0	0	0	3334
515	313	Steel Protective Coating	12	12	0	0	0	0	5603
333		Other Bridge Railing	162	162	0	0	0	0	3318
510		Wearing Surface	0	0	0	0	0	0	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Span Number 4 **Span Length** 41 Feet **Number of Beams/Girders:** 6

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	1,658	658	1,000	0	0	1,000	3326
107		Steel Open Girder/Beam	246	210	36	0	0	36	3314
515	107	Steel Protective Coating	2376	2376	0	0	0	0	5603
205		Reinforced Concrete Column	3	3	0	0	0	0	3348
215		Reinforced Concrete Abutment	47	47	0	0	0	0	3350
234		Reinforced Concrete Pier Cap	91	90	1	0	0	1	3348
301		Pourable Joint Seal	44	44	0	0	0	0	3310
311		Movable Bearing	12	12	0	0	0	0	3334
313		Fixed Bearing	12	12	0	0	0	0	3334
515	313	Steel Protective Coating	12	12	0	0	0	0	5603
333		Other Bridge Railing	82	82	0	0	0	0	3318
510		Wearing Surface	0	0	0	0	0	0	2816

"Near" Approach and Substructure quantities have been include for reporting purposes. The last span will also include End Bent 2 and Far Approach quantities where applicable

Superstructure Detailed Element Quantites

Structure Number: 350125

Inspection Date: 10/07/2014

Structure Number: 350125 Inspection Date: 10/07/2014

Span Number 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Deck	1	12	Reinforced Concrete Deck	3274	1274	2000	0	0	2000	3326	☐ Requested
☑ Bridge Rail	1	333	Other Bridge Railing	81	81	0	0	0	0	3318	☐ Requested
☑ Bridge Rail	2	333	Other Bridge Railing	81	81	0	0	0	0	3318	☐ Requested
☑ Wearing Surfaces		510	Wearing Surface	0	0	0	0	0	0	2816	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	81	75	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	912	912	0	0	0	0	5603	
☑ Beam	2	107	Steel Open Girder/Beam	81	75	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	912	912	0	0	0	0	5603	
☑ Beam	3	107	Steel Open Girder/Beam	81	75	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	912	912	0	0	0	0	5603	
☑ Beam	4	107	Steel Open Girder/Beam	81	75	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	912	912	0	0	0	0	5603	
☑ Beam	5	107	Steel Open Girder/Beam	81	75	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	912	912	0	0	0	0	5603	
☑ Beam	6	107	Steel Open Girder/Beam	81	81	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	912	912	0	0	0	0	5603	
☐ Bearing Device	1	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	1	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	0	0	0	0	0	0	5603	
☐ Bearing Device	1	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	1	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	0	0	0	0	0	0	5603	
☐ Bearing Device	2	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	2	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	0	0	0	0	0	0	5603	
☐ Bearing Device	2	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	2	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	0	0	0	0	0	0	5603	
☐ Bearing Device	3	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	3	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	

Structure Number: 350125 Inspection Date: 10/07/2014

Span Number 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☐ Bearing Device	3	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	3	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	4	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	4	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	4	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	4	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	5	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	5	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	5	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	5	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	6	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	6	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	6	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	6	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Expansion Joints	1	300	Strip Seal Expansion Joint	0	0	0	0	0	0	3310	☐ Requested
☐ Expansion Joints	1	301	Pourable Joint Seal	0	0	0	0	0	0	3310	☐ Requested

Structure Number: 350125 Inspection Date: 10/07/2014

Span Number 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Deck	1	12	Reinforced Concrete Deck	3261	2061	1200	0	0	1200	3326	☐ Requested
☑ Bridge Rail	1	333	Other Bridge Railing	81	81	0	0	0	0	3318	☐ Requested
☐ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	81	81	0	0	0	0	3318	☐ Requested
☑ Bridge Rail	2	333	Other Bridge Railing	81	81	0	0	0	0	3318	☐ Requested
☑ Wearing Surfaces		510	Wearing Surface	0	0	0	0	0	0	2816	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	81	75	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	917	917	0	0	0	0	5603	
☑ Beam	2	107	Steel Open Girder/Beam	81	81	0	0	0	0	3314	☐ Requested
Protective System		515	Steel Protective Coating	917	917	0	0	0	0	5603	
☑ Beam	3	107	Steel Open Girder/Beam	81	77	0	4	0	4	3314	☐ Requested
Protective System		515	Steel Protective Coating	917	917	0	0	0	0	5603	
☑ Beam	4	107	Steel Open Girder/Beam	81	75	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	917	917	0	0	0	0	5603	
☑ Beam	5	107	Steel Open Girder/Beam	81	75	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	917	917	0	0	0	0	5603	
☑ Beam	6	107	Steel Open Girder/Beam	81	75	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	917	917	0	0	0	0	5603	
☐ Bearing Device	1	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	1	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	1	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	1	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	2	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	2	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	2	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	2	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	3	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested

Structure Number: 350125 Inspection Date: 10/07/2014

Span Number 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Bearing Device	3	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	3	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	3	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	4	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	4	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	4	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	4	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	5	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	5	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	5	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	5	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	6	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	6	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☑ Bearing Device	6	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Expansion Joints	1	301	Pourable Joint Seal	44	44	0	0	0	0	3310	☐ Requested
☑ Expansion Joints	1	302	Compression Joint Seal	44	44	0	0	0	0	3310	☐ Requested

Structure Number: 350125 Inspection Date: 10/07/2014

Span Number 3

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Deck	1	12	Reinforced Concrete Deck	3274	1774	1500	0	0	1500	3326	☐ Requested
☑ Bridge Rail	1	333	Other Bridge Railing	81	81	0	0	0	0	3318	☐ Requested
☑ Bridge Rail	2	333	Other Bridge Railing	81	81	0	0	0	0	3318	☐ Requested
☑ Wearing Surfaces		510	Wearing Surface	0	0	0	0	0	0	2816	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	81	75	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	917	917	0	0	0	0	5603	
☑ Beam	2	107	Steel Open Girder/Beam	81	75	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	917	917	0	0	0	0	5603	
☑ Beam	3	107	Steel Open Girder/Beam	81	75	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	917	917	0	0	0	0	5603	
☑ Beam	4	107	Steel Open Girder/Beam	81	75	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	917	917	0	0	0	0	5603	
☑ Beam	5	107	Steel Open Girder/Beam	81	75	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	917	917	0	0	0	0	5603	
☑ Beam	6	107	Steel Open Girder/Beam	81	75	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	917	917	0	0	0	0	5603	
☐ Bearing Device	1	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	1	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	1	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	1	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	2	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	2	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	2	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	2	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	3	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	3	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	

Structure Number: 350125 Inspection Date: 10/07/2014

Span Number 3

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☐ Bearing Device	3	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	3	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	4	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	4	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	4	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	4	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	5	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	5	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	5	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	5	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	6	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	6	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	6	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	6	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☑ Expansion Joints	1	300	Strip Seal Expansion Joint	44	44	0	0	0	0	3310	☐ Requested
☐ Expansion Joints	1	301	Pourable Joint Seal	44	44	0	0	0	0	3310	☐ Requested

Structure Number: 350125 Inspection Date: 10/07/2014

Span Number 4

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Deck	1	12	Reinforced Concrete Deck	1658	658	1000	0	0	1000	3326	☐ Requested
☑ Bridge Rail	1	333	Other Bridge Railing	41	41	0	0	0	0	3318	☐ Requested
☑ Bridge Rail	2	333	Other Bridge Railing	41	41	0	0	0	0	3318	☐ Requested
☑ Wearing Surfaces		510	Wearing Surface	0	0	0	0	0	0	2816	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	41	35	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	396	396	0	0	0	0	5603	
☑ Beam	2	107	Steel Open Girder/Beam	41	35	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	396	396	0	0	0	0	5603	
☑ Beam	3	107	Steel Open Girder/Beam	41	35	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	396	396	0	0	0	0	5603	
☑ Beam	4	107	Steel Open Girder/Beam	41	35	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	396	396	0	0	0	0	5603	
☑ Beam	5	107	Steel Open Girder/Beam	41	35	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	396	396	0	0	0	0	5603	
☑ Beam	6	107	Steel Open Girder/Beam	41	35	6	0	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	396	396	0	0	0	0	5603	
☐ Bearing Device	1	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	1	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	1	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	1	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	2	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	2	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	2	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	2	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	3	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	3	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	

Structure Number: 350125 Inspection Date: 10/07/2014

Span Number 4

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☐ Bearing Device	3	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	3	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	4	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	4	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	4	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	4	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	5	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	5	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	5	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	5	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	6	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	6	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☐ Bearing Device	6	311	Movable Bearing	1	1	0	0	0	0	3334	☐ Requested
☑ Bearing Device	6	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	5603	
☑ Expansion Joints	1	300	Strip Seal Expansion Joint	44	44	0	0	0	0	3310	☐ Requested
☐ Expansion Joints	1	301	Pourable Joint Seal	44	44	0	0	0	0	3310	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 350125 Inspection Date: 10/07/2014

Span Number 1

Span 1 **Deck** 1 **Component Name:** Reinforced Concrete Deck

Element: 12 **Name** Reinforced Concrete Deck **Qty:** 3274 **Lvl 2:** 2,000 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 2,000

Defect Description:

1000 Square Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound.
1000 Square Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. several patches in the lt. lane of span ranginging from 1' x 2' to 6' x 10'.

Span 1 **Beam** 1 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 81 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.
PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 1 **Beam** 2 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 81 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 1 **Beam** 3 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 81 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 1 **Beam** 4 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 81 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 1 **Beam** 5 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 81 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.

Span 1 **Bearing Device** 6 **Component Name:** Fixed Bearing

Element: 313 **Name** Fixed Bearing **Qty:** 1 **Lvl 2:** 0 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 0

Defect Description:

bearings painted
1 Each of Corrosion: None. bearing painted

Span Number 2

Span 2 **Deck** 1 **Component Name:** Reinforced Concrete Deck

Element: 12 **Name** Reinforced Concrete Deck **Qty:** 3261 **Lvl 2:** 1,200 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1,200

Defect Description:

20 Square Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound.. 5' l x 4' wide aspahlt patch in the rt. lane
1000 Square Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound.
180 Square Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. a 20'l x 6' wide aspahlt patch in the lt. lane of span 2.

Span 2 **Beam** 1 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 81 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 2 **Beam** 3 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 81 **Lvl 2:** 0 **Lvl 3** 4 **Lvl 4** 0 **Maint. Qty** 4

Defect Description:

beam painted

Span 2 **Beam** 4 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 81 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 2 **Beam** 5 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 81 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 2 **Beam** 6 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 81 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span Number 3

Span 3 **Deck** 1 **Component Name:** Reinforced Concrete Deck

Element: 12 **Name** Reinforced Concrete Deck **Qty:** 3274 **Lvl 2:** 1,500 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1,500

Defect Description:

1500 Square Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound.

Span 3 **Beam** 1 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 81 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 3 **Beam** 2 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 81 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 3 **Beam** 3 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 81 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 3 **Beam** 4 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 81 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 3 **Beam** 5 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 81 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 3 **Beam** 6 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 81 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span Number 4

Span 4 **Deck** 1 **Component Name:** Reinforced Concrete Deck

Element: 12 **Name** Reinforced Concrete Deck **Qty:** 1658 **Lvl 2:** 1,000 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1,000

Defect Description:

1000 Square Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound.

Span 4 **Beam** 1 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 41 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 4 **Beam** 2 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 41 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 4 **Beam** 3 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 41 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 4 **Beam** 4 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 41 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 4 **Beam** 5 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 41 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Span 4 **Beam** 6 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 41 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.PITTING 1/16" TO 1/8" UNDER THE NEW PAINT.

Substructure Detailed Element Quantites

Structure Number: 350125 Inspection Date: 10/07/2014

End Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Abutments	1	215	Reinforced Concrete Abutment	47	47	0	0	0	0	3350	☐ Requested
☑ Caps	1	234	Reinforced Concrete Pier Cap	47	47	0	0	0	0	3348	☐ Requested

Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Caps	1	234	Reinforced Concrete Pier Cap	44	41	0	3	0	3	3348	☐ Requested
☑ Piles and Columns	1	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☑ Piles and Columns	2	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☑ Piles and Columns	3	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested

Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Caps	1	234	Reinforced Concrete Pier Cap	44	44	0	0	0	0	3348	☐ Requested
☑ Piles and Columns	1	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☑ Piles and Columns	2	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☑ Piles and Columns	3	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested

Bent 3

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Caps	1	234	Reinforced Concrete Pier Cap	44	43	1	0	0	1	3348	☐ Requested
☑ Piles and Columns	1	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☑ Piles and Columns	2	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☑ Piles and Columns	3	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested

Structure Number: 350125 Inspection Date: 10/07/2014

End Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☑ Abutments	1	215	Reinforced Concrete Abutment	47	47	0	0	0	0	3350	☐ Requested
☑ Caps	1	234	Reinforced Concrete Pier Cap	47	47	0	0	0	0	3348	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 350125 Inspection Date: 10/07/2014

Bent 1

Bent 1	**Row** 1	**Caps** 1									
Element: 234	**Name**	Reinforced Concrete Pier Cap	**Qty:**	44	**Lvl 2:**	0	**Lvl 3**	3	**Lvl 4**	0	**Maint. Qty**	3

Defect Description:

3 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. west face bent 1

Bent 3	**Row** 1	**Caps** 1									
Element: 234	**Name**	Reinforced Concrete Pier Cap	**Qty:**	44	**Lvl 2:**	1	**Lvl 3**	0	**Lvl 4**	0	**Maint. Qty**	1

Defect Description:

1 Feet of Exposed Rebar: Present without measurable section loss. 6" diam. spall on the east face of cap under girder 2.

National Bridge and NC Inspection Items

Structure Number: 350125 **Inspection Date:** 10/07/2014

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	**6**
Item 59: Superstructure	0 - 9 , N	**7**
Item 60: Substructure	0 - 9 , N	**6**
Item 61: Channel and Channel Protection	0 - 9 , N	
Item 62: Culvert	0 - 9 , N	
Item 71: Waterway Adequacy	0 - 9 , N	
Item 72: Approach Roadway Alignment	0 - 9 , N	**7**

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	**G**	**0**	**3376**
Drainage System	G, F, P, or C	**G**	**0**	**3332**
Utilities	G, F, P, or C	**G**		
Slope Protection	G, F, P, or C	**G**	**0**	**3352**
Wingwall	G, F, P, or C			
Scour	G, F, P, or C			
Field Scour Evaluation				
Drift	G, F, P, or C		**0**	**3366**
Fender System	G, F, P, or C			
Response to Live Load	G, F, P, or C	**7**		
Estimated Remaining Life	0 - 100 Years	**20**		

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

Inspection Information

Item	Grade Scale	Grade
Regulatory Sign Noticed Issued	YES/NO	**N**
Priority Maintenance Request Submitted	YES/NO	**N**
Inspection Time	Hours	**8**
Traffic Control Time	Hours	
Snooper Time	Hours	
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: 350125 **Inspection Date:** 10/07/2014

Item	Deck - Item 58	**Grade** 6	**Maint Code**	**Qty.** 0	
Details	COARSED WITH TRANS. AND MAP CRACKING AND SEVERAL ASPAHLT PATCHES IN SPANS 1 AND 2.				
Item	Superstructure - Item 59	**Grade** 7	**Maint Code**	**Qty.** 0	
Details	beams, bearing and diaphs. painted recently				
Item	Approach Roadway Alignment - Item 72	**Grade** 7	**Maint Code**	**Qty.** 0	
Details	APPROACHES TAR SEALED WITH CRACKING AND SETTLEMENT.				

Span 2 Beam 3:

Bent 3 Cap : 1 Feet of Exposed Rebar: Present without measurable section loss. 6" diam. spall on the east face of cap under girder 2.

beams, bearing and diaphs. painted recently

Span 4 Deck: 1000 Square Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound.

Span 3 Deck: 1500 Square Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound.

Span 2 Deck: 20 Square Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound.. 5' l x 4' wide aspahlt patch in the rt. lane

Span 2 Deck: 1000 Square Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound.

Span 2 Deck: 180 Square Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. a 20'l x 6' wide aspahlt patch in the lt. lane of span 2.

Span 1 Deck: 1000 Square Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound.

Span 1 Deck: 1000 Square Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound. several patches in the lt. lane of span ranginging from 1' x 2' to 6' x 10'.

Span 1 Beam 6 Near Bearing : 1 Each of Corrosion: None. bearing painted

Bent 1 Cap : 3 Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. west face bent 1

bent 2

bent 3

abut 2

utility in bay 1

guardrail end at the sw and ne corners

east approach

guardrail at the bridge for the ne and sw corners

infor. plate at the ne corner

guardrail looking east

guardrail looking west

infor. plate at the sw corner

west approaxh

utility under bay 5

gas line infor.

abut. 1

bent 1

looking north

looking south

NATIONAL BRIDGE INVENTORY-------- STRUCTURE INVENTORY AND APPRAISAL Run Date: 01/07/2015

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE **350125**
(8) STRUCTURE NUMBER(FEDERAL) 000000000710125
(5) INVENTORY ROUTE (ON/UNDER) - ON 31022780
(2) STATE HIGHWAY DEPARTMENT DISTRICT 1
(3) COUNTY CODE 71 (4) PLACE CODE 25580
(6) FEATURE INTERSECTED - I85
(7) FACILITY CARRIED SR2278
(9) LOCATION 1.4 MI. S. JCT. SR2275
(11)MILEPOINT 0
(16)LAT 35° 16' 56.24" (17)LONG 81° 11' 2.12"
(98)BORDER BRIDGE STATE CODE PCT SHARE
(99)BORDER BRIDGE STRUCTURE NO

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN: Steel
TYPE - Stringer Mutlibeam or Girder CODE 302
(44) STRUCTURE TYPE APPR :
TYPE - CODE 000
(45) NUMBER OF SPANS IN MAIN UNIT 4
(46) NUMBER OF APPROACH SPANS
(107)DECK STRUCTURE TYPE - 1 CODE
(108)WEARING SURFACE / PROTECTIVE SYSTEM :
(A) TYPE OF WEARING SURFACE - CODE
(B) TYPE OF MEMBRANE - CODE
(C) TYPE OF DECK PROTECTION - CODE

AGE AND SERVICE

(27) YEAR BUILT 1963
(106)YEAR RECONSTRUCTED
(42) TYPE OF SERVICE : ON - Highway - Pedestrian
UNDER - Highway CODE 51
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 6
(29) AVERAGE DAILY TRAFFIC 5700
(30) YEAR OF ADT 2012 (109) TRUCK ADT PCT 6%
(19) BYPASS OR DETOUR LENGTH 1 MI

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 80 FT
(49) STRUCTURE LENGTH 285 FT
(50)CURB OR SIDEWALK: LEFT 5.1 FT RIGHT 5.1 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 28 FT
(52) DECK WIDTH OUT TO OUT 40.5 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 23 FT
(33) BRIDGE MEDIAN - No Median CODE 0
(34) SKEW 29° (35) STRUCTURE FLARED 0
(10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 28 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
(54) MIN VERT UNDERCLEAR REF Highway 20.5 FT
(55) MIN LAT UNDERCLEAR RT REF Highway 20.5 FT
(56) MIN LAT UNDERCLEAR LT REF - 7.167 FT

NAVIGATION DATA

(38) NAVIGATION CONTROL - Not Applicable CODE N
(111)PIER PROTECTION - CODE
(39) NAVIGATION VERTICAL CLEARANCE 0
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR FT
(40) NAVIGATION HORIZONTAL CLEARANCE 0 FT

SUFFICIENCY RATING = 80.47
STATUS = Not Deficient

CLASSIFICATION — CODE

(112)NBIS BRIDGE SYSTEM - YES
(104)HIGHWAY SYSTEM Is not on NHS 0
(26) FUNCTIONAL CLASS - Minor Arterial 16
(100)STRAHNET HIGHWAY - Not a STRAHNET Route 0
(101)PARALLEL STRUCTURE - No Parallel Structure N
(102)DIRECTION OF TRAFFIC - 2-way Traffic 2
(103)TEMPORARY STRUCTURE -
(110)DESIGNATED NATIONAL NETWORK - Not on the National Network 0
(20) TOLL On Free Road 3
(31) MAINTAIN - State Highway Agency 01
(22) OWNER - State Highway Agency 01
(37) HISTORICAL SIGNIFICANCE - Not Eligible 5

CONDITION — CODE

(58) DECK 6
(59) SUPERSTRUCTURE 7
(60) SUBSTRUCTURE 6
(61) CHANNEL & CHANNEL PROTECTION N
(62) CULVERTS N

LOAD RATING AND POSTING — CODE

(31) DESIGN LOAD HS 20 + MOD 6
(63) OPERATING RATING METHOD - Load Factor 1
(64) OPERATING RATING - HS-41 74
(65) INVENTORY RATING METHOD - Load Factor 1
(66) INVENTORY RATING - HS-24 44
(70) BRIDGE POSTING - No Posting Required 5
(41) STRUCTURE OPEN, POSTED ,OR CLOSED A
DESCRIPTION - Open, No Restriction

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION 6
(68) DECK GEOMETRY 4
(69) UNDERCLEARANCES,VERTI & HORIZ 6
(71) WATERWAY ADEQUACY N
(72) APPROACH ROADWAY ALIGNMENT 7
(36) TRAFFIC SAFETY FEATURES 0010
(113)SCOUR CRITICAL BRIDGES N

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK - CODE
(76) LENGTH OF STRUCTURE IMPROVEMENT
(94) BRIDGE IMPROVEMENT COST
(95) ROADWAY IMPROVEMENT COST
(96) TOTAL PROJECT COST
(97) YEAR OF IMPROVEMENT COST ESTIMATE
(114)FUTURE ADT 11400 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 10/07/2014
(92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
A) FRACTURE CRIT DETAIL - NO A)
B) UNDERWATER INSP - NO B)
C) OTHER SPECIAL INSP NO C)
SCOUR

Structure No: 350125 County: GASTON Run Date:

Span Number	Feature Intersected	Inventory Route	Minimum Maximum Vertical Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Numer of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note 1					STRAHNET Highway Designator	Direction of Traffic	Highway System of Route
													Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade			
	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
2	I85 N	11000850	19.5	17.40	1	10085		11	3	50000	2013	65	H	16.5	23	6	9	1	1	1
3	I 85 S	11000850	23.08	17.40	1	10085		11	3	50000	2013	63.67	H	20.5	20.5	7.17	9	1	1	1

Note 1: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69. The under route that generates the lowest Underclearance Appraisal value will be reported on the Facility Carried record.

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 01/07/2015

COUNTY : GASTON
DIVISION : 12
DISTRICT: 1
STRUCTURE NUMBER : 350125
LENGTH : 285 FEET

ROUTE CARRIED : SR2278
FEATURE INTERSECTED : I85

LOCATED : 1.4 MI. S. JCT. SR2275
BRIDGE NAME :
CITY : GASTONIA

FUNC. CLASS : 16
SYST.ON : FA
SYST.UNDER : NFA
ADT & YR : 5700 2012
RAIL TYPE : LT 139 RT 139

BUILT : 1963
BY : SHC
PROJ : 8.16361
FED.AID PROJ : I-85-1(14)18
DESIGN LOAD : HS 20 + MOD

REHAB :
BY :
PROJ :
ALIGNMENT : TAN
SKEW : 119
LANES : ON 2 UNDER 6

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

SUPERSTRUCTURE : REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE : E.BTS:RC CAPS/PPC PILES;INT.BTS:RC POST & BEAM/PILE FTG.

SPANS : 3 @ 81', 1 @ 41'-6

BEAMS OR GIRDERS : 6 LINES 36" I-BEAMS @ 7' CENTERS

FLOOR : 7.5 RC/ NO AWS
ENCROACHMENT : Utility Line
DECK (OUT TO OUT) : 40.5 FT

CLEAR ROADWAY : 28 FT
BETWEEN RAILS : 38.25 FT
SIDEWALK OR CURB : LT 5.1 FT RT 5.1 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-24
OPE.RTG. : HS-41
CONTR.MEMBER : Int.bmsSpD
POSTED : SV TTST DATE

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

UNDER ROUTES AND CLEARANCES

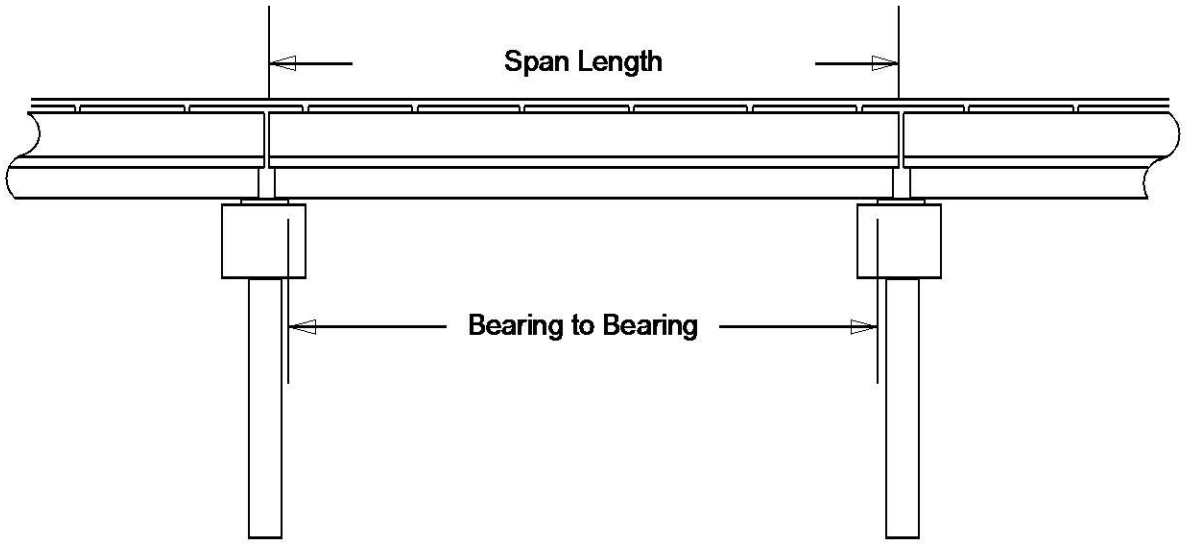
		Vertical Clearances		Horizontal Clearances		
Span	**Route Description**	**MMVC**	**MVC**	**Total**	**Left**	**Right**
2	I85 N	19.50	16.50	65	6	23
3	I 85 S	23.0830	20.50	63.6670	7.1670	20.50

Note: All measurements are in feet.

REMARKS :

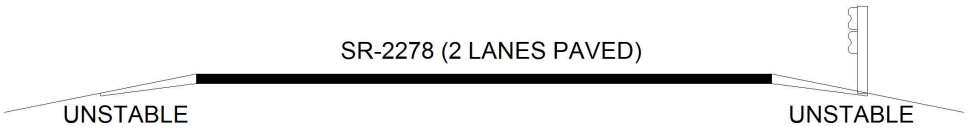
Structure Data Worksheet

County: GASTON **Structure No:** 350125 **Date:** **Inspected By:** DCR



Span No	Span Length	Bearing to Bearing	Comments
1	41' 6"	38' 6"	
2	81' 0"	79' 6"	
3	81' 0"	79' 6"	
4	81' 0"	78' 6"	NBIS = 281.5'

Bridge Inspection Field Sketch



SECTION @ 50' FROM SOUTH FILLFACE

Roadway	22.833ft Wide	2 Paved Lanes	Looking North
Left Shoulder	11ft Wide		11ft Unpaved
Right Shoulder	8.333ft Wide		8.333ft Unpaved
Left Guardrail			
Right Guardrail	8.333ft from road		

VERIFIED BY ERIC PATTERSON ON 10-7-2014

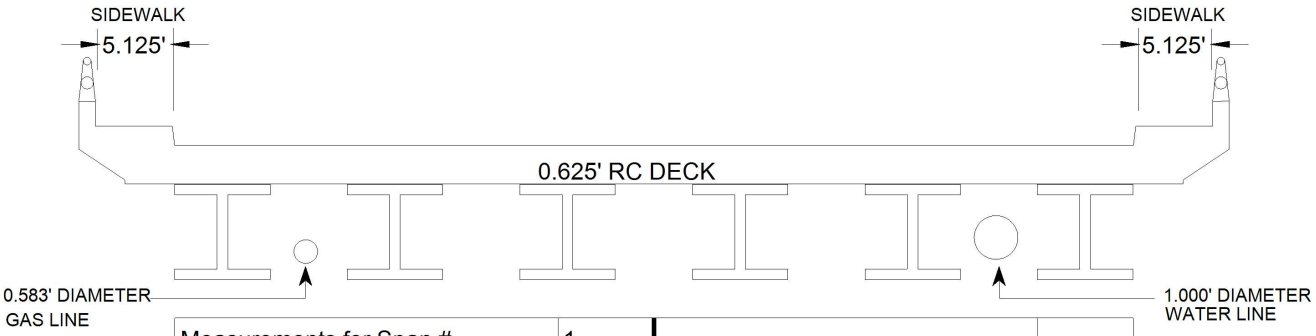
Title	**Description**		
APPROACH ROADWAY	LOOKING NORTH		
Bridge No: 350125	**Drawn By:** DJA	**Date:** 9/4/2008	**File Name:** S0146030616

Bridge Inspection Field Sketch

SECTION LOOKING NORTH

RAIL TYPE : 13

Deck Width/Out to Out	40.5ft	Wearing Surface	
Between Rails	38.25ft	Median Width	
Curb Height	0.917ft	Median Height	
Top Rail to Deck/Wearing Surface	3.167ft	Left Guardrail Width	
Clear Roadway	28ft	Right Guardrail Width	
Left Bridge Rail	Type 13	Right Bridge Rail	Type 13



Measurements for Span #	1		
Deck Thickness	0.625	Left Overhang	2.75
Top of Rail to Bottom of Beam	7.833	Right Overhang	2.75

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	7.000 ft.	
2	Steel I Beam	7.000 ft.	
3	Steel I Beam	7.000 ft.	
4	Steel I Beam	7.000 ft.	
5	Steel I Beam	7.000 ft.	
6	Steel I Beam		

GIRDERS

SPANS #1, 2 & 3 HAVE W36 X 230

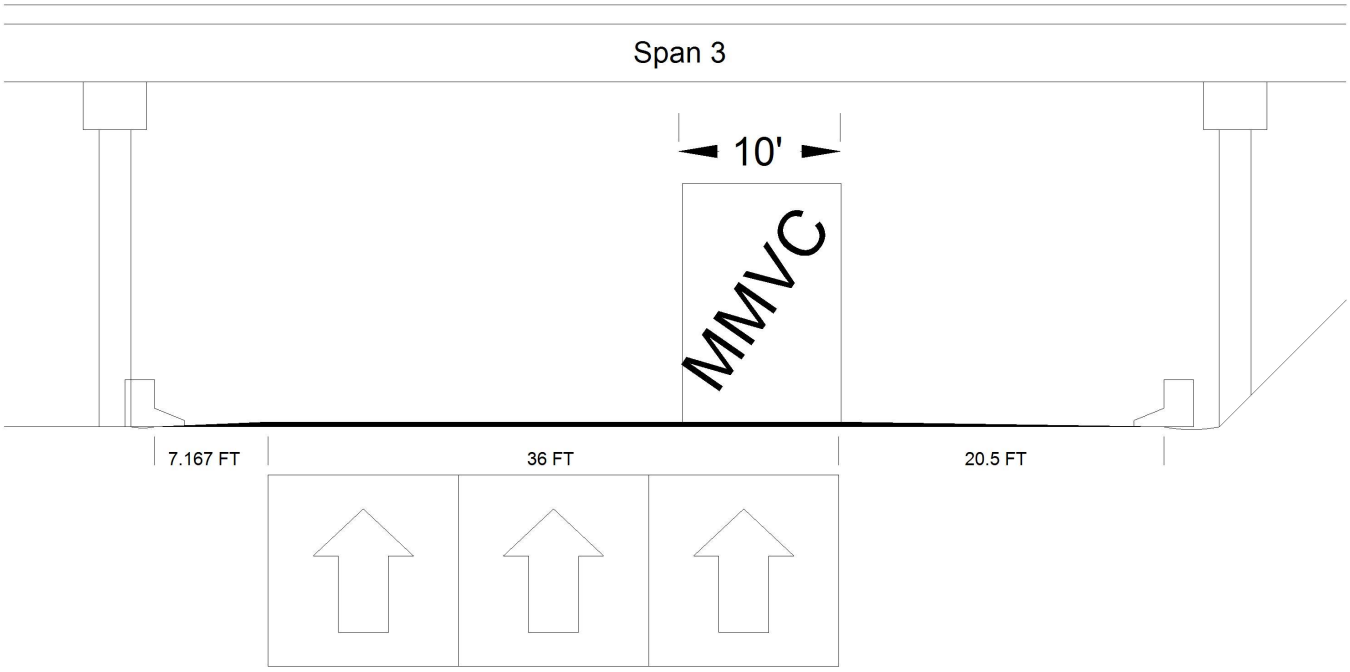
SPAN #4 HAS 2 EXTERIOR W36 X 135
AND 4 INTERIOR W36 X 130

VERIFIED BY ERIC PATTERSON ON 10-7-2014

Title	Description
DECK DIMENSIONS	SUPERSTRUCTURE

Bridge No:	Drawn By:	Date:	File Name:
350125	DJA	9/4/2008	S0146030617

Bridge Inspection Field Sketch



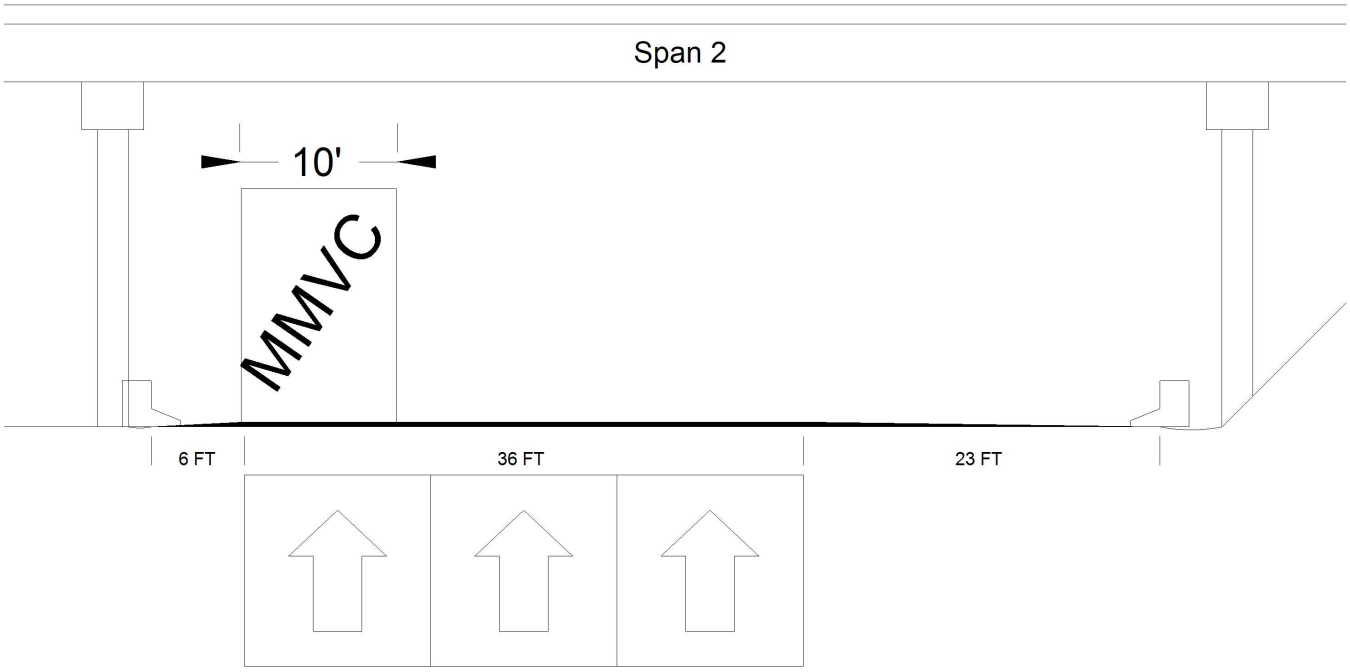
Roadway 1		Direction of Traffic	South
Distance to Left Rail	7.167FT	Distance to Right Rail	20.5FT
Distance to Left Toe of Slope		Distance to Left Bent	8.667FT
Distance to Right Toe of Slope	24FT	Distance to Right Bent	20.5FT
MMVC	23.083 Ft at Beam 1, 0 FT from RIGHT EDGE OF ROADWAY		
MVC	20.5 Ft at Beam 1, 0 FT from LEFT EDGE OF ROADWAY		

MILEPOST 17.4

VERIFIED BY ERIC PATTERSON ON 10-7-2014

Title	**Description**		
SPAN #3 OVER I-85 SB	SPAN #3 UNDERCLEARANCE		
Bridge No: 350125	**Drawn By:** DJA	**Date:** 9/4/2008	**File Name:** S0146030618

Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	North
Distance to Left Rail	6FT	Distance to Right Rail	23FT
Distance to Left Toe of Slope		Distance to Left Bent	7.5FT
Distance to Right Toe of Slope	27FT	Distance to Right Bent	24.5FT
MMVC	19.5 Ft at Beam 1, 0 FT from LEFT EDGE OF ROADWAY		
MVC	16.5 Ft at Beam 1, 0 FT from RIGHT EDGE OF ROADWAY		

MILEPOST 17.4

VERIFIED BY ERIC PATTERSON ON 10-7-2014

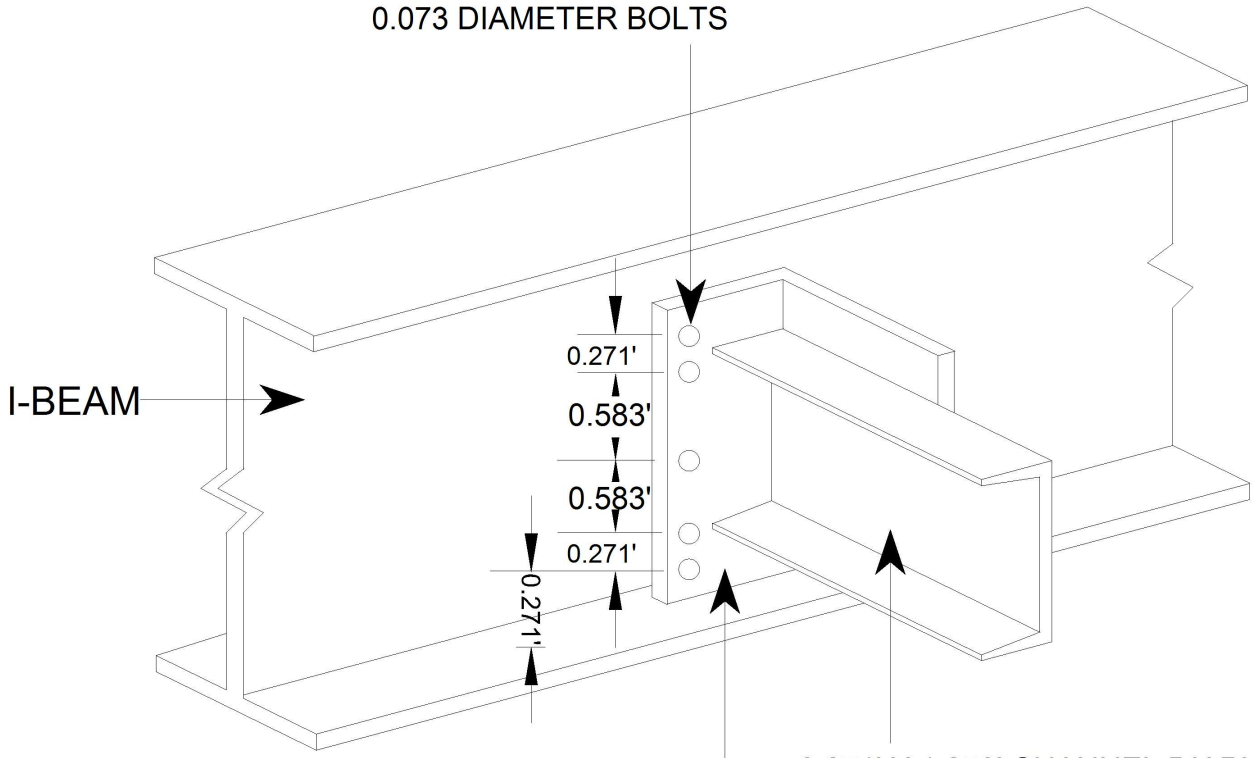
Title	**Description**		
SPAN #2 OVER I-85 NB	SPAN #2 UNDERCLEARANCE		
Bridge No: 350125	**Drawn By:** DJA	**Date:** 9/4/2008	**File Name:** S0146030619

Bridge Inspection Field Sketch

DIAPHRAGM DETAILS

SPANS : 1-4 LOCATIONS : 20, 40 & 60' FROM BEAM

ENDS (MIDPOINTS OF SPANS 1 & 4, 1/4 POINTS OF SPANS 2 & 3)
ALSO USED AS END DIAPHRAGMS

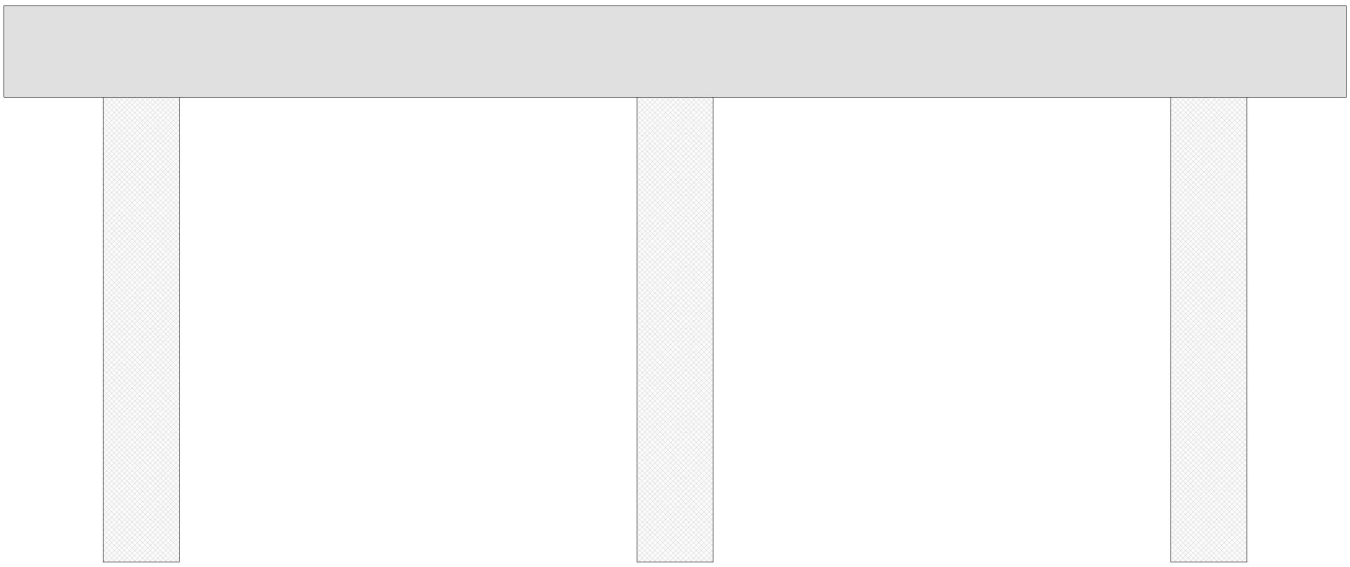


VERIFIED BY ERIC PATTERSON ON 10-7-2014

Title	Description
DIAPHRAGM DETAILS	DIAPHRAGMS

Bridge No:	Drawn By:	Date:	File Name:
350125	DJA	9/4/2008	S0146030626

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.
44.000 ft.	3.000 ft.	3.000 ft.	4.500 ft.	4.500 ft.	1.833 ft.	1.833 ft.

Subcap Information			Material		
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.

Sill Information			Material
Length	Width	Height	

Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	17.500 ft.	2.500 ft.	3.000 ft.		Vertical	No	No	No	No
2	Concrete	17.500 ft.	2.500 ft.	3.000 ft.		Vertical	No	No	No	No
3	Concrete		2.500 ft.	3.000 ft.		Vertical	No	No	No	No

VERIFIED BY ERIC PATTERSON ON 10-7-2014

Bent/Abutment #: 1 Similar Bents: 2,3

Title	**Description**
INTERIOR BENTS	SUBSTRUCTURE DETAILS

Bridge No: 350125	**Drawn By:** DELVIN ADAMS	**Date:** 9/6/2012	**File Name:** S0146031719