NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: SNOOPER USED , PRIORITY MAINT ITEMS ISSUED ON BEAMS

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: LINCOLN **STRUCTURE NUMBER:** 540057 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: SR1248 **MILE POST:**

LOCATION: 0.5 MI. E. JCT. SR1252

FEATURE INTERSECTED: RIVER

LATITUDE: 35° 26' 18.45" **LONGITUDE:** 81° 14' 53.03"

SUPERSTRUCTURE: REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE: END BENTS:RC CAP ON STEEL PILES,INT.BENTS:RC POST & BEAM

SPANS: 6@55'0

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

PRESENT CONDITION: Poor **INSPECTION DATE:** 03/07/2016

POSTED SV: 34 **POSTED TTST:** 38

OTHER SIGNS PRESENT: 4 DELINEATORS



LOOKING EAST

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
RD WILLIAMS	RD Williams	CARLTON ADAMS

Span Element Report

Structure Number: 540057 Inspection Date: 03/07/2016

Span Number 1 **Span Length** 55 Feet **Number of Beams/Girders:** 4

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	1,454	0	1,454	0	0	1,454	3326
107		Steel Open Girder/Beam	220	0	218	2	0	220	3314
515	107	Steel Protective Coating	2092	1687	0	400	5	405	3342
215		Reinforced Concrete Abutment	40	40	0	0	0	0	3350
225		Steel Pile	6	6	0	0	0	0	3354
234		Reinforced Concrete Pier Cap	33	33	0	0	0	0	3348
311		Movable Bearing	4	0	3	1	0	4	3334
515	311	Steel Protective Coating	8	0	0	6	2	8	3342
313		Fixed Bearing	4	0	4	0	0	4	3334
515	313	Steel Protective Coating	8	8	0	0	0	0	3342
331		Reinforced Concrete Bridge Railing	110	110	0	0	0	0	3318

"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** 55 Feet **Number of Beams/Girders:** 4

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	1,454	704	750	0	0	750	3326
107		Steel Open Girder/Beam	220	0	208	12	0	220	3314
515	107	Steel Protective Coating	2108	1096	0	800	212	1012	3342
205		Reinforced Concrete Column	2	2	0	0	0	0	3348
220		Reinforced Concrete Pile Cap/Footing	5	5	0	0	0	0	3348
234		Reinforced Concrete Pier Cap	25	25	0	0	0	0	3348
301		Pourable Joint Seal	28	18	10	0	0	10	3310
311		Movable Bearing	4	0	3	1	0	4	3334
515	311	Steel Protective Coating	8	6	0	0	2	2	3342
313		Fixed Bearing	4	0	2	2	0	4	3334
515	313	Steel Protective Coating	8	0	0	4	4	8	3342
331		Reinforced Concrete Bridge Railing	110	110	0	0	0	0	3318

"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** 55 Feet **Number of Beams/Girders:** 4

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	1,454	0	1,454	0	0	1,454	3326
107		Steel Open Girder/Beam	220	0	202	18	0	220	3314
515	107	Steel Protective Coating	2108	950	0	1127	31	1158	3342
205		Reinforced Concrete Column	2	2	0	0	0	0	3348
220		Reinforced Concrete Pile Cap/Footing	5	5	0	0	0	0	3348
234		Reinforced Concrete Pier Cap	25	23	2	0	0	2	3348
301		Pourable Joint Seal	28	13	15	0	0	15	3310
311		Movable Bearing	4	0	0	4	0	4	3334
515	311	Steel Protective Coating	8	0	0	0	8	8	3342

313		Fixed Bearing	4	0	0	4	0	4	3334
515	313	Steel Protective Coating	8	0	0	0	8	8	3342
331		Reinforced Concrete Bridge Railing	110	110	0	0	0	0	3318

"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** 55 Feet **Number of Beams/Girders:** 4

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	1,454	0	1,454	0	0	1,454	3326
107		Steel Open Girder/Beam	220	0	214	6	0	220	3314
515	107	Steel Protective Coating	2108	219	0	1719	170	1889	3342
205		Reinforced Concrete Column	2	2	0	0	0	0	3348
220		Reinforced Concrete Pile Cap/Footing	5	5	0	0	0	0	3348
234		Reinforced Concrete Pier Cap	25	21	4	0	0	4	3348
301		Pourable Joint Seal	28	22	6	0	0	6	3310
311		Movable Bearing	4	0	3	1	0	4	3334
515	311	Steel Protective Coating	8	0	0	4	4	8	3342
313		Fixed Bearing	4	0	4	0	0	4	3334
515	313	Steel Protective Coating	8	0	0	8	0	8	3342
331		Reinforced Concrete Bridge Railing	110	110	0	0	0	0	3318

"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 5 **Span Length** 55 Feet **Number of Beams/Girders:** 4

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	1,454	0	1,454	0	0	1,454	3326
107		Steel Open Girder/Beam	220	0	163	57	0	220	3314
515	107	Steel Protective Coating	2108	0	520	1567	21	2108	3342
205		Reinforced Concrete Column	2	0	1	1	0	3	3348
220		Reinforced Concrete Pile Cap/Footing	5	5	0	0	0	0	3348
234		Reinforced Concrete Pier Cap	25	25	0	0	0	0	3348
301		Pourable Joint Seal	28	8	20	0	0	20	3310
311		Movable Bearing	4	0	2	2	0	4	3334
515	311	Steel Protective Coating	8	0	2	2	4	8	3342
313		Fixed Bearing	4	0	2	2	0	4	3334
515	313	Steel Protective Coating	8	0	4	0	4	8	3342
331		Reinforced Concrete Bridge Railing	110	110	0	0	0	0	3318

"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 6 **Span Length** 55 Feet **Number of Beams/Girders:** 4

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	1,454	804	650	0	0	650	3326
107		Steel Open Girder/Beam	220	53	108	59	0	167	3314
515	107	Steel Protective Coating	2092	0	0	2077	15	2092	3342
205		Reinforced Concrete Column	2	2	0	0	0	0	3348
215		Reinforced Concrete Abutment	40	40	0	0	0	0	3350
220		Reinforced Concrete Pile Cap/Footing	5	5	0	0	0	0	3348

225		Steel Pile	6	6	0	0	0	0	3354
234		Reinforced Concrete Pier Cap	58	58	0	0	0	0	3348
301		Pourable Joint Seal	28	18	10	0	0	10	3310
311		Movable Bearing	4	0	3	1	0	4	3334
515	311	Steel Protective Coating	8	0	0	6	2	8	3342
313		Fixed Bearing	4	0	2	2	0	4	3334
515	313	Steel Protective Coating	8	0	0	0	8	8	3342
331		Reinforced Concrete Bridge Railing	110	110	0	0	0	0	3318

"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: 540057 Inspection Date: 03/07/2016

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	1454	0	1454	0	0	1454	3326	☐ Requested
☑ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	55	55	0	0	0	0	3318	☐ Requested
☑ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	55	55	0	0	0	0	3318	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	55	0	55	0	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	523	423	0	100	0	100	3342	
☑ Beam	2	107	Steel Open Girder/Beam	55	0	55	0	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	523	423	0	100	0	100	3342	
☑ Beam	3	107	Steel Open Girder/Beam	55	0	55	0	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	523	423	0	100	0	100	3342	
☑ Beam	4	107	Steel Open Girder/Beam	55	0	53	2	0	55	3314	☑ Requested
Protective System		515	Steel Protective Coating	523	418	0	100	5	105	3342	
☑ Bearing Device	1	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☑ Bearing Device	1	311	Movable Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	2	0	2	3342	
☑ Bearing Device	2	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☑ Bearing Device	2	311	Movable Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	2	0	2	3342	
☑ Bearing Device	3	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☑ Bearing Device	3	311	Movable Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	2	0	2	3342	
☑ Bearing Device	4	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☑ Bearing Device	4	311	Movable Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	

Structure Number: 540057 Inspection Date: 03/07/2016

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	1454	704	750	0	0	750	3326	☐ Requested
☑ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	55	55	0	0	0	0	3318	☐ Requested
☑ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	55	55	0	0	0	0	3318	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	55	0	52	3	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	527	321	0	200	6	206	3342	
☑ Beam	2	107	Steel Open Girder/Beam	55	0	53	2	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	527	321	0	200	6	206	3342	
☑ Beam	3	107	Steel Open Girder/Beam	55	0	52	3	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	527	227	0	200	100	300	3342	
☑ Beam	4	107	Steel Open Girder/Beam	55	0	51	4	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	527	227	0	200	100	300	3342	
☑ Bearing Device	1	311	Movable Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☑ Bearing Device	1	313	Fixed Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	2	311	Movable Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☑ Bearing Device	2	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	2	0	2	3342	
☑ Bearing Device	3	311	Movable Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	2	0	0	0	0	3342	
☑ Bearing Device	3	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	2	0	2	3342	
☑ Bearing Device	4	311	Movable Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	4	313	Fixed Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Expansion Joints	1	301	Pourable Joint Seal	28	18	10	0	0	10	3310	☐ Requested

Structure Number: 540057 Inspection Date: 03/07/2016

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	1454	0	1454	0	0	1454	3326	☐ Requested
☑ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	55	55	0	0	0	0	3318	☐ Requested
☑ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	55	55	0	0	0	0	3318	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	55	0	48	7	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	527	312	0	200	15	215	3342	
☑ Beam	2	107	Steel Open Girder/Beam	55	0	50	5	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	527	319	0	200	8	208	3342	
☑ Beam	3	107	Steel Open Girder/Beam	55	0	55	0	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	527	0	0	527	0	527	3342	
☑ Beam	4	107	Steel Open Girder/Beam	55	0	49	6	0	55	3314	☑ Requested
Protective System		515	Steel Protective Coating	527	319	0	200	8	208	3342	
☑ Bearing Device	1	311	Movable Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	1	313	Fixed Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	2	311	Movable Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	2	313	Fixed Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	3	311	Movable Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	3	313	Fixed Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	4	311	Movable Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	4	313	Fixed Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Expansion Joints	1	301	Pourable Joint Seal	28	13	15	0	0	15	3310	☐ Requested

Structure Number: 540057 Inspection Date: 03/07/2016

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	1454	0	1454	0	0	1454	3326	☐ Requested
☑ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	55	55	0	0	0	0	3318	☐ Requested
☑ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	55	55	0	0	0	0	3318	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	55	0	53	2	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	527	219	0	300	8	308	3342	
☑ Beam	2	107	Steel Open Girder/Beam	55	0	55	0	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	527	0	0	475	52	527	3342	
☑ Beam	3	107	Steel Open Girder/Beam	55	0	55	0	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	527	0	0	477	50	527	3342	
☑ Beam	4	107	Steel Open Girder/Beam	55	0	51	4	0	55	3314	☑ Requested
Protective System		515	Steel Protective Coating	527	0	0	467	60	527	3342	
☑ Bearing Device	1	311	Movable Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	1	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	2	0	2	3342	
☑ Bearing Device	2	311	Movable Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	2	0	2	3342	
☑ Bearing Device	2	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	2	0	2	3342	
☑ Bearing Device	3	311	Movable Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	2	0	2	3342	
☑ Bearing Device	3	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	2	0	2	3342	
☑ Bearing Device	4	311	Movable Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	4	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	2	0	2	3342	
☑ Expansion Joints	1	301	Pourable Joint Seal	28	22	6	0	0	6	3310	☐ Requested

Structure Number: 540057 Inspection Date: 03/07/2016

Span Number 5

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	1454	0	1454	0	0	1454	3326	☐ Requested
☑ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	55	55	0	0	0	0	3318	☐ Requested
☑ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	55	55	0	0	0	0	3318	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	55	0	53	2	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	527	0	0	517	10	527	3342	
☑ Beam	2	107	Steel Open Girder/Beam	55	0	55	0	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	527	0	0	525	2	527	3342	
☑ Beam	3	107	Steel Open Girder/Beam	55	0	55	0	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	527	0	0	525	2	527	3342	
☑ Beam	4	107	Steel Open Girder/Beam	55	0	0	55	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	527	0	520	0	7	527	3342	
☑ Bearing Device	1	311	Movable Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	2	0	2	3342	
☑ Bearing Device	1	313	Fixed Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	2	311	Movable Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	2	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	2	0	0	2	3342	
☑ Bearing Device	3	311	Movable Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	2	0	0	2	3342	
☑ Bearing Device	3	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	2	0	0	2	3342	
☑ Bearing Device	4	311	Movable Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	4	313	Fixed Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Expansion Joints	1	301	Pourable Joint Seal	28	8	20	0	0	20	3310	☐ Requested

Structure Number: 540057 Inspection Date: 03/07/2016

Span Number 6

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	1454	804	650	0	0	650	3326	☐ Requested
☑ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	55	55	0	0	0	0	3318	☐ Requested
☑ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	55	55	0	0	0	0	3318	☐ Requested
☑ Beam	1	107	Steel Open Girder/Beam	55	53	0	2	0	2	3314	☐ Requested
Protective System		515	Steel Protective Coating	523	0	0	523	0	523	3342	
☑ Beam	2	107	Steel Open Girder/Beam	55	0	0	55	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	523	0	0	523	0	523	3342	
☑ Beam	3	107	Steel Open Girder/Beam	55	0	55	0	0	55	3314	☐ Requested
Protective System		515	Steel Protective Coating	523	0	0	523	0	523	3342	
☑ Beam	4	107	Steel Open Girder/Beam	55	0	53	2	0	55	3314	☑ Requested
Protective System		515	Steel Protective Coating	523	0	0	508	15	523	3342	
☑ Bearing Device	1	311	Movable Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	2	0	2	3342	
☑ Bearing Device	1	313	Fixed Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	2	311	Movable Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	2	0	2	3342	
☑ Bearing Device	2	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	3	311	Movable Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	2	0	2	3342	
☑ Bearing Device	3	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	4	311	Movable Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Bearing Device	4	313	Fixed Bearing	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	2	0	0	0	2	2	3342	
☑ Expansion Joints	1	301	Pourable Joint Seal	28	18	10	0	0	10	3310	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 540057 Inspection Date: 03/07/2016

Span Number 1

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

Element: 12 **Name** Reinforced Concrete Deck **Qty:** 1454 **Lvl 2:** 1,454 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1,454

Defect Description:

1454 Square Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.
SPAN 1 DECK HAS SCATTERED MAP CRACKING WITH COURSE AGGREGATE EXPOSED.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 55 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

100 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.
55 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 55 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

100 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.
55 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 55 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

100 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.
55 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 53 **Lvl 3** 2 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 1 LT SIDE OF BEAM 4 OVER BENT 1 HAS 3/16" SECT LOSS ALONG BOTTOM FLANGE FM END OF BEAM OUT 2' 1/8" LOSS IN WEB. VERTICAL STIFFENER IS DOWN TO KNIFES EDGE 2" HIGH X 3" WIDE.
100 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.
5 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.
53 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.

Span 1 **Bearing Device** 1 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

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

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

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

Span 1 **Bearing Device** 2 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

Span 1 **Bearing Device** 2 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 **Bearing Device** 3 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 1 **Bearing Device** 3 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

Span 1 **Bearing Device** 4 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

Span 1 **Bearing Device** 4 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 0 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. PACK RUST BUILDUP.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span Number 2

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

Element: 12 **Name** Reinforced Concrete Deck **Qty:** 1454 **Lvl 2:** 750 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 750

Defect Description:

750 Square Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.
SPAN 2 DECK HAS SCATTERED MAP CRACKING WITH COURSE AGGREGATE EXPOSED. MINOR POP OUTS.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 52 **Lvl 3** 3 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

3 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 2 BEAM 1 RIGHT SIDE HAS 1/16" TO 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 22". 1/4" SECT LOSS EXTENDS OUT 5" MORE. VERTICAL STIFFENER 1/8" REMAINS 2 3/4" X 4 1/2"

52 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated. SCATTERED RUST AND CORROSION ON FLANGES AND WEBS.

6 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

200 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 53 **Lvl 3** 2 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 2 RT SIDE OF BM 2 OVER BENT 2 3/16" SECT LOSS BOTTOM FLANGE FM BEARING OUT 6". HOLE IN VERTICAL STIFFENER 3" HIGH BY 4" WIDE.

1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 2 BM 2 LT SIDE OVER BENT 2 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 12". VERTICAL STIFF DOWN TO KNIFES EDGE. 21/2" H X 4" W.
53 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated. SCATTERED CORROSION AND RUST ON FLANGES AND WEB AREA.

200 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

6 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 52 **Lvl 3** 3 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 2 RT SIDE OF BM 3 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 10". 1/8" LOSS IN WEB.

2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 2 LT SIDE OF BM 3 OVER BNT 2 HAS FM 3/16" TO 1/4" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 2' 1/8" LOSS IN WEBB VERT STIF DOWN TO KNIFES EDGE 3" H X 4" L.
52 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated. SCATTERED RUST AND CORROSION ON FLANGES AND WEB .
200 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

100 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 51 **Lvl 3** 4 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 2 BEAM 4 LEFT SIDE OVER BENT 2 HAS 1/16" SECT LOSS ALONG BOTTOM FLANGE FM STIFFENER OUT 24".

2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 2 RIGHT SIDE OF BM 4 OVER BENT 1 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 2'. VERTICAL STIFFENER IS RUSTED AWAY 4" W X 5 1/2" H.
51 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated. SCATTERED RUST AND CORROSION ALONG FLANGES AND WEB AREA.
200 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.
100 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 2 **Bearing Device** 1 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

Span 2 **Bearing Device** 1 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. PACK RUST BUILDUP
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 2 **Bearing Device** 2 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 **Bearing Device** 2 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

Span 2 **Bearing Device** 3 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

Span 2 **Bearing Device** 3 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 2 **Bearing Device** 4 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. PACK RUST BUILDUP
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 2 **Bearing Device** 4 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 0 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. PACK RUST BUILDUP
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 2 **Expansion Joints** 1 **Component Name:** Standard Joint

Element: 301 **Name** Pourable Joint Seal **Qty:** 28 **Lvl 2:** 10 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 10

Defect Description:

10 Feet of Seal Adhesion: Adhered for more than 50% of the joint height.
EXPANSION JOINT 2 HAS SEAL IS CRACKED ALONG EDGES AND LEAKING.

Span Number 3

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

Element: 12 **Name** Reinforced Concrete Deck **Qty:** 1454 **Lvl 2:** 1,454 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1,454

Defect Description:

1454 Square Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.
SPAN 3 DECK HAS SCATTERED MAP CRACKING WITH COURSE AGGREGATE EXPOSED AND TRANSVERSE CRACKS.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 48 **Lvl 3** 7 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

5 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 4 LEFT SIDE OF B1 OVER BENT 3 HAS 1/8" SECTION LOSS ALONG BOTTOM FLANGE FROM CAP OUT 54". 1/16" LOSS IN WEB. RIGHT SIDE 1/16" 'LOSE OUT 12".

2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 3 BEAM 1 RT SIDE OVER BNT 2 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 20". VERTICAL STRUT DOWN TO A KNIFES EDGE.
48 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated. SCATTERED RUST AND CORROSION ALONG FLANGES AND WEB
200 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

15 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 50 **Lvl 3** 5 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

3 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 3 BM 2 RIGHT SIDE HAS 1/8" TO 3/16" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 27" VERTICAL STRUT HAS HOLE IN BOTTOM 3" HIGH 4" WIDE.

2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 3 BEAM 2 LT SIDE OVER BNT 2 HAS FM 1/8" TO 1/16" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 2'. VERT STIF HAS 1/8" SECT LOSS ALONG BOTTOM

50 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated. SCATTERED RUST AND CORROSION ALONG FLANGES AND WEB AREA

200 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.
8 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 55 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

55 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated. SCATTERED RUST AND CORROSION ALONG FLANGES AND WEB AREA.
527 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

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



Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 49 **Lvl 3** 6 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 3 BEAM 4 LT SIDE OVER BENT 3 HAS 1/4" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 12". 1/16" LOSS IN WEB VERTICAL STIFFENER 1/16 REMAINING IN AN AREA 2" X 3".

1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 3 RT SIDE OF BM 4 OVER BNT 3 1/16" LOSS ALONG BOTTOM FLANGE FM BEARING OUT 1'. VERTICAL STIFNER DOWN TO KNIFES EDGE 3" H X 4" W. 1/16" LOSS IN WEB.

1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 3 RT SIDE OF BM 4 OVER BNT 2 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 1'. 1/16" LOSS IN WEB. VERT STRUT DOWN TO KNIFES EDGE FM BOTTOM UP 3" AND 4" WIDE.

3 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 3 LEFT SIDE OF B4 OVER BENT 2 HAS 1/16" SECTION LOSS BOTTOM FLANGE AND WEB AREA FM BEARING OUT 16" VERT STRUT DOWN TO KNIFES EDGE 21/2" H AND 4"W.

49 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated. SCATTERED RUST AND CORROSION ON FLANGES AND WEB .
200 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.
8 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 3 **Bearing Device** 1 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 0 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. PACK RUST

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 3 **Bearing Device** 1 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 3 **Bearing Device** 2 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 3 **Bearing Device** 2 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 0 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. PACK RUST
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 3 **Bearing Device** 3 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 0 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. PACK RUST
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 3 **Bearing Device** 3 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 3 **Bearing Device** 4 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 3 **Bearing Device** 4 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 0 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. PACK RUST
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 3 **Expansion Joints** 1 **Component Name:** Standard Joint

Element: 301 **Name** Pourable Joint Seal **Qty:** 28 **Lvl 2:** 15 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 15

Defect Description:

15 Feet of Seal Adhesion: Adhered for more than 50% of the joint height.
EXPANSION JOINT 3 HAS SEAL IS CRACKED ALONG EDGES AND LEAKING.

Span Number 4

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

Element: 12 **Name** Reinforced Concrete Deck **Qty:** 1454 **Lvl 2:** 1,454 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1,454

Defect Description:

1454 Square Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.
DECK HAS SCATTERED MAP CRACKING WITH COURSE AGGREGATE EXPOSED. SOME TRANSVERSE CRACKS AND SURFACE SCALING.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 53 **Lvl 3** 2 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPN 4 RT SIDE OF B1 OVER BT4 1/4" SECT LOSS ALNG BOT FLG FM BERING OUT 8". 1/8" LOSS OVR NXT 6". 1/8" LOSS IN WEB BOT FLG UP 6". VERT STIFNER DOWN TO KNIFES EDGE 4" HIGH 4" WIDE.
53 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated. SCATTERED RUST AND CORROSION ALONG FLANGES AND WEB.
8 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.
300 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 55 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

55 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.
475 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.
52 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 55 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

55 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.
477 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.
50 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

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



Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 51 **Lvl 3** 4 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

3 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 4 BEAM 4 RIGHT SIDE OVER BENT 4 HAS 5/16" SECT LOSS BEARING OUT 30" ALONG BOTTOM FLANGE 1/8" LOSS IN WEB.

1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 4 BEAM 4 LEFT SIDE AT BENT 4 BOTTOM FLANGE HAS 3/8" SECT LOSS 8" FM CAP EXTENDS OUT 7" WEB 1/4" SECT LOSS FM VERTICAL STIFFENER OUT 7" . VERTICAL STIFFENER DOWN TO KNIFES EDGE 2 1/2" HIGH 3 1/2 WIDE.

51 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated. SCATTERED RUST AND CORROSION ALONG WEB AND FLANGES OF BEAM.

60 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.
467 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 4 **Bearing Device** 1 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 4 **Bearing Device** 1 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 4 **Bearing Device** 2 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 4 **Bearing Device** 2 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 4 **Bearing Device** 3 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 4 **Bearing Device** 3 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 4 **Bearing Device** 4 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 4 **Bearing Device** 4 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 0 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 4 **Expansion Joints** 1 **Component Name:** Standard Joint

Element: 301 **Name** Pourable Joint Seal **Qty:** 28 **Lvl 2:** 6 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 Feet of Seal Adhesion: Adhered for more than 50% of the joint height.
EXPANSION JOINT 4 HAS SEAL IS CRACKED ALONG EDGES AND LEAKING.

Span Number 5

Span 5 **Deck** 1 **Component Name:** Reinforced Concrete Deck

Element: 12 **Name** Reinforced Concrete Deck **Qty:** 1454 **Lvl 2:** 1,454 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1,454

Defect Description:

1454 Square Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.
SPAN 5 DECK HAS SCATTERED MAP CRACKING AND TRANSVERSE CRACKS WITH COURSE AGGREGATE EXPOSED AND POP OUTS. HALF OF DECK HAS SURFACE SCALING.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 53 **Lvl 3** 2 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPN 5 LT SIDE OF B1 HAS 1/16" SECT LOSE FM END OF BM BACK 18".
53 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.
517 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.
10 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 55 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

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

525 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 55 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

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

525 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.
2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 0 **Lvl 3** 55 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 5 BEAM 4 OVER BENT 5 SHOWS 1/8" SECTION LOSS ALONG THE BOTTOM.

54 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.

520 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish coats only.
7 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 5 **Bearing Device** 1 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 5 **Bearing Device** 1 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 5 **Bearing Device** 2 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish coats only.

Span 5 **Bearing Device** 2 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 0 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.
HAS PACT RUST.

Span 5 **Bearing Device** 3 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish coats only.

Span 5 **Bearing Device** 3 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish coats only.

Span 5 **Bearing Device** 4 **Component Name:** Fixed Bearing

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

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 5 **Bearing Device** 4 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 0 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.
HAS PACT RUST.

Span 5 **Expansion Joints** 1 **Component Name:** Standard Joint

Element: 301 **Name** Pourable Joint Seal **Qty:** 28 **Lvl 2:** 20 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 20

Defect Description:

20 Feet of Seal Adhesion: Adhered for more than 50% of the joint height.
EXPANSION JOINT 5 HAS SEAL IS CRACKED ALONG EDGES AND LEAKING.

Span Number 6

Span 6 **Deck** 1 **Component Name:** Reinforced Concrete Deck

Element: 12 **Name** Reinforced Concrete Deck **Qty:** 1454 **Lvl 2:** 650 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 650

Defect Description:

650 Square Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.
SPAN 6 DECK HAS SCATTERED MAP CRACKING AND TRANSVERSE CRACKS.

Span 6 **Beam** 1 **Component Name:** Plate Girder

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 0 **Lvl 3** 2 **Lvl 4** 0 **Maint. Qty** 2

Defect Description:

2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPN 6 LT SIDE OF BM1 OVER BNT5 HAS 3/8" SECT LOSE ALONG BOTM FLNG FM END OF BEAM BACK 14". VERT STRUT HAS HOLE 2 1/4" X 4 1/2". RT SIDE HAS 1/8" SECT LOSS.
523 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 0 **Lvl 3** 55 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

55 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.

523 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

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

Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 55 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

55 Feet of Corrosion: Freckled Rust. Corrosion of the steel has initiated.
523 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

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



Element: 107 **Name** Steel Open Girder/Beam **Qty:** 55 **Lvl 2:** 53 **Lvl 3** 2 **Lvl 4** 0 **Maint. Qty** 55

Defect Description:

2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 6 LEFT SIDE OF BEAM 4 OVER BENT 5 HAS 1/8" SECTION LOSS ALONG BOTTOM FLANGE FROM END OF BEAM BACK 20". RIGHT SIDE IS SIMILAR. VERTICAL STRUT ON RIGHT SIDE IS DOWN TO A KNIFES EDGE.

53 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.

508 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.
15 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

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

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1
Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

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

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

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 6 **Bearing Device** 2 **Component Name:** Fixed Bearing

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

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 6 **Bearing Device** 2 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1
Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 6 **Bearing Device** 3 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1
Defect Description:

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Finish and primer coats.

Span 6 **Bearing Device** 3 **Component Name:** Fixed Bearing

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

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 6 **Bearing Device** 4 **Component Name:** Fixed Bearing

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

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 6 **Bearing Device** 4 **Component Name:** Movable Bearing

Element: 311 **Name** Movable Bearing **Qty:** 1 **Lvl 2:** 0 **Lvl 3** 1 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.

2 Square Feet of Peeling/Bubbling/Cracking (steel Protective Coatings): Exposure of bare metal.

Span 6 **Expansion Joints** 1 **Component Name:** Standard Joint

Element: 301 **Name** Pourable Joint Seal **Qty:** 28 **Lvl 2:** 10 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 10

Defect Description:

10 Feet of Seal Adhesion: Adhered for more than 50% of the joint height.
EXPANSION JOINT 6 HAS SEAL IS CRACKED ALONG EDGES AND LEAKING.

Substructure Detailed Element Quantites

Structure Number: 540057 Inspection Date: 03/07/2016

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	40	40	0	0	0	0	3350	☐ Requested
☑ Caps	1	234	Reinforced Concrete Pier Cap	33	33	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	1	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☐ Piles and Columns	2	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☐ Piles and Columns	3	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☐ Piles and Columns	4	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☐ Piles and Columns	5	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☐ Piles and Columns	6	225	Steel Pile	1	1	0	0	0	0	3354	☐ 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
☐ Footing	1	220	Reinforced Concrete Pile Cap/Footing	5	5	0	0	0	0	3348	☐ Requested
☑ Caps	1	234	Reinforced Concrete Pier Cap	25	25	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

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
☐ Footing	1	220	Reinforced Concrete Pile Cap/Footing	5	5	0	0	0	0	3348	☐ Requested
☑ Caps	1	234	Reinforced Concrete Pier Cap	25	23	2	0	0	2	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

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
☐ Footing	1	220	Reinforced Concrete Pile Cap/Footing	5	5	0	0	0	0	3348	☐ Requested
☑ Caps	1	234	Reinforced Concrete Pier Cap	25	21	4	0	0	4	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

Bent 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
☐ Footing	1	220	Reinforced Concrete Pile Cap/Footing	5	5	0	0	0	0	3348	☐ Requested
☑ Caps	1	234	Reinforced Concrete Pier Cap	25	25	0	0	0	0	3348	☐ Requested
☑ Piles and Columns	1	205	Reinforced Concrete Column	1	0	1	0	0	1	3348	☐ Requested
☑ Piles and Columns	2	205	Reinforced Concrete Column	1	0	0	1	0	2	3348	☐ Requested

Bent 5

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
☐ Footing	1	220	Reinforced Concrete Pile Cap/Footing	5	5	0	0	0	0	3348	☐ Requested
☑ Caps	1	234	Reinforced Concrete Pier Cap	25	25	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

Structure Number: 540057 Inspection Date: 03/07/2016

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	40	40	0	0	0	0	3350	☐ Requested
☑ Caps	1	234	Reinforced Concrete Pier Cap	33	33	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	1	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☐ Piles and Columns	2	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☐ Piles and Columns	3	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☐ Piles and Columns	4	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☐ Piles and Columns	5	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested
☐ Piles and Columns	6	225	Steel Pile	1	1	0	0	0	0	3354	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 540057 Inspection Date: 03/07/2016

Bent 2

Bent 2	**Row** 1	**Caps**	1										
Element: 234	**Name**	Reinforced Concrete Pier Cap	**Qty:**	25	**Lvl 2:**	2	**Lvl 3**	0	**Lvl 4**	0	**Maint. Qty**		2

Defect Description:

2 Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.
BENT 2 RIGHT END OF CAP UNDER BEAM 4 AND RIGHT END HAS MAP CRACKING.

Bent 3	**Row** 1	**Caps**	1										
Element: 234	**Name**	Reinforced Concrete Pier Cap	**Qty:**	25	**Lvl 2:**	4	**Lvl 3**	0	**Lvl 4**	0	**Maint. Qty**		4

Defect Description:

4 Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 inch or less deep or 6 inches or less in diameter. Patched area that is sound
BENT 3 WEST FACE OF CAP CRACKED SPALL DELAMINATED ALONG BOTTOM UNDER BEAM 2. 3" UP FACE 48" LONG 16" UNDER BOTTOM.

Bent 4	**Row** 1	**Piles and Columns**	1										
Element: 205	**Name**	Reinforced Concrete Column	**Qty:**	1	**Lvl 2:**	1	**Lvl 3**	0	**Lvl 4**	0	**Maint. Qty**		1

Defect Description:

1 Each of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound.
BENT 4 NE CORNER OF COLUMN 1 SPALL AREA 8" X 8" X 2" DEEP WITH LARGE REBAR EXPOSED FM WATER LINE UP 5'.

Bent 4	**Row** 1	**Piles and Columns**	2										
Element: 205	**Name**	Reinforced Concrete Column	**Qty:**	1	**Lvl 2:**	0	**Lvl 3**	1	**Lvl 4**	0	**Maint. Qty**		2

Defect Description:

1 Each of Delamination/Spall/Patched Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Patched area that is unsound or showing distress. Does not warrant structural review.
BENT 4 COLUMN 2 ON EAST FACE AT WATER LINE SPALL AREA 20" WIDE WATER LINE UP 18" 3" DEEP WITH REBAR EXPOSED.

National Bridge and NC Inspection Items

Structure Number: 540057 **Inspection Date:** 03/07/2016

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	**5**
Item 59: Superstructure	0 - 9 , N	**4**
Item 60: Substructure	0 - 9 , N	**5**
Item 61: Channel and Channel Protection	0 - 9 , N	**7**
Item 62: Culvert	0 - 9 , 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	**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		**0**	**3352**
Scour	G, F, P, or C	**G**		
Wingwall	G, F, P, or C	**G**	**0**	**3350**
Field Scour Evaluation		**L**		
Drift	G, F, P, or C	**G**	**0**	**3366**
Fender System	G, F, P, or C		**0**	**3364**
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	**G**		
Estimated Remaining Life	0 - 100 Years	**18**		

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	**Y**
Inspection Time	Hours	**15**
Traffic Control Time	Hours	**7**
Snooper Time	Hours	**6**
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: 540057 **Inspection Date:** 03/07/2016

Item	Grade	Maint Code	Qty.
Details			



END BENT 2 ERROSION UNDER BOTTOM OF CAP FROM LEFT TO RIGHT END 24" UNDER CAP 12" DOWN.



Span 6 Beam 4: 2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 6 LEFT SIDE OF BEAM 4 OVER BENT 5 HAS 1/8" SECTION LOSS ALONG BOTTOM FLANGE FROM END OF BEAM BACK 20".



Span 6 Beam 1: 2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPN 6 LT SIDE OF BM1 OVER BNT5 HAS 3/8" SECT LOSE ALONG BOTM FLNG FM END OF BEAM BACK 14". VERT STRUT HAS HOLE 2 1/4" X 4 1/2". RT SIDE HAS 1/8" SECT LOSS.



Span 5 Beam 1: 2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPN 5 LT SIDE OF B1 HAS 1/16" SECT LOSE FM END OF BM BACK 18".



Span 5 Beam 4: 1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 5 BEAM 4 OVER BENT 5 SHOWS 1/8" SECTION LOSS ALONG THE BOTTOM.



Bent 4 Pile 2: 1 Each of Delamination/Spall/Patched Area: Spall greater than 1 in. deep or greater than 6 in. diameter. Patched area that is unsound or showing distress. Does not warrant structural review.
BENT 4 COLUM 2 ON EAST FACE AT WATER LINE SPALL AREA 20" WIDE WATER LINE UP 18" 3" DEEP REBAR EXPOSED.



Bent 4 Pile 1: 1 Each of Delamination/Spall/Patched Area: Delaminated. Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound.
BENT 4 NE CORNER OF COLUMN 1 SPALL AREA 8" X 8" X 2" DEEP WITH LARGE REBAR EXPOSED FM WATER LINE UP 5'.



Span 4 Beam 1: 2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPN 4 RT SIDE OF B1 OVER BNT4 1/4" SECT LOSS ALNG BOTM FLNG FM BERING OUT 8". 1/8" LOSS OVR NXT 6". 1/8" LOSS IN WEB BOTM FLNG UP 6". VERT STIFNER DOWN TO KNIFES EDGE 4" HIGH 4" WIDE.



Span 4 Beam 4: 3 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPN 4 B4 RT SIDE OVR BNT 4 HAS 5/16" SECT LOSS BEARING OUT 30" ALNG BOTM FLNG 1/8" LOSS IN WEB.



Span 4 Beam 4: 1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.

SPN 4 BM4 LT SIDE AT BNT 4 BOTOM FLNGE HAS 3/8" SECT LOSS 8" FM CAP EXTS OUT 7" WEB 1/4" SECT LOSS FM VERT STIF OUT 7" . VERT STIF KNIFES EDGE 2 1/2" HIGH 3 1/2 WIDE.



Span 3 Beam 1: 5 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 4 LEFT SIDE OF B1 OVER BENT 3 HAS 1/8" SECTION LOSS ALONG BOTTOM FLANGE FROM CAP OUT 54". 1/16" LOSS IN WEB. RIGHT SIDE 1/16" 'LOSE OUT 12".



Bent 3 Cap : 3 Feet of Delamination/Spall/Patched Area: Delaminated. Spall 1 inch or less deep or 6 inches or less in diameter. Patched area that is sound
BENT 3 WEST FACE OF CAP CRACKED SPALL DELAMINATED ALONG BOTTOM UNDER BEAM 2 3" UP FACE 48" LONG 16" UNDER BOTTOM.



Span 3 Beam 4: 1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 3 BEAM 4 LT SIDE OVER BNT 3 HAS 1/4" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 12". 1/16" LOSS IN WEB VERT STIFNR 1/16 REMAINING IN AN AREA 2" X 3".



Span 3 Beam 4: 1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 3 RT SIDE OF BM 4 OVER BNT 3 1/16" LOSS ALONG BOTTOM FLANGE FM BEARING OUT 1'. VERT STIFNER DOWN TO KNIFES EDGE 3" H X 4" W. 1/16" LOSS IN WEB.



Span 3 Beam 4: 1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 3 RT SIDE OF BM 4 OVER BNT 2 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 1'. 1/16" LOSS IN WEB. VERT STRUT DOWN TO KNIFES EDGE FM BOTTOM UP 3" AND 4" WIDE.



Span 3 Beam 4: 3 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.

SPAN 3 LEFT SIDE OF B4 OVER BENT 2 HAS 1/16" SECTION LOSS BOTTOM FLANGE AND WEB AREA FM BEARING OUT 16" VERT STRUT DOWN TO KNIFES EDGE 21/2" H AND 4"W.



Span 3 Beam 2: 3 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 3 BM 2 RT SIDE HAS 1/8" TO 3/16" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 27" VERT STRUT HAS HOLE IN BOTTOM 3" H 4" W.



Span 3 Beam 2: 2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 3 BEAM 2 LT SIDE OVER BNT 2 HAS FM 1/8" TO 1/16" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 2'. VERT STIF HAS 1/8" SECT LOSS ALONG BOTTOM.



Span 3 Beam 1: 2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 3 BEAM 1 RT SIDE OVER BNT 2 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 20".



Span 2 Beam 4: 2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 2 BM 4 LT SIDE OVER BNT 2 HAS 1/16" SECT LOSS ALONG BOTTOM FLANGE FM STIFFENER OUT 24".



Span 2 Beam 3: 1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 2 RT SIDE OF BM 3 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 10". 1/8" LOSS IN WEB.



Span 2 Beam 3: 2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 2 LT SIDE OF BM 3 OVER BNT 2 HAS FM 3/16" TO 1/4" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 2' 1/8" LOSS IN WEBB VERT STIF DOWN TO KNIFES EDGE 3" H X 4" L.



Span 2 Beam 2: 1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 2 RT SIDE OF BM 2 OVER BNT 2 3/16" SECT LOSS BOTOM FLANGE FM BEARING OUT 6". HOLE IN VERT STIF 3" H X 4" W.



Span 2 Beam 2: 1 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 2 BM 2 LT SIDE OVER BENT 2 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 12". VERT STIFF DOWN TO KNIFES EDGE. 21/2" H X 4" W.



Span 2 Beam 1: 3 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.

SPAN 2 BM 1 RT SIDE HAS 1/16" TO 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 22". 1/4" SECT LOSS EXTDS OUT 5" MORE. VERT STIFF 1/8" REMAINS 2 3/4" X 4 1/2".



Span 1 Beam 4: 2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 1 LT SIDE OF BM4 OVER BNT 1 HAS 3/16" SECT LOSS ALONG BOTTOM FLANGE FM END OF BEAM OUT 2' 1/8" LOSS IN WEB. VERT STIFF DOWN TO KNIFES EDGE 2" H X 3" W.



Span 2 Beam 4: 2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
SPAN 2 RT SIDE OF BM 4 OVER BENT 1 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 2'.



Span 1 Deck: 1454 Square Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.
SPAN 1 DECK HAS SCATTERED MAP CRACKING WITH COURSE AGGREGATE EXPOSED.



Span 2 Deck: 750 Square Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.
SPAN 2 DECK HAS SCATTERED MAP CRACKING WITH COURSE AGGREGATE EXPOSED. MINOR POP OUTS.



Span 3 Deck: 1454 Square Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.
SPAN 3 DECK HAS SCATTERED MAP CRACKING WITH COURSE AGGREGATE EXPOSED AND TRANSVERSE CRACKS.



Span 4 Deck: 1454 Square Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft. DECK HAS SCATTERED MAP CRACKING WITH COURSE AGGREGATE EXPOSED. SOME TRANSVERSE CRACKS AND SURFACE SCALING.



Span 5 Deck: 1454 Square Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.
SPAN 5 DECK HAS SCATTERED MAP CRACKING AND TRANSVERSE CRACKS WITH COURSE AGGREGATE EXPOSED AND POP OUTS. HALF OF DECK HAS SURFACE SCALING.



Span 6 Deck: 650 Square Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft.
SPAN 6 DECK HAS SCATTERED MAP CRACKING AND TRANSVERSE CRACKS.



Expansion Joint 2 : 10 Feet of Seal Adhesion: Adhered for more than 50% of the joint height.
EXPANSION JOINT 2 HAS SEAL IS CRACKED ALONG EDGES AND LEAKING.



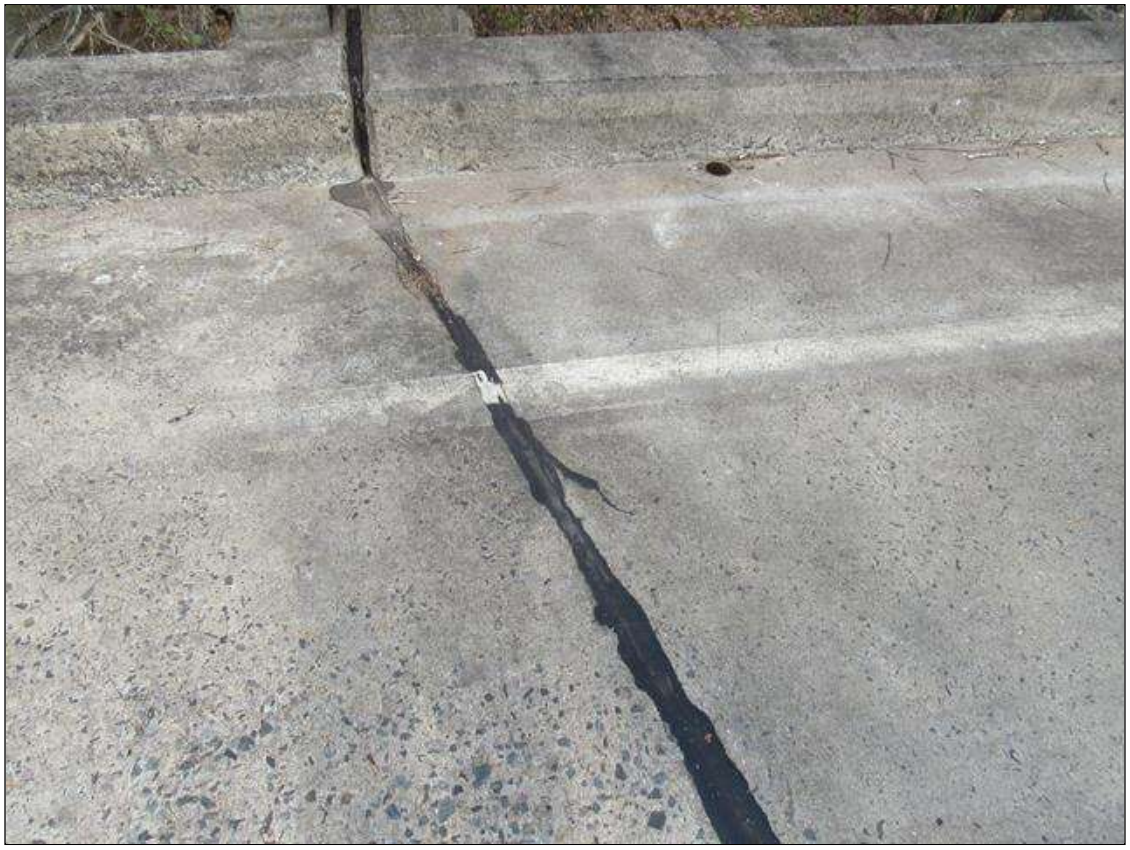
Expansion Joint 3 : 15 Feet of Seal Adhesion: Adhered for more than 50% of the joint height.
EXPANSION JOINT 3 HAS SEAL IS CRACKED ALONG EDGES AND LEAKING.



Expansion Joint 4 : 6 Feet of Seal Adhesion: Adhered for more than 50% of the joint height.
EXPANSION JOINT 4 HAS SEAL IS CRACKED ALONG EDGES AND LEAKING.



Expansion Joint 5 : 20 Feet of Seal Adhesion: Adhered for more than 50% of the joint height.
EXPANSION JOINT 5 HAS SEAL IS CRACKED ALONG EDGES AND LEAKING.



Expansion Joint 6 : 10 Feet of Seal Adhesion: Adhered for more than 50% of the joint height.
EXPANSION JOINT 6 HAS SEAL IS CRACKED ALONG EDGES AND LEAKING.



LOOKING WEST



POSTED SIGN 34/38 NE



FROM BRIDGE LOOKOING WEST



FROM BRIDGE LOOKING EAST



FROM BRIDGE LOOKING NORTH UP STREAM



FROM BRIDGE LOO0KING SOUTH DOWN STREAM



POSTED SIGN SOUTH WEST CORNER



LOOKING EAST



NORTH PROFILE



SOUTH PROFILE



EXPANSION JOINT OVER BENT 1



END BENT 2



9" UTILITY LINE UNDER LEFT OVER HANG



END BENT 2



SUPER STRUCTURE



BENT 2 WITH BENT 1, 3, 4 AND 5 ARE SIMILAR.

NATIONAL BRIDGE INVENTORY-------- STRUCTURE INVENTORY AND APPRAISAL Run Date: 07/12/2016

IDENTIFICATION

(1) STATE NAME -NORTH CAROLINA BRIDGE **540057**
(8) STRUCTURE NUMBER(FEDERAL) 000000001090057
(5) INVENTORY ROUTE (ON/UNDER) - ON 31012480
(2) STATE HIGHWAY DEPARTMENT DISTRICT 3
(3) COUNTY CODE 109 (4) PLACE CODE 0
(6) FEATURE INTERSECTED - SOUTH FORK CATAWBA RIVER
(7) FACILITY CARRIED SR1248
(9) LOCATION 0.5 MI. E. JCT. SR1252
(11)MILEPOINT 0
(16)LAT 35° 26' 18.45" (17)LONG 81° 14' 53.03"
(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 6
(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 1958
(106)YEAR RECONSTRUCTED
(42) TYPE OF SERVICE : ON - Highway
UNDER - Waterway CODE 15
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 0
(29) AVERAGE DAILY TRAFFIC 530
(30) YEAR OF ADT 2012 (109) TRUCK ADT PCT 6%
(19) BYPASS OR DETOUR LENGTH 1 MI

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN 54 FT
(49) STRUCTURE LENGTH 330 FT
(50)CURB OR SIDEWALK: LEFT 1.3335 FT RIGHT 1.3335 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 24 FT
(52) DECK WIDTH OUT TO OUT 26.417 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 18 FT
(33) BRIDGE MEDIAN - No Median CODE 0
(34) SKEW 15° (35) STRUCTURE FLARED 0
(10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 24 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY 999.9 FT
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad 0 FT
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad 000 FT
(56) MIN LAT UNDERCLEAR LT REF - 000 FT

NAVIGATION DATA

(38) NAVIGATION CONTROL - No Navigational Control CODE 0
(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 = 48.35
STATUS = Structurally Deficient

CLASSIFICATION — CODE

(112)NBIS BRIDGE SYSTEM - YES
(104)HIGHWAY SYSTEM Is not on NHS 0
(26) FUNCTIONAL CLASS - Local 09
(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 5
(59) SUPERSTRUCTURE 4
(60) SUBSTRUCTURE 5
(61) CHANNEL & CHANNEL PROTECTION 7
(62) CULVERTS N

LOAD RATING AND POSTING — CODE

(31) DESIGN LOAD H 15 2
(63) OPERATING RATING METHOD - Load Factor 1
(64) OPERATING RATING - HS-23 41
(65) INVENTORY RATING METHOD - Load Factor 1
(66) INVENTORY RATING - HS-13 24
(70) BRIDGE POSTING - Posting Required 3
(41) STRUCTURE OPEN, POSTED ,OR CLOSED P
DESCRIPTION - Posted for Load

APPRAISAL — CODE

(67) STRUCTURAL EVALUATION 4
(68) DECK GEOMETRY 4
(69) UNDERCLEARANCES,VERTI & HORIZ N
(71) WATERWAY ADEQUACY 7
(72) APPROACH ROADWAY ALIGNMENT 8
(36) TRAFFIC SAFETY FEATURES 0000
(113)SCOUR CRITICAL BRIDGES 8

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 1060 (115) YEAR FUTURE ADT 2025

INSPECTIONS

(90) INSPECTION DATE 03/07/2016
(92) CRITICAL FEATURE INSPECTION : (93) CFI DATE
A) FRACTURE CRIT DETAIL - NO A)
B) UNDERWATER INSP - YES 48Mo B) 02/12/2013
C) OTHER SPECIAL INSP NO C)
SCOUR

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 07/12/2016

COUNTY :	DIVISION :	DISTRICT:	STRUCTURE NUMBER :	LENGTH :
LINCOLN	12	3	540057	330 FEET

ROUTE CARRIED : SR1248

FEATURE INTERSECTED : SOUTH FORK CATAWBA RIVER

LOCATED : 0.5 MI. E. JCT. SR1252

BRIDGE NAME :

CITY :

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	530 2012	LT 141 RT 141

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1958	SHC	6.835001		H 15

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :
			TAN	75	ON 2 UNDER 0

NAVIGATION :	HT. CRN. TO BED :	WATER DEPTH :
VC 0 FT HC 0 FT	28 FT	8 FT

SUPERSTRUCTURE : REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE : END BENTS:RC CAP ON STEEL PILES,INT.BENTS:RC POST & BEAM

SPANS : 6@55'0

BEAMS OR GIRDERS : 4 LINES OF W33X141 I-BEAMS @ 7'0 CENTERS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
7 RC SLAB	UTILITY CONDUIT	26.417 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24 FT	26.667 FT	LT 1.3335 FT RT 1.3335 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :
HS-13	HS-23	Ext Bm	SV 34 TTST 38 DATE 09/30/2008

SYSTEM :	GREEN LINE ROUTE :
Secondary S.R. Route	N

UNDER ROUTES AND CLEARANCES

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 540057 County LINCOLN Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3314	Maintain Steel Superstructure Components	LF	2	SP 6 LT SIDE OF BM 4 OVR BNT 5 HAS 1/8" SECT LOSS ALNG BOTOM FLNG FRM END OF BM BACK 20". RT IS SIMILAR. VERT STRUT ON RT SIDE IS DWN TO A KNIFES EDG	
3314	Maintain Steel Superstructure Components	LF	2	SPN 6 LT SIDE OF BM1 OVER BNT5 HAS 3/8" SECT LOSE ALNG BOTM FLNG FM END OF BEAM BACK 14". VERT STRUT HAS HOLE 2 1/4" X 4 1/2". RT S HAS 1/8" SECT LOSS	
3314	Maintain Steel Superstructure Components	LF	2	SPN 5 LT SIDE OF B1 HAS 1/16" SECT LOSE FM END OF BM BACK 18".	
3314	Maintain Steel Superstructure Components	LF	1	SPN 4 RT SIDE OF B1 OVR BNT4 1/4" SECT LOSS ALNG BOTM FLNG FM BERING OUT 8". 1/8" LOSS OVR NXT 6". 1/8" LOS IN WEB BOTM FLNG UP 6". VERT STIFNER DWN T	
3314	Maintain Steel Superstructure Components	LF	3	SPN 4 B4 RT SIDE OVR BNT 4 HAS 5/16" SECT LOSS BEARING OUT 30" ALNG BOTM FLNG 1/8" LOSS IN WEB.	
3314	Maintain Steel Superstructure Components	LF	2	SPN 4 BM4 LT SDE AT BNT 4 BTM FLNG HAS 3/8" SCT LOS 8" FM CAP EXTS OUT 7" WEB 1/4" SECT LOS FM VERT STIF OUT 7" .VERT STIF KNIF EDG 2 1/2 H 3 1/2 W.	
3314	Maintain Steel Superstructure Components	LF	5	SPAN 4 LEFT SIDE OF B1 OVER BENT 3 HAS 1/8" SECTION LOSS ALONG BOTTOM FLANGE FROM CAP OUT 54". 1/16" LOSS IN WEB. RIGHT SIDE 1/16" 'LOSE OUT 12".	
3314	Maintain Steel Superstructure Components	LF	1	SPN 3 BM 4 LT SIDE OVR BNT 3 HAS 1/4" SECT LOSS ALONG BOTTOM FLNG FM BEARING OUT 12". 1/16" LOSS IN WEB VERT STIFNR 1/16 REMAINING IN AN AREA 2" X 3".	
3314	Maintain Steel Superstructure Components	LF	1	SPAN 3 RT SIDE OF BM 4 OVER BNT 3 1/16" LOSS ALONG BOTTOM FLANGE FM BEARING OUT 1'. VERT STIFNER DOWN TO KNIFES EDGE 3" H X 4" W. 1/16" LOSS IN WEB.	
3314	Maintain Steel Superstructure Components	LF	1	SPN 3 RT SD OF BM 4 OVR BNT 2 HAS 1/8" SECT LOSS ALNG BOTM FLANG FM BEARIG OUT 1'. 1/16" LOSS IN WEB. VERT STRUT DWN TO KNFS EDGE FM BOTM UP 3" & 4" W	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 540057 County LINCOLN Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3314	Maintain Steel Superstructure Components	LF	2	SPAN 3 LEFT SIDE OF B4 OVER BENT 2 HAS 1/16" SECTION LOSS BOTTOM FLANGE AND WEB AREA FM BEARING OUT 16" VERT STRUT DOWN TO KNIFES EDGE 21/2" H AND 4"W	
3314	Maintain Steel Superstructure Components	LF	3	SPAN 3 BM 2 RT SIDE HAS 1/8" TO 3/16" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 27" VERT STRUT HAS HOLE IN BOTTOM 3" H 4" W.	
3314	Maintain Steel Superstructure Components	LF	2	SPAN 3 BEAM 2 LT SIDE OVER BNT 2 HAS FM 1/8" TO 1/16" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 2'. VERT STIF HAS 1/8" SECT LOSS ALONG BOTTOM.	
3314	Maintain Steel Superstructure Components	LF	2	SPAN 3 BEAM 1 RT SIDE OVER BNT 2 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 20". VERTICAL STRUT BOTTOM 2" DOWN TO KNIFES EDGE 4" WIDE.	
3314	Maintain Steel Superstructure Components	LF	1	SPAN 2 RT SIDE OF BM 3 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 10". 1/8" LOSS IN WEB.	
3314	Maintain Steel Superstructure Components	LF	1	SPAN 2 RT SIDE OF BM 2 OVER BNT 2 3/16" SECT LOSS BOTOM FLANGE FM BEARING OUT 6". HOLE IN VERT STIF 3" H X 4" W.	
3314	Maintain Steel Superstructure Components	LF	1	SPAN 2 BM 2 LT SIDE OVER BENT 2 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 12". VERT STIFF DOWN TO KNIFES EDGE. 2 1/2" H X 4" W.	
3314	Maintain Steel Superstructure Components	LF	2	SPN 2 BM 1 RT SD HAS 1/16" TO 1/8" SECT LOS ALNG BTOM FLANG FM BRING OUT 22". 1/4" SECT LOSS EXTDS OUT 5" MORE.VERT STIFF. 1/8" REMAIN 2 3/4" X 4 1/2"	
3314	Maintain Steel Superstructure Components	LF	2	SPAN 2 RT SIDE OF BM 4 OVER BENT 1 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 2'.VERT STIFF IS RUSTED AWAY 4" W X 5 1/2" H.	

Key

Priority Maintenance Item Critical Finding Item Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540057 County LINCOLN

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Beams and Girders	Bent/Span No. 6	SPAN 6 LT BM 4

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SP 6 LT SIDE OF BM 4 OVR BNT 5 HAS 1/8" SECT LOSS ALNG BOTOM FLNG FRM END OF BM BACK 20". RT IS SIMILAR. VERT STRUT ON RT SIDE IS DWN TO A KNIFES EDG

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Beams and Girders	Bent/Span No. 6	SPAN 6 LT BM 1

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPN 6 LT SIDE OF BM1 OVER BNT5 HAS 3/8" SECT LOSE ALNG BOTM FLNG FM END OF BEAM BACK 14". VERT STRUT HAS HOLE 2 1/4" X 4 1/2". RT S HAS 1/8" SECT LOSS

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540057 County LINCOLN

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Beams and Girders	Bent/Span No. 5	SPAN 5 LT BM 1

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPN 5 LT SIDE OF B1 HAS 1/16" SECT LOSE FM END OF BM BACK 18".

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF

Location:		
Beams and Girders	Bent/Span No. 4	SPAN 4 RT BM 1

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPN 4 RT SIDE OF B1 OVR BNT4 1/4" SECT LOSS ALNG BOTM FLNG FM BERING OUT 8". 1/8" LOSS OVR NXT 6". 1/8" LOS IN WEB BOTM FLNG UP 6". VERT STIFNER DWN T

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540057 County LINCOLN

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	3 LF

Location:		
Beams and Girders	Bent/Span No. 4	SPAN 4 RT BM 4

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPN 4 B4 RT SIDE OVR BNT 4 HAS 5/16" SECT LOSS BEARING OUT 30" ALNG BOTM FLNG 1/8" LOSS IN WEB.

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Beams and Girders	Bent/Span No. 4	SPAN 4 LT BM 4

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPN 4 BM4 LT SDE AT BNT 4 BTM FLNG HAS 3/8" SCT LOS 8" FM CAP EXTS OUT 7" WEB 1/4" SECT LOS FM VERT STIF OUT 7" .VERT STIF KNIF EDG 2 1/2 H 3 1/2 W.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540057 County LINCOLN

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	5 LF

Location:		
Beams and Girders	Bent/Span No. 4	SPAN 4 LT BM 1

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPAN 4 LEFT SIDE OF B1 OVER BENT 3 HAS 1/8" SECTION LOSS ALONG BOTTOM FLANGE FROM CAP OUT 54". 1/16" LOSS IN WEB. RIGHT SIDE 1/16" 'LOSE OUT 12".

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF

Location:		
Beams and Girders	Bent/Span No. 3	SPAN 3 LT BM 4

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPN 3 BM 4 LT SIDE OVR BNT 3 HAS 1/4" SECT LOSS ALONG BOTTOM FLNG FM BEARING OUT 12". 1/16" LOSS IN WEB VERT STIFNR 1/16 REMAINING IN AN AREA 2" X 3".

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540057 County LINCOLN

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF

Location:		
Beams and Girders	Bent/Span No. 3	SPAN 3 RT BM 4

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPAN 3 RT SIDE OF BM 4 OVER BNT 3 1/16" LOSS ALONG BOTTOM FLANGE FM BEARING OUT 1'. VERT STIFNER DOWN TO KNIFES EDGE 3" H X 4" W. 1/16" LOSS IN WEB.

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF

Location:		
Beams and Girders	Bent/Span No. 3	SPAN 3 RT BM 4

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPN 3 RT SD OF BM 4 OVR BNT 2 HAS 1/8" SECT LOSS ALNG BOTM FLANG FM BEARIG OUT 1'. 1/16" LOSS IN WEB. VERT STRUT DWN TO KNFS EDGE FM BOTM UP 3" & 4" W

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540057 County LINCOLN

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Beams and Girders	Bent/Span No. 3	SPAN 3 LT BM 4

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPAN 3 LEFT SIDE OF B4 OVER BENT 2 HAS 1/16" SECTION LOSS BOTTOM FLANGE AND WEB AREA FM BEARING OUT 16" VERT STRUT DOWN TO KNIFES EDGE 21/2" H AND 4"W

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	3 LF

Location:		
Beams and Girders	Bent/Span No. 3	SPAN 3 RT BM 2

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPAN 3 BM 2 RT SIDE HAS 1/8" TO 3/16" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 27" VERT STRUT HAS HOLE IN BOTTOM 3" H 4" W.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540057 County LINCOLN

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Beams and Girders	Bent/Span No. 3	SPAN 3 LT BM 2

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPAN 3 BEAM 2 LT SIDE OVER BNT 2 HAS FM 1/8" TO 1/16" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 2'. VERT STIF HAS 1/8" SECT LOSS ALONG BOTTOM.

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Beams and Girders	Bent/Span No. 3	SPAN 3 RT BM 1

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPAN 3 BEAM 1 RT SIDE OVER BNT 2 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 20". VERTICAL STRUT BOTTOM 2" DOWN TO KNIFES EDGE 4" WIDE.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540057 County LINCOLN

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF

Location:		
Beams and Girders	Bent/Span No. 2	SPAN 2 RT BM 3

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPAN 2 RT SIDE OF BM 3 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 10". 1/8" LOSS IN WEB.

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF

Location:		
Beams and Girders	Bent/Span No. 2	SPAN 2 RT BM 2

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPAN 2 RT SIDE OF BM 2 OVER BNT 2 3/16" SECT LOSS BOTOM FLANGE FM BEARING OUT 6". HOLE IN VERT STIF 3" H X 4" W.

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540057 County LINCOLN

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	1 LF

Location:		
Beams and Girders	Bent/Span No. 2	SPAN 2 LT BM 2

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPAN 2 BM 2 LT SIDE OVER BENT 2 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 12". VERT STIFF DOWN TO KNIFES EDGE. 2 1/2" H X 4" W.

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Beams and Girders	Bent/Span No. 2	SPAN 2 RT BM 1

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPN 2 BM 1 RT SD HAS 1/16" TO 1/8" SECT LOS ALNG BTOM FLANG FM BRING OUT 22". 1/4" SECT LOSS EXTDS OUT 5" MORE.VERT STIFF. 1/8" REMAIN 2 3/4" X 4 1/2"

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 540057 County LINCOLN

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

MMS Code	MMS Description	Quantity
3314	Maintain Steel Superstructure Components	2 LF

Location:		
Beams and Girders	Bent/Span No. 2	SPAN 2 RT BM 4

Priority Level	Status
Priority Maintenance	Division Bridge Maintenance Notification

Submitted Date:	Submitted By:	Assisted By:
03/07/2016	RD WILLIAMS	CARLTON ADAMS

Details

SPAN 2 RT SIDE OF BM 4 OVER BENT 1 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 2'.VERT STIFF IS RUSTED AWAY 4" W X 5 1/2" H.

Structure 540057 County LINCOLN Date: Condition Photos



SP 6 LT SIDE OF BM 4 OVR BNT 5 HAS 1/8" SECT LOSS ALNG BOTOM FLNG FRM END OF BM BACK 20". RT IS SIMILAR. VERT STRUT ON RT SIDE IS DWN TO A KNIFES EDG



SPN 6 LT SIDE OF BM1 OVER BNT5 HAS 3/8" SECT LOSE ALNG BOTM FLNG FM END OF BEAM BACK 14". VERT STRUT HAS HOLE 2 1/4" X 4 1/2". RT S HAS 1/8" SECT LOSS



SPN 5 LT SIDE OF B1 HAS 1/16" SECT LOSE FM END OF BM BACK 18".

Structure 540057 County LINCOLN Date: Condition Photos



BENT 4 COLUM 2 ON EAST FACE AT WATER LINE SPALL AREA 20" WIDE WATER LINE UP 18" 3" DEEP REBAR EXPOSED.



SPN 4 RT SIDE OF B1 OVR BNT4 1/4" SECT LOSS ALNG BOTM FLNG FM BERING OUT 8". 1/8" LOSS OVR NXT 6". 1/8" LOS IN WEB BOTM FLNG UP 6". VERT STIFNER DWN T



SPN 4 B4 RT SIDE OVR BNT 4 HAS 5/16" SECT LOSS BEARING OUT 30" ALNG BOTM FLNG 1/8" LOSS IN WEB.



SPN 4 BM4 LT SDE AT BNT 4 BTM FLNG HAS 3/8" SCT LOS 8" FM CAP EXTS OUT 7" WEB 1/4" SECT LOS FM VERT STIF OUT 7" .VERT STIF KNIF EDG 2 1/2 H 3 1/2 W.

Structure 540057 County LINCOLN Date: Condition Photos



SPAN 4 LEFT SIDE OF B1 OVER BENT 3 HAS 1/8" SECTION LOSS ALONG BOTTOM FLANGE FROM CAP OUT 54". 1/16" LOSS IN WEB. RIGHT SIDE 1/16" 'LOSE OUT 12".



SPN 3 BM 4 LT SIDE OVR BNT 3 HAS 1/4" SECT LOSS ALONG BOTTOM FLNG FM BEARING OUT 12". 1/16" LOSS IN WEB VERT STIFNR 1/16 REMAINING IN AN AREA 2" X 3".



SPAN 3 RT SIDE OF BM 4 OVER BNT 3 1/16" LOSS ALONG BOTTOM FLANGE FM BEARING OUT 1'. VERT STIFNER DOWN TO KNIFES EDGE 3" H X 4" W. 1/16" LOSS IN WEB.

Structure 540057 County LINCOLN Date: Condition Photos



SPN 3 RT SD OF BM 4 OVR BNT 2 HAS 1/8" SECT LOSS ALNG BOTM FLANG FM BEARIG OUT 1'. 1/16" LOSS IN WEB. VERT STRUT DWN TO KNFS EDGE FM BOTM UP 3" & 4" W

Structure 540057 County LINCOLN Date: Condition Photos



SPAN 3 LEFT SIDE OF B4 OVER BENT 2 HAS 1/16" SECTION LOSS BOTTOM FLANGE AND WEB AREA FM BEARING OUT 16" VERT STRUT DOWN TO KNIFES EDGE 21/2" H AND 4"W



SPAN 3 BM 2 RT SIDE HAS 1/8" TO 3/16" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 27" VERT STRUT HAS HOLE IN BOTTOM 3" H 4" W.



SPAN 3 BEAM 2 LT SIDE OVER BNT 2 HAS FM 1/8" TO 1/16" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 2'. VERT STIF HAS 1/8" SECT LOSS ALONG BOTTOM.



SPAN 3 BEAM 1 RT SIDE OVER BNT 2 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 20". VERTICAL STRUT BOTTOM 2" DOWN TO KNIFES EDGE 4" WIDE.



SPAN 2 BM 4 LT SIDE OVER BNT 2 HAS 1/16" SECT LOSS ALONG BOTTOM FLANGE FM STIFFENER OUT 24".

Structure 540057 County LINCOLN Date: Condition Photos



SPAN 2 RT SIDE OF BM 3 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 10". 1/8" LOSS IN WEB.

Structure 540057 County LINCOLN Date: Condition Photos



SPN 2 LT SID OF BM 3 OVR BNT 2 HAS FM 3/16" TO 1/4" SECT LOSS ALNG BOTOM FLNGE FM BERING OUT 2' 1/8" LOSS IN WEBB VERT STIF DWN TO KNF EDG 3" H X 4" L



SPAN 2 RT SIDE OF BM 2 OVER BNT 2 3/16" SECT LOSS BOTOM FLANGE FM BEARING OUT 6". HOLE IN VERT STIF 3" H X 4" W.



SPAN 2 BM 2 LT SIDE OVER BENT 2 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 12". VERT STIFF DOWN TO KNIFES EDGE. 2 1/2" H X 4" W.



SPN 2 BM 1 RT SD HAS 1/16" TO 1/8" SECT LOS ALNG BTOM FLANG FM BRING OUT 22". 1/4" SECT LOSS EXTDS OUT 5" MORE.VERT STIFF. 1/8" REMAIN 2 3/4" X 4 1/2"



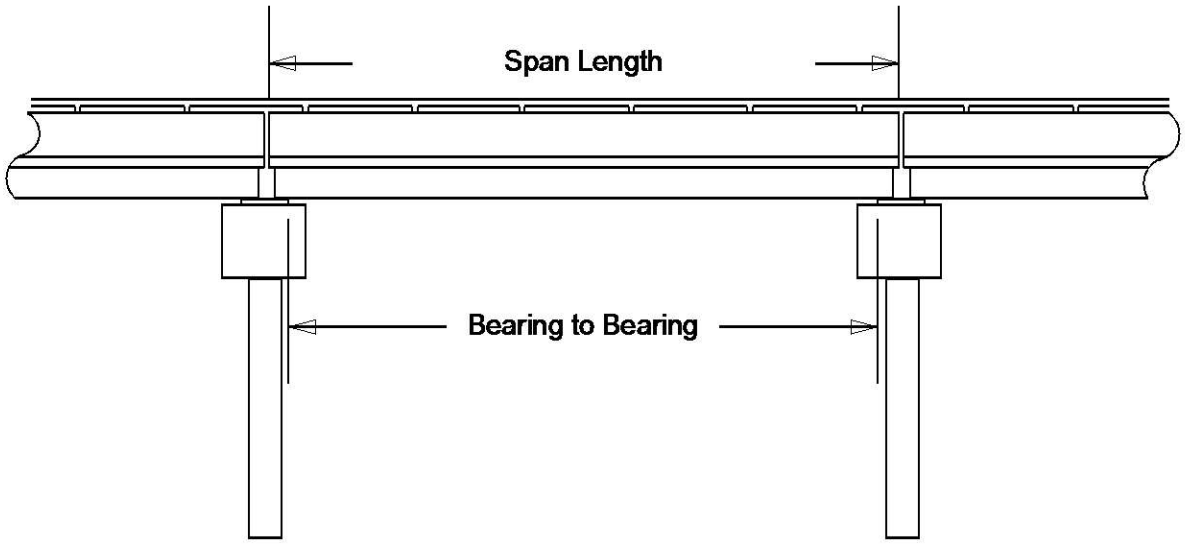
SPN 1 LT SIDE OF BM4 OVR BNT 1 HAS 3/16" SECT LOSS ALONG BOTOM FLANG FM END OF BEAM OUT 2' 1/8" LOSS IN WEB. VERT STIFF DWN TO KNIFES EDGE 2" H X 3" W



SPAN 2 RT SIDE OF BM 4 OVER BENT 1 HAS 1/8" SECT LOSS ALONG BOTTOM FLANGE FM BEARING OUT 2'.VERT STIFF IS RUSTED AWAY 4" W X 5 1/2" H.

Structure Data Worksheet

County: LINCOLN **Structure No:** 540057 **Date:** **Inspected By:** RDW



Span No	Span Length	Bearing to Bearing	Comments
1	55.000'	52.750'	
2	55.000'	53.833'	
3	55.000'	53.833'	
4	55.000'	53.833'	
5	55.000'	53.833'	
6	55.000'	52.750'	NBIS=324'

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 540057 **County:** LINCOLN **Date:** _____ **By:** RDW

Record sounding from top of rail. Other location if needed: _____

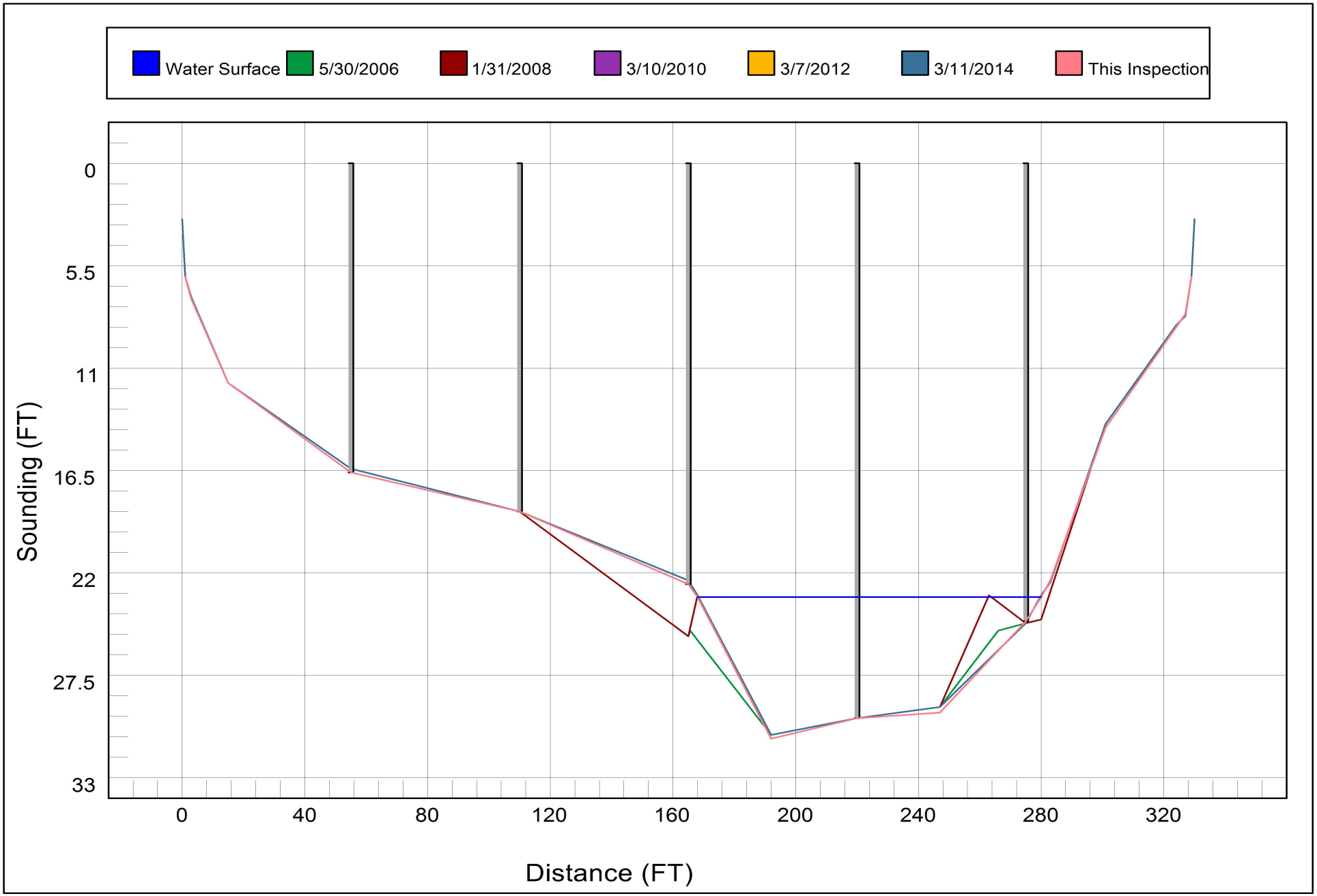
Distance from Highwater Mark to top of rail: _____ **Location of Highwater Mark:** _____

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
1	6.1	TOP CAP			
3	7.3	GROUND ABUT 1	3	7.7	ABUT 1
15	11.8				
55	16.6	BENT 1	55	16.4	BENT 1
110	18.7	BENT 2	110	18.3	BENT 2
165	22.6	BENT 3	165	24.8	BENT 3
168	23.3	WSWE			
192	30.9				
220	29.8	BENT 4	220	29.5	BENT 4
247	29.5				
275	24.6	BENT 5	275	25.2	BENT 5
280	23.3	WSWE			
283	22.4				
301	14.2				
327	8.1	GROUND ABUT 2	327	8	ABUT 2
329	6.1	TOP CAP			

Bridge: 540057 County LINCOLN Date:

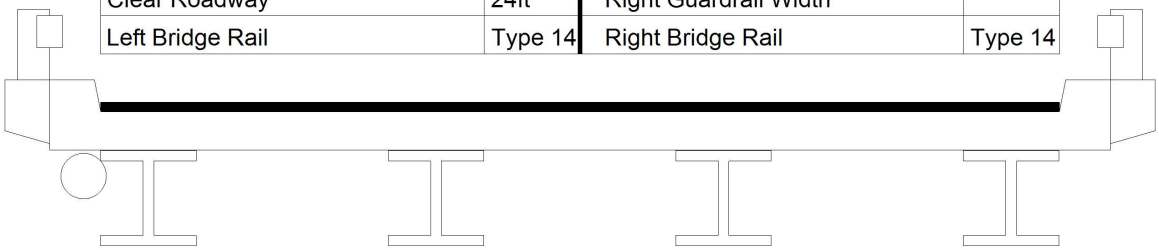
STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

Deck Width/Out to Out	26.417ft	Wearing Surface	
Between Rails	26.667ft	Median Width	
Curb Height	0.833ft	Median Height	
Top Rail to Deck/Wearing Surface	2.833ft	Left Guardrail Width	
Clear Roadway	24ft	Right Guardrail Width	
Left Bridge Rail	Type 14	Right Bridge Rail	Type 14



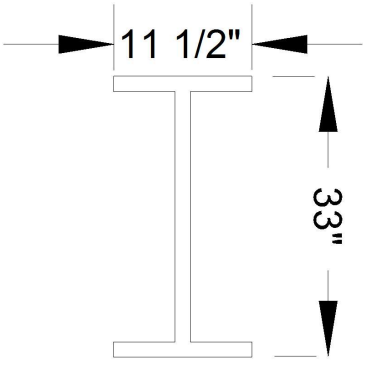
Measurements for Span #	1		
Deck Thickness	0.583	Left Overhang	2.667
Top of Rail to Bottom of Beam	6.167	Right Overhang	2.667

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	7.0'	
2	Steel I Beam	7.0'	
3	Steel I Beam	7.0'	
4	Steel I Beam		

10" CAST IRON PIPE UNDER LT. O'HANG

BEAMS

(NON-TAPERED FLANGES)



FLANGES = 3/4"
WEB = 5/8"

VERIFIED BY DERK RICKUS ON 3-11-2014

MEASUREMENTS VERIFIED BY RD WILLIAMS 3/7/16

Title	Description
DECK SECTION	TOP AND BOTTOM DETAILS

Bridge No:	Drawn By:	Date:	File Name:
540057	DEREK RICKUS	1/22/08	S0142000695

Bridge Inspection Field Sketch



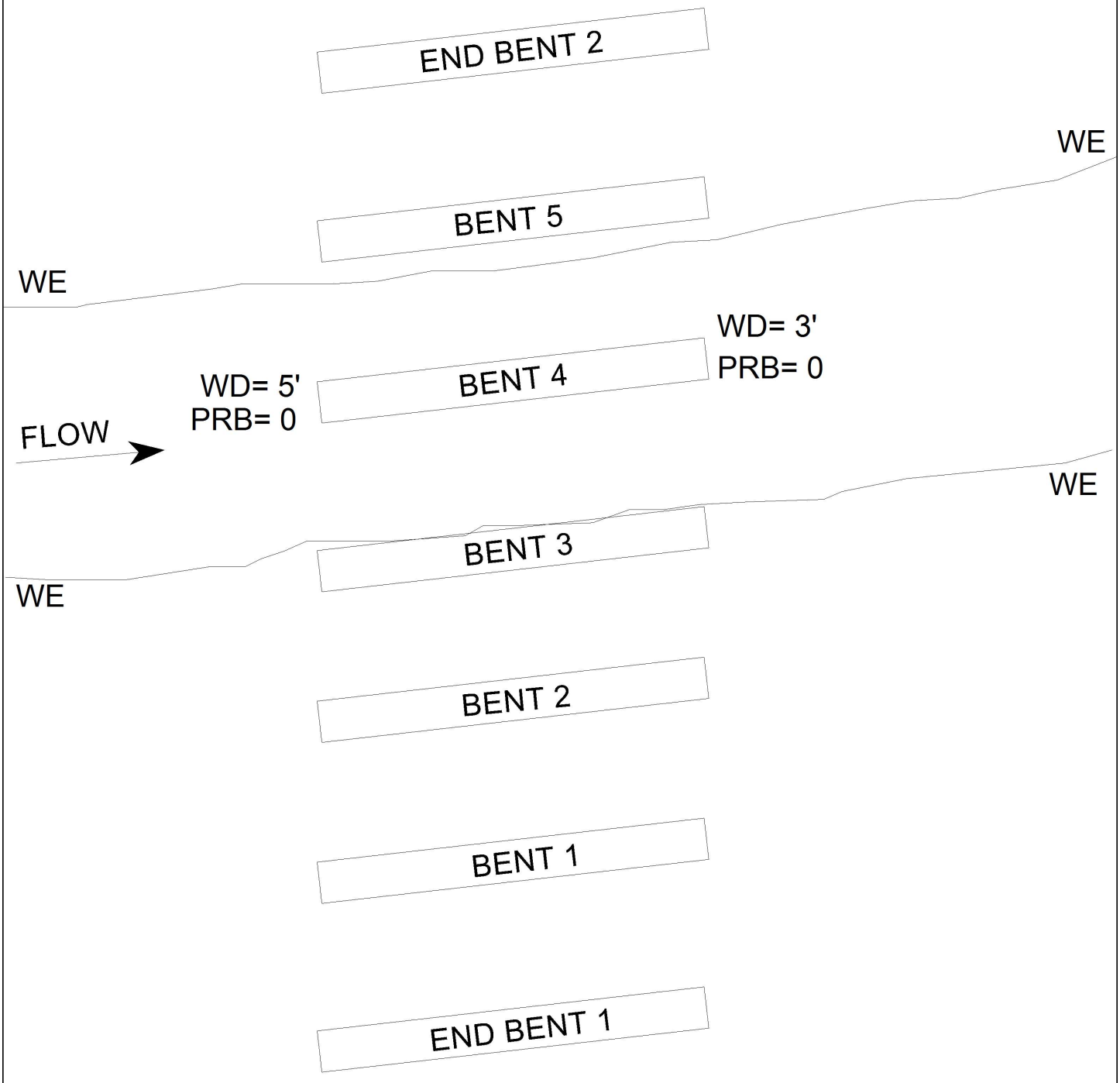
Roadway	18.333ft Wide	2 Paved Lanes	Looking East
Left Shoulder	5ft Wide		5ft Unpaved
Right Shoulder	5ft Wide		5ft Unpaved
Left Guardrail			
Right Guardrail			

MEASUREMENTS VERIFIED BY R WILLIAMS 3/7/16
VERIFIED BY DERK RICKUS ON 3-11-2014

Title	**Description**
APPROACH	LOOKING EAST

Bridge No: 540057	**Drawn By:** DCR	**Date:** 1/22/08	**File Name:** S0142000696

Bridge Inspection Field Sketch



Title	Description
PLAN VIEW	PLAN VIEW

Bridge No:	Drawn By:	Date:	File Name:
540057	JOHN HOUSTON	2/12/2013	S0150000691

Bridge Inspection Field Sketch

VERTICAL FOOTING EXPOSURES

BENT	COLUMN	NE	SE	SW	NW
4	1	21"	16"	16"	22"
	2	3"	4"	2"	13"

Title
VERTICAL FOOTING EXPOSURES

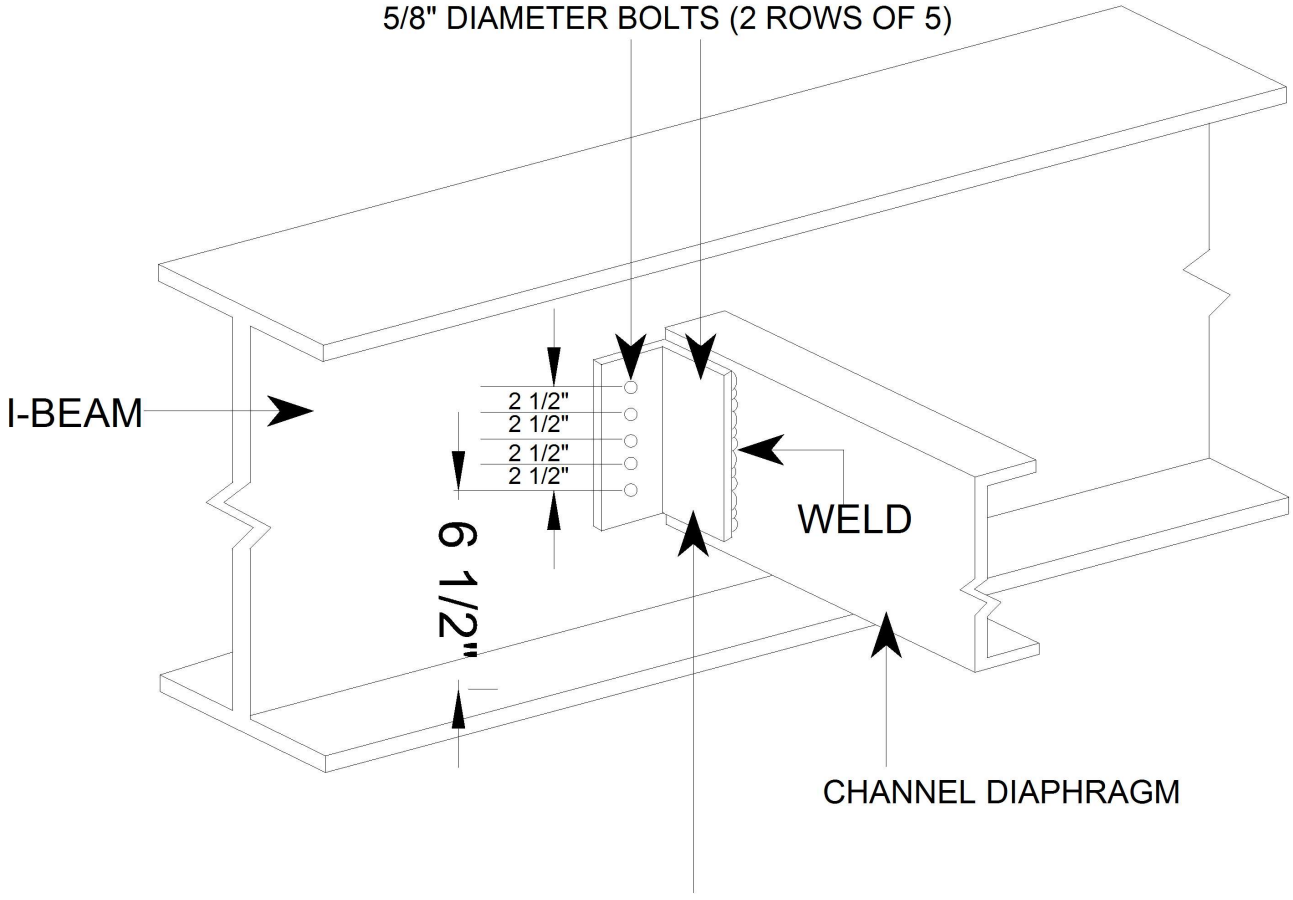
Description
VERTICAL FOOTING EXPOSURES

Bridge No: 540057 | **Drawn By:** JOHN HOUSTON | **Date:** 2/12/2013 | **File Name:** S0150000692

Bridge Inspection Field Sketch

DIAPHRAGM DETAILS

LOCATIONS: 1/3 POINTS OF SPANS

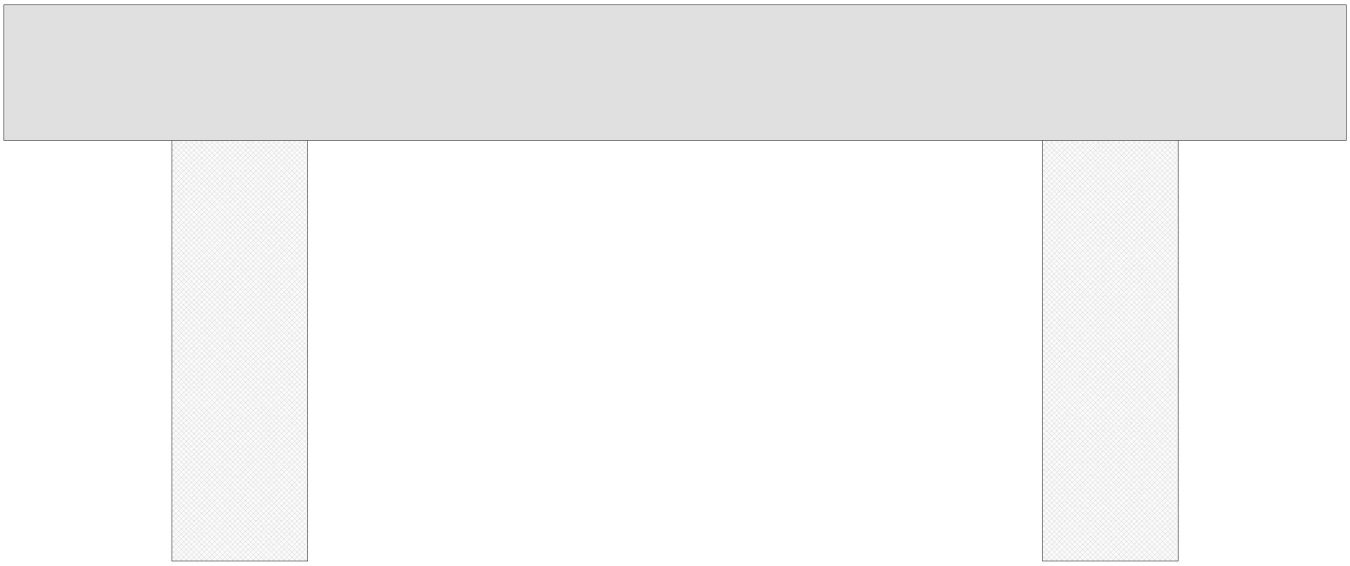


VERIFIED BY DERK RICKUS ON 3-11-2014

Title	**Description**
INTERMEDIATE DIAPHRAGMS	DIAPHRAGM DETAILS

Bridge No:	**Drawn By:**	**Date:**	**File Name:**
540057	DELVIN ADAMS	3/7/2012	S0146031623

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.
24.667 ft.	2.500 ft.	2.500 ft.	4.333 ft.	4.333 ft.	1.917 ft.	1.917 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	16.000 ft.	2.500 ft.	2.333 ft.		Vertical	No	No	No	No
2	Concrete		2.500 ft.	2.333 ft.		Vertical	No	No	No	No

MEASUREMENTS VERIFIED BY RD WILLIAMD 3/7/16
VERIFIED BY DERK RICKUS ON 3-11-2014

Bent/Abutment #: 1 Similar Bents: 2,3,4,5

Title	**Description**
INTERIOR BENTS	SUBSTRUCTURE DETAILS

Bridge No: 540057	**Drawn By:** DELVIN ADAMS	**Date:** 3/7/2012	**File Name:** S0146031624