



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: **PRIORITY MAINTENANCE, CHANGE TO STRUCTURE DATA**

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: WAKE STRUCTURE NUMBER: 910260 FREQUENCY: 24 MONTHS
FACILITY CARRIED: I440 MILE POST: 6.5
LOCATION: 1.88 MI.N.E.SR1676
FEATURE INTERSECTED: US70
LATITUDE: 35° 50' 7.05" LONGITUDE: 78° 40' 10.1"
SUPERSTRUCTURE: RC FLOOR/I-BEAMS(WIDENED)
SUBSTRUCTURE: EBTS:RC CAP/PRESTR.CONC.PILES;BTS:RCP&B/PILE FTGS.
SPANS: 2@67';1@70'6;1@45'
☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION
PRESENT CONDITION: Fair INSPECTION DATE: 07/12/2016
POSTED SV: Not Posted POSTED TTST: Not Posted
OTHER SIGNS PRESENT: None



South Approach Looking North

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

INSPECTED BY Jacob H Duke	SIGNATURE 	ASSISTED BY George L Teague
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Structure Element Scoring

Structure Number: **910260**

Inspection Date **7/12/2016**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	0	Reinforced Concrete Deck	Deck	35202	34850	313	39	0
107	0	Steel Open Girder/Beam	Beam	5000	2963	2029	8	0
515	107	Steel Protective Coating	Beam	49840	46508	0	0	3332
205	0	Reinforced Concrete Column	Piles and Columns	20	20	0	0	0
215	0	Reinforced Concrete Abutment	Abutments	290	288	0	2	0
225	0	Steel Pile	Piles and Columns	7	7	0	0	0
227	0	Reinforced Concrete Pile	Piles and Columns	10	9	0	1	0
234	0	Reinforced Concrete Pier Cap	Caps	756	728	23	5	0
521	234	Concrete Protective Coating	Caps	2004	2003	0	0	1
302	0	Compression Joint Seal	Expansion Joints	780	671	104	5	0
316	0	Other Bearings	Bearing Device	160	77	72	11	0
515	316	Steel Protective Coating	Bearing Device	160	77	0	0	83
321	0	Reinforced Concrete Approach Slabs	Approaches	3264	3168	0	96	0
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	750	639	109	2	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: **910260**

Inspection Date: **07/12/2016**

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Cracking (RC and Other)	55 Square Feet
3326	Reinforced Concrete Deck	Delamination/Spall	15 Square Feet
3314	Steel Open Girder/Beam	Corrosion	8 Feet
3350	Reinforced Concrete Abutment	Delamination/Spall	5 Feet
3348	Reinforced Concrete Pile	Delamination/Spall	2 Each
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	9 Feet
3348	Reinforced Concrete Pier Cap	Damage	2 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	5 Feet
3348	Reinforced Concrete Pier Cap	Patched Area	1 Feet
3310	Compression Joint Seal	Seal Cracking	11 Feet
3310	Compression Joint Seal	Debris Impaction	93 Feet
3310	Compression Joint Seal	Adjacent Deck or Header	5 Feet
3334	Other Bearings	Corrosion	11 Each
3334	Other Bearings	Connection	1 Each
3318	Reinforced Concrete Bridge Railing	Delamination/Spall	2 Feet
3342	Steel Protective Coating	Peeling/Bubbling/Cracking (steel Protective Coatings)	1835 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	1580 Square Feet
5603	Concrete Protective Coating	Effectiveness (Concrete Protective Coatings)	1 Square Feet

Element Structure Maintenance Quantities

Structure Number: **910260**

Inspection Date **07/12/2016**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	5	290	0	2	0	288
Approaches	3353	Maintenance of Concrete Bridge Approach Slabs	96	3264	0	96	0	3168
Beam	3314	Maintenance Steel Superstructure Components	8	5000	0	8	2029	2963
Beam	3342	Clean and Paint Steel	3332	49840	3332	0	0	46508
Bearing Device	3334	Bridge Bearing	12	160	0	11	72	77
Bearing Device	3342	Clean and Paint Steel	83	160	83	0	0	77
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	2	750	0	2	109	639
Caps	3348	Maintenance of Concrete Substructure	17	756	0	5	23	728
Caps	5603	Partial Cleaning and Painting of Structural Steel	1	2004	1	0	0	2003
Deck	3326	Maintenance of Concrete Deck	70	35202	0	39	313	34850
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	109	780	0	5	104	671
Piles and Columns	3348	Maintenance of Concrete Substructure	2	30	0	1	0	29
Piles and Columns	3354	Maintenance of Steel Substructure Components	0	7	0	0	0	7

Element Condition and Maintenance Data

Structure Number: 910260

Inspection Date: 07/12/2016

Span 1 Deck

Reinforced Concrete Deck

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	9,453	9,330	111	12	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	Deck Surface (I-440 inner): cracking up to (1/8") wide at end bent 1	3	10	10	Square Feet
12	Delamination/Spall	Deck Bottom Bay 3 at first diaphragm: delam/spall with exposed rebar (24" x 12" x 1 1/2")	3	2	2	Square Feet
12	Cracking (RC and Other)	Deck Surface (I-440 outer): cracking up to (1/32") wide	2	30	30	Square Feet
12	Efflorescence/Rust Staining	Deck Bottom Bay 12: transverse surface efflorescence	2	30		Square Feet
12	Efflorescence/Rust Staining	Deck Bottom Bay 2: transverse surface efflorescence	2	6		Square Feet
12	Efflorescence/Rust Staining	Deck Bottom Bay 8: transverse surface efflorescence	2	45		Square Feet

General Comments

Span 1 Left Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	67	61	6	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Efflorescence/Rust Staining	surface efflorescence	2	6		Feet

General Comments

Span 1 Right Bridge Rail

Concrete Railing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	67	52	15	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Efflorescence/Rust Staining	surface efflorescence	2	15		Feet

General Comments

Span 1 Joint over End Bent 1

Compression Seal

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
302	Compression Joint Seal	156	138	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
302	Debris Impaction	(I-440 inner): debris at the joint ends	2	8	8	Feet
302	Debris Impaction	(I-440 outer): debris at the joint ends	2	10	10	Feet

General Comments**Span 1****Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	67	0	67	0	0	Feet
515	Steel Protective Coating	669	609	0	0	60	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	67		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	40	40	Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	20	20	Square Feet

General Comments

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	corrosion and scale	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 1**Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	67	47	20	0	0	Feet
515	Steel Protective Coating	669	639	0	0	30	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	20	20	Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	10	10	Square Feet

General Comments

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 1**Beam 5****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	67	47	20	0	0	Feet
515	Steel Protective Coating	669	639	0	0	30	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	20		Feet

Structure Number: **910260**Inspection Date: **07/12/2016**

515	Effectiveness (Steel Protective Coatings)	no longer effective	4	20	20	Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	10	10	Square Feet

General Comments

Span 1 Near Bearing

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments

Span 1 Far Bearing

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments

Span 1 Beam 6

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	67	0	67	0	0 Feet
515	Steel Protective Coating	669	569	0	0	100 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	surface corrosion	2	67	Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	70	70 Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	30	30 Square Feet

General Comments

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	surface corrosion	2	1			Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1		Square Feet
General Comments							

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	surface corrosion	2	1			Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1		Square Feet
General Comments							

Span 1**Beam 7****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	67	37	30	0	0	Feet
515	Steel Protective Coating	669	639	0	0	30	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
107	Corrosion	surface corrosion	2	30			Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	15	15		Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	15	15		Square Feet
General Comments							

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	surface corrosion	2	1			Each

Structure Number: **910260**Inspection Date: **07/12/2016**

515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet
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General Comments**Span 1 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments**Span 1 Beam 8****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	67	37	30	0	0 Feet
515	Steel Protective Coating	669	639	0	0	30 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	surface corrosion	2	30	Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	15	15 Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	15	15 Square Feet

General Comments**Span 1 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments

Span 1 Far Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 1 Beam 9**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	67	59	8	0	0	Feet
515	Steel Protective Coating	669	666	0	0	3	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	8		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	3	3	Square Feet

General Comments

Span 1 Beam 13**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	67	0	67	0	0	Feet
515	Steel Protective Coating	669	609	0	0	60	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	67		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	30	30	Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	30	30	Square Feet

General Comments

Span 1 Near Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	corrosion and scale	3	1	1	Each

Structure Number: **910260**Inspection Date: **07/12/2016**

515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet
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General Comments**Span 1 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	corrosion and scale	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments**Span 1 Beam 14****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	67	27	40	0	0 Feet
515	Steel Protective Coating	669	624	0	0	45 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	surface corrosion	2	40	Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	30	30 Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	15	15 Square Feet

General Comments**Span 1 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments

Span 1**Beam 15****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	67	37	30	0	0	Feet
515	Steel Protective Coating	669	639	0	0	30	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	30		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	25	25	Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	5	5	Square Feet

General Comments

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 1**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 1**Beam 16****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	67	22	45	0	0	Feet
515	Steel Protective Coating	669	489	0	0	180	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	45		Feet

Structure Number: **910260**Inspection Date: **07/12/2016**

515	Effectiveness (Steel Protective Coatings)	no longer effective	4	30	30	Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	150	150	Square Feet

General Comments**Span 1 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments**Span 1 Beam 17****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	67	0	67	0	0 Feet
515	Steel Protective Coating	669	459	0	0	210 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	surface corrosion	2	67	Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	60	60 Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	150	150 Square Feet

General Comments**Span 1 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments

Span 1**Beam 18****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	67	47	20	0	0	Feet
515	Steel Protective Coating	669	654	0	0	15	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	10	10	Square Feet
515	Peeling/Bubbling/Crack	exposure of bare metal ing (steel Protective Coatings)	4	5	5	Square Feet

General Comments

Span 1 Beam 18 first bottom flange splice: missing (x1) bolt (hole does not go through the bottom flange of the beam)

Span 1**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments**Span 1****Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments**Span 1****Median Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	67	60	7	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Efflorescence/Rust Staining	surface efflorescence	2	7		Feet

General Comments

Missing the expansion plate on the left face at end bent 1

Span 2**Deck****Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
12	Reinforced Concrete Deck	9,453	9,363	86	4	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
12	Cracking (RC and Other)	Deck Surface (I-440 inner): cracking up to (1/16") wide at bent 2	3	4	4 Square Feet
12	Efflorescence/Rust Staining	Deck Bottom Bay 12: transverse surface efflorescence	2	50	Square Feet
12	Efflorescence/Rust Staining	Deck Bottom Bay 2: transverse surface efflorescence	2	6	Square Feet
12	Efflorescence/Rust Staining	Deck Bottom Bay 8: transverse surface efflorescence	2	30	Square Feet

General Comments

Span 2**Joint over Bent 1****Compression Seal**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
302	Compression Joint Seal	156	135	21	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
302	Debris Impaction	(I-440 outer): debris at the joint ends	2	10	10 Feet
302	Seal Cracking	(I-440 inner): debris at the joint ends	2	11	11 Feet

General Comments

Span 2**Left Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	67	60	7	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Efflorescence/Rust Staining	surface efflorescence	2	7	Feet

General Comments

Span 2**Right Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinforced Concrete Bridge Railing	67	56	11	0	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
331	Efflorescence/Rust Staining	surface efflorescence	2	11	Feet

General Comments

Span 2**Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	67	0	67	0	0 Feet
515	Steel Protective Coating	669	599	0	0	70 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	surface corrosion	2	67	Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	60	60 Square Feet
515	Peeling/Bubbling/Crack	exposure of bare metal ing (steel Protective Coatings)	4	10	10 Square Feet

General Comments**Span 2****Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments**Span 2****Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments**Span 2****Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	67	0	67	0	0 Feet
515	Steel Protective Coating	669	599	0	0	70 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
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107	Corrosion	surface corrosion	2	67	Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	60	60 Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	10	10 Square Feet

General Comments

Span 2 Near Bearing

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments

Span 2 Far Bearing

Other Bearing

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments

Span 2 Beam 5

Plate Girder

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	67	27	40	0	0 Feet
515	Steel Protective Coating	669	629	0	0	40 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	surface corrosion	2	40	Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	40	40 Square Feet

General Comments

Span 2**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	surface corrosion	2	1			Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1		Square Feet
General Comments							

Span 2**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	surface corrosion	2	1			Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1		Square Feet
General Comments							

Span 2**Beam 6****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	67	0	67	0	0	Feet
515	Steel Protective Coating	669	609	0	0	60	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
107	Corrosion	surface corrosion	2	67			Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	60	60		Square Feet
General Comments							

Span 2**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty		
316	Corrosion	surface corrosion	2	1			Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1		Square Feet

General Comments**Span 2 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments**Span 2 Beam 7****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	67	27	40	0	0	Feet
515	Steel Protective Coating	669	624	0	0	45	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	40		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	40	40	Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	5	5	Square Feet

General Comments**Span 2 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 2 Far Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 2 Beam 8**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	67	27	40	0	0	Feet
515	Steel Protective Coating	669	639	0	0	30	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	40		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	30	30	Square Feet

General Comments

Span 2 Near Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 2 Far Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments**Span 2 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments**Span 2 Beam 13****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	67	0	59	8	0	Feet
515	Steel Protective Coating	669	589	0	0	80	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	Bottom Flange at Bent 1: corrosion and scale with no measureable section loss	3	8	8	Feet
107	Corrosion	surface corrosion	2	59		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	80	80	Square Feet

General Comments**Span 2 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	corrosion and scale	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 2 Far Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	corrosion and scale	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 2 Beam 14**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	67	0	67	0	0	Feet
515	Steel Protective Coating	669	629	0	0	40	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	67		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	40	40	Square Feet

General Comments

Span 2 Near Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 2 Far Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments**Span 2 Beam 15****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	67	0	67	0	0 Feet
515	Steel Protective Coating	669	604	0	0	65 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	surface corrosion	2	67	Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	60	60 Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	5	5 Square Feet

General Comments**Span 2 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments**Span 2 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments

Span 2**Beam 16****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	67	0	67	0	0	Feet
515	Steel Protective Coating	669	599	0	0	70	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	67		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	60	60	Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	10	10	Square Feet

General Comments

Span 2**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 2**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 2**Beam 17****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	67	17	50	0	0	Feet
515	Steel Protective Coating	669	629	0	0	40	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	50		Feet

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515	Effectiveness (Steel Protective Coatings)	no longer effective	4	40	40	Square Feet
General Comments						

Span 2 Near Bearing

Other Bearing

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings		1	0	1	0	0	Each
515	Steel Protective Coating		1	0	0	0	1	Square Feet

Element Number	Defect Type		Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion		2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective		4	1	1	Square Feet
General Comments							

Span 2 Far Bearing

Other Bearing

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings		1	0	1	0	0 Each
515	Steel Protective Coating		1	0	0	0	1 Square Feet

Element Number	Defect Type		Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion		2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective		4	1	1 Square Feet
General Comments						

Span 2 Beam 18

Plate Girder

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam		67	37	30	0	0 Feet
515	Steel Protective Coating		669	644	0	0	25 Square Feet

Element Number	Defect Type		Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	surface corrosion		2	30	Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective		4	25	25 Square Feet
General Comments						

Span 2**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 2**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 2**Median Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	67	56	11	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Efflorescence/Rust Staining	surface efflorescence	2	11		Feet

General Comments

Span 3**Deck****Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	9,947	9,832	99	16	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	Deck Surface (I-440 inner) right middle lane: transverse cracking up to (1/16") wide	3	4	4	Square Feet
12	Delamination/Spall	Deck Surface (I-440 inner) right lane at 9' from bent 2: deterioration/spall with no exposed steel (36" x 48" x 1 1/2")	3	12	12	Square Feet
12	Efflorescence/Rust Staining	Deck Bottom Bay 12: transverse surface efflorescence	2	40		Square Feet
12	Efflorescence/Rust Staining	Deck Bottom Bay 2: transverse surface efflorescence	2	5		Square Feet

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12	Efflorescence/Rust Staining	Deck Bottom Bay 8: transverse surface efflorescence	2	45	Square Feet
12	Patched Areas	Deck Bottom Bay 17 at 10' from bent 3: sound patch	2	9	Square Feet

General Comments**Span 3 Joint over Bent 2****Compression Seal**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
302	Compression Joint Seal	156	138	18	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
302	Debris Impaction	(I-440 inner): debris at the joint ends	2	8	8	Feet
302	Debris Impaction	(I-440 outer): debris at the joint ends	2	10	10	Feet

General Comments**Span 3 Left Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	71	61	10	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Efflorescence/Rust Staining	surface efflorescence	2	10		Feet

General Comments**Span 3 Right Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	71	58	13	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Efflorescence/Rust Staining	surface efflorescence	2	13		Feet

General Comments**Span 3 Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	71	0	71	0	0	Feet
515	Steel Protective Coating	704	679	0	0	25	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	71		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	25	25	Square Feet

General Comments

Span 3 Near Bearing**Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings		1	0	1	0	0 Each
515	Steel Protective Coating		1	0	0	0	1 Square Feet
Element Number	Defect Type	Defect Description		CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion		2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective		4	1	1	Square Feet
General Comments							

Span 3 Far Bearing**Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings		1	0	1	0	0 Each
515	Steel Protective Coating		1	0	0	0	1 Square Feet
Element Number	Defect Type	Defect Description		CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion		2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective		4	1	1	Square Feet
General Comments							

Span 3 Beam 4**Plate Girder**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam		71	11	60	0	0 Feet
515	Steel Protective Coating		704	674	0	0	30 Square Feet
Element Number	Defect Type	Defect Description		CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion		2	60		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective		4	30	30	Square Feet
General Comments							

Span 3 Near Bearing**Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings		1	0	1	0	0 Each
515	Steel Protective Coating		1	0	0	0	1 Square Feet
Element Number	Defect Type	Defect Description		CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion		2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective		4	1	1	Square Feet

General Comments**Span 3 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments**Span 3 Beam 5****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	71	21	50	0	0	Feet
515	Steel Protective Coating	704	684	0	0	20	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	50		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	20	20	Square Feet

General Comments**Span 3 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments**Span 3 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet
General Comments					

Span 3 Beam 6**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	71	21	50	0	0 Feet
515	Steel Protective Coating	704	664	0	0	40 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	surface corrosion	2	50	Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	30	30 Square Feet
515	Peeling/Bubbling/Crack ing (steel Protective Coatings)	exposure of bare metal	4	10	10 Square Feet
General Comments					

Span 3 Near Bearing**Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings		1	0	1	0	0	Each
515	Steel Protective Coating		1	0	0	0	1	Square Feet

Element Number	Defect Type		Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion		2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective		4	1	1	Square Feet
General Comments							

Span 3 Far Bearing**Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings		1	0	0	1	0	Each
515	Steel Protective Coating		1	0	0	0	1	Square Feet

Element Number	Defect Type		Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	corrosion and scale		3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective		4	1	1	Square Feet
General Comments							

Span 3**Beam 7****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	71	31	40	0	0	Feet
515	Steel Protective Coating	704	679	0	0	25	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	40		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	25	25	Square Feet

General Comments

Span 3**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 3**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 3**Beam 8****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	71	0	71	0	0	Feet
515	Steel Protective Coating	704	634	0	0	70	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	71		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	60	60	Square Feet

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515 Peeling/Bubbling/Crack exposure of bare metal
ing (steel Protective
Coatings) 4 10 10 Square Feet

General Comments**Span 3****Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 3**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 3**Beam 13****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	71	0	71	0	0	Feet
515	Steel Protective Coating	704	674	0	0	30	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	71		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	30	30	Square Feet

General Comments

Span 3**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 3**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	corrosion and scale	3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 3**Beam 14****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	71	21	50	0	0	Feet
515	Steel Protective Coating	704	559	0	0	145	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	50		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	25	25	Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	120	120	Square Feet

General Comments

Span 3**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each

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515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet
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General Comments**Span 3 Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments**Span 3 Beam 15****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	71	41	30	0	0 Feet
515	Steel Protective Coating	704	564	0	0	140 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	surface corrosion	2	30	Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	20	20 Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	120	120 Square Feet

General Comments**Span 3 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments

Span 3 Far Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 3 Beam 16**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	71	0	71	0	0	Feet
515	Steel Protective Coating	704	494	0	0	210	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	71		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	70	70	Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	140	140	Square Feet

General Comments

Span 3 Near Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 3 Far Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	0	1	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	corrosion and scale	3	1	1	Each

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515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet
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General Comments**Span 3****Beam 17****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	71	31	40	0	0 Feet
515	Steel Protective Coating	704	554	0	0	150 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
107	Corrosion	surface corrosion	2	40	Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	50	50 Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	100	100 Square Feet

General Comments**Span 3****Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments**Span 3****Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments

Span 3**Beam 18****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	71	0	71	0	0	Feet
515	Steel Protective Coating	704	524	0	0	180	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	71		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	60	60	Square Feet
515	Peeling/Bubbling/Crack	exposure of bare metal ing (steel Protective Coatings)	4	120	120	Square Feet

General Comments

Span 3**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 3**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 3**Median Bridge Rail****Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	71	56	13	2	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Delamination/Spall	PRIORITY MAINTENANCE at Bent 3: delamination and spall with exposed rebar (22" x 20" x 9") (PM)	3	2	2	Feet

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331 Efflorescence/Rust Staining surface efflorescence 2 13 Feet

General Comments**Span 4 Joint over Bent 3****Compression Seal**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
302	Compression Joint Seal	156	136	20	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
302	Debris Impaction	(I-440 inner): debris at the joint ends	2	8	8	Feet
302	Debris Impaction	(I-440 outer): debris at the joint ends	2	12	12	Feet

General Comments**Span 4 Joint over End Bent 2****Compression Seal**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
302	Compression Joint Seal	156	124	27	5	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
302	Adjacent Deck or Header	(I-440 inner) Left Lane: spall with no exposed steel on the approach slab (60" x 8" x 1 1/2")	3	5	5	Feet
302	Debris Impaction	(I-440 inner): debris at the joint ends	2	12	12	Feet
302	Debris Impaction	(I-440 outer): debris at the joint ends	2	15	15	Feet

General Comments**Span 4 Deck****Reinforced Concrete Deck**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinforced Concrete Deck	6,349	6,325	17	7	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
12	Cracking (RC and Other)	Deck Surface (I-440 inner) at End Bent 2: perpendicular cracking up to (1/16") wide	3	7	7	Square Feet
12	Delamination/Spall	Deck Bottom Left Overhang at Bent 3: spall with exposed rebar (6" x 3" x 1")	2	1	1	Square Feet
12	Efflorescence/Rust Staining	Deck Bottom Bay 12: transverse surface efflorescence	2	4		Square Feet
12	Efflorescence/Rust Staining	Deck Bottom Bay 12: transverse surface efflorescence	2	9		Square Feet
12	Efflorescence/Rust Staining	Deck Bottom Left Overhang: transverse surface efflorescence	2	3		Square Feet

General Comments

Span 4**Beam 3****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	45	5	40	0	0	Feet
515	Steel Protective Coating	450	420	0	0	30	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	40		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	15	15	Square Feet
515	Peeling/Bubbling/Crack	exposure of bare metal ing (steel Protective Coatings)	4	15	15	Square Feet

General Comments

Span 4**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 4**Far Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Connection	right anchor bolt nut is not tight	2	1	1	Each
316	Corrosion	surface corrosion	2			Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 4**Beam 4****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	45	25	20	0	0	Feet
515	Steel Protective Coating	450	440	0	0	10	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
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107	Corrosion	surface corrosion	2	20	Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	10	10 Square Feet

General Comments**Span 4 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments**Span 4 Beam 5****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	45	45	0	0	0 Feet
515	Steel Protective Coating	450	445	0	0	5 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	5	5 Square Feet

General Comments**Span 4 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments

Beam 6

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	45	45	0	0	0	Feet
515	Steel Protective Coating	450	365	0	0	85	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	85	85	Square Feet
General Comments						

Near Bearing

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings		1	0	0	1	0	Each
515	Steel Protective Coating		1	0	0	0	1	Square Feet

Element Number	Defect Type		Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	corrosion and scale		3	1	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective		4	1	1	Square Feet
General Comments							

Beam 7

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	45	45	0	0	0	Feet
515	Steel Protective Coating	450	405	0	0	45	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	45	45	Square Feet
General Comments						

Near Bearing

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings		1	0	1	0	0	Each
515	Steel Protective Coating		1	0	0	0	1	Square Feet

Element number	Defect Type		Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion		2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective		4	1	1	Square Feet
General Comments							

Span 4**Beam 8****Plate Girder**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam		45	0	45	0	0	Feet
515	Steel Protective Coating		450	430	0	0	20	Square Feet
Element Number	Defect Type	Defect Description		CS	CS Qty		Maint Qty	
107	Corrosion	surface corrosion		2	45			Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective		4	20		20	Square Feet
General Comments								

Span 4**Near Bearing****Other Bearing**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings		1	0	1	0	0	Each
515	Steel Protective Coating		1	0	0	0	1	Square Feet
Element Number	Defect Type	Defect Description		CS	CS Qty		Maint Qty	
316	Corrosion	surface corrosion		2	1			Each
515	Effectiveness (Steel Protective Coatings)	no longer effective		4	1		1	Square Feet
General Comments								

Span 4**Beam 9****Plate Girder**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam		45	44	1	0	0	Feet
515	Steel Protective Coating		450	449	0	0	1	Square Feet
Element Number	Defect Type	Defect Description		CS	CS Qty		Maint Qty	
107	Corrosion	surface corrosion		2	1			Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective		4	1		1	Square Feet
General Comments								

Span 4**Beam 13****Plate Girder**

Element Number	Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam		45	30	15	0	0	Feet
515	Steel Protective Coating		450	413	0	0	37	Square Feet
Element Number	Defect Type	Defect Description		CS	CS Qty		Maint Qty	
107	Corrosion	surface corrosion		2	15			Feet

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515	Effectiveness (Steel Protective Coatings)	no longer effective	4	7	7	Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	30	30	Square Feet

General Comments**Span 4 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	0	1	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	corrosion and scale	3	1	1 Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments**Span 4 Beam 14****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Open Girder/Beam	45	45	0	0	0 Feet
515	Steel Protective Coating	450	360	0	0	90 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	90	90 Square Feet

General Comments**Span 4 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other Bearings	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
316	Corrosion	surface corrosion	2	1	Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1 Square Feet

General Comments

Span 4**Beam 15****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	45	10	35	0	0	Feet
515	Steel Protective Coating	450	365	0	0	85	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	35		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	10	10	Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	75	75	Square Feet

General Comments

Span 4**Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 4**Beam 16****Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	45	39	6	0	0	Feet
515	Steel Protective Coating	450	369	0	0	81	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	6		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	6	6	Square Feet
515	Peeling/Bubbling/Crack exposure to bare metal ing (steel Protective Coatings)		4	75	75	Square Feet

General Comments

Span 4 Near Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 4 Beam 17**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	45	45	0	0	0	Feet
515	Steel Protective Coating	450	300	0	0	150	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
515	Peeling/Bubbling/Crack exposure of bare metal ing (steel Protective Coatings)		4	150	150	Square Feet

General Comments

Span 4 Near Bearing**Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 4 Beam 18**Plate Girder**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel Open Girder/Beam	45	25	20	0	0	Feet
515	Steel Protective Coating	450	280	0	0	170	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	surface corrosion	2	20		Feet
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	20	20	Square Feet
515	Peeling/Bubbling/Crack exposure of bare metal		4	150	150	Square Feet

Structure Number: **910260**Inspection Date: **07/12/2016**ing (steel Protective
Coatings)**General Comments****Span 4 Near Bearing****Other Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings	1	0	1	0	0	Each
515	Steel Protective Coating	1	0	0	0	1	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
316	Corrosion	surface corrosion	2	1		Each
515	Effectiveness (Steel Protective Coatings)	no longer effective	4	1	1	Square Feet

General Comments

Span 4 Left Bridge Rail**Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	45	41	4	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Efflorescence/Rust Staining	surface efflorescence	2	4		Feet

General Comments

Span 4 Right Bridge Rail**Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	45	38	7	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Efflorescence/Rust Staining	surface efflorescence	2	7		Feet

General Comments

Span 4 Median Bridge Rail**Concrete Railing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinforced Concrete Bridge Railing	45	40	5	0	0	Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
331	Efflorescence/Rust Staining	surface efflorescence	2	5		Feet

General Comments

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	152	150	2	0	0 Feet
521	Concrete Protective Coating	418	418	0	0	0 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Cracking (RC and Other)	North Face under Bay 1: cracking up to (1/64") wide	2	2	2 Feet

General Comments

Bent 1 Reinforced Concrete Pile 1**Reinforced Concrete Pile**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
227	Reinforced Concrete Pile	1	0	0	1	0 Each

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
227	Delamination/Spall	West Face: spall with exposed rebar (14" x 2" x 1/4")	3	1	2 Each

General Comments

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
234	Reinforced Concrete Pier Cap	150	144	3	3	0 Feet
521	Concrete Protective Coating	375	374	0	0	1 Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
234	Damage	Bay 8: delamination and spall with no exposed steel (12" x 14" x 9")	3	2	2 Feet
234	Patched Area	Bay 12: unsound patch	3	1	1 Feet
234	Cracking (RC and Other)	Bay 2: cracking up to (1/32") wide	2	1	1 Feet
234	Patched Area	Bay 12: sound patch	2	2	Feet
521	Effectiveness (Concrete Protective Coatings)	Bay 8: no longer effective at the spall/delamination area	4	1	1 Square Feet

General Comments

End Bent 1 Abutment**Reinforced Concrete Abutment**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215	Reinforced Concrete Abutment	145	143	0	2	0 Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty
215	Delamination/Spall	Bay 17 at Beam 18: spall with exposed rebar (30" x 16" x 1")	3	2	5 Feet

General Comments

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

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinforced Concrete Pier Cap	152	132	18	2	0	Feet
521	Concrete Protective Coating	418	418	0	0	0	Square Feet

Element Number	Defect Type	Defect Description	CS	CS Qty	Maint Qty	
234	Delamination/Spall	Bottom Bay between columns 9 and 10 between the postensioning connections: delam area (10" x 8")	3	1	1	Feet
234	Delamination/Spall	East Face Bay 8: spall with exposed rebar (19" x 19" x 1 1/4")	3	1	4	Feet
234	Cracking (RC and Other)	South Face under Bay 19: cracking up to (1/64") wide	2	3	6	Feet
234	Patched Area	North Face Bays 13 through 16: sound patches	2	15		Feet

General Comments

Elements Verified

[illegible]

Elements Verified

Location	Name	Component	Element Name	Amount
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Bent 1		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	150
Bent 1		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	152
Bent 1		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Prestressed Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Prestressed Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Prestressed Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Prestressed Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Prestressed Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Prestressed Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Prestressed Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Prestressed Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Reinforced Concrete Pile	1
Bent 1		Reinforced Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	145
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	9453
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	67
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	67

Elements Verified

[illegible]

Elements Verified

Location	Name	Component	Element Name	Amount
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Bent 2		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	150
Bent 2		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	152
Bent 2		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	145
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	9947
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	71
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	71
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	71
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	71
Span 3	Beam 5	Plate Girder	Steel Open Girder/Beam	71
Span 3	Beam 6	Plate Girder	Steel Open Girder/Beam	71
Span 3	Beam 7	Plate Girder	Steel Open Girder/Beam	71
Span 3	Beam 8	Plate Girder	Steel Open Girder/Beam	71
Span 3	Beam 9	Plate Girder	Steel Open Girder/Beam	71
Span 3	Beam 10	Plate Girder	Steel Open Girder/Beam	71
Span 3	Beam 11	Plate Girder	Steel Open Girder/Beam	71
Span 3	Beam 12	Plate Girder	Steel Open Girder/Beam	71
Span 3	Beam 13	Plate Girder	Steel Open Girder/Beam	71
Span 3	Beam 14	Plate Girder	Steel Open Girder/Beam	71

Elements Verified

[illegible]

Elements Verified

Location	Name	Component	Element Name	Amount
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Bent 3		Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	152
Bent 3		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3		Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3		Reinforced Concrete Column	Reinforced Concrete Column	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	6349
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 5	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 6	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 7	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 8	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 9	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 10	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 11	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 12	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 13	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 14	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 15	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 16	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 17	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 18	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 19	Plate Girder	Steel Open Girder/Beam	45
Span 4	Beam 20	Plate Girder	Steel Open Girder/Beam	45
Span 4	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	45
Span 4	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	45
Span 4	Median Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	45
Span 4	Joint over Bent 3	Compression Seal	Compression Joint Seal	156
Span 4	Joint over End Bent 2	Compression Seal	Compression Joint Seal	156
Span 4	Far Bearing	Other Bearing	Other Bearings	1
Span 4	Near Bearing	Other Bearing	Other Bearings	1
Span 4	Far Bearing	Other Bearing	Other Bearings	1

Elements Verified

[illegible]

National Bridge and NC Inspection Items

Structure Number: 910260

Inspection Date: 07/12/2016

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	7
Item 59: Superstructure	0 - 9 , N	6
Item 60: Substructure	0 - 9 , N	6
Item 61: Channel and Channel Protection	0 - 9 , N	N
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	N
Item 72: Approach Roadway Alignment	0 - 9 , N	8

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	G	0	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	F	100	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	F	1	3350
Field Scour Evaluation		N		
Drift	G, F, P, or C		0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	25		

Note: If NC SMU Inspection 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	14
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	Y
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 910260

Inspection Date: 07/12/2016

Item	Deck - Item 58	Grade	7	Maint Code		Qty.	0
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Details *** A Priority Maintenance Request has been issued for the following locations ***
Span 3 Median Rail at Bent 3: delamination and spall with exposed rebar (22" x 20" x 9") (PM)

-
The deck surface in all spans has cracking less than (1/84") wide throughout

Item	Approach Roadway Alignment - Item 72	Grade	8	Maint Code		Qty.	0
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Details *** A Priority Maintenance Request has been issued for the following location ***
South Approach Median Rail at the approach slab: misaligned 6" toward the outer lanes pointed toward oncoming traffic with impact damage (PM)

-
South Approach Roadway (I-440 outer): cracking at the approach slab up to (1 1/2") wide
South Approach Roadway (I-440 outer): weathered, longitudinal cracking up to (1/4") wide
South Approach Roadway (I-440 inner): weathered, longitudinal cracking up to (1/2") wide
Southeast Transition: multiple areas of impact damage

North Approach Roadway (I-440 outer): weathered, rough and uneven, longitudinal cracking up to (1/2") wide, cracking at the approach slab up to (1/4") wide
North Approach Roadway (I-440 inner): weathered, rough and uneven, longitudinal cracking up to (1/4") wide
Northeast Transition: impact damage

Blocked Catch Basin at the Northeast Approach

Item	Slope Protection	Grade	F	Maint Code	3352	Qty.	100
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Details End Bent 1 Slope at top Bay 2: cracking up to (1/8") wide (similar throughout)

Item	Wingwalls	Grade	F	Maint Code	3350	Qty.	1
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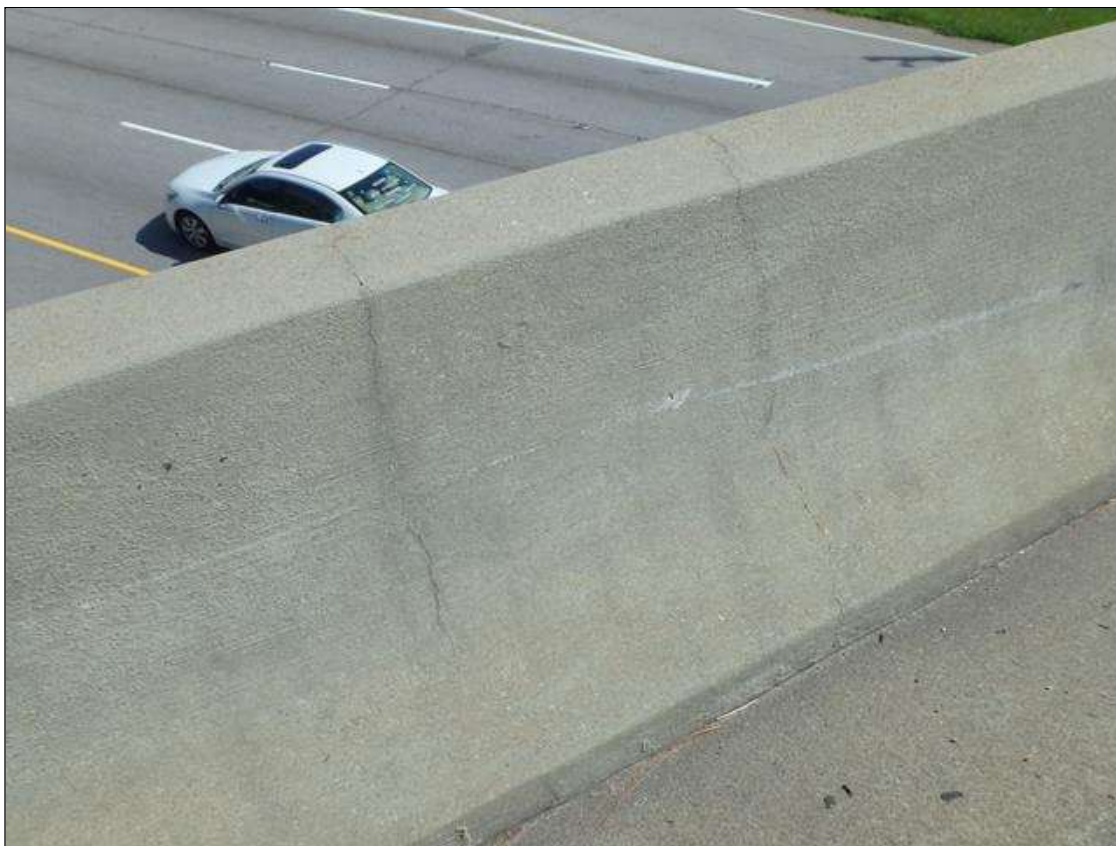
Details Northwest Wing Wall: spall with no exposed steel (4" x 3" x 2")



South Approach Roadway (I-440 outer): cracking at the approach slab up to (1 1/2") wide



South Approach Slab (I-440 outer): longitudinal cracking up to (1") wide



Span 2 Left Rail: vertical cracking up to (1/64") wide with surface efflorescence (similar throughout)



Joint over Bent 3 (I-440 outer): light debris at the joint ends (other joints similar)



North Approach Slab (I-440 outer): longitudinal cracking up to (1/8") wide



Span 3 Median Rail at Bent 3: delamination and spall with exposed rebar (22" x 20" x 9") (PM)



Span 1 Median Rail Left Face at End Bent 1: missing plate



South Approach Median Rail at the approach slab: misaligned 6" toward the outer lanes pointed toward oncoming traffic with impact damage (PM)



South Approach Median Rail at the approach slab: misaligned 6" toward the outer lanes pointed toward oncoming traffic with impact damage (PM)



South Approach Slab (I-440 inner): longitudinal cracking up to (1 1/2") wide



Joint over End Bent 2 (I-440 inner) Left Lane: spall with no exposed steel (60" x 8" x 1 1/2")



Northwest Wing Wall: spall with no exposed steel (4" x 3" x 2")



Blocked Catch Basin at the Northeast Approach



Northeast Transition: impact damage



Span 4 Deck Surface (I-440 inner) Right Lane: perpendicular cracking at End Bent 2 up to (1/16") wide (similar throughout)



Span 3 Deck Surface (I-440 inner) Right Lane at 9' from Bent 2: deterioration/spall with no exposed steel (36" x 48" x 1 1/2")



Southeast Transition: multiple areas of impact damage



End Bent 1 Slope at top Bay 2: cracking up to (1/8") wide (similar throughout)



End Bent 1 Cap Bay 2: cracking up to (1/32") wide



Span 1 Deck Bottom Bay 2: transverse surface efflorescence (similar throughout)



Bearing 3 at End Bent 1: corrosion and scale (other bearings similar)



Span 1 Beam 3: surface corrosion on the edges of the flanges and peeling paint (similar throughout)



Span 1 Deck Bottom Bay 3 at first diaphragm: delam/spall with exposed rebar (24" x 12" x 1 1/2")



End Bent 1 Cap Bay 8: delamination and spall with no exposed steel (12" x 14" x 9")



End Bent 1 Cap Bay 12: unsound patch



Bearing 13 at End Bent 1: corrosion and scale (other bearings similar)



Span 1 Beam 18 first bottom flange splice: missing (x1) bolt (hole does not go through the bottom flange of the beam)



End Bent Backwall Bay 17 at Beam 18: spall with exposed rebar (30" x 16" x 1")



Column 1 at Bent 1 West Face: spall with exposed rebar (14" x 2" x 1/4")



Span 3 Deck Bottom Bay 17 at 10' from Bent 3: sound patch



Span 4 Deck Bottom Left Overhang at Bent 3: spall with exposed rebar (6" x 3" x 1")



Bent 3 Cap Bottom Face between columns 9 and 10 at postensioning connection: delam area (10" x 8")



Bent 3 Cap North Faces Bays 13 - 16: sound patches for 15 linear feet



Bearing 3 at End Bent 2: right anchor bolt nut is not tight



Span 2 Beam and Bearing 13 at Bent 1: corrosion and scale with no measureable section loss



Bent 3 Cap East Face under Bay 8: spall with exposed rebar (19" x 19" x 1 1/4")



South Approach Roadway (I-440 outer)



South Approach Slab (I-440 outer)



Southwest Transition



Joint over End Bent 1 (I-440 outer)



Left Side Rail



Deck Surface



Joint over Bent 1 (I-440 outer)



Joint over Bent 2 (I-440 outer)



Joint over Bent 3 (I-440 outer)



Northwest Transition



Joint over End Bent 2 (I-440 outer)



North Approach Slab (I-440 outer)



North Approach Roadway (I-440 outer)



Median Bridge Rail



North Approach Looking South



(x2) Grated Drop Inlets at the South Approach in the median



South Approach Looking North



South Approach Roadway (I-440 inner)



South Approach Slab (I-440 inner)



Joint over End Bent 1 (I-440 inner)



Joint over Bent 1 (I-440 inner)



Joint over Bent 2 (I-440 inner)



Joint over End Bent 2 (I-440 inner)



North Approach Slab (I-440 inner)



North Approach Roadway (I-440 inner)



Looking West



Northeast Transition



Right Side Rail



Looking East



Southeast Transition



East Elevation



Looking West under Span 2 - US70 EB



West Elevation



Looking East under Span 3 - US70 WB



End Bent 1



Span 1 Beam 2



Span 1 Intermediate Diaphragm Bay 1



Span 1 Deck Bottom (SIP Forms) Bay 1



Bearing 1 at End Bent 1



Span 1 End Diaphragm Bay 1 at Bent 1



Span 1 Beam 5: connections and cover plates on the bottom flanges of the beams



Bent 1 West Face



Bent 1 Cap at Column 2: posttensioning connection (similar at the original sections of each bent cap)



Bent 2 South Face



Bent 3 South Face



End Bent 2



Span 3 Superstructure



Bearing 9 in Spans 3 and 4 at Bent 3

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

Run Date: 11/08/2016

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	910260		SUFFICIENCY RATING =	97
(8) STRUCTURE NUMBER(FEDERAL)		000000001830260		STATUS =	Not Deficient
(5) INVENTORY ROUTE (ON/UNDER) - ON		11004400			
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1			
(3) COUNTY CODE	183	(4) PLACE CODE	0		
(6) FEATURE INTERSECTED -	US70				
(7) FACILITY CARRIED	I440				
(9) LOCATION	1.88 MI.N.E.SR1676				
(11)MILEPOINT		6.5			
(16)LAT	35° 50' 7.05"	(17)LONG	78° 40' 10.10"		
(98)BORDER BRIDGE STATE CODE		PCT SHARE			
(99)BORDER BRIDGE STRUCTURE NO					
STRUCTURE TYPE AND MATERIAL					
(43) STRUCTURE TYPE MAIN:	Steel				
TYPE -	Stringer Mutlibeam or Girder	CODE	302		
(44) STRUCTURE TYPE APPR :					
TYPE -		CODE	000		
(45) NUMBER OF SPANS IN MAIN UNIT			4		
(46) NUMBER OF APPROACH SPANS					
(107)DECK STRUCTURE TYPE -	1	CODE			
(108)WEARING SURFACE / PROTECTIVE SYSTEM :					
(A) TYPE OF WEARING SURFACE -		CODE			
(B) TYPE OF MEMBRANE -		CODE			
(C) TYPE OF DECK PROTECTION -		CODE			
AGE AND SERVICE					
(27) YEAR BUILT			1960		
(106)YEAR RECONSTRUCTED			1993		
(42) TYPE OF SERVICE : ON -	Overpass - Interchange				
UNDER -	Highway	CODE	61		
(28) LANES: ON STRUCTURE	6 UNDER STRUCTURE		7		
(29) AVERAGE DAILY TRAFFIC			134000		
(30) YEAR OF ADT	2013	(109) TRUCK ADT PCT	16%		
(19) BYPASS OR DETOUR LENGTH			0 MI		
GEOMETRIC DATA					
(48) LENGTH OF MAXIMUM SPAN			70 FT		
(49) STRUCTURE LENGTH			250 FT		
(50)CURB OR SIDEWALK: LEFT	0 FT RIGHT		0 FT		
(51) BRIDGE ROADWAY WIDTH CURB TO CURB			136 FT		
(52) DECK WIDTH OUT TO OUT			141.083 FT		
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)			112 FT		
(33) BRIDGE MEDIAN -	No Median	CODE	3		
(34) SKEW	25°	(35) STRUCTURE FLARED	0		
(10) INVENTORY ROUTE MIN VERT CLEAR			999.9 FT		
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR			68 FT		
(53) MIN VERT CLEAR OVER BRIDGE RDWY			999.9 FT		
(54) MIN VERT UNDERCLEAR REF	Highway		15.05 FT		
(55) MIN LAT UNDERCLEAR RT REF	Highway		10.8 FT		
(56) MIN LAT UNDERCLEAR LT REF -			11.1 FT		
NAVIGATION DATA					
(38) NAVIGATION CONTROL -	Not Applicable	CODE	N		
(111)PIER PROTECTION -		CODE			
(39) NAVIGATION VERTICAL CLEARANCE			0		
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR			FT		
(40) NAVIGATION HORIZONTAL CLEARANCE			0 FT		
CLASSIFICATION				CODE	
(112)NBIS BRIDGE SYSTEM -					YES
(104)HIGHWAY SYSTEM	Is on the NHS				1
(26) FUNCTIONAL CLASS -	Arterial - Interstate				11
(100)STRAHNET HIGHWAY -	Interstate STRAHNET Route				1
(101)PARALLEL STRUCTURE -	No Parallel Structure				N
(102)DIRECTION OF TRAFFIC -	2-way Traffic				2
(103)TEMPORARY STRUCTURE -					
(110)DESIGNATED NATIONAL NETWORK -	On the National Network				1
(20) TOLL	On Free Road				3
(31) MAINTAIN -	State Highway Agency				01
(22) OWNER -	State Highway Agency				01
(37) HISTORICAL SIGNIFICANCE -	Not Eligible				5
CONDITION				CODE	
(58) DECK					7
(59) SUPERSTRUCTURE					6
(60) SUBSTRUCTURE					6
(61) CHANNEL & CHANNEL PROTECTION					N
(62) CULVERTS					N
LOAD RATING AND POSTING				CODE	
(31) DESIGN LOAD	HS 20 + MOD				6
(63) OPERATING RATING METHOD -	Load Factor				1
(64) OPERATING RATING -	HS-55				99
(65) INVENTORY RATING METHOD -	Load Factor				1
(66) INVENTORY RATING -	HS-33				59
(70) BRIDGE POSTING -	No Posting Required				5
(41) STRUCTURE OPEN, POSTED ,OR CLOSED					A
DESCRIPTION -	Open, No Restriction				
APPRAISAL				CODE	
(67) STRUCTURAL EVALUATION					6
(68) DECK GEOMETRY					9
(69) UNDERCLEARANCES,VERTI & HORIZ					5
(71) WATERWAY ADEQUACY					N
(72) APPROACH ROADWAY ALIGNMENT					8
(36) TRAFFIC SAFETY FEATURES					1111
(113)SCOUR CRITICAL BRIDGES					N
PROPOSED IMPROVEMENTS				CODE	
(75) TYPE OF WORK -					
(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	268000	(115) YEAR FUTURE ADT	2025		
INSPECTIONS					
(90) INSPECTION DATE					07/12/2016
(92) CRITICAL FEATURE INSPECTION :				(93) CFI DATE	
A) FRACTURE CRIT DETAIL -	NO			A)	
B) UNDERWATER INSP -	NO			B)	
C) OTHER SPECIAL INSP	NO			C)	
SCOUR					

Structure No: 910260

County: WAKE

Run Date:

Span Number	Feature Intersected	Inventory Route	Minimum Maximum Vertical Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Nuner of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note 1					STRAHNET Highway Designator	Direction of Traffic	Highway System of Route
													Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade			
	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
2	US70E	21000700	16.9		1	20070		14	3	38500	2013	53.3	H	16.45	16.6	12.4	9	0	1	1
3	US70W	21000700	15.9		1	20070		14	4	38500	2013	57.4	H	15.05	10.8	11.1	9	0	1	1

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

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 11/08/2016

COUNTY : WAKE DIVISION : 5 DISTRICT : 1 STRUCTURE NUMBER : 910260 LENGTH : 250 FEET

ROUTE CARRIED : I440 FEATURE INTERSECTED : US70

LOCATED : 1.88 MI.N.E.SR1676 BRIDGE NAME : CITY :

FUNC. CLASS : 11 SYST.ON : FA SYST.UNDER : NFA ADT & YR : 134000 2013 RAIL TYPE : LT 41 RT 41

BUILT : 1960 BY : SHC PROJ : 8.14905 FED.AID PROJ : F-637(7) DESIGN LOAD : HS 20 + MOD

REHAB : 1993 BY : DOH PROJ : 6.409007T ALIGNMENT : TAN. SKEW : 65 LANES : ON 6 UNDER 7

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

SUPERSTRUCTURE : RC FLOOR/I-BEAMS(WIDENED)

SUBSTRUCTURE : EBTS:RC CAP/PRESTR.CONC.PILES;BTS:RCP&B/PILE FTGS.

SPANS : 2@67';1@70'6;1@45'

BEAMS OR GIRDERS : SPNS1-3;12LNS 36;8LNS 36,SPN.4:4LNS 36;8LNS 33;8LNS 30 I-BMS

FLOOR : 7.5 RC/NO AWS ENCROACHMENT : DECK (OUT TO OUT) : 141.083 FT

CLEAR ROADWAY : 136 FT BETWEEN RAILS : 138 FT SIDEWALK OR CURB : LT 0 FT RT 0 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-33 OPE.RTG. : HS-55 CONTR.MEMBER : Int Bm B(O) POSTED : SV TTST DATE

SYSTEM : Primary Interstate GREEN LINE ROUTE : Y

UNDER ROUTES AND CLEARANCES

Span	Route Description	Vertical Clearances		Horizontal Clearances		
		MMVC	MVC	Total	Left	Right
2	US70E	16.90	16.45	53.30	12.40	16.60
3	US70W	15.90	15.05	57.40	11.10	10.80

Note: All measurements are in feet.

REMARKS :

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 910260

County WAKE

Date:

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
 3318	Maint to Concrete Handrail	LF	2	Span 3 Median Bridge Rail at Bent 3: delamination and spall with exposed rebar (22" x 20" x 9") (PM)	
 3318	Maint to Concrete Handrail	LF	9	SOUTH APPROACH MEDIAN RAIL AT THE APPROACH SLAB: MISALIGNED 6" TOWARD THE OUTER LANES POINTED TOWARD ONCOMING TRAFFIC WITH IMPACT DAMAGE.	
				-	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

BRIDGE INSPECTOR'S RECOMMENDATION FOR PRIORITY MAINTENANCE REPAIRS

Bridge: 910260

County WAKE

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

MMS Code	MMS Description	Quantity
3318	Maint to Concrete Handrail	2 LF
Location:		
Bent/Span No.		
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification Received	
Submitted Date:	Submitted By:	Assisted By:
07/14/2016	Jacob H Duke	
Details		
Span 3 Median Bridge Rail at Bent 3: delamination and spall with exposed rebar (22" x 20" x 9") (PM)		

MMS Code	MMS Description	Quantity
3318	Maint to Concrete Handrail	9 LF
Location:		
Left Rail	Bent/Span No. 1	MEDIAN RAIL AT SOUTH APPROACH
Priority Level	Status	
Priority Maintenance	Division Bridge Maintenance Notification	
Submitted Date:	Submitted By:	Assisted By:
07/15/2016	Jacob H Duke	George L Teague
Details		
SOUTH APPROACH MEDIAN RAIL AT THE APPROACH SLAB: MISALIGNED 6" TOWARD THE OUTER LANES POINTED TOWARD ONCOMING TRAFFIC WITH IMPACT DAMAGE. -		



SOUTH APPROACH MEDIAN RAIL AT THE APPROACH SLAB: MISALIGNED 6" TOWARD THE OUTER LANES
POINTED TOWARD ONCOMING TRAFFIC WITH IMPACT DAMAGE (PM)

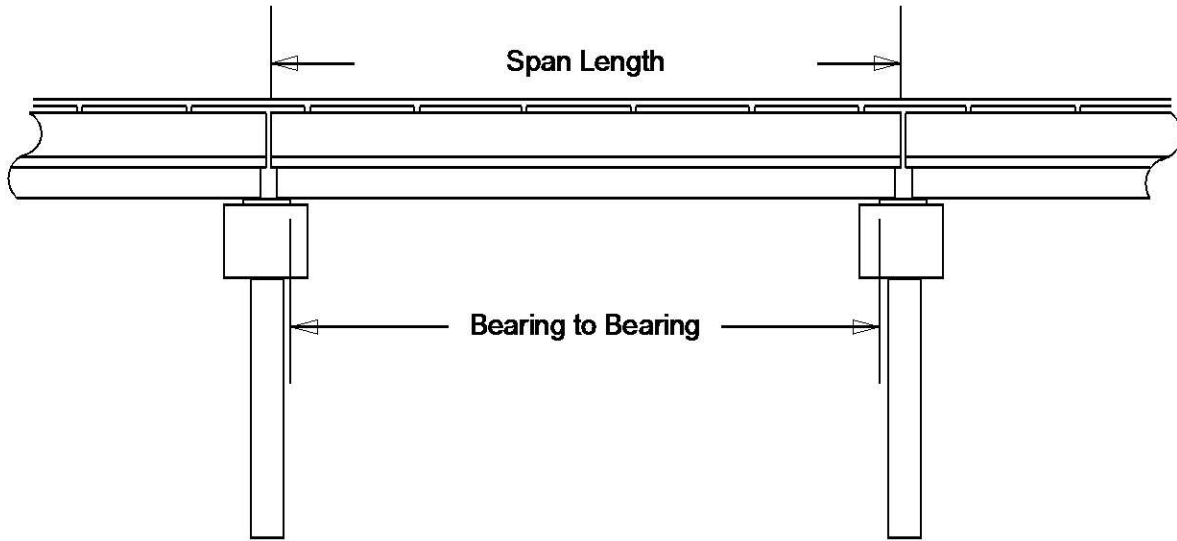


SOUTH APPROACH MEDIAN RAIL AT THE APPROACH SLAB: MISALIGNED 6" TOWARD THE OUTER LANES
POINTED TOWARD ONCOMING TRAFFIC WITH IMPACT DAMAGE (PM)

Structure Data Worksheet

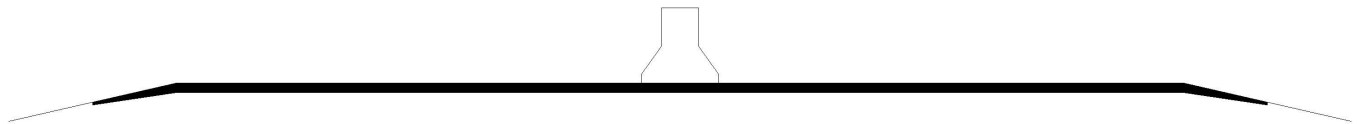
Spans

County: WAKE Structure No: 910260 Date: _____ Inspected By: JHD



Span No	Span Length	Bearing to Bearing	Comments
1	67	66.0	MEASUREMENTS VERIFIED 7/12/16 BY GLT
2	67	66.0	
3	70.5	69.5	
4	45	44.0	NBIS BRIDGE LENGTH : 244.0'

Bridge Inspection Field Sketch



MEASUREMENTS TAKEN 145' SOUTH OF BRIDGE

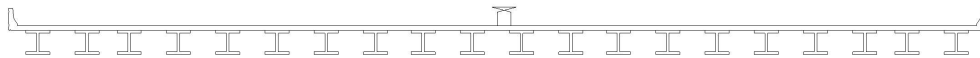
Left Lanes			
Roadway	36ft Wide	3 Paved Lanes	South Bound
Left Shoulder	10ft Wide	10ft Paved	
Right Shoulder	10ft Wide	10ft Paved	
Left Guardrail			
Right Guardrail			
Median	2ft Wide	2.667ft High	
Right Lanes			
Roadway	36ft Wide	3 Paved Lanes	North Bound
Left Shoulder	10ft Wide	10ft Paved	
Right Shoulder	10ft Wide	10ft Paved	
Left Guardrail			
Right Guardrail			

MEASUREMENTS VERIFIED 7/12/16 BY GLT

Title		Description	
Approach Roadway		Looking North	
Bridge No: 910260	Drawn By: CLS	Date: 03/06/2006	File Name: S0234000231

Bridge Inspection Field Sketch

Deck Width/Out to Out	141.083ft	Between Rails	138ft
Clear Roadway	136ft	Wearing Surface	
Median Width	2ft	Median Height	2.667ft
Curb Height		Left	Right
Sidewalk Width		Left	Right
Clear Roadway (Rail to Median)		Left	68ft Right 68ft
Guardrail Width		Left	1.542ft Right 1.542ft
Top of Rail to Deck/Wearing Surface		Left	2.771ft * Right 2.771ft *
Bridge Rail		Left	Type 4 Right Type 4



Measurements for Span #	1	ALL SPANS SIMILAR	
Deck Thickness	0.625	Left Overhang	2.958 *
Top of Rail to Bottom of Beam	6.167	Right Overhang	2.958 *

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	7.25ft	W30X191(SPS1&2),W30X211(SP3),W30X99(SP4)
2	Steel I Beam	6.2083ft *	W30X191(SPS1&2),W30X211(SP3),W30X99(SP4)
3	Steel I Beam	7.25ft	W36X150 W/ 10.25" X 1.25" COVER PLATE
4	Steel I Beam	7.25ft	W33X141 W/ 10.25" X 1.25" COVER PLATE
5	Steel I Beam	7.25ft	W33X141 W/ 10.25" X 1.25" COVER PLATE
6	Steel I Beam	7.25ft	W33X141 W/ 10.25" X 1.25" COVER PLATE
7	Steel I Beam	7.25ft	W33X141 W/ 10.25" X 1.25" COVER PLATE
8	Steel I Beam	7.0ft *	W36X150 W/ 10.25" X 1.25" COVER PLATE
9	Steel I Beam	7.25ft	W30X191(SPS1&2),W30X211(SP3),W30X99(SP4)
10	Steel I Beam	7.25ft	W30X191(SPS1&2),W30X211(SP3),W30X99(SP4)
11	Steel I Beam	7.25ft	W30X191(SPS1&2),W30X211(SP3),W30X99(SP4)
12	Steel I Beam	7.0ft *	W30X191(SPS1&2),W30X211(SP3),W30X99(SP4)
13	Steel I Beam	7.25ft	W36X150 W/ 10.25" X 1.25" COVER PLATE
14	Steel I Beam	7.25ft	W33X141 W/ 10.25" X 1.25" COVER PLATE
15	Steel I Beam	7.25ft	W33X141 W/ 10.25" X 1.25" COVER PLATE
16	Steel I Beam	7.25ft	W33X141 W/ 10.25" X 1.25" COVER PLATE
17	Steel I Beam	7.25ft	W33X141 W/ 10.25" X 1.25" COVER PLATE
18	Steel I Beam	6.2083ft *	W36X150 W/ 10.25" X 1.25" COVER PLATE
19	Steel I Beam	7.25ft	W30X191(SPS1&2),W30X211(SP3),W30X99(SP4)
20	Steel I Beam	ft	W30X191(SPS1&2),W30X211(SP3),W30X99(SP4)

* CHANGED MEASUREMENTS

EBTS: RC CAPS/PPC.PILES; INBTS:RCP&B

MEASUREMENTS UPDATED 7/12/16 BY JHD

Title		Description	
Typical Section		20 Lines Steel Beams	
Bridge No: 910260	Drawn By: a. d. osborne	Date: 05/14/2008	File Name: S0234000230

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.				
151.667 ft.	2.750 ft.	2.750 ft.	5.750 ft.	5.750 ft.	1.833 ft.	1.833 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height	SKETCH ADDED 7/12/16 BY JHD							
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	13.833 ft.	2.5 ft.	2.75 ft.		Vertical	No	No	No	No
2	Concrete	16.833 ft.	2.5 ft.	2.75 ft.		Vertical	No	No	No	No
3	Concrete	16.833 ft.	2.5 ft.	2.75 ft.		Vertical	No	No	No	No
4	Concrete	13.333 ft.	2.5 ft.	2.75 ft.		Vertical	No	No	No	No
5	Concrete	18.333 ft.	2.5 ft.	2.75 ft.		Vertical	No	No	No	No
6	Concrete	13.5 ft.	2.5 ft.	2.75 ft.		Vertical	No	No	No	No
7	Concrete	16.833 ft.	2.5 ft.	2.75 ft.		Vertical	No	No	No	No
8	Concrete	16.833 ft.	2.5 ft.	2.75 ft.		Vertical	No	No	No	No
9	Concrete	13.833 ft.	2.5 ft.	2.75 ft.		Vertical	No	No	No	No
10	Concrete		2.5 ft.	2.75 ft.		Vertical	No	No	No	No
Bent/Abutment #: 1 Similar Bents: 2, 3, 4										
Title						Description				
BENTS						TYP. BENT				
Bridge No: 910260			Drawn By: JHD			Date: 7/14/2016		File Name: S0374000337		

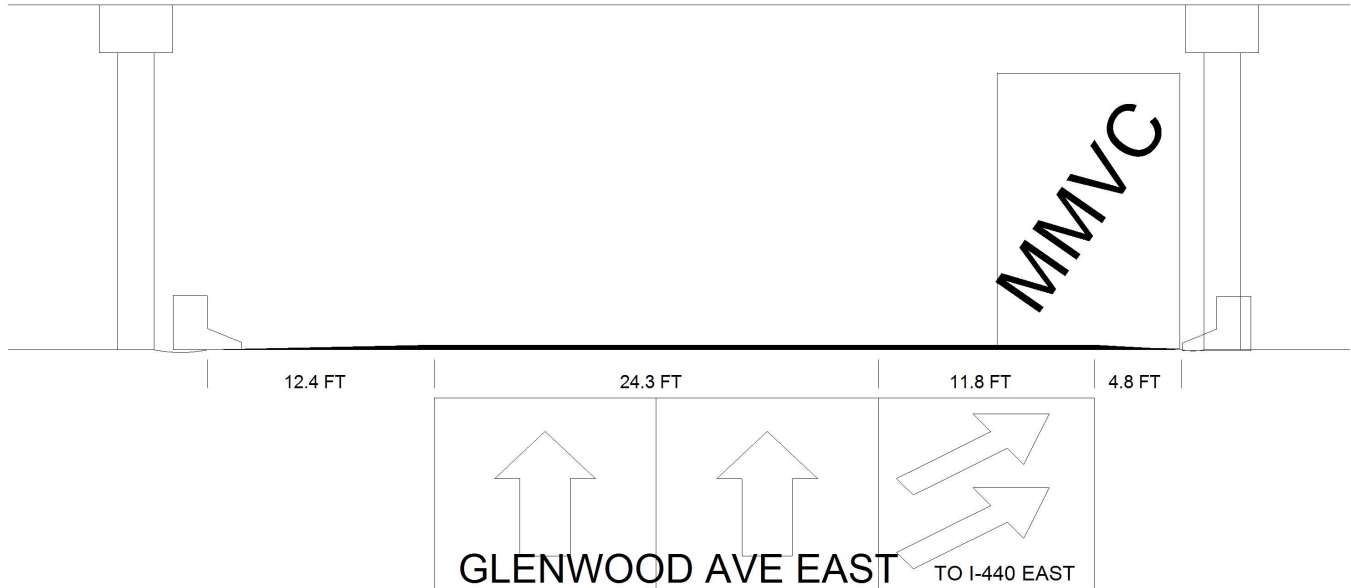
Bridge Inspection Field Sketch

◀ NORTH

I-440 BELTLINE

SOUTH ▶

Span 2



Roadway 1		Direction of Traffic	East
Distance to Left Rail	12.4FT	Distance to Right Rail	16.6FT
Distance to Left Toe of Slope		Distance to Left Bent	15.3FT
Distance to Right Toe of Slope		Distance to Right Bent	17.8FT
MMVC	16.9 Ft at Beam 1, 5 FT from WHITE LINE AT SHOULDER		
MVC	16.45 Ft at Beam 1, 0 FT from YELLOW LINE		

LIDAR VERIFIED

Title

260 SPAN 2 LIDAR

Description

CLEARANCE

Bridge No: 910260

Drawn By: TA

Date: 6/21/2013

File Name: S0550000187

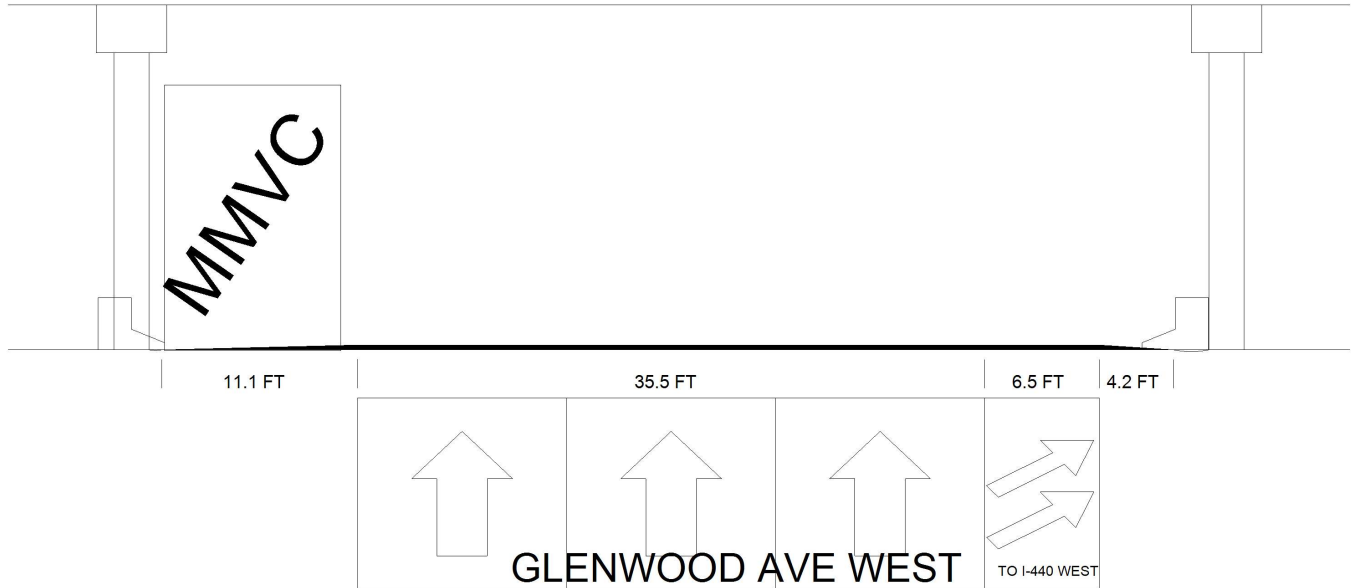
Bridge Inspection Field Sketch

◀ SOUTH

I-440 BELTLINE

NORTH ▶

Span 3



Roadway 1		Direction of Traffic	West
Distance to Left Rail	11.1FT	Distance to Right Rail	10.8FT
Distance to Left Toe of Slope		Distance to Left Bent	11.8FT
Distance to Right Toe of Slope		Distance to Right Bent	12.7FT
MMVC	15.9 Ft at Beam 1, 1 FT from BEHIND YELLOW LINE		
MVC	15.05 Ft at Beam 1, 19 FT from WHITE LINE OF SHOULDER		

LIDAR VERIFIED

Title

260 SPAN 3 LIDAR

Description

CLEARANCE

Bridge No: 910260

Drawn By: TA

Date: 6/21/2013

File Name: S0550000188

Bridge Inspection Field Sketch

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Title		Description	
Clearance Span 2		Looking East	
Bridge No:	910260	Drawn By:	RL BOWERS
Date:	5/3/2012	File Name:	S0234000232

Bridge Inspection Field Sketch

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Title		Description	
Clearance Span 3		Looking West	
Bridge No:	910260	Drawn By:	RL BOWERS
Date:	5/3/2012	File Name:	S0234000233