



NC DEPARTMENT OF TRANSPORTATION

ATTENTION:

DIVISION OF HIGHWAYS

STRUCTURE MANAGEMENT UNIT

Structure Safety Report

Routine Element Inspection

COUNTY: DAVIE STRUCTURE NUMBER: 290050 FREQUENCY: 24 MONTHSFACILITY CARRIED: SR1411 MILE POST: LOCATION: 0.3 MI. S. JCT. SR1435FEATURE INTERSECTED: DUTCHMANS CREEKLATITUDE: 35° 59' 0.31" LONGITUDE: 80° 34' 48.81"SUPERSTRUCTURE: REINFORCED CONCRETE DECK ON I-BEAMSSUBSTRUCTURE: END & INT.BENTS:RC CAP ON PRECAST PRESTRESSED CONCRETE PILESSPANS: 5@30'0"☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☒ SCOUR PLAN OF ACTIONPRESENT CONDITION: Fair INSPECTION DATE: 11/17/2014POSTED SV: 39 POSTED TTST: Not PostedOTHER SIGNS PRESENT: (4) DELINEATORS

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 STEVE AUSTIN	SIGNATURE 	ASSISTED BY JASON ROLFSMEYER
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Span Element Report

Structure Number: 290050

Inspection Date: 11/17/2014

Span Number 1

Span Length 30 Feet

Number of Beams/Girders: 4

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	853	628	200	25	0	225	3326
107		Steel Open Girder/Beam	120	106	0	14	0	14	3314
515	107	Steel Protective Coating	816	566	0	250	0	250	3342
215		Reinforced Concrete Abutment	31	31	0	0	0	0	3350
234		Reinforced Concrete Pier Cap	24	24	0	0	0	0	3348
313		Fixed Bearing	4	0	4	0	0	4	3334
316		Other Bearings	4	0	4	0	0	4	3334
515	316	Steel Protective Coating	8	0	2	6	0	8	3342
331		Reinforced Concrete Bridge Railing	60	45	15	0	0	15	3318

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

Span Number 2

Span Length 30 Feet

Number of Beams/Girders: 4

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	853	553	200	100	0	300	3326
107		Steel Open Girder/Beam	120	88	0	32	0	32	3314
515	107	Steel Protective Coating	824	454	0	370	0	370	3342
205		Reinforced Concrete Column	4	4	0	0	0	0	3348
234		Reinforced Concrete Pier Cap	24	24	0	0	0	0	3348
301		Pourable Joint Seal	24	0	0	24	0	24	3310
313		Fixed Bearing	4	0	4	0	0	4	3334
316		Other Bearings	4	0	3	1	0	4	3334
515	316	Steel Protective Coating	8	0	3	5	0	8	3342
331		Reinforced Concrete Bridge Railing	60	60	0	0	0	0	3318

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

Span Number 3

Span Length 30 Feet

Number of Beams/Girders: 4

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	853	753	0	100	0	100	3326
107		Steel Open Girder/Beam	120	90	0	30	0	30	3314
515	107	Steel Protective Coating	824	473	0	351	0	351	3342
205		Reinforced Concrete Column	4	4	0	0	0	0	3348
234		Reinforced Concrete Pier Cap	24	24	0	0	0	0	3348
301		Pourable Joint Seal	24	0	0	24	0	24	3310
313		Fixed Bearing	4	0	4	0	0	4	3334
316		Other Bearings	4	0	4	0	0	4	3334
515	316	Steel Protective Coating	8	0	4	4	0	8	3342
331		Reinforced Concrete Bridge Railing	60	60	0	0	0	0	3318

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

Span Number 4

Span Length 30 Feet

Number of Beams/Girders: 4

Structure Number: 290050

Inspection Date: 11/17/2014

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	853	578	250	25	0	275	3326
107		Steel Open Girder/Beam	120	91	0	29	0	29	3314
515	107	Steel Protective Coating	824	523	1	300	0	301	3342
204		Prestressed Concrete Column	2	2	0	0	0	0	3348
205		Reinforced Concrete Column	2	2	0	0	0	0	3348
234		Reinforced Concrete Pier Cap	24	24	0	0	0	0	3348
301		Pourable Joint Seal	24	0	0	24	0	24	3310
313		Fixed Bearing	4	0	4	0	0	4	3334
515	313	Steel Protective Coating	8	0	6	2	0	8	3342
316		Other Bearings	4	0	3	1	0	4	3334
331		Reinforced Concrete Bridge Railing	60	60	0	0	0	0	3318

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

Span Number 5

Span Length 30 Feet

Number of Beams/Girders: 4

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	853	629	200	24	0	224	3326
107		Steel Open Girder/Beam	120	96	0	24	0	24	3314
515	107	Steel Protective Coating	816	416	0	400	0	400	3342
205		Reinforced Concrete Column	4	4	0	0	0	0	3348
215		Reinforced Concrete Abutment	31	31	0	0	0	0	3350
234		Reinforced Concrete Pier Cap	48	48	0	0	0	0	3348
301		Pourable Joint Seal	24	0	0	24	0	24	3310
313		Fixed Bearing	4	4	0	0	0	0	3334
515	313	Steel Protective Coating	8	4	4	0	0	4	3342
316		Other Bearings	4	0	4	0	0	4	3334
331		Reinforced Concrete Bridge Railing	60	60	0	0	0	0	3318

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

Superstructure Detailed Element Quantities

Structure Number: 290050

Inspection Date: 11/17/2014

Span Number 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	12	Reinforced Concrete Deck	853	628	200	25	0	225	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	30	25	5	0	0	5	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	30	20	10	0	0	10	3318	☐ Requested
☒ Beam	1	107	Steel Open Girder/Beam	30	28	0	2	0	2	3314	☐ Requested
Protective System		515	Steel Protective Coating	204	104	0	100	0	100	3342	
☒ Beam	2	107	Steel Open Girder/Beam	30	26	0	4	0	4	3314	☐ Requested
Protective System		515	Steel Protective Coating	204	104	0	100	0	100	3342	
☒ Beam	3	107	Steel Open Girder/Beam	30	26	0	4	0	4	3314	☐ Requested
Protective System		515	Steel Protective Coating	204	204	0	0	0	0	3342	
☒ Beam	4	107	Steel Open Girder/Beam	30	26	0	4	0	4	3314	☐ Requested
Protective System		515	Steel Protective Coating	204	154	0	50	0	50	3342	
☒ Bearing Device	1	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Bearing Device	1	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Bearing Device	2	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Bearing Device	2	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Bearing Device	3	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Bearing Device	3	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	4	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Bearing Device	4	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	

Structure Number: 290050

Inspection Date: 11/17/2014

Span Number 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	12	Reinforced Concrete Deck	853	553	200	100	0	300	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	30	30	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	30	30	0	0	0	0	3318	☐ Requested
☒ Beam	1	107	Steel Open Girder/Beam	30	22	0	8	0	8	3314	☐ Requested
Protective System		515	Steel Protective Coating	206	106	0	100	0	100	3342	
☒ Beam	2	107	Steel Open Girder/Beam	30	20	0	10	0	10	3314	☐ Requested
Protective System		515	Steel Protective Coating	206	106	0	100	0	100	3342	
☒ Beam	3	107	Steel Open Girder/Beam	30	24	0	6	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	206	136	0	70	0	70	3342	
☒ Beam	4	107	Steel Open Girder/Beam	30	22	0	8	0	8	3314	☐ Requested
Protective System		515	Steel Protective Coating	206	106	0	100	0	100	3342	
☒ Bearing Device	1	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	1	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Bearing Device	2	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	2	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Bearing Device	3	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	3	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Bearing Device	4	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Bearing Device	4	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Expansion Joints	1	301	Pourable Joint Seal	24	0	0	24	0	24	3310	☐ Requested

Structure Number: 290050

Inspection Date: 11/17/2014

Span Number 3

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	12	Reinforced Concrete Deck	853	753	0	100	0	100	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	30	30	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	30	30	0	0	0	0	3318	☐ Requested
☒ Beam	1	107	Steel Open Girder/Beam	30	24	0	6	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	206	205	0	1	0	1	3342	
☒ Beam	2	107	Steel Open Girder/Beam	30	22	0	8	0	8	3314	☐ Requested
Protective System		515	Steel Protective Coating	206	106	0	100	0	100	3342	
☒ Beam	3	107	Steel Open Girder/Beam	30	22	0	8	0	8	3314	☐ Requested
Protective System		515	Steel Protective Coating	206	106	0	100	0	100	3342	
☒ Beam	4	107	Steel Open Girder/Beam	30	22	0	8	0	8	3314	☐ Requested
Protective System		515	Steel Protective Coating	206	56	0	150	0	150	3342	
☒ Bearing Device	1	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Bearing Device	1	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Bearing Device	2	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	2	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	3	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Bearing Device	3	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	4	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	4	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Expansion Joints	1	301	Pourable Joint Seal	24	0	0	24	0	24	3310	☐ Requested

Structure Number: 290050

Inspection Date: 11/17/2014

Span Number 4

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	12	Reinforced Concrete Deck	853	578	250	25	0	275	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	30	30	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	30	30	0	0	0	0	3318	☐ Requested
☒ Beam	1	107	Steel Open Girder/Beam	30	25	0	5	0	5	3314	☐ Requested
Protective System		515	Steel Protective Coating	206	106	0	100	0	100	3342	
☒ Beam	2	107	Steel Open Girder/Beam	30	22	0	8	0	8	3314	☐ Requested
Protective System		515	Steel Protective Coating	206	106	0	100	0	100	3342	
☒ Beam	3	107	Steel Open Girder/Beam	30	22	0	8	0	8	3314	☐ Requested
Protective System		515	Steel Protective Coating	206	205	1	0	0	1	3342	
☒ Beam	4	107	Steel Open Girder/Beam	30	22	0	8	0	8	3314	☐ Requested
Protective System		515	Steel Protective Coating	206	106	0	100	0	100	3342	
☒ Bearing Device	1	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	1	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	2	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	2	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	3	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Bearing Device	3	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	0	1	0	1	3342	
☒ Bearing Device	4	313	Fixed Bearing	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	4	316	Other Bearings	1	0	0	1	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Expansion Joints	1	301	Pourable Joint Seal	24	0	0	24	0	24	3310	☐ Requested

Structure Number: 290050

Inspection Date: 11/17/2014

Span Number 5

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Deck	1	12	Reinforced Concrete Deck	853	629	200	24	0	224	3326	☐ Requested
☒ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	30	30	0	0	0	0	3318	☐ Requested
☒ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	30	30	0	0	0	0	3318	☐ Requested
☒ Beam	1	107	Steel Open Girder/Beam	30	28	0	2	0	2	3314	☐ Requested
Protective System		515	Steel Protective Coating	204	104	0	100	0	100	3342	
☒ Beam	2	107	Steel Open Girder/Beam	30	24	0	6	0	6	3314	☐ Requested
Protective System		515	Steel Protective Coating	204	104	0	100	0	100	3342	
☒ Beam	3	107	Steel Open Girder/Beam	30	22	0	8	0	8	3314	☐ Requested
Protective System		515	Steel Protective Coating	204	104	0	100	0	100	3342	
☒ Beam	4	107	Steel Open Girder/Beam	30	22	0	8	0	8	3314	☐ Requested
Protective System		515	Steel Protective Coating	204	104	0	100	0	100	3342	
☒ Bearing Device	1	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	1	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	2	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	2	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	3	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	3	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Bearing Device	4	316	Other Bearings	1	0	1	0	0	1	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	0	1	0	0	1	3342	
☒ Bearing Device	4	313	Fixed Bearing	1	1	0	0	0	0	3334	☐ Requested
Protective System		515	Steel Protective Coating	1	1	0	0	0	0	3342	
☒ Expansion Joints	1	301	Pourable Joint Seal	24	0	0	24	0	24	3310	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 290050

Inspection Date: 11/17/2014

Span Number 1

Span	1	Deck	1	Component Name:		Reinforced Concrete Deck							
Element:	12	Name	Reinforced Concrete Deck	Qty:	853	Lvl 2:	200	Lvl 3	25	Lvl 4	0	Maint. Qty	225
Defect Description:													

200 Square Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. IN RANDOM AREAS

25 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. AT PIER 1 JOINT

Span	1	Bridge Rail	1	Component Name:		Concrete Railing							
Element:	331	Name	Reinforced Concrete Bridge Ra	Qty:	30	Lvl 2:	5	Lvl 3	0	Lvl 4	0	Maint. Qty	5
Defect Description:													

5 Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft. RANDOM AREAS

Span	1	Bridge Rail	2	Component Name:		Concrete Railing							
Element:	331	Name	Reinforced Concrete Bridge Ra	Qty:	30	Lvl 2:	10	Lvl 3	0	Lvl 4	0	Maint. Qty	10
Defect Description:													

10 Feet of Cracking (RC and Other): Width 0.012-0.05 in. or spacing of 1.0-3.0 ft. RANDOM AREAS

Span	1	Beam	1	Component Name:		Plate Girder						
Element: 107	Name	Steel Open Girder/Beam	Qty:	30	Lvl 2:	0	Lvl 3	2	Lvl 4	0	Maint. Qty	2
Defect Description:												

2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. RUST WITH SCALE WITH UP TO 3/16 IN SECTION LOSS AT BEAM END

100 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span	1	Beam	2	Component Name:		Plate Girder							
Element:	107	Name	Steel Open Girder/Beam	Qty:	30	Lvl 2:	0	Lvl 3	4	Lvl 4	0	Maint. Qty	4
Defect Description:													

4 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. RUST WITH SCALE WITH UP TO 3/16 IN SECTION LOSS AT BEAM END

100 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span	1	Beam	3	Component Name:		Plate Girder							
Element:	107	Name	Steel Open Girder/Beam	Qty:	30	Lvl 2:	0	Lvl 3	4	Lvl 4	0	Maint. Qty	4
Defect Description:													

4 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. RUST WITH SCALE WITH UP TO 3/16 IN SECTION LOSS AT BEAM END AT PIER

Span	1	Beam	4	Component Name:		Plate Girder							
Element:	107	Name	Steel Open Girder/Beam	Qty:	30	Lvl 2:	0	Lvl 3	4	Lvl 4	0	Maint. Qty	4
Defect Description:													

4 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. RUST WITH SCALE WITH UP TO 3/16 IN SECTION LOSS AT BEAM END AT PIER

50 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

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

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

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span	1	Bearing Device	1	Component Name:		Other Bearing							
Element:	316	Name	Other Bearings	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	1
Defect Description:													

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
 1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

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

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
 1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1		Bearing Device		2		Component Name:		Other Bearing																	
Element: 316		Name		Other Bearings		Qty:		1		Lvl 2:		1		Lvl 3		0		Lvl 4		0		Maint. Qty		1	
Defect Description:																									

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
 1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

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

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
 1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 1		Bearing Device 3		Component Name:		Other Bearing							
Element: 316		Name Other Bearings		Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	1
Defect Description:													

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
 1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

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

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
 1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span	1	Bearing Device	4	Component Name:		Other Bearing							
Element:	316	Name	Other Bearings	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	1
Defect Description:													

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
 1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

Span Number 2

Span	2	Deck	1	Component Name: Reinforced Concrete Deck									
Element:	12	Name	Reinforced Concrete Deck	Qty:	853	Lvl 2:	200	Lvl 3	100	Lvl 4	0	Maint. Qty	300
Defect Description:													

- 100 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft.RANDOM AREAS
 200 Square Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete.RANDOM AREAS

Span	2	Beam	1	Component Name:		Plate Girder							
Element:	107	Name	Steel Open Girder/Beam	Qty:	30	Lvl 2:	0	Lvl 3	8	Lvl 4	0	Maint. Qty	8
Defect Description:													

- 8 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. RUST WITH SCALE
 WITH UP TO 3/16 IN SECTION LOSS AT BEAM END AT PIERS

Inspection Date: 11/17/2014

Span	2	Beam	2	Component Name:		Plate Girder							
Element:	107	Name	Steel Open Girder/Beam	Qty:	30	Lvl 2:	0	Lvl 3	10	Lvl 4	0	Maint. Qty	10
Defect Description:													

Span 2	Beam	3	Component Name:		Plate Girder							
Element: 107	Name	Steel Open Girder/Beam	Qty:	30	Lvl 2:	0	Lvl 3	6	Lvl 4	0	Maint. Qty	6
Defect Description:												

Span 2	Beam	4	Component Name:				Plate Girder					
Element: 107	Name	Steel Open Girder/Beam	Qty:	30	Lvl 2:	0	Lvl 3	8	Lvl 4	0	Maint. Qty	8
Defect Description:												

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

Span 2	Bearing Device	1	Component Name:		Other Bearing							
Element: 316	Name	Other Bearings	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	1
Defect Description:												

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

Span 2	Bearing Device	2	Component Name:		Other Bearing							
Element: 316	Name	Other Bearings	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	1
Defect Description:												

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

Span 2	Bearing Device	3	Component Name:	Other Bearing								
Element: 316	Name	Other Bearings	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	1
Defect Description:												

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

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

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

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

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span	2	Bearing Device	4	Component Name:	Other Bearing					
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Element:	316	Name	Other Bearings	Qty:	1	Lvl 2:	0	Lvl 3	1	Lvl 4	0	Maint. Qty	1
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Defect Description:

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

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span	2	Expansion Joints	1	Component Name:	Standard Joint					
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Element:	301	Name	Pourable Joint Seal	Qty:	24	Lvl 2:	0	Lvl 3	24	Lvl 4	0	Maint. Qty	24
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Defect Description:

24 Feet of Leakage: Moderate. More than a drip and less than free flow of water.

Span Number 3

Span	3	Deck	1	Component Name:	Reinforced Concrete Deck					
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Element:	12	Name	Reinforced Concrete Deck	Qty:	853	Lvl 2:	0	Lvl 3	100	Lvl 4	0	Maint. Qty	100
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Defect Description:

100 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft.RANDOM AREAS

Span	3	Beam	1	Component Name:	Plate Girder					
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Element:	107	Name	Steel Open Girder/Beam	Qty:	30	Lvl 2:	0	Lvl 3	6	Lvl 4	0	Maint. Qty	6
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Defect Description:

6 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.RUST WITH SCALE WITH UP TO 1/16 IN SECTION LOSS AT BEAM END AT PIERS

1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span	3	Beam	2	Component Name:	Plate Girder					
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Element:	107	Name	Steel Open Girder/Beam	Qty:	30	Lvl 2:	0	Lvl 3	8	Lvl 4	0	Maint. Qty	8
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Defect Description:

8 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.RUST WITH SCALE WITH UP TO 1/16 IN SECTION LOSS AT BEAM END AT PIERS.

100 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span	3	Beam	3	Component Name:	Plate Girder					
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Element:	107	Name	Steel Open Girder/Beam	Qty:	30	Lvl 2:	0	Lvl 3	8	Lvl 4	0	Maint. Qty	8
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Defect Description:

8 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review..RUST WITH SCALE WITH UP TO 1/16 IN SECTION LOSS AT BEAM END AT PIERS

100 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span	3	Beam	4	Component Name:	Plate Girder					
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Element:	107	Name	Steel Open Girder/Beam	Qty:	30	Lvl 2:	0	Lvl 3	8	Lvl 4	0	Maint. Qty	8
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Defect Description:

8 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review..RUST WITH SCALE WITH UP TO 1/16 IN SECTION LOSS AT BEAM END AT PIERS

150 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

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

Defect Description:

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
- 1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3	Bearing Device 1	Component Name: Other Bearing
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Element: 316 **Name** Other Bearings **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
- 1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3	Bearing Device 2	Component Name: Other Bearing
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Element: 316 **Name** Other Bearings **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
- 1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

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

Defect Description:

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
- 1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

Span 3	Bearing Device 3	Component Name: Other Bearing
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Element: 316 **Name** Other Bearings **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
- 1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

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

Defect Description:

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
- 1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

Span 3	Bearing Device 4	Component Name: Other Bearing
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Element: 316 **Name** Other Bearings **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
- 1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

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

Defect Description:

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
- 1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 3	Expansion Joints 1	Component Name: Standard Joint
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Element: 301 **Name** Pourable Joint Seal **Qty:** 24 **Lvl 2:** 0 **Lvl 3** 24 **Lvl 4** 0 **Maint. Qty** 24

Defect Description:

- 24 Feet of Leakage: Moderate. More than a drip and less than free flow of water.

Span Number 4

Inspection Date: 11/17/2014

Span 4	Deck	1	Component Name:		Reinforced Concrete Deck							
Element: 12	Name	Reinforced Concrete Deck	Qty:	853	Lvl 2:	250	Lvl 3	25	Lvl 4	0	Maint. Qty	275
Defect Description:												

25 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. AT JOINT 4
250 Square Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains
secure in the concrete. RANDOM AREAS

Span 4	Beam 1	Component Name:				Plate Girder						
Element: 107	Name	Steel Open Girder/Beam	Qty:	30	Lvl 2:	0	Lvl 3	5	Lvl 4	0	Maint. Qty	5
Defect Description:												

5 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review..RUST WITH SCALE
WITH UP TO 1/16 IN SECTION LOSS AT BEAM END AT PIERS
100 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4	Beam 2	Component Name: Plate Girder			
Element: 107	Name Steel Open Girder/Beam	Qty: 30	Lvl 2: 0	Lvl 3: 8	Lvl 4: 0
Defect Description:		Maint. Qty: 8			

8 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review..RUST WITH SCALE
WITH UP TO 1/16 IN SECTION LOSS AT BEAM END AT PIERS
100 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4	Beam 3	Component Name: Plate Girder			
Element: 107	Name Steel Open Girder/Beam	Qty: 30	Lvl 2: 0	Lvl 3: 8	Lvl 4: 0
Defect Description:		Maint. Qty: 8			

8 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review..RUST WITH SCALE
WITH UP TO 1/16 IN SECTION LOSS AT BEAM END AT PIERS
1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

Span 4	Beam 4	Component Name:		Plate Girder						
Element: 107	Name Steel Open Girder/Beam	Qty: 30	Lvl 2: 0	Lvl 3: 8	Lvl 4: 0	Maint. Qty: 8				
Defect Description:										

8 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review..RUST WITH SCALE
WITH UP TO 1/16 IN SECTION LOSS AT BEAM END AT PIERS
100 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

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

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

Span 4	Bearing Device	1	Component Name:		Other Bearing							
Element: 316	Name	Other Bearings	Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	1
Defect Description:												

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

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

1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

Span 4		Bearing Device		2		Component Name:		Other Bearing																	
Element: 316		Name		Other Bearings		Qty:		1		Lvl 2:		1		Lvl 3		0		Lvl 4		0		Maint. Qty		1	
Defect Description:																									

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
 1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

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

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
 1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 4		Bearing Device	3	Component Name:		Other Bearing							
Element: 316		Name Other Bearings		Qty:	1	Lvl 2:	1	Lvl 3	0	Lvl 4	0	Maint. Qty	1
Defect Description:													

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
 1 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

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

- 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.
 1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

Span 4		Bearing Device		4		Component Name:		Other Bearing							
Element: 316		Name Other Bearings		Qty:		1 Lvl 2:		0 Lvl 3		1 Lvl 4		0 Maint. Qty		1	
Defect Description:															

- 1 Each of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review.
 1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

Span 4		Expansion Joints 1		Component Name:		Standard Joint							
Element: 301		Name Pourable Joint Seal		Qty: 24		Lvl 2: 0		Lvl 3 24		Lvl 4 0		Maint. Qty 24	
Defect Description:													

24 Feet of Leakage: Moderate. More than a drip and less than free flow of water.

Span Number 5

Span	5	Deck	1	Component Name:		Reinforced Concrete Deck							
Element:	12	Name	Reinforced Concrete Deck	Qty:	853	Lvl 2:	200	Lvl 3	24	Lvl 4	0	Maint. Qty	224
Defect Description:													

- 24 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. AT JOINT 4
 200 Square Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. RANDOM AREAS

Span	5	Beam	1	Component Name:		Plate Girder							
Element:	107	Name	Steel Open Girder/Beam	Qty:	30	Lvl 2:	0	Lvl 3	2	Lvl 4	0	Maint. Qty	2
Defect Description:													

- 2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. RUST AND SCALE WITH UP TO 3/16 IN SECTION LOSS AT PIER.
 100 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span	5	Beam	2	Component Name:		Plate Girder							
Element:	107	Name	Steel Open Girder/Beam	Qty:	30	Lvl 2:	0	Lvl 3	6	Lvl 4	0	Maint. Qty	6
Defect Description:													

- 6 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. RUST AND SCALE WITH UP TO 3/16 IN SECTION LOSS AT PIER.
 100 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 5	Beam	3	Component Name:	Plate Girder					
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Element: 107 **Name** Steel Open Girder/Beam **Qty:** 30 **Lvl 2:** 0 **Lvl 3** 8 **Lvl 4** 0 **Maint. Qty** 8

Defect Description:

8 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. RUST AND SCALE WITH UP TO 3/16 IN SECTION LOSS AT PIER.

100 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 5	Beam	4	Component Name:	Plate Girder					
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Element: 107 **Name** Steel Open Girder/Beam **Qty:** 30 **Lvl 2:** 0 **Lvl 3** 8 **Lvl 4** 0 **Maint. Qty** 8

Defect Description:

8 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. RUST AND SCALE WITH UP TO 3/16 IN SECTION LOSS AT PIER.

100 Square Feet of Effectiveness (Steel Protective Coatings): Limited effectiveness.

Span 5	Bearing Device	1	Component Name:	Other Bearing					
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Element: 316 **Name** Other Bearings **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

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

1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

Span 5	Bearing Device	2	Component Name:	Other Bearing					
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Element: 316 **Name** Other Bearings **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

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

1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

Span 5	Bearing Device	3	Component Name:	Other Bearing					
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Element: 316 **Name** Other Bearings **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

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

1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

Span 5	Bearing Device	4	Component Name:	Other Bearing					
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Element: 316 **Name** Other Bearings **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 1

Defect Description:

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

1 Square Feet of Effectiveness (Steel Protective Coatings): Substantially effective.

Span 5	Expansion Joints	1	Component Name:	Standard Joint					
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Element: 301 **Name** Pourable Joint Seal **Qty:** 24 **Lvl 2:** 0 **Lvl 3** 24 **Lvl 4** 0 **Maint. Qty** 24

Defect Description:

24 Feet of Leakage: Moderate. More than a drip and less than free flow of water.

Substructure Detailed Element Quantities

Structure Number: 290050

Inspection Date: 11/17/2014

End Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Abutments	1	215	Reinforced Concrete Abutment	31	31	0	0	0	0	3350	☐ Requested
☒ Caps	1	234	Reinforced Concrete Pier Cap	24	24	0	0	0	0	3348	☐ Requested

Bent 1

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	234	Reinforced Concrete Pier Cap	24	24	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	1	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	2	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	3	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	4	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested

Bent 3

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	234	Reinforced Concrete Pier Cap	24	24	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	1	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	2	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	3	204	Prestressed Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	4	204	Prestressed Concrete Column	1	1	0	0	0	0	3348	☐ Requested

Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	234	Reinforced Concrete Pier Cap	24	24	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	1	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	2	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	3	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	4	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested

Bent 4

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Caps	1	234	Reinforced Concrete Pier Cap	24	24	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	1	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	2	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	3	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	4	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested

End Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☒ Abutments	1	215	Reinforced Concrete Abutment	31	31	0	0	0	0	3350	☐ Requested
☒ Caps	1	234	Reinforced Concrete Pier Cap	24	24	0	0	0	0	3348	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 290050

Inspection Date: 11/17/2014

National Bridge and NC Inspection Items

Structure Number: 290050

Inspection Date: 11/17/2014

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	6
Item 59: Superstructure	0 - 9 , N	4
Item 60: Substructure	0 - 9 , N	7
Item 61: Channel and Channel Protection	0 - 9 , N	6
Item 62: Culvert	0 - 9 , N	
Item 71: Waterway Adequacy	0 - 9 , N	8
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	G	0	3352
Wingwall	G, F, P, or C	G	0	3350
Scour	G, F, P, or C	G		
Field Scour Evaluation		P		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	14		

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	N
Inspection Time	Hours	6
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: 290050

Inspection Date: 11/17/2014

Item	Substructure - Item 60	Grade	7	Maint Code		Qty.	0
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Details RIP RAP HAS BEEN PLACED AT PIER 1 AFTER SCOUR REPORT 3/8/96

Item	Presently Posted	Grade	Y	Maint Code		Qty.	0
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Details SV 39 TTST LGW

Item	Wingwalls	Grade	G	Maint Code	3350	Qty.	0
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Details WING WALLS HAVE H/L MAP CRACKING.

Item	Field Scour Evaluation	Grade	P	Maint Code		Qty.	0
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Details PILE PENETRATION IS LESS THAN THE MIN. REQUIRED LIMITS AT PIERS 1, 2 AND 3. SCOUR REPORT 3/8/96 CODE (3) SCOUR CRITICAL. COUNTERMEASURES OF MORE RIP RAP PLACED AT PIER 1 CHANGES CODE TO (7) AND NO LONGER SCOUR CRITICAL BUT STILL REQUIRES MONITORING.



Span 1 Deck: 200 Square Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. IN RANDOM AREAS



Span 1 Deck: 25 Square Feet of Cracking (RC and Other): Width greater than 0.05 in. or spacing of less than 1 ft. AT PIER 1 JOINT



Span 5 Beam 1: 2 Feet of Corrosion: Section loss is evident or pack rust is present but does not warrant structural review. RUST AND SCALE WITH UP TO 3/16 IN SECTION LOSS.



Span 5 Beam 1 Near Bearing : 1 Each of Corrosion: Freckled rust. Corrosion of the steel has initiated.



LOOKING NORTH



SOUTH POSTING



LOOKING WEST



SOUTH APPROACH



DOWNSTREAM



UPSTREAM



UPSTREAM



NORTH APPROACH



LOOKING SOUTH



NORTH POSTING



ABUT 2



BEARING ASSY SEAT 2 ABUT 2



BEARING ASSY PIER 4 SEAT 2



PIER 1



SUPERSTRUCTURE SPAN 2



PIER 2



UPSTREAM



DOWNSTREAM



LOOKING EAST

Run Date: 02/09/2015

IDENTIFICATION				
(1) STATE NAME -NORTH CAROLINA	BRIDGE	290050	SUFFICIENCY RATING =	47.57
(8) STRUCTURE NUMBER(FEDERAL)		00000000590050	STATUS =	Structurally Deficient
(5) INVENTORY ROUTE (ON/UNDER) - ON		31014110		
(2) STATE HIGHWAY DEPARTMENT DISTRICT		2		
(3) COUNTY CODE	59	(4) PLACE CODE	0	
(6) FEATURE INTERSECTED -	DUTCHMANS CREEK			
(7) FACILITY CARRIED	SR1411			
(9) LOCATION	0.3 MI. S. JCT. SR1435			
(11)MILEPOINT		0		
(16)LAT	35° 59' 0.31"	(17)LONG	80° 34' 48.81"	
(98)BORDER BRIDGE STATE CODE		PCT SHARE		
(99)BORDER BRIDGE STRUCTURE NO				
STRUCTURE TYPE AND MATERIAL				
(43) STRUCTURE TYPE MAIN:	Steel			
TYPE -	Stringer Multibeam or Girder	CODE	302	
(44) STRUCTURE TYPE APPR :				
TYPE -		CODE	000	
(45) NUMBER OF SPANS IN MAIN UNIT		5		
(46) NUMBER OF APPROACH SPANS				
(107)DECK STRUCTURE TYPE -	1	CODE		
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				
(A) TYPE OF WEARING SURFACE -		CODE		
(B) TYPE OF MEMBRANE	-	CODE		
(C) TYPE OF DECK PROTECTION -		CODE		
AGE AND SERVICE				
(27) YEAR BUILT		1958		
(106)YEAR RECONSTRUCTED				
(42) TYPE OF SERVICE : ON -	Highway			
UNDER -	Waterway	CODE	15	
(28) LANES: ON STRUCTURE	2 UNDER STRUCTURE	0		
(29) AVERAGE DAILY TRAFFIC		790		
(30) YEAR OF ADT	2012	(109) TRUCK ADT PCT	6%	
(19) BYPASS OR DETOUR LENGTH		2 MI		
GEOMETRIC DATA				
(48) LENGTH OF MAXIMUM SPAN		29 FT		
(49) STRUCTURE LENGTH		150 FT		
(50)CURB OR SIDEWALK: LEFT	1.125 FT RIGHT	1.125 FT		
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		24 FT		
(52) DECK WIDTH OUT TO OUT		26.5 FT		
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		18 FT		
(33) BRIDGE MEDIAN -	No Median	CODE	0	
(34) SKEW	0°	(35) STRUCTURE FLARED	0	
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT		
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		24 FT		
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		
(54) MIN VERT UNDERCLEAR REF	Not a Highway or Railroad	0 FT		
(55) MIN LAT UNDERCLEAR RT REF	Not a Highway or Railroad	000 FT		
(56) MIN LAT UNDERCLEAR LT REF -		000 FT		
NAVIGATION DATA				
(38) NAVIGATION CONTROL -	No Navigational Control	CODE	0	
(111)PIER PROTECTION -		CODE		
(39) NAVIGATION VERTICAL CLEARANCE		0		
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR		FT		
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT		
CLASSIFICATION				
(112)NBIS BRIDGE SYSTEM -				YES
(104)HIGHWAY SYSTEM	Is not on NHS			0
(26) FUNCTIONAL CLASS -	Local			09
(100)STRAHNET HIGHWAY -	Not a STRAHNET Route			0
(101)PARALLEL STRUCTURE -	No Parallel Structure			N
(102)DIRECTION OF TRAFFIC -	2-way Traffic			2
(103)TEMPORARY STRUCTURE -				
(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network			0
(20) TOLL	On Free Road			3
(31) MAINTAIN -	State Highway Agency			01
(22) OWNER -	State Highway Agency			01
(37) HISTORICAL SIGNIFICANCE -	Not Eligible			5
CONDITION				
(58) DECK				6
(59) SUPERSTRUCTURE				4
(60) SUBSTRUCTURE				7
(61) CHANNEL & CHANNEL PROTECTION				6
(62) CULVERTS				N
LOAD RATING AND POSTING				
(31) DESIGN LOAD	H 15			2
(63) OPERATING RATING METHOD -	Load Factor			1
(64) OPERATING RATING -	HS-27			49
(65) INVENTORY RATING METHOD -	Load Factor			1
(66) INVENTORY RATING -	HS-16			29
(70) BRIDGE POSTING -	Posting Required			4
(41) STRUCTURE OPEN, POSTED ,OR CLOSED				P
DESCRIPTION -	Posted for Load			
APPRAISAL				
(67) STRUCTURAL EVALUATION				4
(68) DECK GEOMETRY				4
(69) UNDERCLEARANCES,VERTI & HORIZ				N
(71) WATERWAY ADEQUACY				8
(72) APPROACH ROADWAY ALIGNMENT				8
(36) TRAFFIC SAFETY FEATURES				0000
(113)SCOUR CRITICAL BRIDGES				8
PROPOSED IMPROVEMENTS				
(75) TYPE OF WORK -			CODE	
(76) LENGTH OF STRUCTURE IMPROVEMENT				
(94) BRIDGE IMPROVEMENT COST				
(95) ROADWAY IMPROVEMENT COST				
(96) TOTAL PROJECT COST				
(97) YEAR OF IMPROVEMENT COST ESTIMATE				
(114)FUTURE ADT	1580	(115) YEAR FUTURE ADT		2025
INSPECTIONS				
(90) INSPECTION DATE				11/17/2014
(92) CRITICAL FEATURE INSPECTION :			(93) CFI DATE	
A) FRACTURE CRIT DETAIL -	NO		A)	
B) UNDERWATER INSP -	NO		B)	
C) OTHER SPECIAL INSP	NO		C)	
SCOUR				

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 02/09/2015

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
DAVIE	9	2	290050	150	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1411	DUTCHMANS CREEK

LOCATED :	BRIDGE NAME :	CITY :
0.3 MI. S. JCT. SR1435		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	790 2012	LT 141 RT 141

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1958	SHC	8.28254		H 15

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

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		17 FT		1		FT

SUPERSTRUCTURE : REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE : END & INT.BENTS:RC CAP ON PRECAST PRESTRESSED CONCRETE PILES

SPANS : 5@30'0"

BEAMS OR GIRDERS : 4 LINES OF W24X76 I-BEAMS @ 7'0" CENTERS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
7" RC SLAB		26.5 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
24 FT	26.25 FT	LT 1.125 FT RT 1.125 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :				
HS-16	HS-27	IntBeams	SV 39	TTST	LGW	DATE	08/30/2006

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

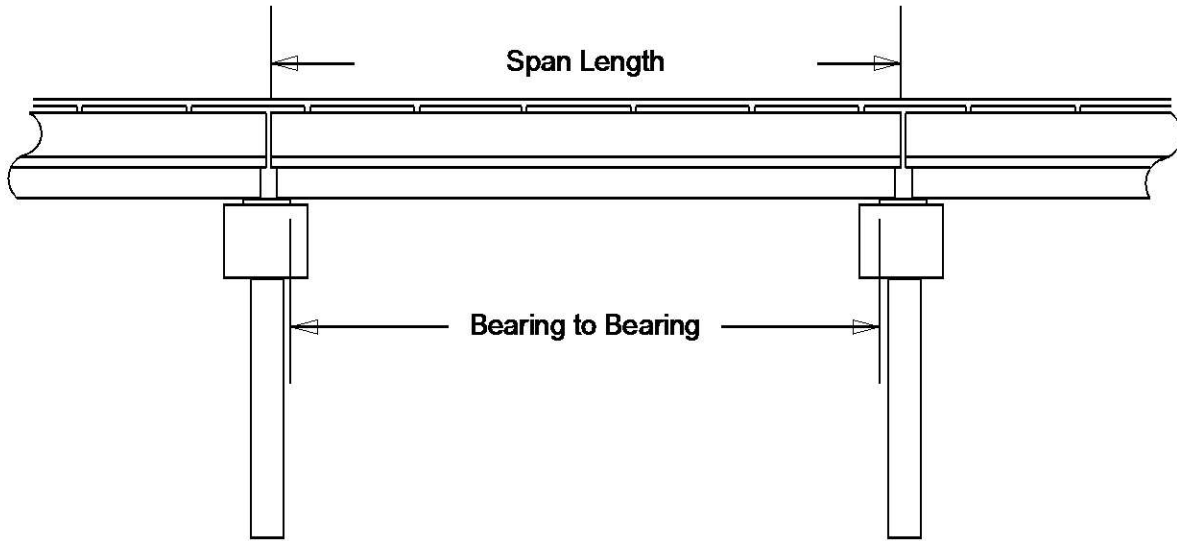
UNDER ROUTES AND CLEARANCES

REMARKS :

Structure Data Worksheet

Spans

County: DAVIE Structure No: 290050 Date: _____ Inspected By: SWA



Span No	Span Length	Bearing to Bearing	Comments
1	30.0	28.167	NBIS : 145.0 FT
2	30.0	29.0	
3	30.0	29.0	
4	30.0	29.0	
5	30.0	28.167	

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 290050 County: DAVIE Date: _____ By: SWA

Record sounding from top of rail. Other location if needed: TOP OF CAP

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

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	0				
0	5.3	Top of Cap			
2.5	5.3				
2.501	6.6	FACE OF END BENT 1	2.501	6.6	FACE OF END BENT 1
6	6.7				
22	14.5				
27	15.4				
30	17.3	BENT 1	30	19.9	BENT 1
32	18.8	Water Surface/Water Edge (WSWE)			
36	19.4				
42	19.5				
55	19.7				
60	19.2	BENT 2	60	19	BENT 2
60.1	18.3	Water Surface/Water Edge (WSWE)			
64	15				
68	12.6				
80	12.3				
90	13.9	BENT 3	90	13	BENT 3
100	13.1				
120	12.5	BENT 4	120	11.7	BENT 4
136	11.7				
144	6.8				
147.499	5.4	FACE OF END BENT 2	147.499	6.7	FACE OF END BENT 2
147.5	5.3	Top of Cap			
150	5.3				

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
150.1	0				

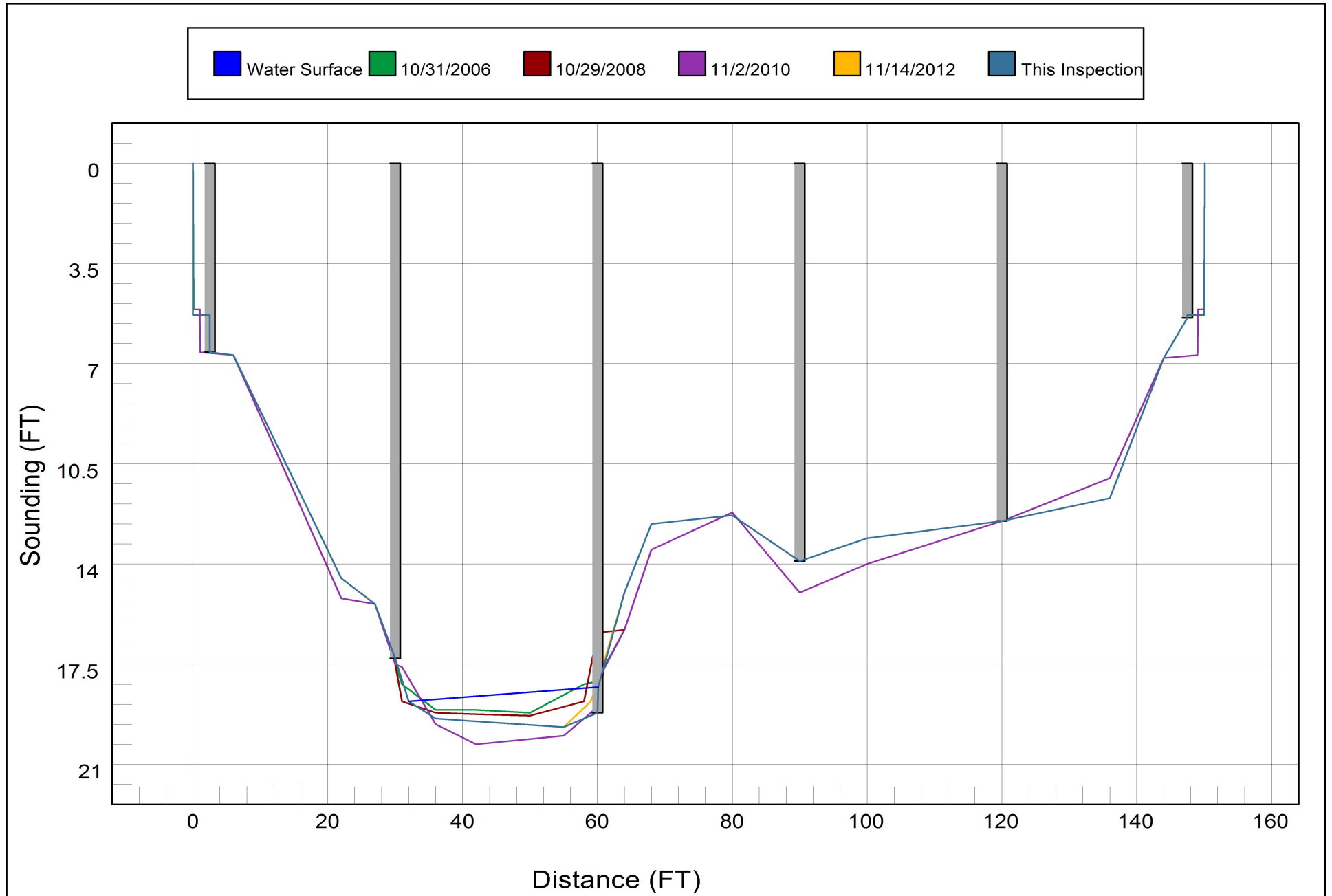
Bridge: 290050

County DAVIE

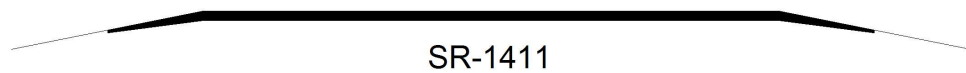
Date:

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

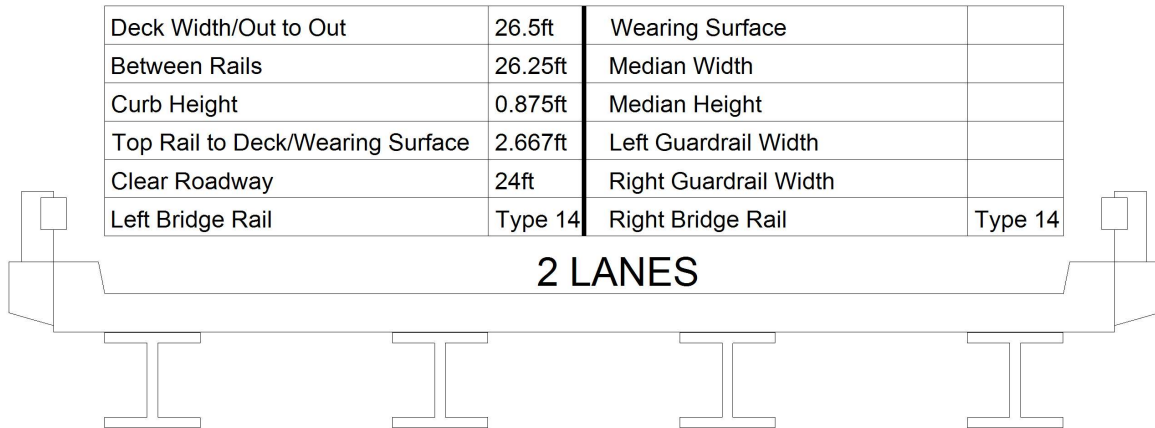


Roadway	18ft Wide	2 Paved Lanes	Looking North
Left Shoulder	6ft Wide		6ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved
Left Guardrail			
Right Guardrail			

MEASUREMENTS VERIFIED 11-17-14 JER
MEASUREMENTS VERIFIED 11-14-12 BY KCI

Title APPROACH ROADWAY		Description SHEET 1	
Bridge No: 290050	Drawn By: BTH	Date: 10/29/08	File Name: S0090001956

Bridge Inspection Field Sketch

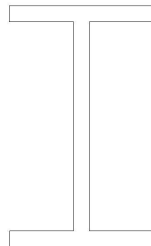


Measurements for Span #	1	Spans 2 Thru 5 Similar	
Deck Thickness	0.583	Left Overhang	2.75
Top of Rail to Bottom of Beam	2.667	Right Overhang	2.75

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

ABUTS & PIERS: RC CAPS ON 4- 1.0 ft. PPC PILES.

INT. DIAPH. ARE 15 IN. CHANNELS SPACED AT 1/2 PT. IN ALL BAYS AND SPANS.



I-BEAMS	WIDTH	HEIGHT	WEB	FLANGE
ALL	.75 ft.	2.0 ft.	.031 ft.	.047 ft.

MEASUREMENTS VERIFIED 11-17-14 JER

MEASUREMENTS VERIFIED 11-14-12 BY KCI

Title

SUPERSTRUCTURE

Description

SHEET 2

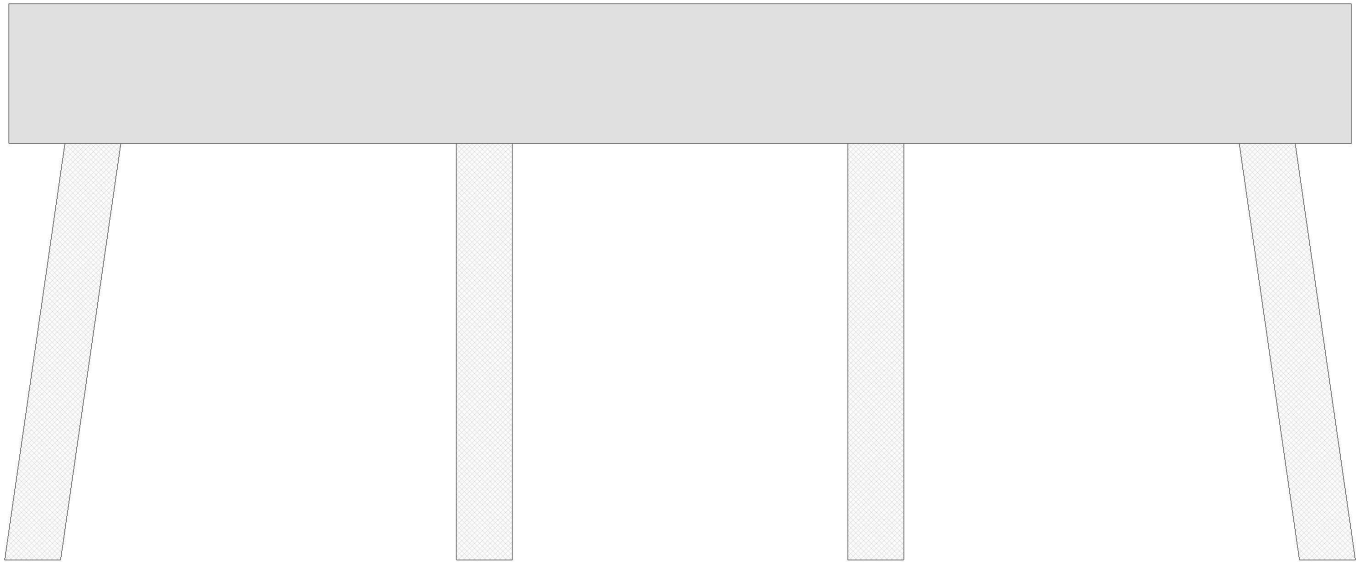
Bridge No: 290050

Drawn By: BTH

Date: 10/29/08

File Name: S0090001957

Bridge Inspection Field Sketch



Cap Information			Material Precast Concrete							
Length	Width	Height	Left Overhang	Right Overhang	Left Beam to End of Cap.	Right Beam to End of Cap.				
24.000 ft.	2.500 ft.	2.500 ft.	1.500 ft.	1.500 ft.	1.500 ft.	1.500 ft.				
Subcap Information			Material							
Length	Width	Height	Left Overhang	Right Overhang	Left Pile to Splice.					
Sill Information			Material							
Length	Width	Height								
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orientation	Driven?	Replacement?	Removed?	Collar?
1	Concrete	7.0 ft.	1.0 ft.	1.0 ft.		Battered	No	No	No	No
2	Concrete	7.0 ft.	1.0 ft.	1.0 ft.		Vertical	No	No	No	No
3	Concrete	7.0 ft.	1.0 ft.	1.0 ft.		Vertical	No	No	No	No
4	Concrete		1.0 ft.	1.0 ft.		Battered	No	No	No	No
MEASUREMENTS VERIFIED 11-17-14 JER MEASUREMENTS VERIFIED 11-14-12 BY KCI										
Bent/Abutment #: 1			Similar Bents: PIERS 1-4							

Title

PIERS

Description

SHEET 3

Bridge No: 290050

Drawn By: BTH

Date: 10/29/2008

File Name: S0090003026