

NC DEPARTMENT OF TRANSPORTATION

ATTENTION:

DIVISION OF HIGHWAYS

STRUCTURE MANAGEMENT UNIT

Structure Safety Report

4 Year Underwater Element Inspection

COUNTY: MADISON STRUCTURE NUMBER: 560009 FREQUENCY: 48 MONTHS

FACILITY CARRIED: NC251 SBL

LOCATION: .01 MI.S.JCT.US25,70

FEATURE INTERSECTED: IVY CREEK

LATITUDE: 35° 46' 36.13" LONGITUDE: 82° 38' 51.99"

SUPERSTRUCTURE: RCDG(14.667" BRG.RDWAY OPEN TO TRAFFIC, OTHER PORTION RDWAY. CLOSED)

SUBSTRUCTURE: E.BTS:RC CAPS/H-PIPES;INT.BTS:RC POST&BEAM

1 @ 47'-11;1 @ 47'-5;1 @ 47'-11;1 @ 47'-10;1 @ 47'-11

SPANS: 1 @ 47"-11;1 @ 47"-5;1 @ 47"-11;1 @ 47"-10;1 @ 47"-11

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

PRESENT CONDITION: Good

POSTED SV: Not Posted

OTHER SIGNS PRESENT:



LOOKING NORTH

INSPECTED BY
JOHN HOUSTON

SIGNATURE



ASSISTED BY	KSH; MEC
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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>

Span Element Report

Structure Number: 560009

Inspection Date: 05/26/2015

Span Number 1

Span Length 48 Feet

Number of Beams/Girders: 4

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	1,512	1,512	0	0	0	0	3326
110		Reinforced Concrete Open Girder/Bear	192	192	0	0	0	0	3306
316		Other Bearings	8	8	0	0	0	0	3334
331		Reinforced Concrete Bridge Railing	96	96	0	0	0	0	3318
510		Wearing Surface	1,272	1,272	0	0	0	0	2816

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

Span Number 2

Span Length 47.917 Feet

Number of Beams/Girders: 4

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	1,510	1,510	0	0	0	0	3326
110		Reinforced Concrete Open Girder/Bear	192	192	0	0	0	0	3306
205		Reinforced Concrete Column	2	2	0	0	0	0	3348
234		Reinforced Concrete Pier Cap	33	33	0	0	0	0	3348
301		Pourable Joint Seal	0	0	0	0	0	0	3310
316		Other Bearings	8	8	0	0	0	0	3334
331		Reinforced Concrete Bridge Railing	96	96	0	0	0	0	3318
510		Wearing Surface	1,270	1,270	0	0	0	0	2816

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

Span Number 3

Span Length 47.917 Feet

Number of Beams/Girders: 4

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	1,510	1,510	0	0	0	0	3326
110		Reinforced Concrete Open Girder/Bear	192	192	0	0	0	0	3306
205		Reinforced Concrete Column	2	0	2	0	0	5	3348
220		Reinforced Concrete Pile Cap/Footing	12	0	12	0	0	12	3348
234		Reinforced Concrete Pier Cap	33	33	0	0	0	0	3348
316		Other Bearings	8	8	0	0	0	0	3334
331		Reinforced Concrete Bridge Railing	96	96	0	0	0	0	3318
510		Wearing Surface	1,270	1,270	0	0	0	0	2816

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

Span Number 4

Span Length 47.917 Feet

Number of Beams/Girders: 4

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	1,510	1,510	0	0	0	0	3326
110		Reinforced Concrete Open Girder/Bear	192	192	0	0	0	0	3306
205		Reinforced Concrete Column	2	0	2	0	0	4	3348
220		Reinforced Concrete Pile Cap/Footing	12	0	12	0	0	12	3348
234		Reinforced Concrete Pier Cap	33	33	0	0	0	0	3348
301		Pourable Joint Seal	0	0	0	0	0	0	3310

Structure Number: 560009

Inspection Date: 05/26/2015

316		Other Bearings	8	8	0	0	0	0	3334
331		Reinforced Concrete Bridge Railing	96	96	0	0	0	0	3318
510		Wearing Surface	1,270	1,270	0	0	0	0	2816

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

Span Number 5

Span Length 47.917 Feet

Number of Beams/Girders: 4

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
12		Reinforced Concrete Deck	1,510	1,510	0	0	0	0	3326
110		Reinforced Concrete Open Girder/Bear	192	192	0	0	0	0	3306
205		Reinforced Concrete Column	2	2	0	0	0	0	3348
234		Reinforced Concrete Pier Cap	33	33	0	0	0	0	3348
301		Pourable Joint Seal	0	0	0	0	0	0	3310
316		Other Bearings	8	8	0	0	0	0	3334
331		Reinforced Concrete Bridge Railing	96	96	0	0	0	0	3318
510		Wearing Surface	1,270	1,270	0	0	0	0	2816

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

Superstructure Detailed Element Quantities

Structure Number: 560009

Inspection Date: 05/26/2015

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	1512	1512	0	0	0	0	3326	☐ Requested
☐ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	48	48	0	0	0	0	3318	☐ Requested
☐ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	48	48	0	0	0	0	3318	☐ Requested
☐ Wearing Surfaces		510	Wearing Surface	1272	1272	0	0	0	0	2816	☐ Requested
☐ Beam	1	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Beam	2	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Beam	3	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Beam	4	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested

Structure Number: 560009

Inspection Date: 05/26/2015

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	1510	1510	0	0	0	0	3326	☐ Requested
☐ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	48	48	0	0	0	0	3318	☐ Requested
☐ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	48	48	0	0	0	0	3318	☐ Requested
☐ Wearing Surfaces		510	Wearing Surface	1270	1270	0	0	0	0	2816	☐ Requested
☐ Beam	1	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Beam	2	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Beam	3	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Beam	4	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Expansion Joints	1	301	Pourable Joint Seal	0	0	0	0	0	0	3310	☐ Requested

Structure Number: 560009

Inspection Date: 05/26/2015

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	1510	1510	0	0	0	0	3326	☐ Requested
☐ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	48	48	0	0	0	0	3318	☐ Requested
☐ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	48	48	0	0	0	0	3318	☐ Requested
☐ Wearing Surfaces		510	Wearing Surface	1270	1270	0	0	0	0	2816	☐ Requested
☐ Beam	1	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Beam	2	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Beam	3	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Beam	4	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested

Structure Number: 560009

Inspection Date: 05/26/2015

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	1510	1510	0	0	0	0	3326	☐ Requested
☐ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	48	48	0	0	0	0	3318	☐ Requested
☐ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	48	48	0	0	0	0	3318	☐ Requested
☐ Wearing Surfaces		510	Wearing Surface	1270	1270	0	0	0	0	2816	☐ Requested
☐ Beam	1	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Beam	2	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Beam	3	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Beam	4	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Expansion Joints	1	301	Pourable Joint Seal	0	0	0	0	0	0	3310	☐ Requested

Structure Number: 560009

Inspection Date: 05/26/2015

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	1510	1510	0	0	0	0	3326	☐ Requested
☐ Bridge Rail	1	331	Reinforced Concrete Bridge Railing	48	48	0	0	0	0	3318	☐ Requested
☐ Bridge Rail	2	331	Reinforced Concrete Bridge Railing	48	48	0	0	0	0	3318	☐ Requested
☐ Wearing Surfaces		510	Wearing Surface	1270	1270	0	0	0	0	2816	☐ Requested
☐ Beam	1	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Beam	2	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Beam	3	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Beam	4	110	Reinforced Concrete Open Girder/Beam	48	48	0	0	0	0	3306	☐ Requested
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	1	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	2	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	3	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	4	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Expansion Joints	1	301	Pourable Joint Seal	0	0	0	0	0	0	3310	☐ Requested
☐ Expansion Joints	1	301	Pourable Joint Seal	0	0	0	0	0	0	3310	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 560009
Span Number

Inspection Date: 05/26/2015

Substructure Detailed Element Quantities

Structure Number: 560009

Inspection Date: 05/26/2015

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	33	33	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	1	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested
☐ Piles and Columns	2	205	Reinforced Concrete Column	1	1	0	0	0	0	3348	☐ Requested

Bent 2

Element Location	Location Number	Element Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code	Priority Maintenance
☐ Caps	1	234	Reinforced Concrete Pier Cap	33	33	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	1	205	Reinforced Concrete Column	1	0	1	0	0	2	3348	☐ Requested
☒ Piles and Columns	2	205	Reinforced Concrete Column	1	0	1	0	0	3	3348	☐ Requested
☒ Footing	1	220	Reinforced Concrete Pile Cap/Footing	12	0	12	0	0	12	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	33	33	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	1	205	Reinforced Concrete Column	1	0	1	0	0	2	3348	☐ Requested
☒ Piles and Columns	2	205	Reinforced Concrete Column	1	0	1	0	0	2	3348	☐ Requested
☒ Footing	1	220	Reinforced Concrete Pile Cap/Footing	12	0	12	0	0	12	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	33	33	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

Substructure Element Defect Descriptions

Structure Number: 560009

Inspection Date: 05/26/2015

Bent 2

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

1 Each of Abrasion/Wear (PSC/RANDOM CRACK): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. UP TO A 1/4" LOSS TO SURFACE CONCRETE. WATER DEPTH AT TIME OF INSPECTION WAS 2'.

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

1 Each of Abrasion/Wear (PSC/RANDOM CRACK): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. UP TO A 1/4" LOSS TO SURFACE CONCRETE. WATER DEPTH AT TIME OF INSPECTION WAS 3'.

Bent 2	Row 1	Footing	1
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Element: 220 Name Reinforced Concrete Pile Cap/F Qty: 12 Lvl 2: 12 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 12
Defect Description:

12 Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. UP TO A 1/4" LOSS TO SURFACE CONCRETE TO EXPOSED AREAS.

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

1 Each of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. UP TO A 1/4" LOSS TO SURFACE CONCRETE. WATER DEPTH AT TIME OF INSPECTION WAS 2'.

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

1 Each of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. UP TO A 1/4" LOSS TO SURFACE CONCRETE. WATER DEPTH AT TIME OF INSPECTION WAS 2'.

Bent 3	Row 1	Footing	1
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Element: 220 Name Reinforced Concrete Pile Cap/F Qty: 12 Lvl 2: 12 Lvl 3: 0 Lvl 4: 0 Maint. Qty: 12
Defect Description:

12 Feet of Abrasion/Wear (PSC/RC): Abrasion or wearing has exposed coarse aggregate but the aggregate remains secure in the concrete. UP TO A 1/4" LOSS TO SURFACE CONCRETE TO EXPOSED AREAS.

National Bridge and NC Inspection Items

Structure Number: 560009

Inspection Date: 05/26/2015

National Bridge Inventory Items

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

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			
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C			
Wingwall	G, F, P, or C			
Scour	G, F, P, or C	F		
Field Scour Evaluation		L		
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			

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	12
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 560009

Inspection Date: 05/26/2015

Item	Drift	Grade	G	Maint Code	3366	Qty.	0
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Details UP TO 3" IN DIAMETER DRIFT SCATTERED.

Item	Scour	Grade	F	Maint Code	Qty.	0
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Details GRADE REFLECTS FOOTING EXPOSURES.



COARSE AGGREGATE



LOOKING SOUTH AT BENT 2



LOOKING SOUTH



LOOKING WEST



LOOKING EAST



LOOKING NORTH

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

Update Date: 12/17/2015

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	560009		SUFFICIENCY RATING =		46.32	
(8) STRUCTURE NUMBER(FEDERAL)		000000001150009		STATUS =	Structurally Deficient		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31002510					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		2		CLASSIFICATION		CODE	
(3) COUNTY CODE 115 (4) PLACE CODE		0		(112)NBIS BRIDGE SYSTEM -		YES	
(6) FEATURE INTERSECTED - IVY CREEK				(104)HIGHWAY SYSTEM Is not on NHS		0	
(7) FACILITY CARRIED NC251 SBL				(26) FUNCTIONAL CLASS - Major Collector		07	
(9) LOCATION .01 MI.S.JCT.US25,70				(100)STRAHNET HIGHWAY - Not a STRAHNET Route		0	
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE - Left Parallel Structure		L	
(16)LAT 35° 46' 36.13" (17)LONG 82° 38' 51.99"				(102)DIRECTION OF TRAFFIC - 1-way Traffic		1	
(98)BORDER BRIDGE STATE CODE	PCT SHARE			(103)TEMPORARY STRUCTURE -			
(99)BORDER BRIDGE STRUCTURE NO				(110)DESIGNATED NATIONAL NETWORK - Not on the National Network		0	
				(20) TOLL On Free Road		3	
STRUCTURE TYPE AND MATERIAL				(31) MAINTAIN - State Highway Agency		01	
(43) STRUCTURE TYPE MAIN: Concrete				(22) OWNER - State Highway Agency		01	
TYPE - Tee Beam	CODE	104		(37) HISTORICAL SIGNIFICANCE - Not Eligible		5	
(44) STRUCTURE TYPE APPR :				CONDITION		CODE	
TYPE -	CODE	000		(58) DECK		4	
(45) NUMBER OF SPANS IN MAIN UNIT		5		(59) SUPERSTRUCTURE		4	
(46) NUMBER OF APPROACH SPANS				(60) SUBSTRUCTURE		4	
(107)DECK STRUCTURE TYPE - 1	CODE			(61) CHANNEL & CHANNEL PROTECTION		7	
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(62) CULVERTS		N	
(A) TYPE OF WEARING SURFACE -	CODE			LOAD RATING AND POSTING		CODE	
(B) TYPE OF MEMBRANE -	CODE			(31) DESIGN LOAD HS 20 + MOD		6	
(C) TYPE OF DECK PROTECTION -	CODE			(63) OPERATING RATING METHOD - Load Factor		1	
				(64) OPERATING RATING - HS-28		50	
(27) YEAR BUILT		1957		(65) INVENTORY RATING METHOD - Load Factor		1	
(106)YEAR RECONSTRUCTED				(66) INVENTORY RATING - HS-17		30	
(42) TYPE OF SERVICE : ON - Highway				(70) BRIDGE POSTING - No Posting Required		5	
UNDER - Waterway	CODE	15		(41) STRUCTURE OPEN, POSTED ,OR CLOSED		A	
(28) LANES: ON STRUCTURE 1 UNDER STRUCTURE		0		DESCRIPTION - Open, No Restriction			
(29) AVERAGE DAILY TRAFFIC		600		APPRAISAL		CODE	
(30) YEAR OF ADT 2012 (109) TRUCK ADT PCT		7%		(67) STRUCTURAL EVALUATION		4	
(19) BYPASS OR DETOUR LENGTH		5 MI		(68) DECK GEOMETRY		2	
GEOMETRIC DATA				(69) UNDERCLEARANCES,VERTI & HORIZ		N	
(48) LENGTH OF MAXIMUM SPAN		45 FT		(71) WATERWAY ADEQUACY		7	
(49) STRUCTURE LENGTH		239 FT		(72) APPROACH ROADWAY ALIGNMENT		8	
(50)CURB OR SIDEWALK: LEFT 1.6 FT RIGHT 1.6 FT				(36) TRAFFIC SAFETY FEATURES		0000	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		14.667 FT		(113)SCOUR CRITICAL BRIDGES		8	
(52) DECK WIDTH OUT TO OUT		31.5 FT		PROPOSED IMPROVEMENTS		CODE	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		25 FT		(75) TYPE OF WORK -			
(33) BRIDGE MEDIAN - No Median	CODE	1		(76) LENGTH OF STRUCTURE IMPROVEMENT			
(34) SKEW 30° (35) STRUCTURE FLARED		0		(94) BRIDGE IMPROVEMENT COST			
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT		(95) ROADWAY IMPROVEMENT COST			
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		14.667 FT		(96) TOTAL PROJECT COST			
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT		(114)FUTURE ADT 1200 (115) YEAR FUTURE ADT 2025			
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT		INSPECTIONS			
(56) MIN LAT UNDERCLEAR LT REF -		000 FT		(90) INSPECTION DATE		06/12/2014	
NAVIGATION DATA				(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(38) NAVIGATION CONTROL - No Navigational Control	CODE	0		A) FRACTURE CRIT DETAIL - NO		A)	
(111)PIER PROTECTION -	CODE			B) UNDERWATER INSP - YES 48Mo		B)	05/26/2015
(39) NAVIGATION VERTICAL CLEARANCE		0		C) OTHER SPECIAL INSP NO		C)	
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT			SCOUR			
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT					

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Update Date: 12/17/2015

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
MADISON	13	2	560009	239	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
NC251 SBL	IVY CREEK

LOCATED :	BRIDGE NAME :	CITY :
.01 MI.S.JCT.US25,70		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
07	FA	NFA	600 2012	LT 111 RT 111

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1957	SHPWC	9723		HS 20 + MOD

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
	BMU	5.8641	LT.	120	ON 1	UNDER	0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		30 FT		5		FT

SUPERSTRUCTURE :	RCDG(14.667' BRG.RDWAY OPEN TO TRAFFIC, OTHER PORTION RDWAY. CLOSED)
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SUBSTRUCTURE :	E.BTS:RC CAPS/H-PIPES;INT.BTS:RC POST&BEAM
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SPANS :	1 @ 47'-11;1 @ 47'-5;1 @ 47'-11;1 @ 47'-10;1 @ 47'-11
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BEAMS OR GIRDERS :	4 LINES REINFORCED CONCRETE GIRDERS @ 8' CENTERS
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FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
7 RC/4 AWS		31.5 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
14.667 FT	16.25 FT	LT 1.6 FT RT 1.6 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-17	HS-28	ExtGirder1	SV		

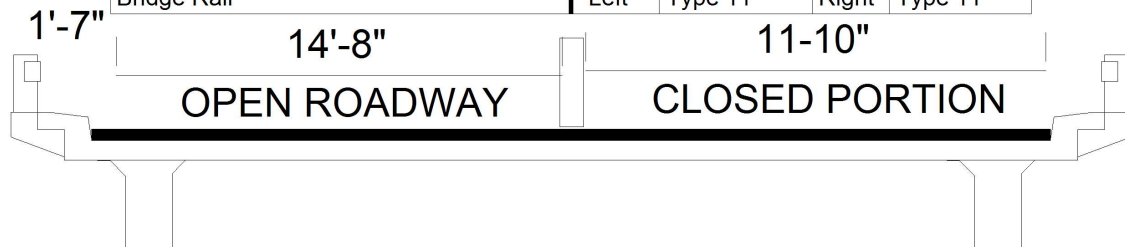
SYSTEM :	GREEN LINE ROUTE :
Primary N.C. Route	Y

UNDER ROUTES AND CLEARANCES

REMARKS :

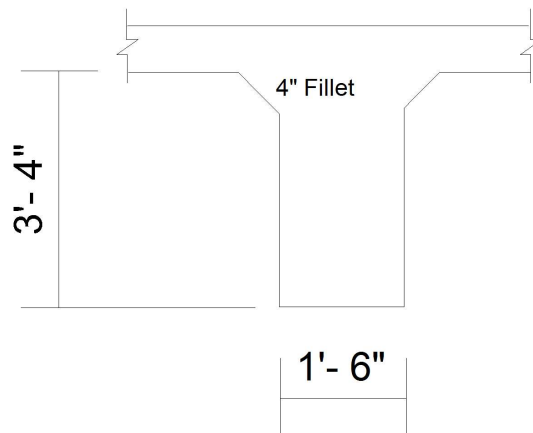
Bridge Inspection Field Sketch

Deck Width/Out to Out	31.5ft	Between Rails	16.250ft
Clear Roadway	14.667ft	Wearing Surface	0.333ft
Median Width		Median Height	
Curb Height		Left 0.5ft	Right 0.5ft
Sidewalk Width		Left	Right
Clear Roadway (Rail to Median)		Left	Right
Guardrail Width		Left	Right
Top of Rail to Deck/Wearing Surface		Left 2.5ft	Right 2.5ft
Bridge Rail		Left Type 11	Right Type 11



Measurements for Span #	1		
Deck Thickness	0.583	Left Overhang	3.25
Top of Rail to Bottom of Beam	6.417	Right Overhang	3.25

Beam Number	Beam Type	Spacing
1 thru 4	RC Deck Girder	8.0ft



Concrete Deck Girder

6/12/14 - J.C.HUNTSINGER

Title		Description	
Typical Section		Data Worksheet	
Bridge No: 560009	Drawn By: Roy W. Shook	Date: 08/08/2008	File Name: S0318000511

Bridge Inspection Field Sketch



Roadway	13.5ft Wide	1 Paved Lanes	Looking South
Left Shoulder	8ft Wide		8ft Unpaved
Right Shoulder	11ft Wide	11ft Paved	
Left Guardrail			
Right Guardrail			

6/12/14 - J.C.HUNTSINGER

Title

Approach Roadway

Description

Data Worksheet

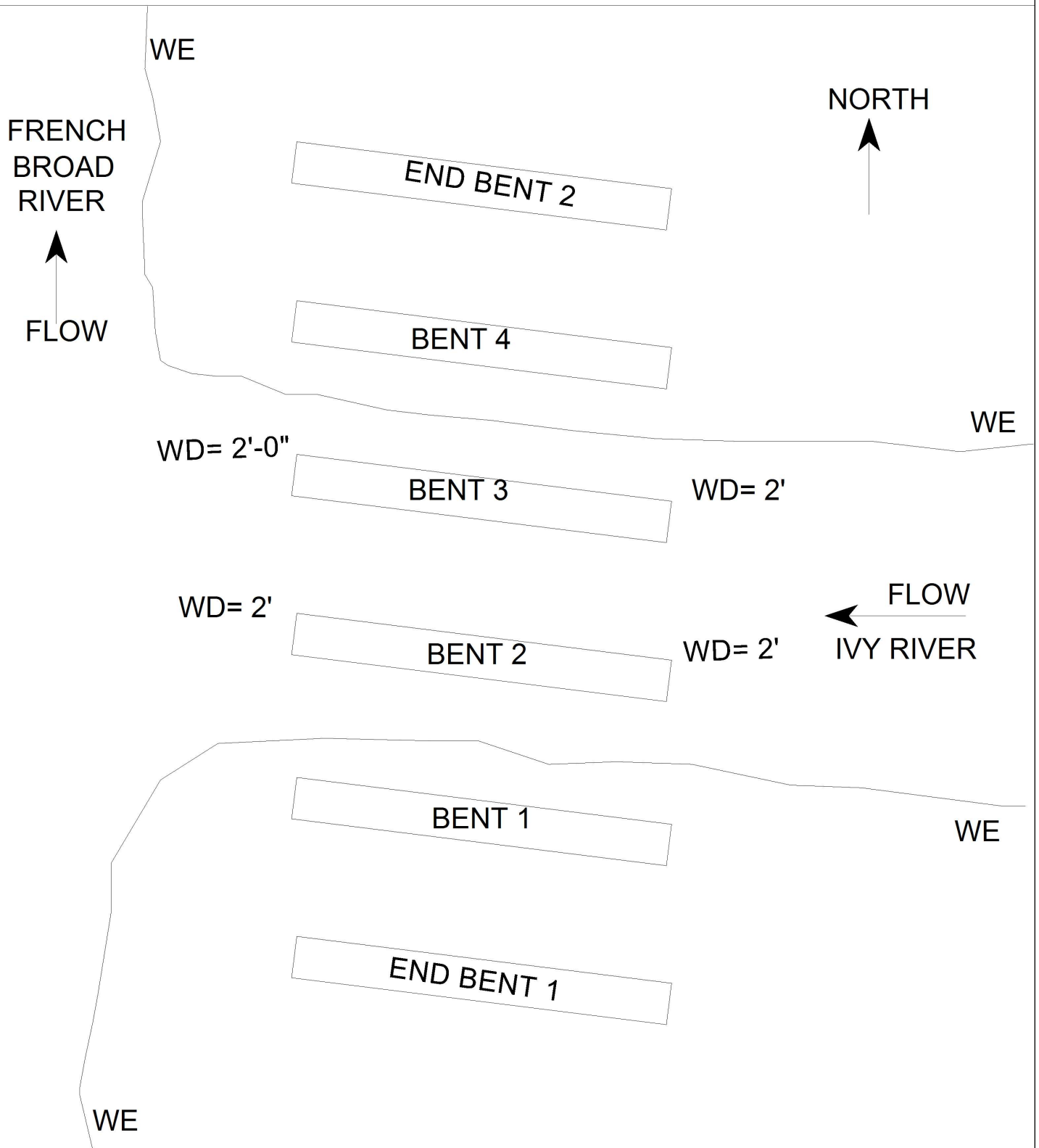
Bridge No: 560009

Drawn By: DDH

Date: 08/08/2008

File Name: S0318000510

Bridge Inspection Field Sketch



Title
PLAN VIEW

Description
PLAN VIEW

Bridge No: 560009

Drawn By: JOHN HOUSTON

Date: 05/26/2015

File Name: S0150000413

Bridge Inspection Field Sketch

[illegible]

Title		Description	
FOOTING EXPOSURES		FOOTING EXPOSURES	
Bridge No: 560009	Drawn By: JOHN HOUSTON	Date: 05/26/2015	File Name: S0150000414

[illegible]