



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: temporary pile repairs: concrete collar, channel legs patched.

Structure Safety Report

Routine Element Inspection

COUNTY: JOHNSTON STRUCTURE NUMBER: 500046 FREQUENCY: 24 MONTHS
FACILITY CARRIED: SR1124 MILE POST: _____
LOCATION: 0.1 MI. N. OF SR1122
FEATURE INTERSECTED: MILL CREEK
LATITUDE: 35° 17' 16.38" LONGITUDE: 78° 25' 48.78"
SUPERSTRUCTURE: PRESTRESSED CONCRETE CHANNELS(STD.BMD-13)
SUBSTRUCTURE: E.BTS&BTS:PPC CAPS TIM.PILES@BT.1PILE3 SPLICED ENC.W/CONC.
SPANS: 3@30'
☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☒ SCOUR PLAN OF ACTION
PRESENT CONDITION: Fair INSPECTION DATE: 12/08/2015
POSTED SV: 26 POSTED TTST: 30
OTHER 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 Willis C May	SIGNATURE 	ASSISTED BY Wayne T Wilkinson
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Span Element Report

Structure Number: 500046

Inspection Date: 12/08/2015

Span Number 1

Span Length 30 Feet

Number of Slabs/Channels: 10

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
15		Prestressed Concrete Top Flange	770	727	40	3	0	43	3326
109		Prestressed Concrete Open Girder/Bearing	300	257	13	30	0	43	3306
216		Timber Abutment	34	12	12	10	0	22	3346
228		Timber Pile	5	0	5	0	0	10	3344
233		Prestressed Concrete Pier Cap	26	26	0	0	0	0	3348
316		Other Bearings	20	20	0	0	0	0	3334
330		Metal Bridge Railing	60	55	5	0	0	5	3322
515	330	Steel Protective Coating	254	247	2	0	5	7	3342
510		Wearing Surface	0	-54	0	54	0	54	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 30 Feet

Number of Slabs/Channels: 10

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
15		Prestressed Concrete Top Flange	770	728	41	1	0	42	3326
109		Prestressed Concrete Open Girder/Bearing	300	281	12	7	0	19	3306
228		Timber Pile	5	0	5	0	0	30	3344
233		Prestressed Concrete Pier Cap	26	26	0	0	0	0	3348
316		Other Bearings	20	20	0	0	0	0	3334
330		Metal Bridge Railing	60	54	6	0	0	6	3322
515	330	Steel Protective Coating	254	248	0	0	6	6	3342
510		Wearing Surface	0	-54	0	54	0	54	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 30 Feet

Number of Slabs/Channels: 10

Element Number	Parent Number	Element Name	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity	Maint. Quantity	Maint. Code
15		Prestressed Concrete Top Flange	770	730	40	0	0	40	3326
109		Prestressed Concrete Open Girder/Bearing	300	248	40	12	0	52	3306
216		Timber Abutment	34	13	12	9	0	21	3346
228		Timber Pile	10	0	10	0	0	40	3344
233		Prestressed Concrete Pier Cap	26	26	0	0	0	0	3348
235		Timber Pier Cap	26	26	0	0	0	0	3344
316		Other Bearings	20	20	0	0	0	0	3334
330		Metal Bridge Railing	60	55	5	0	0	5	3322
515	330	Steel Protective Coating	60	55	0	0	5	5	3342
510		Wearing Surface	0	-78	0	78	0	78	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: 500046

Inspection Date: 12/08/2015

Structure Number: 500046

Inspection Date: 12/08/2015

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
☒ Bridge Rail	1	330	Metal Bridge Railing	30	30	0	0	0	0	3322	☐ Requested
Protective System		515	Steel Protective Coating	127	126	1	0	0	1	3342	
☒ Bridge Rail	2	330	Metal Bridge Railing	30	25	5	0	0	5	3322	☐ Requested
Protective System		515	Steel Protective Coating	127	121	1	0	5	6	3342	
☒ Wearing Surfaces		510	Wearing Surface	0	-54	0	54	0	54	2816	☐ Requested
☐ Beam	1	15	Prestressed Concrete Top Flange	77	57	20	0	0	20	3326	☐ Requested
☒ Beam	1	109	Prestressed Concrete Open Girder/Bear	30	23	1	6	0	7	3306	☐ Requested
☐ Beam	2	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	2	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	3	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	3	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	4	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	4	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	5	15	Prestressed Concrete Top Flange	77	75	0	2	0	2	3326	☐ Requested
☒ Beam	5	109	Prestressed Concrete Open Girder/Bear	30	6	0	24	0	24	3306	☐ Requested
☐ Beam	6	15	Prestressed Concrete Top Flange	77	76	0	1	0	1	3326	☐ Requested
☒ Beam	6	109	Prestressed Concrete Open Girder/Bear	30	22	8	0	0	8	3306	☐ Requested
☐ Beam	7	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	7	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	8	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	8	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	9	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	9	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	10	15	Prestressed Concrete Top Flange	77	57	20	0	0	20	3326	☐ Requested
☒ Beam	10	109	Prestressed Concrete Open Girder/Bear	30	26	4	0	0	4	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

Structure Number: 500046

Inspection Date: 12/08/2015

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
☐ 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
☐ Bearing Device	5	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	5	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	6	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	6	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	10	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	10	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested

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
☒ Bridge Rail	1	330	Metal Bridge Railing	30	28	2	0	0	2	3322	☐ Requested
Protective System		515	Steel Protective Coating	127	125	0	0	2	2	3342	
☒ Bridge Rail	2	330	Metal Bridge Railing	30	26	4	0	0	4	3322	☐ Requested
Protective System		515	Steel Protective Coating	127	123	0	0	4	4	3342	
☒ Wearing Surfaces		510	Wearing Surface	0	-54	0	54	0	54	2816	☐ Requested
☐ Beam	1	15	Prestressed Concrete Top Flange	77	57	20	0	0	20	3326	☐ Requested
☒ Beam	1	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	2	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	2	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	3	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	3	109	Prestressed Concrete Open Girder/Bear	30	25	4	1	0	5	3306	☐ Requested
☐ Beam	4	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	4	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	5	15	Prestressed Concrete Top Flange	77	76	0	1	0	1	3326	☐ Requested
☒ Beam	5	109	Prestressed Concrete Open Girder/Bear	30	22	8	0	0	8	3306	☐ Requested
☐ Beam	6	15	Prestressed Concrete Top Flange	77	76	1	0	0	1	3326	☐ Requested
☒ Beam	6	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	7	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	7	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	8	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	8	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	9	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	9	109	Prestressed Concrete Open Girder/Bear	30	24	0	6	0	6	3306	☐ Requested
☐ Beam	10	15	Prestressed Concrete Top Flange	77	57	20	0	0	20	3326	☐ Requested
☒ Beam	10	109	Prestressed Concrete Open Girder/Bear	30	30	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

Structure Number: 500046

Inspection Date: 12/08/2015

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
☐ 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
☐ Bearing Device	5	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	5	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	6	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	6	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	10	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	10	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested

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
☒ Bridge Rail	1	330	Metal Bridge Railing	30	27	3	0	0	3	3322	☐ Requested
Protective System		515	Steel Protective Coating	30	27	0	0	3	3	3342	
☒ Bridge Rail	2	330	Metal Bridge Railing	30	28	2	0	0	2	3322	☐ Requested
Protective System		515	Steel Protective Coating	30	28	0	0	2	2	3342	
☒ Wearing Surfaces		510	Wearing Surface	0	-78	0	78	0	78	2816	☐ Requested
☐ Beam	1	15	Prestressed Concrete Top Flange	77	57	20	0	0	20	3326	☐ Requested
☒ Beam	1	109	Prestressed Concrete Open Girder/Bear	30	21	8	1	0	9	3306	☐ Requested
☐ Beam	2	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	2	109	Prestressed Concrete Open Girder/Bear	30	17	13	0	0	13	3306	☐ Requested
☐ Beam	3	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	3	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	4	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	4	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	5	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	5	109	Prestressed Concrete Open Girder/Bear	30	20	5	5	0	10	3306	☐ Requested
☐ Beam	6	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	6	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	7	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	7	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	8	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	8	109	Prestressed Concrete Open Girder/Bear	30	30	0	0	0	0	3306	☐ Requested
☐ Beam	9	15	Prestressed Concrete Top Flange	77	77	0	0	0	0	3326	☐ Requested
☒ Beam	9	109	Prestressed Concrete Open Girder/Bear	30	18	12	0	0	12	3306	☐ Requested
☐ Beam	10	15	Prestressed Concrete Top Flange	77	57	20	0	0	20	3326	☐ Requested
☒ Beam	10	109	Prestressed Concrete Open Girder/Bear	30	22	2	6	0	8	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

Structure Number: 500046

Inspection Date: 12/08/2015

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
☐ 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
☐ Bearing Device	5	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	5	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	6	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	6	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	7	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	8	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	9	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	10	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested
☐ Bearing Device	10	316	Other Bearings	1	1	0	0	0	0	3334	☐ Requested

Superstructure Element Defect Descriptions

Structure Number: 500046

Inspection Date: 12/08/2015

Span Number 1

Span 1	Bridge Rail	1	Component Name: Steel Rail									
Element: 330	Name	Metal Bridge Railing	Qty:	30	Lvl 2:	0	Lvl 3	0	Lvl 4	0	Maint. Qty	0
Defect Description:												

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

Span	1	Bridge Rail	2	Component Name: Steel Rail									
Element:	330	Name	Metal Bridge Railing	Qty:	30	Lvl 2:	5	Lvl 3	0	Lvl 4	0	Maint. Qty	5
Defect Description:													

5 Square Feet of Corrosion: Freckled rust. Corrosion of the steel has initiated at random guardrail posts.

5 Square Feet of Effectiveness (Steel Protective Coatings): Failed; no protection of the underlying metal.

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

Span 1	Wearing Surfaces			Component Name:		Asphalt Wearing Surface						
Element: 510	Name	Wearing Surface	Qty:	0	Lvl 2:	0	Lvl 3	54	Lvl 4	0	Maint. Qty	54
Defect Description:												

24 Square Feet of Cracking over End Bent 1 (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft.

30 Square Feet of longitudinal Cracking along centerline of span (Wearing Surface): Width of more than 0.05 in. or spacing of less than 1.0 ft.

Span 1	Beam 1	Component Name:		Prestressed Concrete Channel								
Element: 15	Name	Prestressed Concrete Top Flan	Qty:	77	Lvl 2:	20	Lvl 3	0	Lvl 4	0	Maint. Qty	20
Defect Description:												

1 Square Foot of Spalling in the left curb: Spall 1 in. or less deep or 6 in. or less in diameter. Patched area that is sound.

4 Square Feet of Patching along the left curb: Patched area that is sound.

15 Square Feet of Abrasion/Wear along the left curb: Abrasion or wear has exposed coarse aggregate but aggregate remains secure in the concrete.

Span 1	Beam 1	Component Name:		Prestressed Concrete Channel							
Element: 109	Name	Prestressed Concrete Open Gir	Qty: 30	Lvl 2:	1	Lvl 3	6	Lvl 4	0	Maint. Qty	7
Defect Description:											

1 Feet of Patched area that is sound in bottom of left leg.

6 Feet of transverse Cracking in right leg 2 in up from bottom at midspan (PSC): Width greater than 0.009 in. or spacing less than 1 ft.

Span 1	Beam	5	Component Name:		Prestressed Concrete Channel							
Element: 109	Name	Prestressed Concrete Open Gir	Qty:	30	Lvl 2:	0	Lvl 3	24	Lvl 4	0	Maint. Qty	24
Defect Description:												

24 Feet of Patched area that is showing distress in right leg.

Span 1	Beam	5	Component Name: Prestressed Concrete Channel									
Element: 15	Name	Prestressed Concrete Top Flan	Qty:	77	Lvl 2:	0	Lvl 3	2	Lvl 4	0	Maint. Qty	2
Defect Description:												

2 Square Feet of spalled area/ spall in bottom of deck at bent 1 18 in dia x 2 in deep.

Span 1	Beam	6	Component Name:		Prestressed Concrete Channel							
Element: 15	Name	Prestressed Concrete Top Flan	Qty:	77	Lvl 2:	0	Lvl 3	1	Lvl 4	0	Maint. Qty	1
Defect Description:												

1 Square Feet of spall 3 in deep in bottom of deck at bent 1.

Span 1	Beam 6	Component Name:		Prestressed Concrete Channel					
Element: 109	Name	Prestressed Concrete Open Gir	Qty: 30	Lvl 2: 8	Lvl 3: 0	Lvl 4: 0	Maint. Qty	8	
Defect Description:									

Span 1	Beam 10	Component Name: Prestressed Concrete Channel									
Element: 109	Name Prestressed Concrete Open Gir	Qty: 30	Lvl 2: 4	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 4					
Defect Description:											

Span 1	Beam	10	Component Name:		Prestressed Concrete Channel							
Element: 15	Name	Prestressed Concrete Top Flan	Qty:	77	Lvl 2:	20	Lvl 3	0	Lvl 4	0	Maint. Qty	20
Defect Description:												

Span 2	Bridge Rail	1	Component Name: Steel Rail									
Element: 330	Name	Metal Bridge Railing	Qty:	30	Lvl 2:	2	Lvl 3	0	Lvl 4	0	Maint. Qty	2
Defect Description:												

Span 2	Bridge Rail	2	Component Name: Steel Rail									
Element: 330	Name	Metal Bridge Railing	Qty:	30	Lvl 2:	4	Lvl 3	0	Lvl 4	0	Maint. Qty	4
Defect Description:												

Span 2	Wearing Surfaces		Component Name:		Asphalt Wearing Surface							
Element: 510	Name	Wearing Surface	Qty:	0	Lvl 2:	0	Lvl 3	54	Lvl 4	0	Maint. Qty	54
Defect Description:												

Span 2	Beam 1	Component Name: Prestressed Concrete Channel									
Element: 15	Name Prestressed Concrete Top Flan	Qty: 77	Lvl 2: 20	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 20					
Defect Description:											

Span 2	Beam 3	Component Name: Prestressed Concrete Channel									
Element: 109	Name Prestressed Concrete Open Gir	Qty: 30	Lvl 2: 4	Lvl 3: 1	Lvl 4: 0	Maint. Qty: 5					
Defect Description:											

Span 2	Beam	5	Component Name: Prestressed Concrete Channel									
Element: 109	Name	Prestressed Concrete Open Gir	Qty:	30	Lvl 2:	8	Lvl 3	0	Lvl 4	0	Maint. Qty	8
Defect Description:												

Span 2	Beam	5	Component Name: Prestressed Concrete Channel									
Element: 15	Name	Prestressed Concrete Top Flan	Qty:	77	Lvl 2:	0	Lvl 3	1	Lvl 4	0	Maint. Qty	1
Defect Description:												

Span 2	Beam 6	Component Name: Prestressed Concrete Channel								
Element: 15	Name Prestressed Concrete Top Flan	Qty: 77	Lvl 2: 1	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 1				
Defect Description:										

Span 2	Beam 9	Component Name: Prestressed Concrete Channel									
Element: 109	Name Prestressed Concrete Open Gir	Qty: 30	Lvl 2: 0	Lvl 3: 6	Lvl 4: 0	Maint. Qty: 6					
Defect Description:											

Span 2	Beam	10	Component Name: Prestressed Concrete Channel									
Element: 15	Name	Prestressed Concrete Top Flan	Qty:	77	Lvl 2:	20	Lvl 3	0	Lvl 4	0	Maint. Qty	20
Defect Description:												

Span 3	Bridge Rail	1	Component Name:				Steel Rail					
Element: 330	Name	Metal Bridge Railing	Qty:	30	Lvl 2:	3	Lvl 3	0	Lvl 4	0	Maint. Qty	3
Defect Description:												

Span 3	Bridge Rail	2	Component Name:				Steel Rail					
Element: 330	Name	Metal Bridge Railing	Qty:	30	Lvl 2:	2	Lvl 3	0	Lvl 4	0	Maint. Qty	2
Defect Description:												

Span 3	Wearing Surfaces		Component Name:		Asphalt Wearing Surface							
Element: 510	Name	Wearing Surface	Qty:	0	Lvl 2:	0	Lvl 3	78	Lvl 4	0	Maint. Qty	78
Defect Description:												

Span 3	Beam 1	Component Name: Prestressed Concrete Channel									
Element: 15	Name Prestressed Concrete Top Flan	Qty: 77	Lvl 2: 20	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 20					
Defect Description:											

Span 3	Beam 1	Component Name: Prestressed Concrete Channel									
Element: 109	Name Prestressed Concrete Open Gir	Qty: 30	Lvl 2: 8	Lvl 3: 1	Lvl 4: 0	Maint. Qty: 9					
Defect Description:											

Span 3	Beam 2	Component Name: Prestressed Concrete Channel									
Element: 109	Name Prestressed Concrete Open Gir	Qty: 30	Lvl 2: 13	Lvl 3: 0	Lvl 4: 0	Maint. Qty: 13					
Defect Description:											

Structure Number: 500046

Inspection Date: 12/08/2015

1 Feet of Exposed Rebar: in a spall 6 in x 3 in x 3/4 in deep in right leg at end bent 2.

12 Feet of Patched area that is sound in 3 spots of left leg.

Span	3	Beam	5	Component Name:	Prestressed Concrete Channel				
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Element:	109	Name	Prestressed Concrete Open Gir	Qty:	30	Lvl 2:	5	Lvl 3	5	Lvl 4	0	Maint. Qty	10
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Defect Description:

5 Feet of Patched area that is unsound or showing distress in right leg .

5 Feet of Patched area that is sound in bottom of right leg.

Span	3	Beam	9	Component Name:	Prestressed Concrete Channel				
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Element:	109	Name	Prestressed Concrete Open Gir	Qty:	30	Lvl 2:	12	Lvl 3	0	Lvl 4	0	Maint. Qty	12
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Defect Description:

12 Feet of patched area that is sound in right leg.

Span	3	Beam	10	Component Name:	Prestressed Concrete Channel				
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Element:	109	Name	Prestressed Concrete Open Gir	Qty:	30	Lvl 2:	2	Lvl 3	6	Lvl 4	0	Maint. Qty	8
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Defect Description:

6 Feet of Longitudinal Cracking in left leg 2 in up from bottom.

2 Feet of Patched area that is sound in right leg.

Span	3	Beam	10	Component Name:	Prestressed Concrete Channel				
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Element:	15	Name	Prestressed Concrete Top Flan	Qty:	77	Lvl 2:	20	Lvl 3	0	Lvl 4	0	Maint. Qty	20
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Defect Description:

20 Square Feet of Abrasion/Wear along the right curb: Abrasion or wear has exposed coarse aggregate but aggregate remains secure in the concrete.

Substructure Detailed Element Quantites

Structure Number: 500046

Inspection Date: 12/08/2015

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	216	Timber Abutment	34	12	12	10	0	22	3346	☐ Requested
☒ Caps	1	233	Prestressed Concrete Pier Cap	26	26	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	2	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	2	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	2	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	2	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	0	1	0	0	2	3344	☐ 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	233	Prestressed Concrete Pier Cap	26	26	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	6	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	6	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	6	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	6	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	0	1	0	0	6	3344	☐ 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	233	Prestressed Concrete Pier Cap	26	26	0	0	0	0	3348	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	6	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	6	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	6	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	6	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	0	1	0	0	6	3344	☐ Requested

Structure Number: 500046

Inspection Date: 12/08/2015

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	216	Timber Abutment	34	13	12	9	0	21	3346	☐ Requested
☒ Caps	1	235	Timber Pier Cap	26	26	0	0	0	0	3344	☐ Requested
☒ Piles and Columns	1	228	Timber Pile	1	0	1	0	0	2	3344	☐ Requested
☒ Piles and Columns	2	228	Timber Pile	1	0	1	0	0	2	3344	☐ Requested
☒ Piles and Columns	3	228	Timber Pile	1	0	1	0	0	2	3344	☐ Requested
☒ Piles and Columns	4	228	Timber Pile	1	0	1	0	0	2	3344	☐ Requested
☒ Piles and Columns	5	228	Timber Pile	1	0	1	0	0	2	3344	☐ Requested

Substructure Element Defect Descriptions

Structure Number: 500046

Inspection Date: 12/08/2015

End Bent 1

End Bent 1	Row 1	Abutments	1
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Element: 216 **Name** Timber Abutment **Qty:** 34 **Lvl 2:** 12 **Lvl 3:** 10 **Lvl 4:** 0 **Maint. Qty** 22

Defect Description:

4 Feet of Decay/ Top board at left end decayed 3 in deep from left end to cap and vertical nailer at left end of cap decayed thru.
 2 Feet of Check/Shake in bulkhead piles : Penetrates 5%-50% of the thickness of teh member and not in a tension zone.
 10 Feet of Check/Shake: in bulkhead boards Penetrates 5%-50% of the thickness of teh member and not in a tension zone.
 1 Feet of Decay/ 6 in diameter x 2 in deep in bulkhead board between pile 3 -4.
 5 Feet of Decay/ in bulkhead board 3 in deep from pile 5 to right end.

End Bent 1	Row 1	Piles and Columns	1
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty** 2

Defect Description:

1.5 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

End Bent 1	Row 1	Piles and Columns	2
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty** 2

Defect Description:

1.5 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

End Bent 1	Row 1	Piles and Columns	3
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty** 2

Defect Description:

1.5 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

End Bent 1	Row 1	Piles and Columns	4
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty** 2

Defect Description:

1.5 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

End Bent 1	Row 1	Piles and Columns	5
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty** 2

Defect Description:

1.5 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

Bent 1	Row 1	Piles and Columns	1
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty** 6

Defect Description:

6 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

Bent 1	Row 1	Piles and Columns	2
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3:** 0 **Lvl 4:** 0 **Maint. Qty** 6

Defect Description:

6 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

Bent 1	Row 1	Piles and Columns	3
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.
1 Each of Decay/ 1/4 in deep with delamination below concrete collar to waterline.

Bent 1	Row 1	Piles and Columns	4
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

Bent 1	Row 1	Piles and Columns	5
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

Bent 2	Row 1	Piles and Columns	1
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

Bent 2	Row 1	Piles and Columns	2
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

Bent 2	Row 1	Piles and Columns	3
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

Bent 2	Row 1	Piles and Columns	4
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

Bent 2	Row 1	Piles and Columns	5
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 6

Defect Description:

6 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

End Bent 2	Row 1	Abutments	1
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Element: 216 **Name** Timber Abutment **Qty:** 34 **Lvl 2:** 12 **Lvl 3** 9 **Lvl 4** 0 **Maint. Qty** 21

Defect Description:

12 Feet of Check/Shake in bulkhead boards and bulkhead piles: Penetrates 5%-50% of the thickness of teh member and not in a tension zone.
4 Feet of Decay/ in bulkhead boards 3 in deep and nailer from left end tp pile 1.
5 Feet of Decay/vertical nailer decayed thru at right end of cap and bulkhead boards decayed 2 to 3 in deep from pile 5 to right end .

End Bent 2	Row 1	Piles and Columns	1
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Structure Number: 500046

Inspection Date: 12/08/2015

Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 2

Defect Description:

1.5 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

End Bent 2	Row 1	Piles and Columns	2
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 2

Defect Description:

1.5 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

End Bent 2	Row 1	Piles and Columns	3
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 2

Defect Description:

1.5 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

End Bent 2	Row 1	Piles and Columns	4
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 2

Defect Description:

1.5 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

End Bent 2	Row 1	Piles and Columns	5
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Element: 228 **Name** Timber Pile **Qty:** 1 **Lvl 2:** 1 **Lvl 3** 0 **Lvl 4** 0 **Maint. Qty** 2

Defect Description:

1.5 ft of Check/Shake: Penetrates 5%-50% of the thickenss of the member and not in the tension zone.

National Bridge and NC Inspection Items

Structure Number: 500046

Inspection Date: 12/08/2015

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
Item 59: Superstructure	0 - 9 , N	5
Item 60: Substructure	0 - 9 , N	6
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0 - 9 , N	
Item 71: Waterway Adequacy	0 - 9 , N	7
Item 72: Approach Roadway Alignment	0 - 9 , N	8

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

NC SMU Inspection Items

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	F	360	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	0	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C		0	3350
Field Scour Evaluation		G		
Drift	G, F, P, or C	G	0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	8		

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	8
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	Y
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Structure Number: 500046

Inspection Date: 12/08/2015

Item	Presently Posted	Grade	Y	Maint Code		Qty.	0
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Details SV 26 TTST 26

Item	Deck Debris	Grade	F	Maint Code	3376	Qty.	360
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Details Dirt and Vegetation out 2 ft. along curblines.

Item	Field Scour Evaluation	Grade	G	Maint Code		Qty.	0
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Details Plan of action code Z : less that 4 ft of change in mudline from established baseline.



Transverse crack in Wearing surface over End Bent 1



Repair patch in the left curb of Span 1



Abrasion with exposed aggregate along curblines



Debris and Vegetation along curblines



Transverse crack in Wearing surface over Bent 1



Longitudinal crack along the centerline of Wearing surface in all spans



Transverse crack in Wearing surface over Bent 2



Wearing surface cracked and uneven over End Bent 2



Decay in right end of Bulkhead boards at End Bent 1



Spall in the right leg of Channel beam 10 in Span 1



Repair patch in the left lge of Channel beam 6 in Span 1 - other repairs similar throughout structure



Temporary Repair at Bent 3 Span 3 - others similar



Right side bulkhead at End Bent 2 decayed with fill exposed - Left side similar



Spall with Exposed rebar in the right leg of Channel beam 2 at End Bent 2



Spall with Section loss to Exposed rebar in the right leg of Channel beam 1 at End Bent 2



Repair patch on the left leg of Channel beam 3 in Span 2 near Bent 2 - other repairs similar throughout structure



Looking north



Weight posting



Span 1 Asphalt wearing surface overview



Span 2 overview



Looking west upstream



Looking east downstream



Span 3 overview



Looking south



Bent 1 Span 1 side



End Bent 1 overview



Superstructure over End of cap at Bent 1 - Bent 2 similar



Bent 2 Span 2 side



West profile



End Bent 2 overview



Superstructure overview