

Bridge Inspection Report

23408
Crossbow Madison C
over
TOWN BRANCH



Inspection Date:

Inspected By:

Inspection Type(s):

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Inspector:

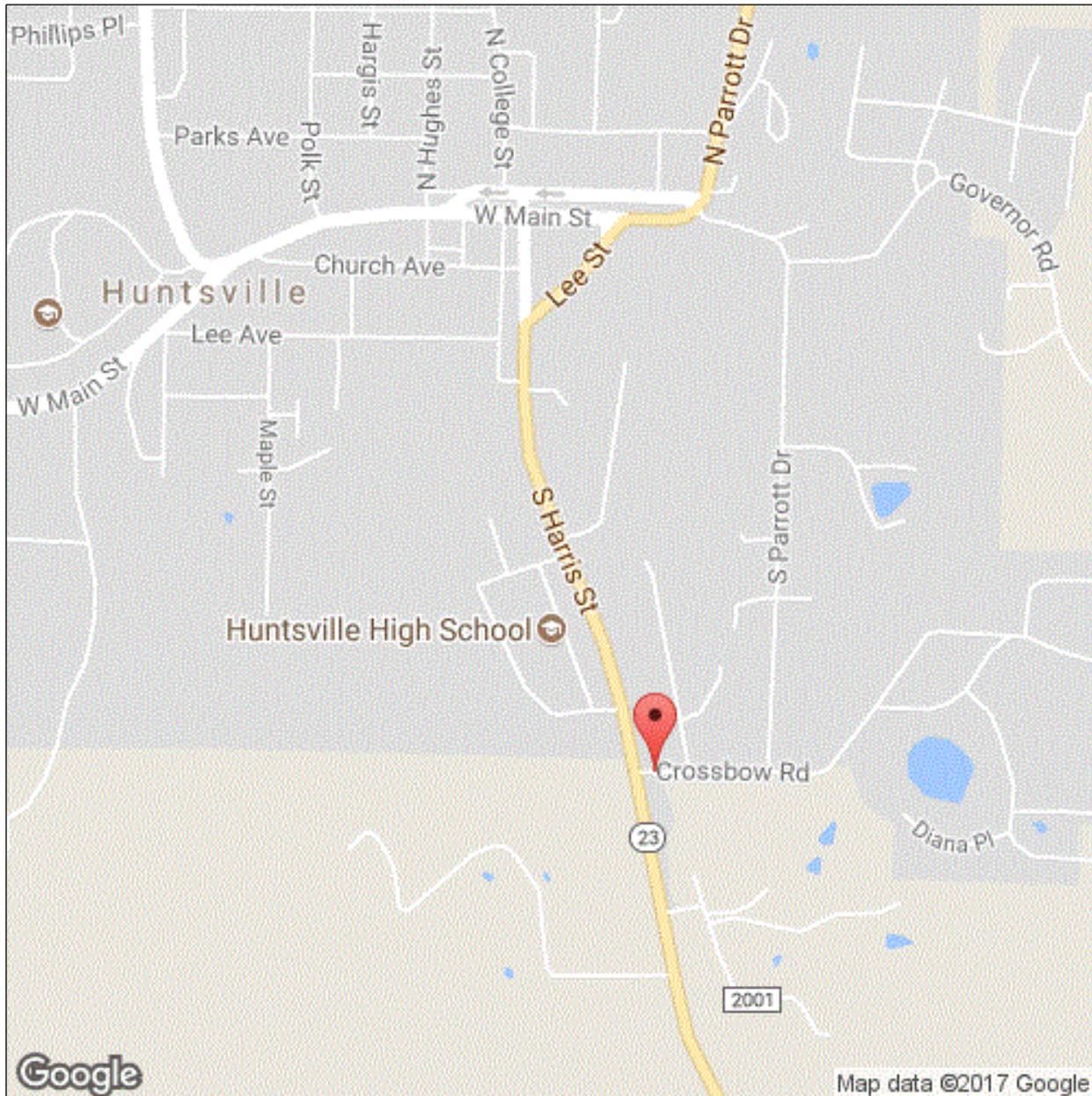
Structure Number: 23408

Inspection Date:

Facility Carried: Crossbow Madison C

Bridge Inspection Report

Location Map



Latitude: 36.078591137351026

Longitude: -93.73237410294308

Inspector:

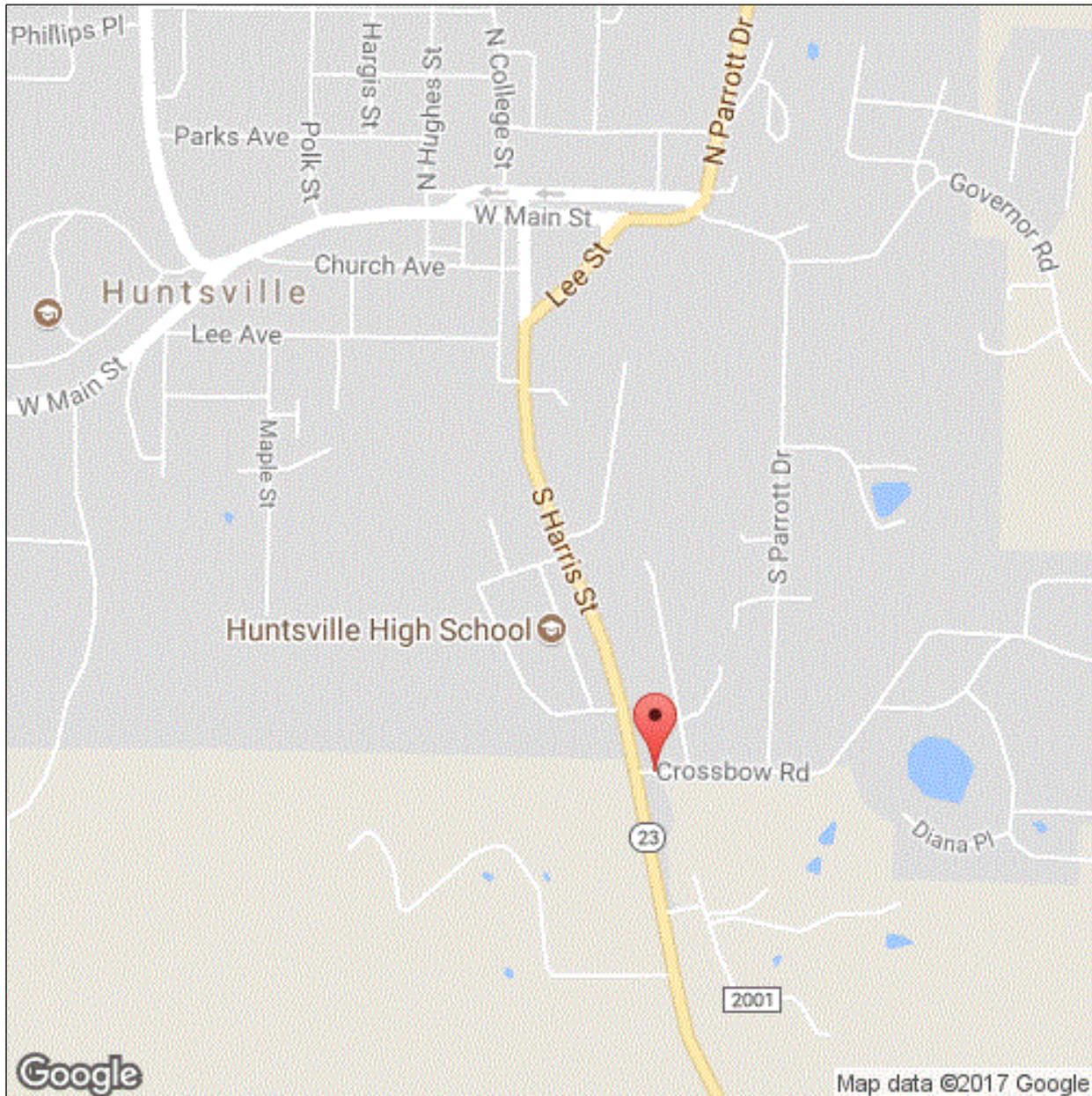
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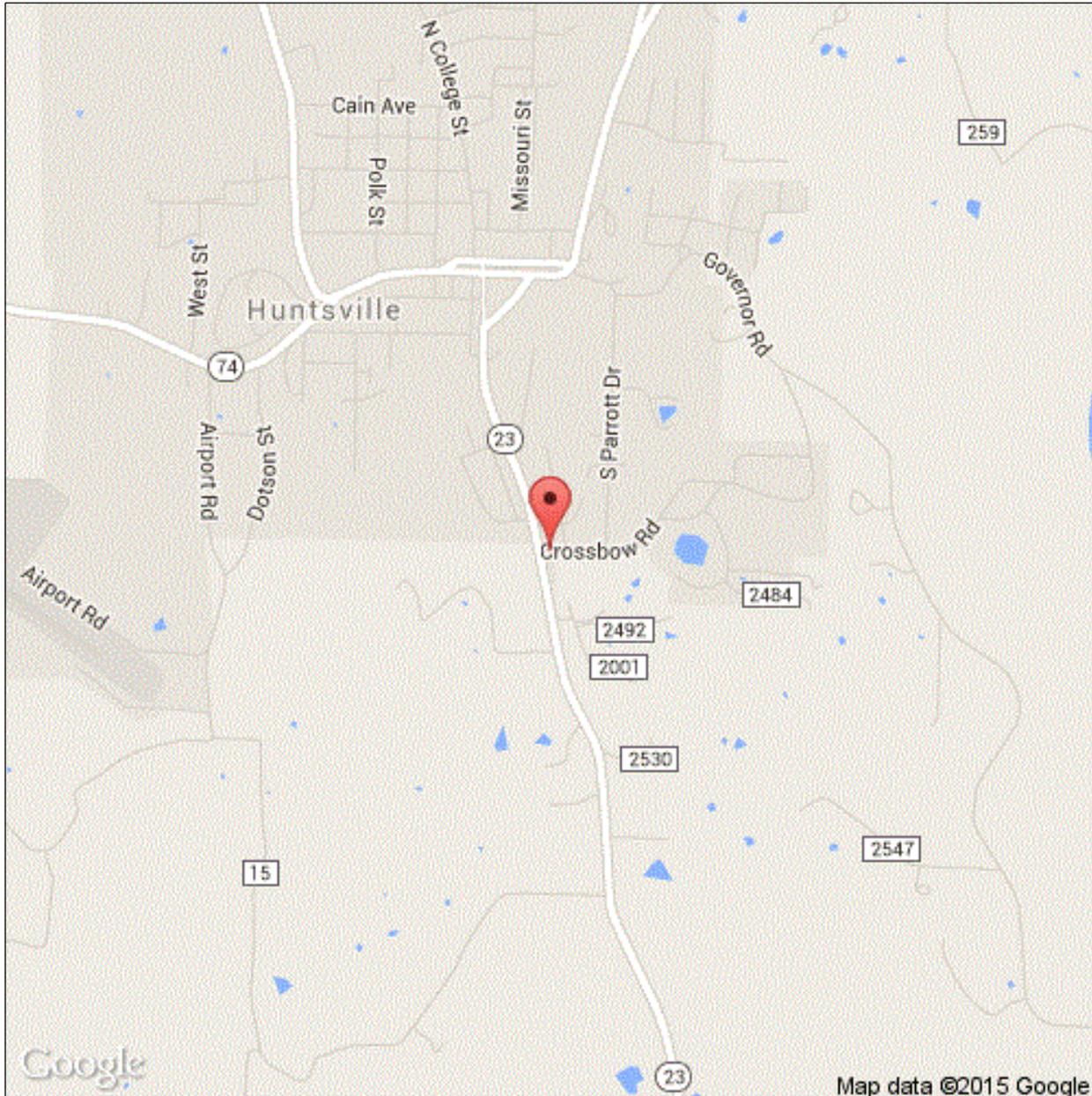
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Executive Summary

08/07/2017 - RSM & SLG: Routine and Underwater Type II inspections conducted this date. See notes tab for documentation.

Underwater Type II inspection: The concrete collar on the left side of abutment #2 has voids that penetrate up to approximately 12" under the collar in front of the Southwest wing wall. The concrete collar on the right side of abutment #1 has undermining that penetrates up to approximately 3' at the Southeast wing wall. The substructure appears to be founded on a solid rock channel.

Logged East to West.

Painted Steel Open Girder Condition State # 3- Surface rust has formed thru-out girder # 1 ,# 4 & at random locations on girders # 2, # 3

Spall on abutment #1 under girder #1 bearing area.

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National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	08/07/2017
(8) STRUCTURE NUMBER	23408	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 5 1 13970 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	09 (3) COUNTY CODE 087	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	33060	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	TOWN BRANCH	C. OTHER SPECIAL	N
(7) FACILITY CARRIED	Crossbow Madison C	CONDITION	
(9) LOCATION	.02 MI E JCT SH 23	(58) DECK	8
(11) MILEPOINT 1.630	(12) BASE HIGHWAY NETWORK 0	(59) SUPERSTRUCTURE 7	(60) SUBSTRUCTURE 6
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00	(61) CHANNEL & CHANNEL PROTECTION 7	(62) CULVERT N
(16) LATITUDE 36.078591137351026	(17) LONGITUDE -93.73237410294308	LOAD RATING AND POSTING	
(98A) BORDER BRIDGE CODE		(31) DESIGN LOAD	0
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT	(63) METHOD USED TO DETERMINE OPERATING RATING	1
STRUCTURE TYPE AND MATERIAL		(64) OPERATING RATING	60.0
(43) STRUCTURE TYPE, MAIN		(65) METHOD USED TO DETERMINE INVENTORY RATING	1
A) KIND OF MATERIAL/DESIGN:	3 - Steel	(66) INVENTORY RATING	36.0
B) TYPE OF DESIGN/CONSTR:	02 - Stringer/Multi-beam or Girder	(70) BRIDGE POSTING	5
(44) STRUCTURE TYPE, APPROACH SPANS		(41) STRUCTURE OPEN/POSTED/CLOSED	A
A) KIND OF MATERIAL/DESIGN:	0 - Other	APPRAISAL	
B) TYPE OF DESIGN/CONSTR:	00 - Other	(67) STRUCTURAL EVALUATION	6
(45) NUMBER OF SPANS IN MAIN	1 (46) NUMBER OF APPROACH	(68) DECK GEOMETRY	5
(107) DECK STRUCTURE TYPE	1 (108A) WEARING SURFACE	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(108B) DECK MEMBRANE	0 (108C) DECK PROTECTION	(71) WATERWAY ADEQUACY	7
	0	(72) APPROACH ROADWAY ALIGNMENT	8
AGE OF SERVICE		(36) TRAFFIC SAFETY FEATURE	
(27) YEAR BUILT	2011 (106) YEAR RECONSTRUCTED	36A) BRIDGE RAILINGS:	0
(42) TYPE OF SERVICE	ON 1 UNDER 5	36B) TRANSITIONS:	0
(28) LANES	ON 02 UNDER 00	36C) APPROACH GUARDRAIL:	0
(29) AVERAGE DAILY TRAFFIC	100 (19) BYPASS DETOUR LENGTH	36D) APPROACH GUARDRAIL ENDS:	0
(30) YEAR OF AVERAGE DAILY TRAFFIC	2011	(113) SCOUR CRITICAL BRIDGES	5
(109) AVERAGE DAILY TRUCK TRAFFIC	1	SUFFICIENCY RATING	96.0 STATUS 0
GEOMETRIC DATA		CLASSIFICATION	
(48) LENGTH OF MAX SPAN (ft.)	25 (49) STRUCTURE LENGTH (ft.)	(112) NBIS BRIDGE LENGTH	Y
(50) CURB/SIDEWALK WIDTHS (ft.)	LEFT 0 RIGHT 0	(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	22.0	(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	09
(52) DECK WIDTH, OUT-TO-OUT (ft.)	22.4	(100) STRAHNET HIGHWAY DESIGNATION	0
(32) APPROACH ROADWAY WIDTH (ft.)	21.0	(101) PARALLEL STRUCTURE DESIGNATION	N
(33) BRIDGE MEDIAN	0 (34) SKEW (DEG.)	(102) DIRECTION OF TRAFFIC	2
(35) STRUCTURE FLARED	0 (10) INV RTE, MIN VERT CLEAR (ft.)	(103) TEMP STRUCTURE	
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	22.3	(105) FEDERAL LANDS HIGHWAYS	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	99	(110) DESIGNATED NATIONAL NETWORK	0
(54) VERTICAL UNDER CLEARANCE (ft.)	N 0	(20) TOLL	3
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)	N 99.9	(21) MAINTENANCE RESPONSIBILITY	04
(56) MIN LATERAL UNDER CLEARANCE (ft.)	0	(37) HISTORICAL	4
PROPOSED IMPROVEMENTS		NAVIGATION DATA	
(75A) TYPE OF WORK PROPOSED	(75B) WORK DONE BY	(38) NAVIGATION CONTROL	0
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)		(111) PIER OR ABUTMENT PROTECTION	5
(94) BRIDGE IMPROVEMENT COST (\$)		(39) NAV VERT CLEARANCE (ft.)	0
(95) ROADWAY IMPROVEMENT COST (\$)		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
(96) TOTAL PROJECT COST			
(97) YEAR OF IMPROVEMENT COST ESTIMATE			

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(114) FUTURE ADT 110

(115) YEAR OF FUTURE ADT 2031

(40) NAV HORIZONTAL CLEARANCE (ft.) 0

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Element Inspection

- No items available

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Pictures

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Sketches

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Bridge Inspection Report

Maintenance Needs

Date Reported: 08/06/2015

Priority: D - Routine

Work Code:

Deficiency Description:

Substructure - The abutment breastwalls have concrete deterioration in the bearing areas. The most notable areas are the left and right sides of breastwalls. The left side of abutment #1 breastwall has concrete deterioration that has created minor loss of bearing area under beam #1.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Forward Local

Stage: Forward Local



PHOTO 1 Description Bent #1 girder #1 - soft deteriorating concrete in bearing area.

PHOTO 2 Description Abutment #1, Left side-Concrete deterioration.

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Date Reported: 08/07/2017

Priority: D - Routine

Work Code:

Deficiency Description:

Substructure - The concrete collar on the left side of abutment #2 has voids that penetrate up to approximately 12" under the collar at the Southwest wing wall. The concrete collar on the right side of abutment #1 has undermining that penetrates up to approximately 3' at the Southeast wing wall.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open

Stage: Open



PHOTO 1 Description Abutment #1, Right side-Undermining. Photo #1.

PHOTO 2 Description Abutment #1, Right side-Undermining. Photo #2.

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Maintenance Needs

Date Reported: 08/07/2017

Priority: D - Routine

Work Code:

Deficiency Description:

Superstructure - The superstructure paint system is failing with areas of flaking paint and rust forming in numerous areas. The undersurface of the bottom flange of beam #3 has active corrosion with flaking rust adjacent to abutment #2.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Failing paint system..

Stage: Open



PHOTO 2 Description Abutment #2, beam #3-Corrosion with flaking rust to bottom flange.