

Inspection Type: Special



BRIDGE NO.04211

23890 - EASTON
SOUTH PARK AVENUE
over
MILL RIVER

Special Inspection

04/15/2015

Inspected by: Team 7



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Form: BRI-19, Rev. 2/15
Inspection type: Special
Inspection Date: 04/15/2015
Inspected by: Team 7

Bridge No: 04211

Town: EASTON
Carried: SOUTH PARK AVENUE
Crossed: MILL RIVER
Inventory Route: Non-NHS

STRUCTURE INVENTORY & APPRAISAL

INSPECTION

Structurally Deficient Functionally Obsolete
Sufficiency Rating
(90) Inspection Date (91) Frequency
Indepth Insp Proposed next Indepth Year
Deck Survey Date Class
Access Flagman

	Frequency	Date	Type
Fracture	<input type="text"/>	<input type="text"/>	<input type="text"/>
Underwater	<input type="text"/>	<input type="text"/>	<input type="text"/>
Special	<input type="text" value="12"/>	<input type="text" value="04/15/2015"/>	<input type="text" value="Z Other"/>

IDENTIFICATION

Bridge Name
Town Code - Name
(5) Inventory Route
(A) Record Type
(B) Signing Prefix
(C) Level of Service
(D) Route Number.
(E) Dir Suffix
(6A) Featured Intersected
(6B) Critical Facility Indicator
(7) Facility Carried
(9) Location
(11) Mile Post Miles
(16) Latitude Deg. Min. Sec.
(17) Longitude Deg. Min. Sec.
(98) Border Bridge
(A) State Code (B) Percent Responsibility %
(C) Border Town Name
(99) Border Bridge Structure No.

STRUCTURE TYPE & MATERIALS

(43) Structure Type, Main
A) Material
B) Design Type
(44) Structure Type, Approach
A) Material
B) Design Type
(45) Number of Spans, Main Unit
(46) Number of Approach Spans
(107) Deck Structure Type
(108) Wearing Surface/Protection Systems
A) Type of Wearing Surface
B) Type of Membrane
C) Type of Deck Protection
Substructure
A) Material
B) Design Type
Paint
Type
Year
Comment

GEOMETRIC DATA

(48) Length of Maximum Span ft.
(49) Structure Length ft.
(50) Curb or Sidewalk Widths
A) Left ft. in. B) Right ft. in.
(51) Bridge Roadway Width Curb to Curb ft. in.
(52) Deck Width, Out to Out ft. in.
(32) Approach Roadway Width ft.

Form: Location

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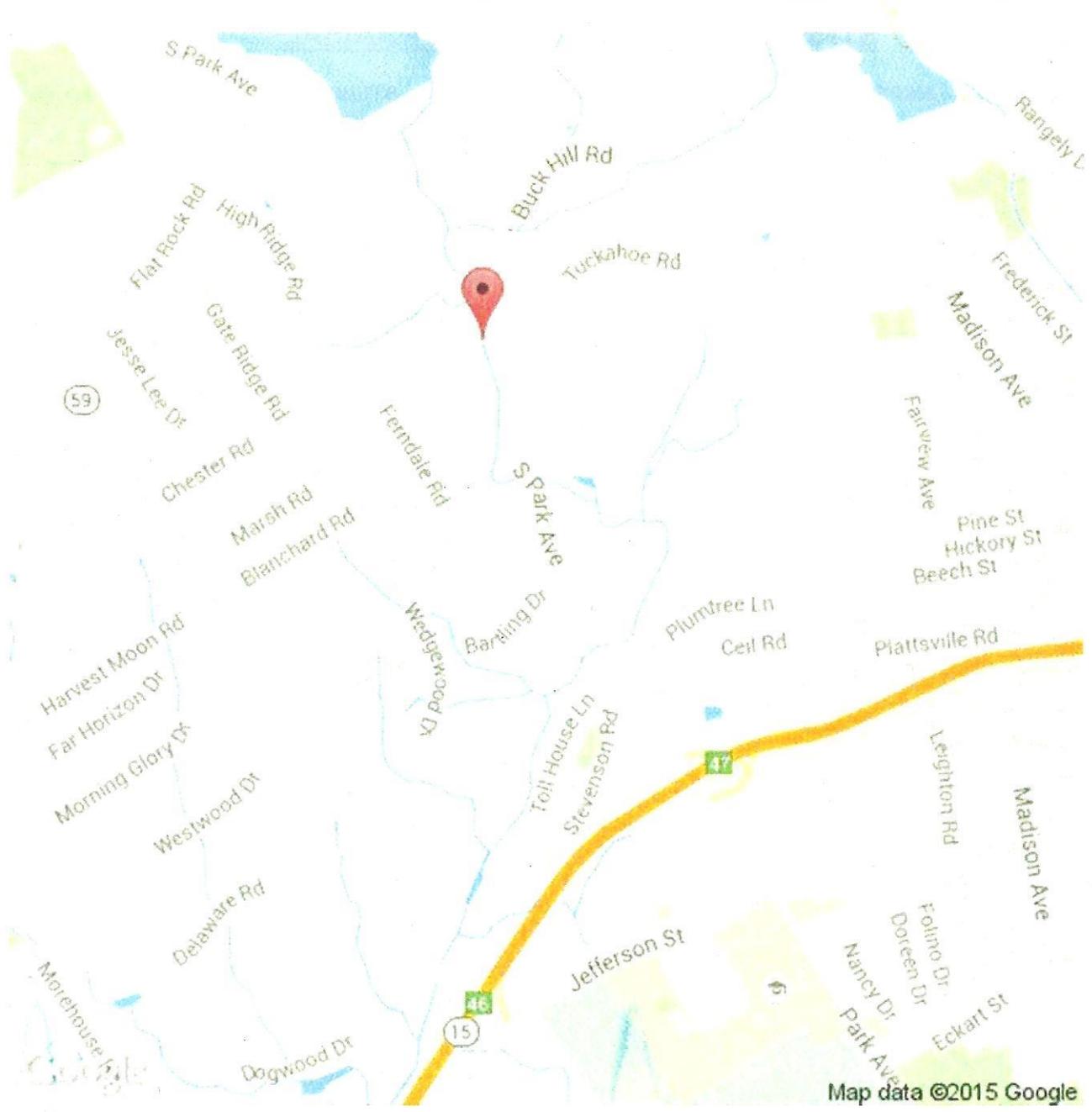
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Location Map # 1

South Park Avenue over Mill River, Easton.

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(33) Bridge Median

Deck Area sq. ft.

(34) Skew Angle deg.

(35) Structure Flared

(10) Inv. Rte. Min. Vert. Clearance ft. in.

(47) Inv. Rte. Total Horiz. Clr. ft. in.

Log Inv. Rte. Total Horiz. Clr. ft. in.

RLog Inv. Rte. Total Horiz. Clr. ft. in.

(53) Min. Vert. Clearance Over Bridge ft. in.

(54) Log-Min. Vert. Underclearance ref. ft. in.

(55) Min. Lat Underclearance on Right ref. ft. in.

(56) Min. Lat Underclearance on Left ft. in.

CONDITION

(58) Deck

(59) Superstructure

(60) Substructure

(61) Channel & Channel Protections

(62) Culverts

(36) Traffic Safety Features

A) Bridge Railings

B) Transitions

C) Approach Guardrail

D) Approach Guardrail Ends

WATERWAY

Drainage Basin Waterway

(38) Navigation Control

(39) Navigation Vertical Clearance ft.

(40) Navigation Horiz. Clr. ft.

(111) Pier/Abutment Navigation

(116) Vert-Lift Brg Nav Min ft. in.

AGE AND SERVICE

Year Built (106) Year Reconstructed

(42) Type of Service

A) On

B) Under

(28) Number of Lanes

A) On B) Under

(29) Average Daily Traffic

Is Above Half ADT?

(109) Percent Truck %

(30) Years of ADT

(19) Bypass, Detour Length Miles

APPRAISALS

(67) Structural Evaluation

(68) Deck Geometry

(69) Underclearances, Vert. & Horiz.

(71) Waterway Adequacy

(72) Approach Roadway Alignment

(113) Scour Critical

COMMENTS

CLASSIFICATION

(112) NBIS Bridge Length

(104) Highway System

(26) Functional Class

(100) Defense Highway

(101) Parallel Structure

(102) Direction of Traffic

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(103) Temporary Structure

(110) Designated National Network

(20) Toll

(21) Maintain

(22) Owner

Report Class

(37) Historical Significance

POSTED SIGNS

Other Posted Sign 1

Other Posted Sign 2

	Actual	Recommended	
Posted Load Single Unit Truck	<input type="text"/>	<input type="text"/>	tons
Posted Load Semi-Trailer Truck	<input type="text"/>	<input type="text"/>	tons
Posted Load 4 Axle Truck	<input type="text"/>	<input type="text"/>	tons
Posted Load 3S2 Truck	<input type="text"/>	<input type="text"/>	tons
All Vehicles	<input type="text"/>	<input type="text"/>	tons
Posted Vert. Clearance on Bridge	<input type="text"/> ft.	<input type="text"/> in.	
Posted Vert. Underclearance	<input type="text"/> ft.	<input type="text"/> in.	
Posted Speed Limit on Bridge	<input type="text" value="25"/> m.p.h.		

OTHER FEATURES

Fence Required

Fence Present

Fence Height

Fence Material

Fence Top Type

Barrel Ladders

Stand Pipes

Catwalks

Moveable Inspection System

Haunches Present over Roadway

Utilities

PROPOSED IMPROVEMENTS

(75A) Type of Work Proposed

(75B) Work Done By

(76) Length of Structure Improvement ft.

(94) Bridge Improvement Cost \$

(95) Roadway Improvement Cost \$

(96) Total Project Cost \$

(97) Year of Improvement Estimate

(114) Future ADT

(115) Year of Future ADT

DOT Bridge Program List No

Project No

Advertised Date

LOAD RATING & POSTING

(31) Design Load

(63) Operating Rating Type

(64) Operating Rating

(65) Inventory Rating Type

(66) Inventory Rating

Evaluation Code

Year of Evaluation

(70) Bridge Posting

(41) Structure Status

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INSPECTOR'S SIGNATURES:

1) _____ Date: 05/19/2015

Patrick A. Shannon

P.E. SIGNATURE: _____ Date: _____

2) _____ Date: 05/19/2015

John Clary

P.E. # _____

3) _____ Date: _____

Reviewed By: *Mary Mwynee* Date: 10/27/2015

4) _____ Date: _____

Form: BRI-20, Rev. 1/14
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SPECIAL INSPECTION

<u>Inspectors:</u>		<u>Visits:</u>			
Inspector:	Task:	Visit Date:	Temp:	Start Time:	End Time:
Chavez, John	BSE - Inspector	04/15/201	58	01:30 PM	02:10 PM
Sharron, Patrick	BSE - Inspector				

Special Inspection Type: Z Other

Inspection Description: East abutment deterioration,

Feature Inspected: Check for deterioration of the concrete surrounding pedestal #5 at the east abutment for deterioration and undermining.

Inspection Results: The south end of the east abutment (#2) shows approximately 32 square feet of severe scale with exposed rebars up to 8 inches deep.
 The severe scale extends up around pedestal #5 and the south cheekwall.

Pedestal #5 is undermined approximately 2 inches of the southwest end. (front right corner).

See attached sketch and photos.

Action To Be Taken: Continue to monitor.

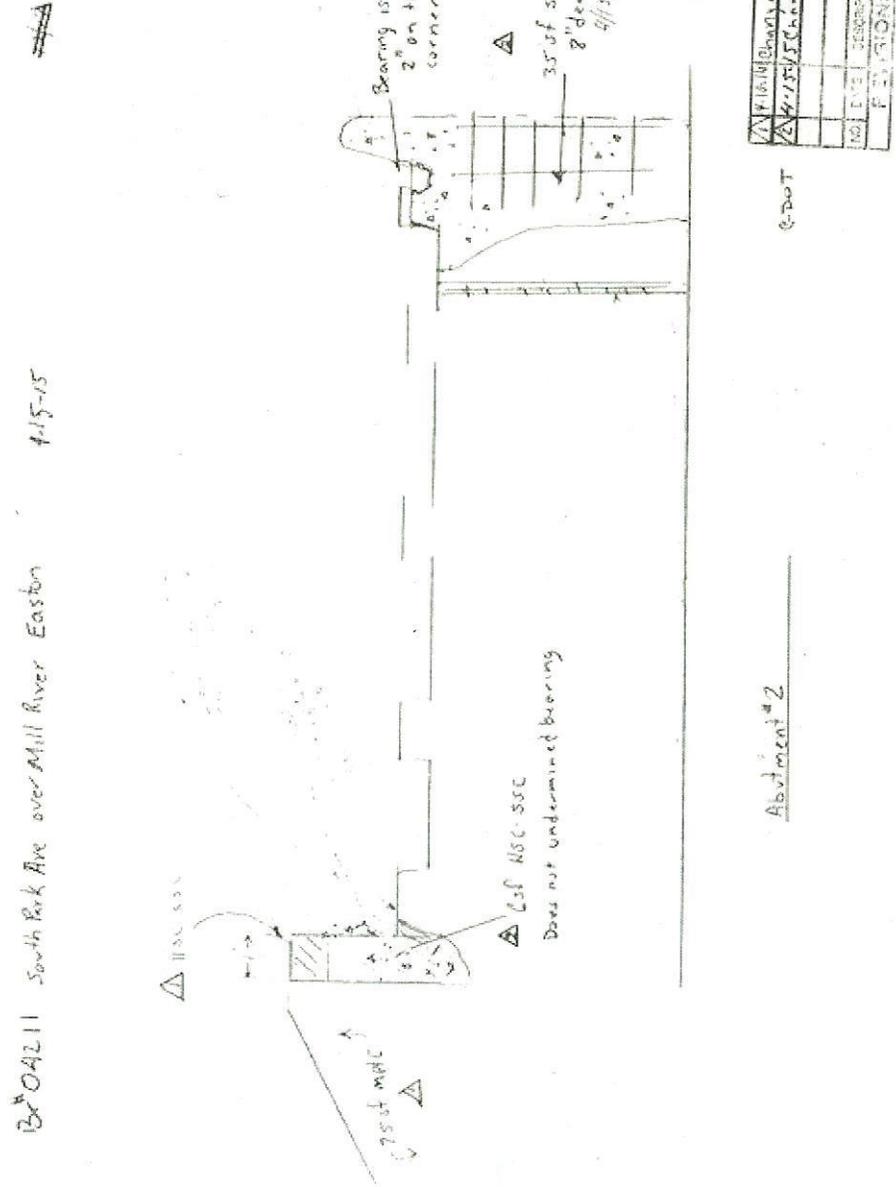
Recommend temporary repairs until the structure replacement is initiated.

Sketches

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Elevation drawing of the east abutment.

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Photo Number: 1

Looking west.

Photo Taken: 04/15/2015



Photo Number: 2

North east end.

Photo Taken: 04/15/2015

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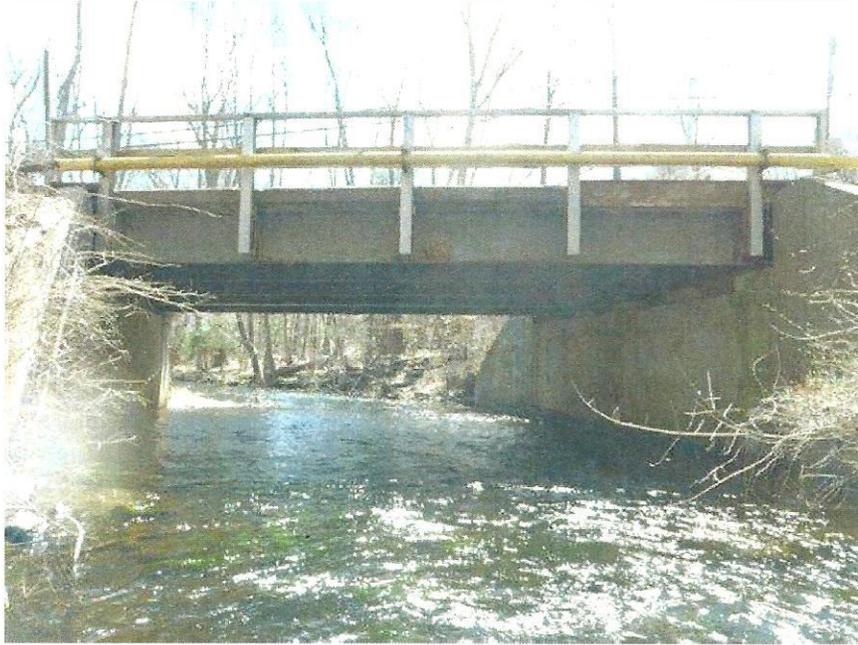


Photo Number: 3

North elevation. Inlet.

Photo Taken: 04/15/2015



Photo Number: 4

South bridge rail.

Photo Taken: 04/15/2015

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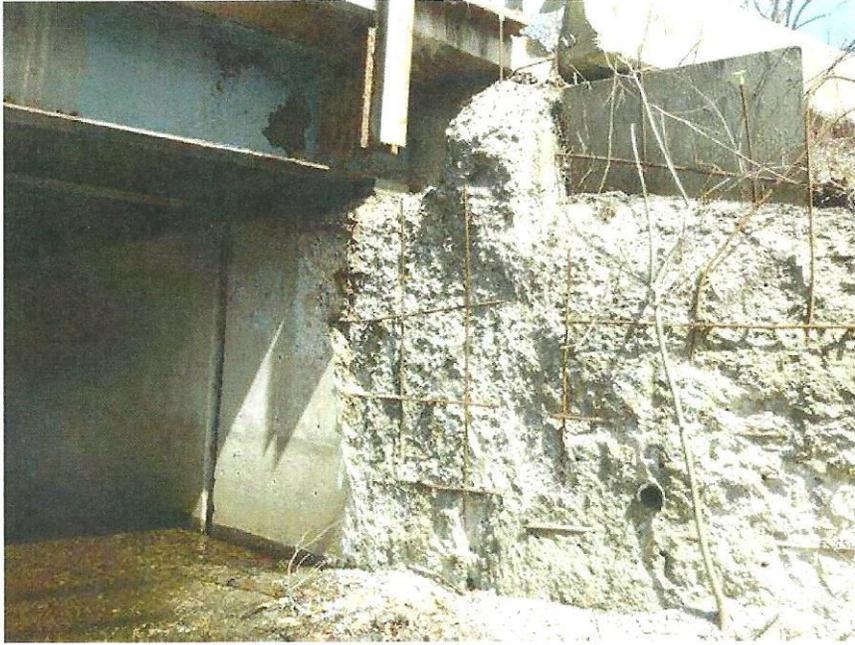


Photo Number: 5

Southeast end.

Photo Taken: 04/15/2015