Highway Bridge Inspection Report

SOUADABSCOOK CENTER NB 95 NB over SOUADABSCOOK STREAM



Inspection Date: 05/07/2015

Inspected By: Jamie Hannum

Inspection Type(s): Routine

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Highway Bridge Inspection Report

Location Map

National Bridge Inventory

Bridge Name: SOUADABSCOOK CENTER NB Status: 1 - SD Sufficiency Rating: 78.8

Inspections

(90) INSPECTION DATE & (91) DESIGNATED INSPECTION FREQUENCY 24 05/07/2015

(92) CRITICAL FEATURE INSPECTION & (93) CFI DATE

(92A) FRACTURE CRITICAL DETAIL

(92B) UNDERWATER INSPECTION 60 10/26/2011

(92C) OTHER SPECIAL INSPECTION

Identification

1 - MAINLINE

1 - NORTH

95

(1) STATE CODE 231 - Maine (8) STRUCTURE NUMBER 5950

(5) INVENTORY ROUTE

(5A) RECORD TYPE 1: Route carried "on" the structure (5B) ROUTE SIGNING PREFIX 3 - STATE HIGHWAY

(5C) DESIGNATED LEVEL OF SERVICE

(5) INVENTORY ROUTE (5) INVENTORY ROUTE

(2) HIGHWAY AGENCY DISTRICT 04 - Eastern (3) COUNTY CODE 019 Penobscot (4) PLACE CODE 30795

(6) FEATURES INTERSECTED SOUADABSCOOK STREAM

(7) FACILITY CARRIED 95 NB

(9) LOCATION 2.5 MI E TL/ 95 MI 177.1

(11) MILEPOINT 175.560

(12) BASE HIGHWAY NETWORK Inventory Route is on the Base Network

(13) LRS INVENTORY ROUTE, SUBROUTE (13A) LRS INVENTORY ROUTE

000000095X (13B) SUBROUTE NUMBER 00 44.762569444 4444 (16) LATITUDE

(17) LONGITUDE 68.909333333 3333

(98A) BORDER BRIDGE CODE

(98B) PERCENT RESPONSIBILITY 0 (99) BORDER BRIDGE STRUCT NO. n/a

Structure Type and Material

(43) STRUCTURE TYPE, MAIN

(43A) KIND OF MATERIAL/DESIGN 4 - Steel continuous

(43B) TYPE OF DESIGN/CONSTR 02 - Stringer/Multi-beam or Girder

(44) STRUCTURE TYPE, APPROACH SPANS (44A) KIND OF MATERIAL/DESIGN

(44B) TYPE OF DESIGN/CONSTRUCTION

(45) NUMBER OF SPANS IN MAIN UNIT 3 (46) NUMBER OF APPROACH SPANS 0

(107) DECK STRUCTURE TYPE 1 - Concrete Cast-in-Place

(108) WEARING SURFACE/PROTECTIVE SYSTEMS

(108A) WEARING SURFACE 1 - Monolithic Concrete (concurrently placed with structural deck)

(108B) DECK MEMBRANE 0 - None (108C) DECK PROTECTION 0 - None

Age of Service

(27) YEAR BUILT 1961 (106) YEAR RECONSTRUCTED 0

(42) TYPE OF SERVICE

(42A) TYPE OF SERVICE ON BRIDGE 1 - Highway (42B) TYPE OF SERVICE UNDER BRIDGE 5 - Waterway

(28) LANES

(28A) LANES ON THE STRUCTURE 02 (28B) LANES UNDER THE STRUCTURE 00 (29) AVERAGE DAILY TRAFFIC 12090 (30) YEAR OF AVERAGE DAILY TRAFFIC 2014 (109) AVERAGE DAILY TRUCK TRAFFIC 11 (19) BYPASS DETOUR LENGTH 4

	Geometric Data
(48) LENGTH OF MAXIMUM SPAN (ft.)	50
(49) STRUCTURE LENGTH (ft.)	135
(50) CURB/SIDEWALK WIDTHS	
(50A) LEFT CURB SIDEWALK (ft.)	0.2
(50B) RIGHT CURB SIDEWALK (ft.)	0.2
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)	40
(52) DECK WIDTH, OUT-TO-OUT (ft.)	42.4
(32) APPROACH ROADWAY WIDTH (ft.)	43.0
(33) BRIDGE MEDIAN	0 - No median
(34) SKEW (deg.)	0
(35) STRUCTURE FLARED	0 - No flare
(10) INV RTE, MIN VERT CLEARANCE (ft.)	328.05
(47) TOTAL HORIZONTAL CLEARANCE (ft.)	40
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)	327.76
(54) MIN VERTICAL UNDERCLEARANCE	
(54A) REFERENCE FEATURE	N - Feature not a highway or railroad
(54B) MIN VERTICAL UNDERCLEARENCE (ft.)	0
(55) MIN LATERAL UNDER CLEARANCE RIGHT	•
(55A) REFERENCE FEATURE	N - Feature not a highway or railroad
(55B) MIN LATERAL UNDER CLEARANCE RIGHT (ft.)	327.76
(56) MIN LATERAL UNDER CLEARANCE (ft.)	
(30) WIIN LATERAL UNDER CLEARANCE (II.)	99.9
	Classification
(112) NBIS BRIDGE LENGTH	Yes
(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	1 - Structure/Route is on NHS
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	01 - Rural - Principal Arterial - Interstate
(100) STRAHNET HIGHWAY DESIGNATION	Is on an Interstate STRAHNET route
(101) PARALLEL STRUCTURE DESIGNATION	R - Right structure (North or East)
(102) DIRECTION OF TRAFFIC	1-way traffic
(103) TEMP STRUCTURE	
(105) FEDERAL LANDS HIGHWAYS	Not Applicable
(110) DESIGNATED NATIONAL NETWORK	Inventory route on National Truck Network
(20) TOLL	3 - On Free Road
(21) MAINTENANCE RESPONSIBILITY	01 - State Highway Agency
(22) OWNER	01 - State Highway Agency
(37) HISTORICAL SIGNIFICANCE	4 - Not determinable
	Condition
(EO) DECK	
(58) DECK	4 - Poor Condition (advanced deterioration)
(59) SUPERSTRUCTURE	6 - Satisfactory Condition (minor deterioration)
(60) SUBSTRUCTURE	6 - Satisfactory Condition (minor deterioration)
(61) CHANNEL & CHANNEL PROTECTION	7 - Bank protection needs minor repairs
(62) CULVERT	N - Not Applicable
1,	
	oad Rating and Posting
(31) DESIGN LOAD	oad Rating and Posting 6 - HS 20+Mod
(31) DESIGN LOAD	6 - HS 20+Mod
(31) DESIGN LOAD (63) METHOD USED TO DETERMINE OPERATING RATING	6 - HS 20+Mod 3 - Load and Resistance Factor
(31) DESIGN LOAD (63) METHOD USED TO DETERMINE OPERATING RATING (64) OPERATING RATING	6 - HS 20+Mod 3 - Load and Resistance Factor 35.3
(31) DESIGN LOAD (63) METHOD USED TO DETERMINE OPERATING RATING (64) OPERATING RATING (65) METHOD USED TO DETERMINE INVENTORY RATING	6 - HS 20+Mod 3 - Load and Resistance Factor 35.3 3 - Load and Resistance Factor
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(31) DESIGN LOAD (63) METHOD USED TO DETERMINE OPERATING RATING (64) OPERATING RATING (65) METHOD USED TO DETERMINE INVENTORY RATING (66) INVENTORY RATING (70) BRIDGE POSTING	6 - HS 20+Mod 3 - Load and Resistance Factor 35.3 3 - Load and Resistance Factor 27.1 5 - Equal to or above legal A - Open
(31) DESIGN LOAD (63) METHOD USED TO DETERMINE OPERATING RATING (64) OPERATING RATING (65) METHOD USED TO DETERMINE INVENTORY RATING (66) INVENTORY RATING (70) BRIDGE POSTING	6 - HS 20+Mod 3 - Load and Resistance Factor 35.3 3 - Load and Resistance Factor 27.1 5 - Equal to or above legal
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(31) DESIGN LOAD (63) METHOD USED TO DETERMINE OPERATING RATING (64) OPERATING RATING (65) METHOD USED TO DETERMINE INVENTORY RATING (66) INVENTORY RATING (70) BRIDGE POSTING (41) STRUCTURE OPEN/POSTED/CLOSED	6 - HS 20+Mod 3 - Load and Resistance Factor 35.3 3 - Load and Resistance Factor 27.1 5 - Equal to or above legal A - Open Appraisal
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(31) DESIGN LOAD (63) METHOD USED TO DETERMINE OPERATING RATING (64) OPERATING RATING (65) METHOD USED TO DETERMINE INVENTORY RATING (66) INVENTORY RATING (70) BRIDGE POSTING (41) STRUCTURE OPEN/POSTED/CLOSED (67) STRUCTURAL EVALUATION (68) DECK GEOMETRY (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL (71) WATERWAY ADEQUACY	6 - HS 20+Mod 3 - Load and Resistance Factor 35.3 3 - Load and Resistance Factor 27.1 5 - Equal to or above legal A - Open Appraisal 6 7 N 9 - Bridge Above Flood Water Elevations
(31) DESIGN LOAD (63) METHOD USED TO DETERMINE OPERATING RATING (64) OPERATING RATING (65) METHOD USED TO DETERMINE INVENTORY RATING (66) INVENTORY RATING (70) BRIDGE POSTING (41) STRUCTURE OPEN/POSTED/CLOSED (67) STRUCTURAL EVALUATION (68) DECK GEOMETRY (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL (71) WATERWAY ADEQUACY (72) APPROACH ROADWAY ALIGNMENT	6 - HS 20+Mod 3 - Load and Resistance Factor 35.3 3 - Load and Resistance Factor 27.1 5 - Equal to or above legal A - Open Appraisal 6 7 N
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(31) DESIGN LOAD (63) METHOD USED TO DETERMINE OPERATING RATING (64) OPERATING RATING (65) METHOD USED TO DETERMINE INVENTORY RATING (66) INVENTORY RATING (70) BRIDGE POSTING (41) STRUCTURE OPEN/POSTED/CLOSED (67) STRUCTURAL EVALUATION (68) DECK GEOMETRY (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL (71) WATERWAY ADEQUACY (72) APPROACH ROADWAY ALIGNMENT (36) TRAFFIC SAFETY FEATURE 36A) BRIDGE RAILINGS:	6 - HS 20+Mod 3 - Load and Resistance Factor 35.3 3 - Load and Resistance Factor 27.1 5 - Equal to or above legal A - Open Appraisal 6 7 N 9 - Bridge Above Flood Water Elevations 8 - Equal to present desirable criteria
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Proposed Improvements

(75) TYPE OF WORK

(75A) TYPE OF WORK PROPOSED

(75B) WORK DONE BY

(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)

(94) BRIDGE IMPROVEMENT COST (SK)

(95) ROADWAY IMPROVEMENT COST (SK)

(96) TOTAL PROJECT COST

(97) YEAR OF IMPROVEMENT COST ESTIMATE

(114) FUTURE ADT 16926 (115) YEAR OF FUTURE ADT 2034

Navigation Data

(38) NAVIGATION CONTROL0 - No navigation control on waterway (bridge(111) PIER OR ABUTMENT PROTECTION0(39) NAV VERT CLEARANCE0(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE0(40) NAV HORIZONTAL CLEARANCE0

General Bridge Data

Structure Num	ber: 5950		Structure Na	ame: SO	UADABSCOOK CENTER NB
Owner:	1 State DOT		To	own:	Hampden
Co-Owner:	N Not applicable		To	own2:	
Region:	04 Eastern		Ma	aintainer:	1 State DOT
Bridge Plans:			Co	o-Maintaine	r: N Not applicable
Structure Type	•				
Main Span			Ap	pproach Sp	oan
Type:	1 Girder		Ту	/pe:	_
Sub Type:	1 Deck		Su	ub Type:	_
Construction:	1 Rolled		Co	onstruction:	_
Material:	1 Steel		Ma	aterial:	_
Continuity:	2 Continuous		Co	ontinuity:	-
Composite:	1 Non Composite		Co	omposite:	_
Moveable:	0 No		Mo	oveable:	_
Deck Area:	5724.28507560 000000	(SF)			
Curb Reveal Lt:	7.9	(in)			
Curb Reveal Rt	: 8.0	(in)			
Repairs Done:					
Year	How		;	Scope	

Substructures		
Shaft		Notes
Abutment 1		
Pier		
Pier		
Pier		
Abutment 2		
Foun	dation	Notes
Abutment 1		
Pier		
Pier		
Pier		
Abutment 2		
Roadway		
Road/Route Name	95 NB	
Abut-Abut Detour	83.952102424000000	
Corridor Priority	1	

Inspection Notes

Structure Number:	5950	Town: Hampden	
Structure Name: S	SOUADABSCOOK CENTER NB	Inspection Date:	05/07/2015
Structure Notes Three span steel painte	ed girders. Concrete deck, piers, abutments, wing	g-walls and wearing surface.	
spalling with exposed re	surface due to heavy traffic, but observed approxi e-steel at deck blocking areas and a high percent center and 1/3rd of the way from each abutment	tage of staining bottom of deck.	areas. Bottom of deck has heavy Concrete wearing surface has 3
	NBI Item 58: led concrete with exposed re-steel on bottom of j f moderate to heavy leakage. Joint haunch areas		he bottom of the deck. Seals are
	NBI Item 59: nt system distress with moderate rusting at beam or bearings under joints.	6 n end exterior bearing areas. An	chor bolts are missing. Bearings
Substructure Moderate cracking and	NBI Item 60: staining of back-wall areas. Pedestals have mod	6 lerate cracking and staining.	
Culvert	NBI Item 62:	N	

Channel	NBI Item 61:	7
Other		
Special Inspection		
Monitoring		
Pontis Notes		

Highway Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	4 - Sev.	5724	sq. ft.	0	5724		
107 - Steel Open Girder/Beam	2 - Low	810	ft.	700	110		
515 - Steel Protective Coating		810	sq. ft.	610	200		
210 - Reinforced Concrete Pier Wall	2 - Low	85	ft.	85			
215 - Reinforced Concrete Abutment	2 - Low	98	ft.	50	30	10	8
302 - Compression Joint Seal	2 - Low	85	ft.	0		40	45
311 - Movable Bearing	2 - Low	12	each	6		6	
515 - Steel Protective Coating		12	sq. ft.	0	6	6	
313 - Fixed Bearing	2 - Low	12	each	12			
515 - Steel Protective Coating		12	sq. ft.	0	6	6	
801 - Beam End	2 - Low	12	each	6	6		
843 - Rigid Wearing Surface	4 - Sev.	5400	sq. ft.	4050	1200	150	
861 - Beam End – Protective Coating	2 - Low	12	each	0	6	6	

Underwater Dive Inspection Report

Structure Number: 5950	Bridge Name:	SOUADABSCOOK CENTER NB	
Town 1: 19280 - Hampden	Town 2:		
Division: Bangor	DiveID:	5156	☐ Tidal:
Location: 2.5 MI E TL/ 95 MI 177.1			
Tide Information:			
Dive Entry Location: Upstream end			
Scour:			
Comments/Hazards:			
dive same time as SB bridge			
Streambed Description:			
Gravel and stoney. Very silty.			
Channel Description:			
Mostly Hat, even			
Substructure Description: 2 mass concrete piers. Both of the footings are exposed on the channel side plans footings are 6'-6" in height and shown to be sitting on piles. 2007: Rig exposed 0" to 17". 2011: Rigt footing exposed up to 10" max. Lft footing exposed on piles.	ht footing expose	d 0" to 10". Left footing	
Mostly flat, even Substructure Description: 2 mass concrete piers. Both of the footings are exposed on the channel side plans footings are 6'-6" in height and shown to be sitting on piles. 2007: Rig exposed 0" to 17". 2011: Rigt footing exposed up to 10" max. Lft footing exp	ht footing expose	d 0" to 10". Left footing	

Inspection Team:	Role:	Dive Conditions:
moposition rounni	110101	Divo Conditiono.

Edwards	TL,SD	Time: Entry:	2:20	AM/PM	AM
Merrithew	SD	Time: Exit:	3:00	AM/PM	AM
Wathen	D	Water Temp:	52		

D

Max Depth (ft): 9

Current: slight

Visibility (ft):

Weather: sunny

3

Underwater Inspection Date: 10262011

Channel Condition: 7

Substr/Culvert Condition: 7

Inspection Cycle: Y60

Ratings Comments:

Falla

Highway Bridge Inspection Report

Pictures



PHOTO 1

Roadway looking East



PHOTO 2

Description General view of concrete wearing surface

Highway Bridge Inspection Report

Pictures



РНОТО 3

Description West joint seal



PHOTO 4

Description Up stream end

Highway Bridge Inspection Report

Pictures



PHOTO 5

Description We

West abutment



РНОТО 6

Description Spalled haunches with exposed re-steel, West end

Highway Bridge Inspection Report

Pictures



РНОТО 7

Description Spalled joint header, typical of East and West joint



РНОТО 8

Description West side of the West pier

Highway Bridge Inspection Report

Pictures



РНОТО 9

Description Exterior bearing and beam end, West end



PHOTO 10

Description Transverse deck cracking, worst of three

Highway Bridge Inspection Report

Pictures



PHOTO 11

Description General view of patched concrete wearing surface



PHOTO 12

Description East abutment

Highway Bridge Inspection Report

Pictures



PHOTO 13

Description Spalled joint header, East end



PHOTO 14

Description East side of East pier

Highway Bridge Inspection Report

Pictures



PHOTO 15

Description Patched concrete



PHOTO 16

Description Exterior beam end

Highway Bridge Inspection Report

Pictures



PHOTO 17

Description Down stream end



PHOTO 18

Description Transverse deck cracking

Highway Bridge Inspection Report

Pictures



PHOTO 19

Description End post map cracking

Maintenance Work Items

Structure Number: 5950 Structure Name: SOUADABSCOOK CENTER

NB

Town 19280 Own Hannum, Jamie

er:

Type Work Item Priorit Notes y

MaineDOT NBIS Bridge Safety Inspection JSA

Structure Number:

Inspector: Hannum, Jamie

Inspection Date: 02/04/2016 Structure Name: SOUADABSCOOK CENTER NB Team Leader: Jamie Hannum Additional Team Members/Visitors: 1.) 2.) 3.) 4.) 5.) 6.) 7.) 8.) 9.) Job being performed: Bridge inspection Hazard: ✓ Exposure to traffic Control: ✓ Parked off road with strobe ✓ Less than 1 hour on bridge ${\color{red} \checkmark}$ Wear standard reflective clothing and hard hat □ Spotter ☐ Traffic Control Crew Hazard: ✓ Steep slopes and uneven working areas (rip rap, mud, loose fill, etc) ✓ Wear appropriate, prudent footwear ☐ Rope or fall protection ✓ Chipped Concrete or Steel (hand tools only) Control: ☐ Wear appropriate, prudent eye/hand protection Hazard: ✓ 6' Vertical drops Control: ✓ Stay away from areas

Hazard: ✓ Water Hazards
Control: ✓ Evaluate conditions. Wear appropriate, prudent PPE
Hazard: ☑ Insects, Poision Ivy, or other environmental hazards
Control: ☑ Apply insect repellant and/or sunscreen
✓ Protect skin with appropriate, prudent clothing
Hazard:
✓ Lead paint and Avian excrement Control:
✓ Wear gloves, do not scrape
Hazard:
Control:
Ask for assistance in donning dive gear, lifting equipment
Hazard: ☐ DCS, Lung Expansion
Control: Ascend slowly, user computers, Safety Stops (15' mark for 3 min.)
Hazard: Entanglement U/W
Control: Use knife, Comm gear
Hazard: Boat Traffic
Control: ☐ Fly Dive Flag, user spotter, contact bridge on Chan. 13
Hazard: Cold Water
Control: Use adequate dry suit underwear for water temperature

Hazard: Live Boating		
Control:		
	wering during drop-off/pick-up	
Other Hazards		Other Controls
Safety Equipment Required:		Emergency Action Plan:
✓ Hard hat	✓ Sunscreen	✓ Call 911
✓ Vest	✓ First Aid	✓ First Aid Kit
✓ Glasses	□ O2	☐ Fall Rescue Plan
✓ Gloves	AED	☐ Water Rescue Plan
☑ PFD	Comm Gear	☐ Dan 1-919-684-9111
Rain Gear	✓ Cell Phone	USCG 741-5465
☑ Bug Spray		
Other Safety Equipment:		Other Emergency Action Plan:
by the Maine Department		SA has been completed according to all proper procedures required