

STRUCTURE NO. 03469

INTERSTATE-395 NB
over
TRACY ROAD
KILLINGLY

Routine Inspection
on
11/9/2006

Inspected by Team 3
for Area 3

TEAM:	Forwarded to Senior	Don Carlson	Date	12/29/2006
SENIOR:	Reviewed by Senior	Dmc	Date	1/17/07
	BMM Required			No
	Town Bridge			No
	Rating <= 5 (Items 58,59,60 or 62)			YES
	Forwarded to Supervisor	JCK	Date	2/8/07
	Forwarded to "To Be Copied Drawer"	<input checked="" type="checkbox"/>	Date	Jan 9 2008
	Date BRI-19 Entered	2/7/07		
SUPERVISOR:	Reviewed by Supervisor	<i>[Signature]</i>	Date	Feb 22 2007
SUPPORT:	Date Copies Made	2-7-08	BMM No	TROMS

NBI: Yes

Bridge Number **03469**

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BRIDGE SAFETY & EVALUATION
STRUCTURE EVALUATION

SHEET 1 OF 2 FORM BRI-19 REV 10/00

Inspected By: D Willis & M. Long

Sufficiency Rating **94.77** *65.17*
Previous Inspection Date **12/2/2004**

BS&E Received Data Entry By: DMC
Copies Made Data Entry Date: 2/7/07

SHEET 1 OF (INSP. REPORT)

90) Inspection Date 11/09/06	Inspection Team 303	91) Frequency Class: 24 02
Indepth Insp 11/13/2000	Deck Survey 12/12/1990	Access Flagman 21 0 0

CRITICAL FEATURE INSPECTIONS			
Type	Frequency	Team	Date
Fracture:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Uwater:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Special:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

RED FLAG

IDENTIFICATION

Bridge Name
Town Name **KILLINGLY** Town Code **40500**

5) Inventory Route:
A) Record Type **1**
B) Signing Prefix **1** Interstate High
C) Level of Service **1** Mainline
D) Route Number **00395**
E) Directional Suffix **1** North

6) Feature Intersected **TRACY ROAD**

7) Facility Carried: **INTERSTATE-395 NB**

9) Location **5.8 MI NORTH OF US RTE 6**

11) Milepoint **43.32** Miles
16) Latitude **41 deg 52 min 18.00 sec**
17) Longitude **71 deg 53 min 30.00 sec**

98) Border Bridge:
A) State Code B) Percent Responsibility %
C) Border Town Name

99) Border Bridge Structure No

STRUCTURE TYPE AND MATERIAL

43) Structure Type, Main:
A) Material **5** Prestressed concret B) Design Type **2** Stringer/Multi-beam or

44) Structure Type, Approach:
A) Material **0** Other B) Design Type **0** Other

45) Number of Spans, Main Unit **3**
46) Number of Approach Spans **0**

107) Deck Structure Type **1** Concrete Cast-in-Place

108) Wearing Surface/Protective System:
A) Type of Wearing Surface **6** Bituminous
B) Type of Membrane **2** Preformed Fabric
C) Type of Deck Protection **0** None

AGE AND SERVICE

27) Year Built **1968** 106) Year Reconstructed **1993**

42) Type of Service:
A) On **1** Highway B) Under **1** HIGHWAY

28) Number of Lanes:
A) On **3** B) Under **2**

29) Average Daily Traffic **16050** Half ADT?: **yes No**
109) Percent Truck **10 %**
30) Year of ADT **2003**

19) Bypass, Detour Length **1** miles

GEOMETRIC DATA

48) Length of Max Span **74** ft
49) Structure Length **166** ft

50) Curb or Sidewalk Widths:
A) Left **0.0** ft B) Right **0.0** ft

51) Brg Rdwy width, curb-curb **48.0** ft
52) Deck Width, Out-Out **53.4** ft
32) Approach Roadway Width **48** ft

33) Bridge Median
Deck Area **8864** sqft

34) Skew Angle **44** deg
35) Structure Flared **0**

10) Inv. Rte. Min. Vert Clearance **99** ft **99** in
47) Log Inv. Rte. Total Horiz Clr.: **48.0** ft
47) RLog Inv. Rte. Total Horiz. Clr.: **ft**

53) Min Vert Clearance Over Bridge **99** ft **99** in
54) Min Vert Under Clearance **H** Ref **14** ft **9** in
55) Min Lat Under Clearance on Right **H** Ref **9.6** ft
56) Min Lat Under Clearance on Left **0.0** ft

BRIDGE COMMENTS

CLASSIFICATION

112) NBIS Bridge Length	Yes	
104) Highway System	1 On System	
26) Functional Class	1 Rural Principal Arterial - Interstate	
100) Defense Highway	1 Defense Highway	
101) Parallel Structure	R Right structure of parallel bridges	
102) Direction of Traffic	1 1-way traffic	
103) Temporary Structure		
110) Designated National Network	1 On national network	
20) Toll	3 On Free Road	
21) Maintain	1 State Highway Agency	
22) Owner	1 State Highway Agency	
Report Class	S STATE	
37) Historical Significance	5 Bridge is not eligible for National Register	

WATERWAY

DrainageBasinCode				
38) Navigation Control				
39) Navigation Vert Clr.				
116) Vert-Lift Brg Nav Min				
111) Pier Abutment Protection				
40) Navigation Horiz Clr.				

PROPOSED IMPROVEMENTS

75A) Type of Work Proposed				
75B) Work Done By				
76) Length of Struct. Improvement				ft
94) Bridge Improvement Cost	\$			
95) Roadway Improvement Cost	\$			
96) Total Project Cost	\$			
97) Year of Improvement Cost Est.				
114) Future ADT				
115) Year Future ADT				
List No. <u>21</u>	Project No.	Advised		

POSTED SIGNS & UTILITIES

Other Posted Signs 1	0			
Other Posted Signs 2	0			
Actual P.L. Single Unit Truck	tons		Actual P.L. 4Axle Truck	tons
Rec. P.L. Single Unit Truck	tons		Rec. P.L. 4Axle Truck	tons
Actual P.L. Semi-Trailer Truck	tons		Actual P.L. 3S2 Truck	tons
Rec. P.L. Semi-Trailer Truck	tons		Rec. P.L. 3S2 Truck	tons
Rec. P.L. All Vehicles	tons		Actual P.L. All Vehicles	tons
Posted Vert Clearance On Bridge	ft			in
Posted Vert Under Clearance	ft			in
Posted Speed Limit	mph			mph
Utility				
Utility	3	Electric		

STRUCTURE EVALUATION

SHEET 2 OF 2 FORM BRI-19 REV 10/00

SHEET 2 OF (INSP. REPORT)

Bridge Number	03469	NBIS Length	
Town Name	KILLINGLY	Yes	166
Facility Carried	INTERSTATE-395 NB		
Feature Crossed	TRACY ROAD		

Inspected By: D. Willis & M. Long

LOAD RATING AND POSTING

31) Design Load	5		Evaluation Code	L
63) Operating Rating Type	1		Year of Evaluation	1999
64) Operating Rating	66.0		70) Bridge Posting	5
65) Inventory Rating Type	1		41) Structure Status	A
66) Inventory Rating	39.0		Open, no restriction	

CONDITION

	Rating	By
58) Deck	6	G DW
59) Superstructure	7	4 DW
60) Substructure	7	7 DW
61) Channel & Chan. Protection	N	N DW
62) Culverts	N	N DW

APPRAISALS

	Rating	By
67) Structure Evaluation	6	3 DW
68) Deck Geometry	4	4 DW
69) Under Clear Vert & Horiz	6	6 DW
71) Waterway Adequacy	N	N DW
72) Approach Rdwy Alignment	8	8 DW
113) Scour Critical		

Items 58 Thru 72 Checked By:

36) Traffic Safety Features:	
A) Bridge Railings	1 0
B) Transitions	1 0
C) Approach Guardrail	1 0
D) Approach Guardrail End	1 1

OTHER FEATURES

Fence Required	No		Barrel Ladder	No	
Fence Present	No		Stand Pipes	No	
Fence Height	0-0 ft		Cat Walks	No	
Fence Type			Movable Inspection System	No	
Fence Material			Loose Concrete Checked?	Yes	Y
Fence Top Type					

INSPECTION COMMENTS

Proposed Next Indepth Insp Year	2010
Senior Supervisor	carlsondm kozlowskijc

REVIEWED BY: D. Carlson Date 1/17/07

Connecticut Department of Transportation

Bridge Inspection Report BRI-18

BRIDGE #: 03469

INSPECTION DATE: 11/9/2006

INSPECTION TYPE: Routine **PREVIOUS INSPECTION DATE:** 12/2/2004 **SNOOPER REQUIRED:** No
INSPECTION PERFORMED BY: Team 3 **SNOOPER USED:** No

TOWN: KILLINGLY **FEATURE CARRIED:** INTERSTATE-395 NB **YEAR BUILT:** 1968
LOCATION: 5.8 MI NORTH OF US RTE 6 **FEATURE INTERSECTED:** TRACY ROAD **YEAR REBUILT:** 1993
MAIN MATERIAL: Prestressed concrete **MAIN DESIGN:** Stringer/Multi-beam or Girde

INSPECTION VISITS: **INSPECTORS:**
Inspection Date: 11/9/2006 **Start Time:** 10:35 AM **Inspector:** D. Willis **Task:** Inspection
Temperature: 55 ° F **End Time:** 12:30 PM **Inspector:** M. Long **Task:** Inspection

58. DECK **OVERALL RATING** 6

	RATING	
OVERLAY	6	BITUMINOUS CONCRETE WITH MEMBRANE. LONGITUDINAL AND TRANSVERSE CRACKS AND RAVELING.
DECK STR. CONDITION	6	UNDERSIDE OF DECK HAS RANDOM HAIRLINE CRACKS WITH SOME EFFLORESCENCE
CURBS	7	SLOPED CONCRETE CURBS WITH VERTICAL HAIRLINE CRACKS WITH SOME EFFLORESCENCE.
MEDIAN	N	
SIDEWALKS	N	
PARAPET	7	RANDOM VERTICAL HAIRLINE CRACKS.
RAILING	7	STANDARD TWO PIPE RAILING - RUST HOLES AT RANDOM END CAPS.
PAINT	N	
FENCE	N	
DRAINS	7	PVC WEEP DRAINS. ONE PIPE BROKEN IN SPAN # 1.
LIGHTING STANDARD	N	
UTILITIES TYPE/SIZE	8	ELECTRIC WIRE ATTACHED TO THE BOTTOM OF FLANGE OF BEAMS IN SPAN # 2 AT PIER # 2.
CONSTRUCTION JOINTS	N	
EXPANSION JOINTS	5	AREAS OF ADDHESION AND COHESION FAILURE AT OVER ABUTMENTS AND PIERS. TOTAL OF 45 FT OPEN TO 1/4IN. SPALL AT PIER # 2 1 SQ FT. TOTAL X 1 IN. DEEP.

59. SUPERSTRUCTURE **OVERALL RATING** 4
Beams have been given a 4 rating due to the condition of beam # 3 at span #3 at pier 2.

BEARING DEVICES	RATING 7	ELASTOMERIC PADS HAVE GAPS UP TO 1/8" BETWEEN BERAINGS AND BOTTOM FLANGES. RANDOM PADS HAVE UP TO 1/4" TRANSVERSE ALIGNMENT. DIAGONAL HAIRLINE
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**Connecticut Department of Transportation
Bridge Inspection Report BRI-18**

BRIDGE #: 03469

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59. SUPERSTRUCTURE

Beams have been given a 4 rating due to the condition of beam # 3 at span #3 at pier 2.

OVERALL RATING 4

CRACK AT BEAM # 4 PIER # 1 SPAN # 2 . BEARING PADS HAVE SPALLS AND POTENTIAL SPALL AT PIERS WITH EXPOSED REBAR.

STRINGERS 4

PRESTRESSED CONCRETE I-BEAMS, RANDOM HAIRLINE CRACKS AND RANDOM SPALLS AND POTENTIAL SPALLS AT BEAM ENDS.

STRANDS EXPOSED AT BEAM # 2 AT ABUTMENT # 2, WEST SIDE 11 IN. X 9 IN X 4 IN DEEP, AND BEAM # 3 AT SPAN # 3 AT PIER # 2 WEST SIDE. 12 IN X 4 IN. X 7 IN. DEEP.

RANDOM END DIAPHRAGMS HAVE SPALLS AND POTENTIAL SPALLS WITH EXPOSED REBAR.

WORST CONDITION IS AT BEAM # 3 AT SPAN # 3 PIER # 2 WITH EXPOSED STRANDS.

SEE SKETCH FOR LOCATION AND AMOUNTS AND PHOTOS.

GIRDERS n

FLOOR BEAMS n

TRUSSES-GENERAL N

TRUSSES-PORTALS N

TRUSSES-BRACING N

PAINT N

RUST 4

HEAVY RUST AND LAMINATED RUST ON STRANDS. SEE STRINGERS. SIGNS OF HEAVY LEAKAGE AT PIERS.

MACHINERY MOV SPAN N

RIVETS & BOLTS N

WELDS & CRACKS N

TIMBER DECAY N

CONCRETE CRACKING 4

SEE STRINGERS.

COLLISION DAMAGE N

MEMBER ALIGNMENT 8

DEFLECT. UNDER LOAD N

VIBR. UNDER LOAD N

STAND PIPES N

BARREL LADDERS N

ARE BARREL LADDERS OSHA COMPLIANT?

60. SUBSTRUCTURE

OVERALL RATING 7

RATING
ABUTMENTS-STEM 7

ABUTMENTS HAVE VERTICAL AND HORIZONTAL CRACKS.

RANDOM SMALL HOLLOW AREAS AND SMALL SHALLOW POPOUTS.

SMALL AREAS OF SCALE.

Connecticut Department of Transportation Bridge Inspection Report BRI-18

BRIDGE #: 03469

INSPECTION DATE: 11/9/2006

60. SUBSTRUCTURE **OVERALL RATING** 7

ABUTMENTS-BACKWALL	7	SMALL AREA OF MAP CRACKING AT THE SOUTH BACKWALL. RANDOM VERTICAL CRACKS WITH EFFLORESCENCE AT THE NORTH ABUTMENT BACKWALL.
ABUTMENTS-FOOTINGS	N	
ABUT.-SETTLEMENT	8	
ABUTMENTS-WINGWALLS	7	NORTHEAST WING HAS ONE SMALL MAP CRACKED AREA. PARAPETS ABOVE WINGWALLS HAVE VERTICAL HAIRLINE CRACKS WITH EFFLORESCNCE.
PIERS/BENTS-CAPS	7	RANDOM CRACKS WITH EFFLORESCENCE AND RUST STAINS. HOLLOW AREAS UP TO 2 FT X 2 FT.ON FACES AND UNDERSIDES. SPALL AREA AT PIER # 2 U-SIDE OF CAP AT THE EAST. 16 IN. X 13 IN. X 2 IN. DEEP.
PIERS/BENTS-PILE BENT	N	
PIERS/BENTS-COLUMN	7	VERTICAL CRACKS OPEN 1/32 IN. HOLLOW AREAS UP TO 8 FT. X 1 FT. RANDOM MAP CRACKING.
PIERS/BENTS-FOOTINGS	N	
PIERS/BENTS-SETTLEMENT	8	
EROSION-SCOUR	8	
CONCRETE CRACK-SPALL	7	SEE ABOVE ITEMS.
STEEL CORROSION	N	
PAIN	N	
TIMBER DECAY	N	
COLLISION DAMAGE	N	
DEBRIS	8	

61. CHANNEL PROTECTION **OVERALL RATING** N

62. CULVERTS & RETAINING WALL **OVERALL RATING** N

APPROACH CONDITION **OVERALL RATING** 7

	<small>RATING</small>	
APPROACH SLAB	N	
RELIEF JOINTS	N	
APPROACH GUIDE RAIL	7	M.B.R. AT ALL CORNERS. MINOR DAMAGE AT THE NORTHEAST.
APPROACH PAVEMENT	7	TRANSVERSE AND LONGITUDINAL CRACKS OPEN 1/2 IN. SOME SEALED

**Connecticut Department of Transportation
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BRIDGE #: 03469

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APPROACH CONDITION **OVERALL RATING** 7

APPROACH EMBANKMENT 8

TRAFFIC SAFETY FEATURES:

BRIDGE RAILINGS 0

TRANSITIONS 0

APPROACH GUARDRAILS 0

APPR. GUARDRAIL ENDS 1

LOAD POSTING

SINGLE UNIT (TONS)

HS (TONS)

4 AXLE (TONS)

3S2 (TONS)

ADVANCE WARNING Y/N

LEGIBILITY

VISIBILITY/LOCATION

MISC.

MIN VERT. UNDERCLR. 14 ' 9 "

POSTED CLR. UNDER BRIDGE ' "

POSTED CLR. ON BRIDGE ' "

ADVANCE WARNING (Y/N) No

SPEED LIMIT (IF ANY) MPH

CHARACTER OF TRAFFIC MODERATE , MIXED. TRAFFIC RUNS SOUTH TO NORTH.

ADDITIONAL NOTES

** Prestressed Concrete I-Beams (Beamends) - Continue to monitor.*
Dmc

ADDITIONAL COMMENTS:

Inspectors' Signatures: 1) *Don Wilkin*

Date: *11/9/2006*

2) *A* *A*

Date: *11/9/2006*

3) _____

Date: / /

4) _____

Date: / /

P.E. Signature: _____

Date: / /

P.E.#: _____

Reviewed by: *D. Carlson* CDOT

Date: *11/7/07*

Connecticut Department of Transportation
Bridge Inspection Report BRI-18

BRIDGE #: 03469

INSPECTION DATE: 11/9/2006

DATE PREPARED
11/9/06
DATE CHECKED

PREPARED BY TEAM 3
DW + ML
CHECKED BY

State of Connecticut
Department of Transportation
Bureau of Engineering & Highway Operations
DES-003 REV 1-93
(302-06-0225)
COMPUTATION SHEET

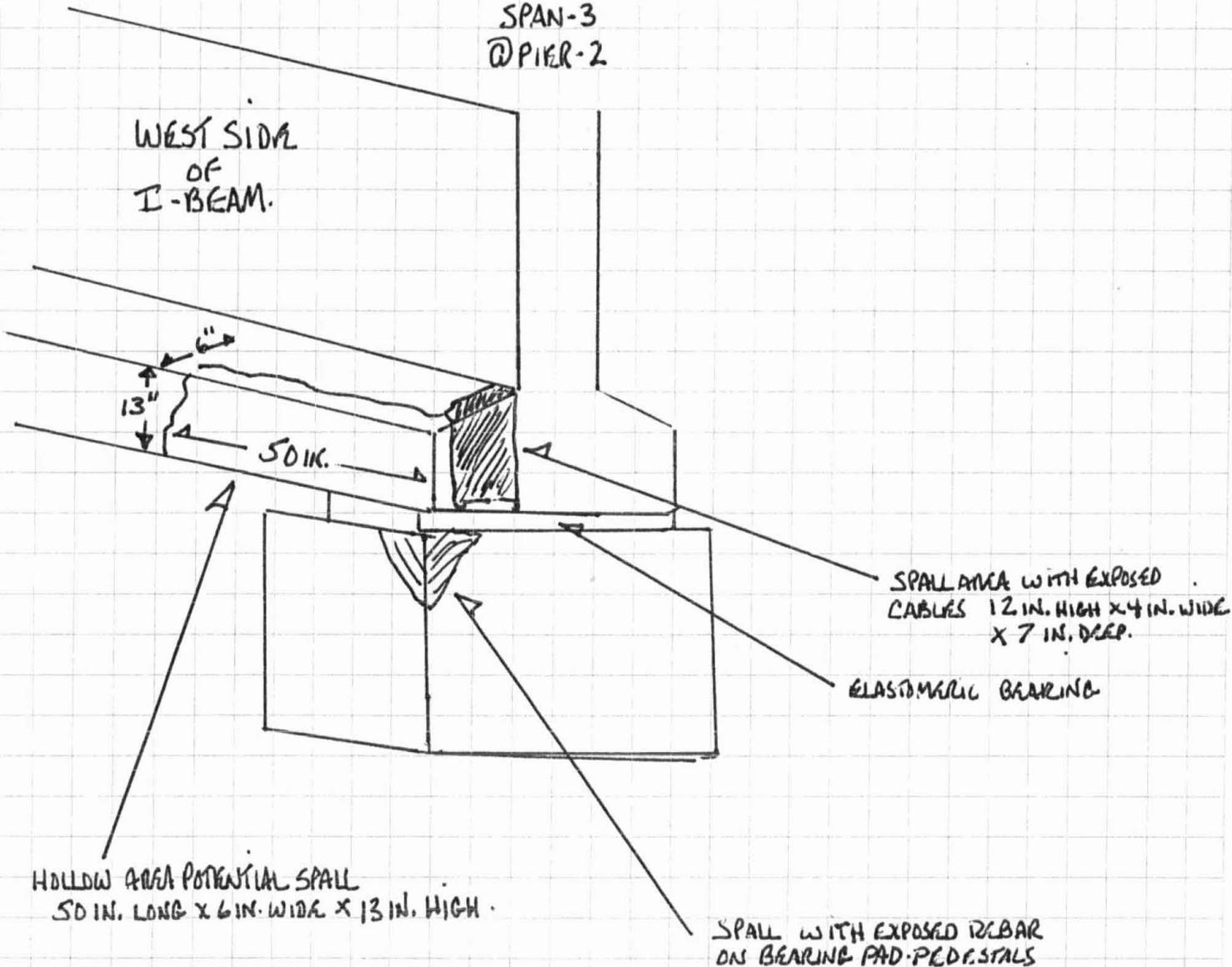
ORGANIZATION UNIT NO. 1307
WORK ORDER NO.
SHEET NO.

SUBJECT:

BR# 03469 KILLINGLY 395 NB - O - TRALY RD.
END VIEW

* PRESTRESSED I-BEAM

BM-3
SPAN-3
@ PIER-2



(WTS)

DATE PREPARED
11/09/06
DATE CHECKED

PREPARED BY
TKAM 3
CHECKED BY

State of Connecticut
Department of Transportation
Bureau of Engineering & Highway Operations
DES-003 REV 1-93
(302-06-0225)
COMPUTATION SHEET

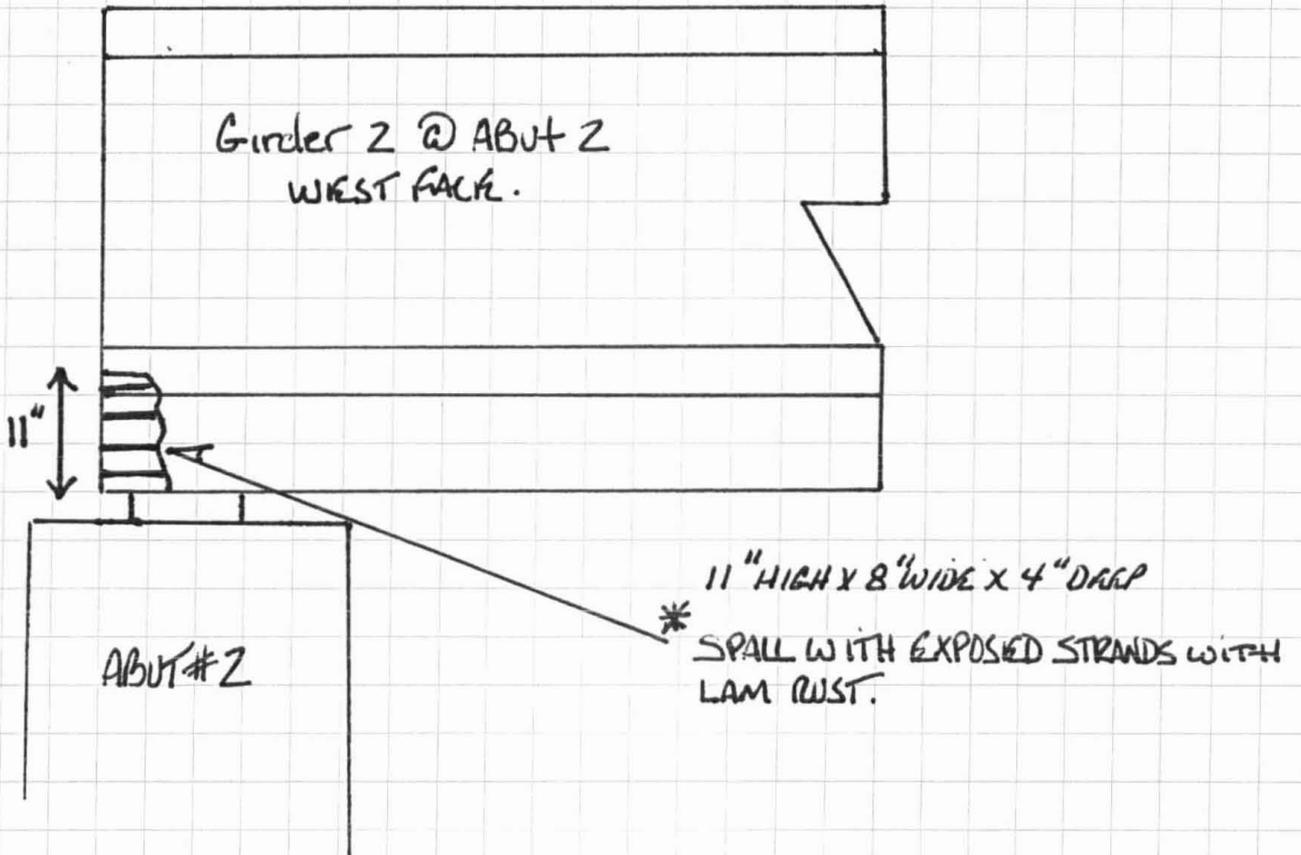
ORGANIZATION UNIT NO. 1307
WORK ORDER NO.
SHEET NO.

SUBJECT:

BR# 03469 KILLINGLY 395 NB - O-TRACY RD.

ELEVATION VIEW

NOTE: SPALL WITH EXPOSED STRANDS.



WTS

Baker

SUPPLEMENTAL SHEET

FIELD ORIGINAL

TRANSCRIBED BY: MJD

JOB NO. 170-1965

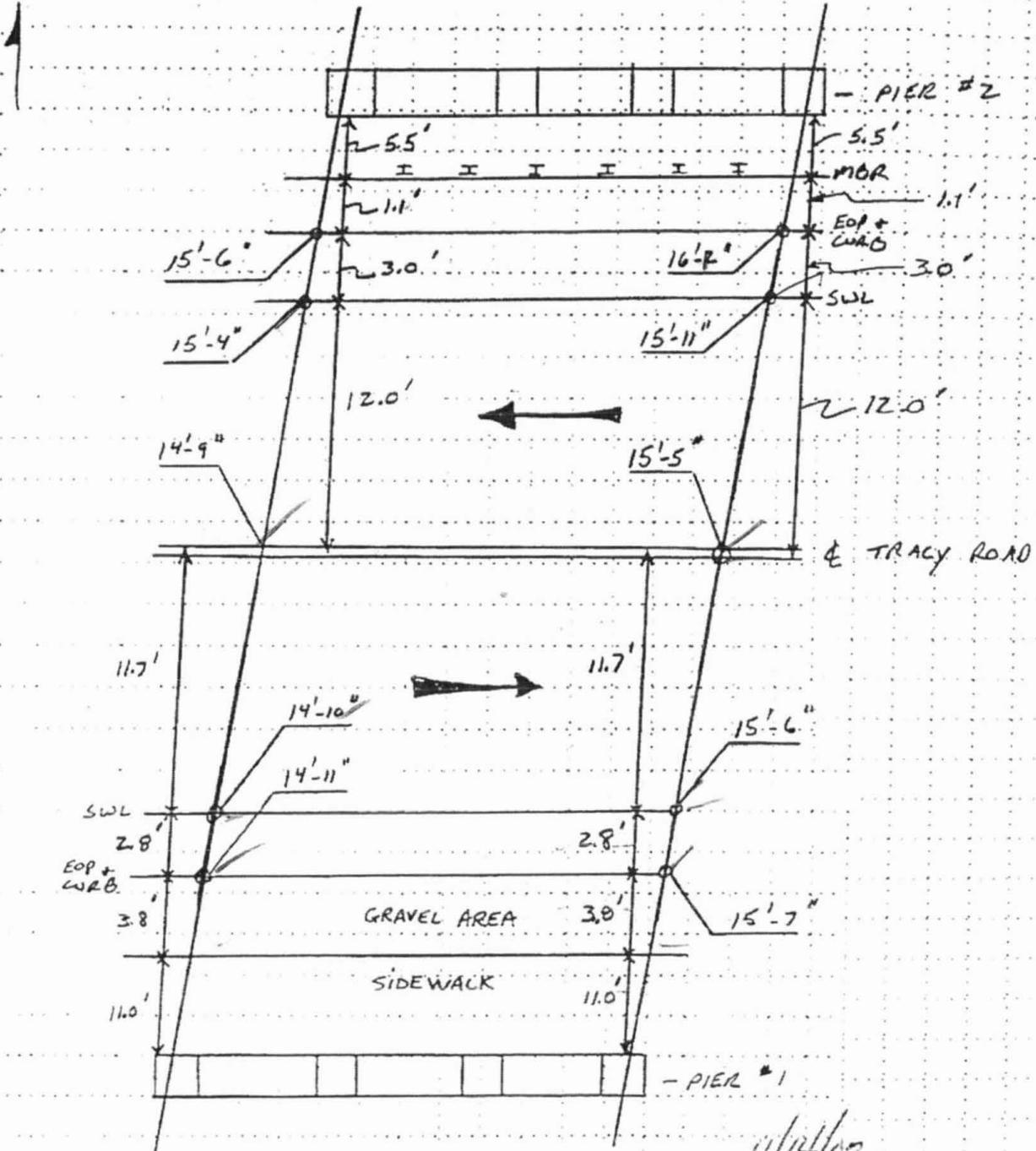
BRIDGE NO. 3469

DATE: 11/13/00

SHEET 10 OF 34

DESCRIPTION:

CREW: AR, GM



CLEARANCE DIAGRAM

11/14/02
NC AREA 3

12/2/04 AREA 3 NC

11/9/06 TEAM 2

Bridge No: 3469 Date: 12/18/00 Prepared By: MJD

CONCRETE DETERIORATION WORKSHEET

		Deterioration By Span - In Square Feet									
		Span Number									
Deterioration Type	X	1	2	3							Total
Spalled and Delaminated Areas	Top										0
	Bot.	0.5									0.5
Scale (Moderate to Severe Only)	Top										0
	Bot.										0
Cracks:with Efflorescence (Use 6" width x length)	Bot.										0
Cracks w/o Efflo.(Use 3" width x Length)	Top										0
	Bot.										0
Map Cracking: w/Efflorescence (Use full Area)	Bot.	74	23	469							566
Map Cracking w/o Efflo.(Use 50% of Area)	Top										0
	Bot.										0
Honeycombed Areas (only areas more than 1 1/2" deep)	Bot.										0
Span Area		2220	4150	2500							8870
% Spalled and Delaminated on top		0.0%	0.0%	0.0%							X
% Deterioration on Bottom		3.4%	0.6%	18.8%							X

Overall weighted average = 6.4% deterioration.

11/14/02

NC DMG

11/9/06 NC PKM 3

12/2/04 #3
Team NC DMG

Bridge No.	03469	Inspected by:	DON WILLIS
Town:	KILLINGLY	Inspected by:	MIKE LONG
Feature Carried:	I-395 NB	Date Inspected:	11/9/06
Feature Crossed:	TRACY RD.	Project No.:	



Photo # 1 – GENERAL VIEW LOOKING NORTH.

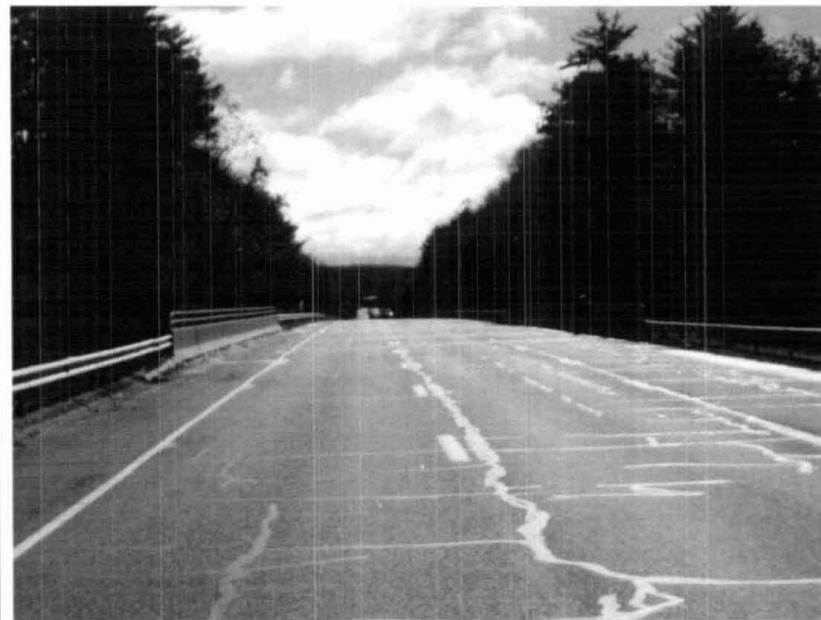
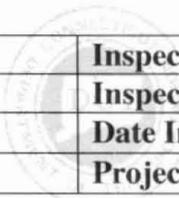


Photo #2 – GENERAL VIEW LOOKING SOUTH.



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Photo #3 – GENERAL CONDITION OF OVERLAY.



Photo #4 – TYPICAL ASPHALTIC PLUG JOINT.

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Photo #5 – JOINT OVER PIER #2, AREA OF RAVELING AND DEPRESSION IN CENTERLANE.



Photo #6 – GENERAL CONDITION OF PIERS.

Bridge No.	03469	Inspected by:	DON WILLIS
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Feature Carried:	I-395 NB	Date Inspected:	11/9/06
Feature Crossed:	TRACY RD.	Project No.:	



Photo #7 – GENERAL CONDITION OF ABUTMENTS.

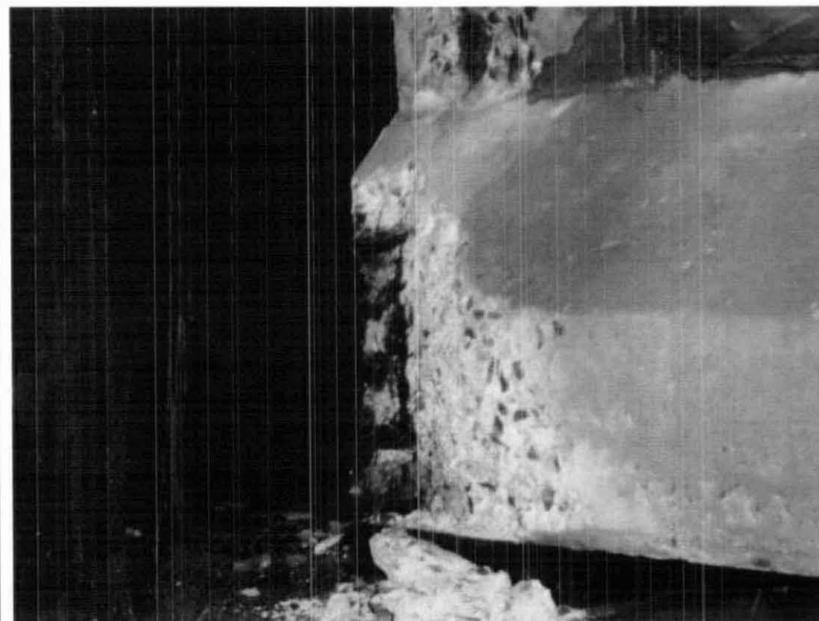


Photo #8 – BEAM #2 WEST FACE OVER ABUTMENT #2, LARGE SURFACE SPALL IN BOTTOM FLANGE WITH EXPOSED PRESTRESSING STRANDS.

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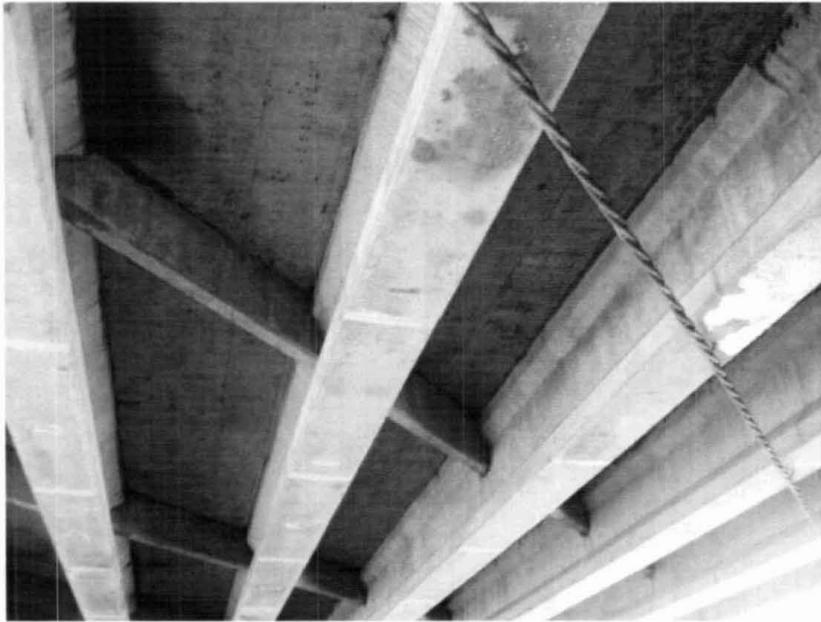


Photo #9 – GENERAL CONDITION OF UNDERSIDE.



Photo #10 – BAY #1 SPAN #2 OVER PIER #1, LARGE SURFACE SPALL WITH EXPOSED REBAR IN DIAPHRAGM (OLD CONCRETE PATCH).

Bridge No.	03469	Inspected by:	DON WILLIS
Town:	KILLINGLY	Inspected by:	MIKE LONG
Feature Carried:	I-395 NB	Date Inspected:	11/9/06
Feature Crossed:	TRACY RD.	Project No.:	



Photo #11 – SPAN #2 BEAM #7 OVER PIER #1, VERTICAL CRACK WITH RUST STAINS OPEN 1/32 IN.

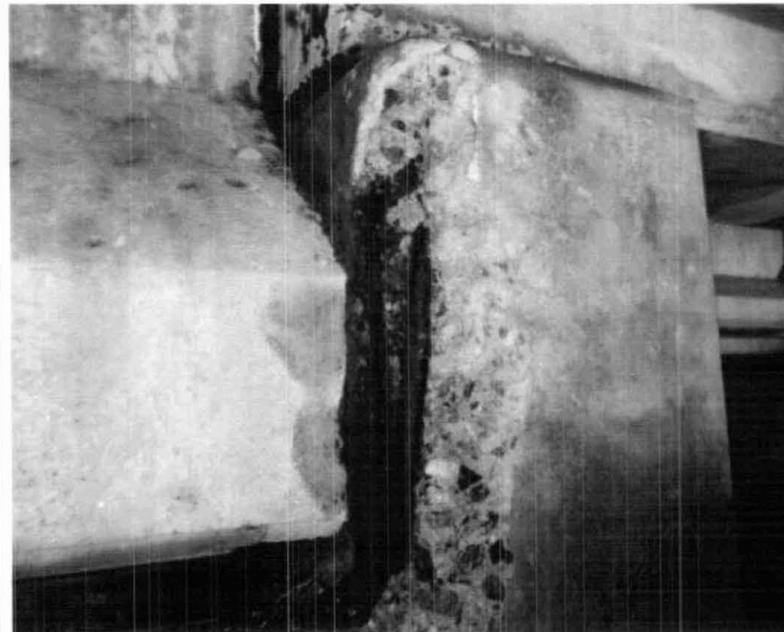


Photo #12 – PIER #2 CONCRETE PEDESTAL #6 (SPAN #3), SOUTHEAST CORNER. LARGE SURFACE SPALL WITH EXPOSED REBAR.

Bridge No.	03469	Inspected by:	DON WILLIS
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Feature Carried:	I-395 NB	Date Inspected:	11/9/06
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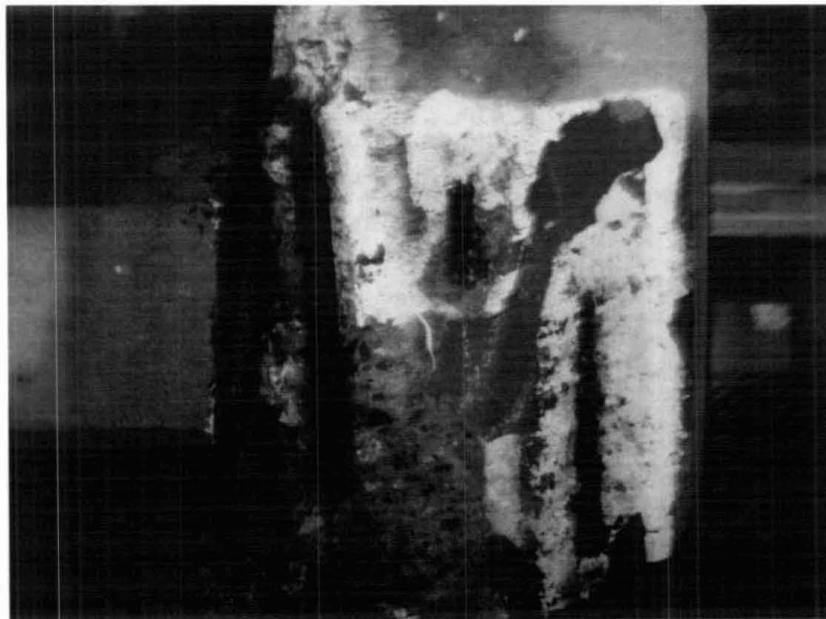


Photo #13 – PIER #2 CONCRETE PEDESTAL #5 (SPAN #3). SOUTHEAST CORNER, LARGE SURFACE SPALL WITH EXPOSED REBAR (TYPICAL CONDITION).



Photo #14 – SPAN #3 BEAM END #3 OVER PIER #2 (WEST BOTTOM FLANGE), LARGE SURFACE SPALL WITH EXPOSED PRESTRESSING STRANDS AND HOLLOW CONCRETE WITH POTENTIAL SPALL. 50 IN. LONG TOTAL X 6 IN. WIDE X 7 IN. DEEP. AREA EXTENDS OVER THE WEST SIDE OF BEARING.

Bridge No.	03469	Inspected by:	DON WILLIS
Town:	KILLINGLY	Inspected by:	MIKE LONG
Feature Carried:	I-395 NB	Date Inspected:	11/9/06
Feature Crossed:	TRACY RD.	Project No.:	



Photo #15 – TYPICAL OF PHOTO #14.

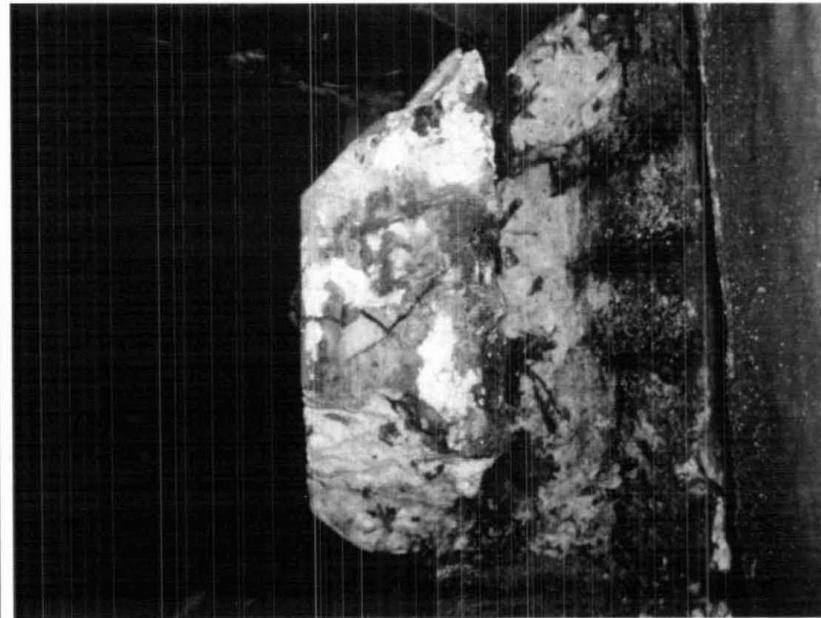


Photo #16 - TYPICAL OF PHOTO #14.

Bridge No.	03469	Inspected by:	DON WILLIS
Town:	KILLINGLY	Inspected by:	MIKE LONG
Feature Carried:	I-395 NB	Date Inspected:	11/9/06
Feature Crossed:	TRACY RD.	Project No.:	



Photo #17 - TYPICAL OF PHOTO #14.

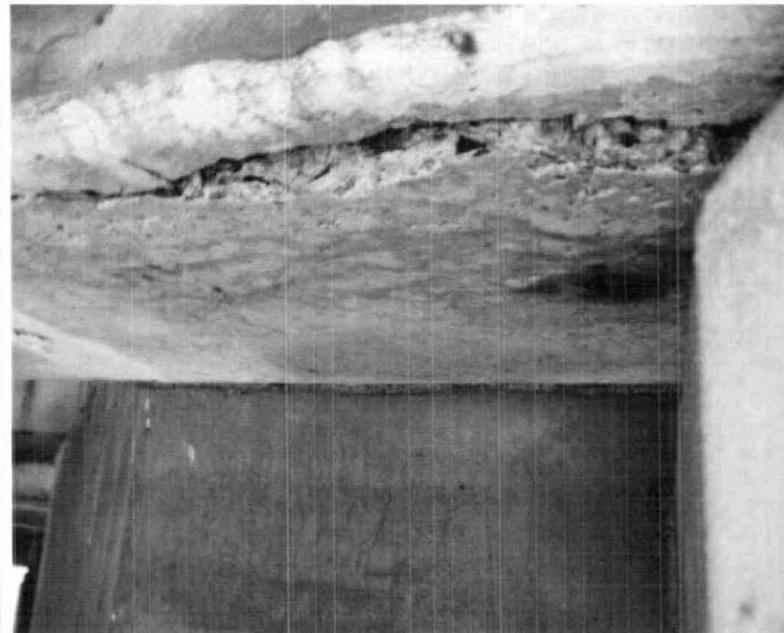
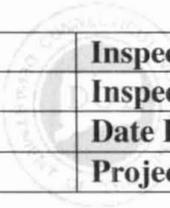


Photo #18 - TYPICAL OF PHOTO #14 SHOWING THE UNDERSIDE OF BEAM #3.



Bridge No.	03469	Inspected by:	DON WILLIS
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Photo #19 – SPAN #3 BEAM END #2 OVER PIER #2 (EAST BOTTOM FLANGE), LARGE SURFACE SPALL WITH EXPOSED PRESTRESSING STRANDS AND HOLLOW CONCRETE.



Photo #20 – TYPICAL OF PHOTO #19.

Structure Inventory and Appraisal Sheet (English Units)

Bridge Key: 03469 Agency ID: 03469 Sufficiency Rating: 0

IDENTIFICATION

State 1: 09 Connecticut Struc Num 8: 03469
 Facility Carried 7: INTERSTATE-395 NB Location 9: 5.8 MI NORTH OF US RTE 6
 Rte.(On/Under)5A: Route On Structure Rte. Signing Prefix 5B: 1 Interstate Hwy
 Level of Service 5C: 1 Mainline Rte. Number 5D: 00395
 Directional Suffix 5E: 1 North % Responsibility : 0
 SHD District 2: 02 County Code 3: Windham
 Place Code 4: KILLINGLY Mile Post 11: 43.311 mi
 Feature Intersected 6: TRACY ROAD
 Latitude 16: 41d 52' 18" Longitude 17: 071d 53' 30"
 Border Bridge Code 9B: Unknown (P)
 Border Bridge Number 99: NA

INSPECTION

Frequency 91: 24 months Inspection Date 90: 11/9/2006 Next Inspection: 01/02/2009
 FC Frequency 92A: NA FC Inspection Date 93A: NA Next FC Inspection: NA
 UW Frequency 92B: NA UW Inspection Date 93B: NA Next UW Inspection: NA
 SI Frequency 92C: NA SI Date 93C: NA Next SI: NA
 Element Frequency: 24 months Element Inspection Date: 11/09/2006 Next Elem. Insp. Due: 01/02/2009

CLASSIFICATION

Defense Highway 100: 1 STRAHNET hwy Parallel Structure 101: Right of || bridge
 Direction of Traffic 102: 1 1-way traffic Temporary Structure 103: Unknown (NBI)
 Highway System 104: 1 On the NHS NBIS Length 112: Long Enough
 Toll Facility 20: 3 On free road Functional Class 26: 01 Rural Interstate
 Historical Significance 37: 5 Not eligible for NRHP
 Owner 22: 1 State Highway Agency
 Custodian 21: 1 State Highway Agency

STRUCTURE TYPE AND MATERIALS

Number of Approach Spans 46: 0 Number of Spans Main Unit 45: 3
 Main Span Material/Design 43A/B:
 5 Prestressed Concrete 02 Stringer/Girder
 Deck Type 107: 1 Concrete-Cast-in-Place
 Wearing Surface 108A: 6 Bituminous
 Membrane 108B: 2 Prefomed Fabric
 Deck Protection 108C: None

CONDITION

Deck 58: 6 Satisfactory Super 59: 4 Poor Sub 60: 7 Good
 Culvert 62: N NA (NBI) Channel/Channel Protection 61: N NA (NBI)

LOAD RATING AND POSTING

Inventory Rating Method 65: 1 LF Load Factor Operating Rating Method 63: 1 LF Load Factor
 Inventory Rating 66: HS21.5 Operating Rating 64: HS36.4
 Design Load 31: 5 MS 18 (HS 20) Posting 70: 5 A/Above Legal Loads
 Posting status 41: A Open, no restriction

AGE AND SERVICE

Year Built 27: 1968 Year Reconstructed 106: 1993
 Type of Service on 42A: 1 Highway
 Type of Service under 42B: 1 Highway
 Lanes on 28A: 3 Lanes Under 28B: 0 Detour Length 19: 1.2 mi
 ADT 29: 15,050 Truck ADT 109: 10 % Year of ADT 30: 1998

APPRAISAL

Bridge Rail 36A: 1 Meets Standards Approach Rail 36C: 1 Meets Standards
 Transition 36B: 1 Meets Standards Approach Rail Ends 36D: 1 Meets Standards
 Str. Evaluation 67: 7 Deck Geometry 68: 4 Tolerable
 Underclearance, Vertical and Horizontal 69: 6 Equal Minimum
 Waterway Adequacy 71: N Not applicable Approach Alignment 72: 8 Equal Desirable Crit
 Scour Critical 113: N Not Over Waterway

GEOMETRIC DATA

Length Max Span 48: 74.1 ft Structure Length 49: 166.0 ft
 Curb/Sdwk Width L 50A: 0.0 ft Curb/Sidewalk Width R 50B: 0.0 ft
 Width Curb to Curb 51: 47.9 ft Width Out to Out 52: 53.5 ft
 Approach Roadway Width 32: 47.9 ft Median 33: 0 No median (w/ shoulders)
 Deck Area: 7,965.3 sq. ft
 Skew 34: 44.00 ° Structure Flared 35: 0 No flare
 Minimum Vertical Clearance Over Bridge 53: 328.1 ft
 Minimum Vertical Underclearance Reference 54A: H Hwy beneath struct
 Minimum Vertical Underclearance 54B: 14.8 ft
 Minimum Lateral Underclearance Reference R 55A: H Hwy beneath struct
 Minimum Lateral Underclearance R 55: 9.5 ft
 Minimum Lateral Underclearance L 56: 0.0 ft

PROPOSED IMPROVEMENTS

Bridge Cost 94: \$ 1,000 Type of Work 75: 38 Other Structural
 Roadway Cost 95: \$ 1,000 Length of Improvement 76: 0.3 ft
 Total Cost 96: \$ 2,000 Future ADT 114: 7,525
 Year of Cost Estimate 97: 2000 Year of Future ADT 115: 2019

NAVIGATION DATA

Navigation Control 38: N NA-no waterway
 Vertical Clearance 39: 0.0 ft Horizontal Clearance 40: 0.0 ft
 Pier Protection 111: Unknown (NBI) Lift Bridge Vertical Clearance 116:

ELEMENT CONDITION STATE DATA

Str Unit	Elm/Env	Description	Units	Total Qty	% in 1	Qty. St. 1	% in 2	Qty. St. 2	% in 3	Qty. St. 3	% in 4	Qty. St. 4	% in 5	Qty. St. 5
UNIT0	14/3	P Conc Deck/AC Overlay	(SF)	8,859	100 %	8,859	0 %	0	0 %	0	0 %	0	0 %	0
UNIT0	109/3	P/S Conc Open Girder	(LF)	1,119	89 %	993	11 %	118	0 %	3	0 %	4	0 %	0
UNIT0	205/3	R/Conc Column	(EA)	8	63 %	5	25 %	2	13 %	1	0 %	0	0 %	0
UNIT0	215/3	R/Conc Abutment	(LF)	151	93 %	141	7 %	10	0 %	0	0 %	0	0 %	0
UNIT0	234/3	R/Conc Cap	(LF)	144	91 %	131	9 %	13	0 %	0	0 %	0	0 %	0
UNIT0	301/3	Pourable Joint Seal	(LF)	0	97 %	0	3 %	0	0 %	0	0 %	0	0 %	0
UNIT0	305/3	Asphaltic Plug Joint	(LF)	305	80 %	246	0 %	0	20 %	59	0 %	0	0 %	0