

**REPLACEMENT OF QUARRY ROAD BRIDGE
SUFFIELD, CT
ADDENDUM NO. 2
March 31, 2025**

TO ALL BIDDERS:

All instructions in this addendum shall be reflected in the Bid and will become part of the Contract Documents when the Contract is awarded.

The addenda will be posted on the Town of Suffield website. Contractors bidding the project are responsible for distributing copies to all subcontractors, suppliers, and other entities providing quotations.

The following items form this addendum:

1. Answers to Questions Received by March 28, 2025.
(1 page)

2. Existing Screening, Load Rating and Inspection Report
(33 pages)

Responses to questions posed via email on or before March 28, 2025.

Question – The technical specifications for the removal of the superstructure states that “The work shall consist of the removal and return of the existing temporary bridge superstructure to a location determined by the Town”. This does not appear to be applicable for this project. Please advise

Response – You are correct, this does not apply to this project, as there is no temporary bridge.

Question – Article 3 of the specifications calls for \$1,000 per day of liquidated damages after Substantial Completion and \$750 per day after Final Completion/Payment. The special provisions for liquidated damages on page 161 of the Contract Documents only refers to \$1,000 per day – please confirm this is the only one that applies on this project.

Response – The liquidated damages specified in the special provision on page 161 of the Contract Documents state \$1,000 per day, are the only liquidated damages applicable to this project. The reference in Article 3 of the specifications does not apply.

Question – Based on early conversations with the precast concrete manufacturers, it appears likely that lengthy lead time on submittal procurement and fabrication of the precast concrete products will not allow for Substantial Completion to be met by the specified date of November 25, 2025. How will this be handled if the precast cannot be manufactured in time for this project to be completed this year, particularly with the specified \$1,000/day in liquidated damages? Please advise.

Response – As outlined in the Contract Documents (Special Provisions, page SP-3), the Contractor must submit a construction schedule, including the anticipated delivery of precast concrete, before closing the roadway. This schedule will outline the various work items and facilitate discussions between the successful bidder and the Town to determine the appropriate timing for the road closure. If precast concrete is unavailable, requiring an extension of the schedule, this will be addressed with the Town before the contract is signed.

Question – Are there any existing plans, rating reports, and/or inspection reports for the existing structure?

Response – Attached to this addendum is a 2017 Screening Report, a Load Rating for 1991, and an Inspection Report from 1991. There is information about the existing structure within these documents.

BRIDGE NO.139011

74540 - SUFFIELD
Quarry Road
over
an unnamed stream

Screening Inspection

7/19/2017

Inspected by: Prime



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Form: Location

Inspection type: Screening

Inspection Date: 7/19/2017

Inspected by: Prime

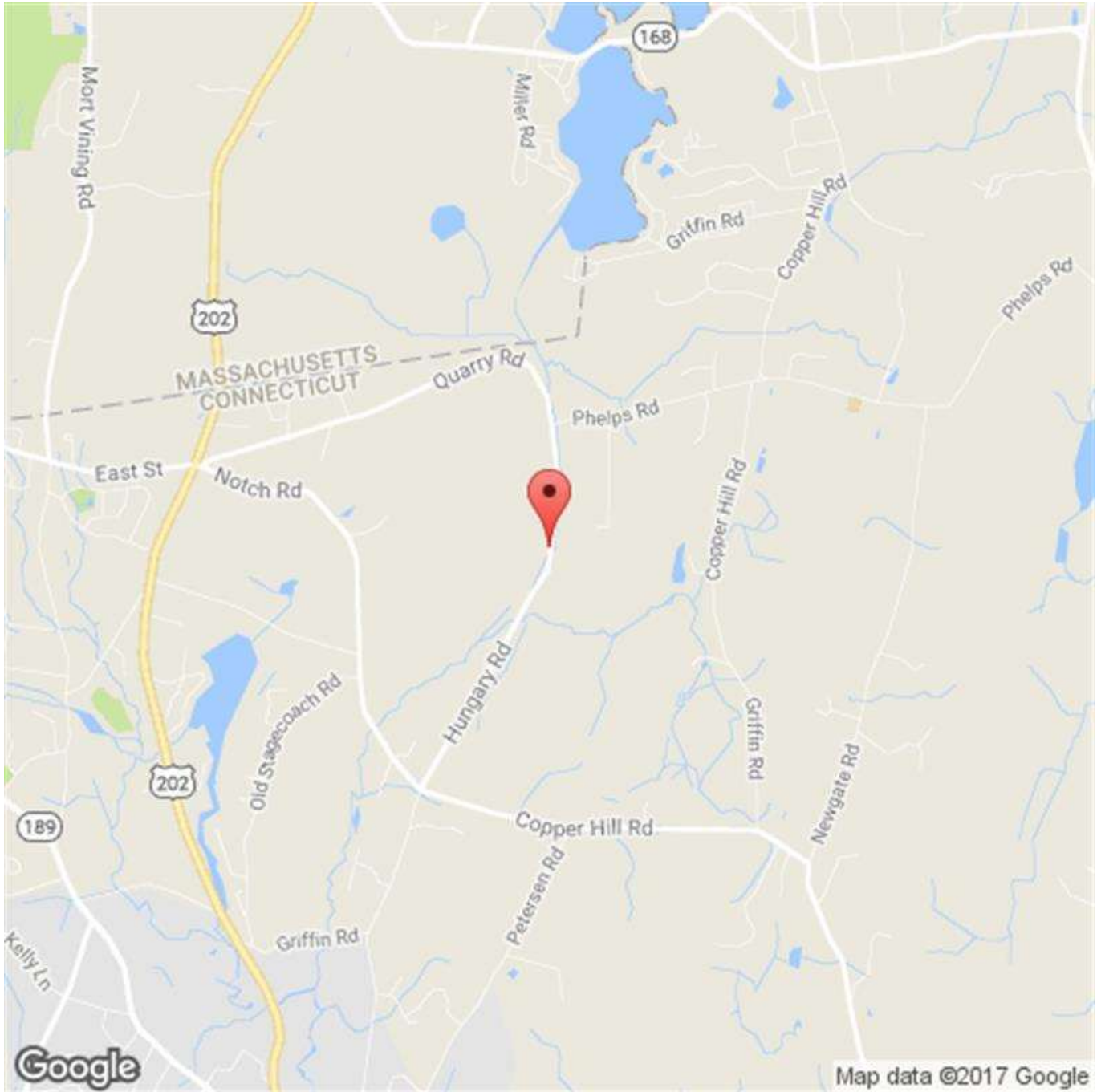
:Bridge No 139011

Town: SUFFIELD

Carried: Quarry Road

Crossed: an unnamed stream

Inventory Route: 8



Location Map # 1

SCREENING - INVENTORY DATA



Bridge: 139011 **Town:** 74540 - SUFFIELD **Carried:** Quarry Road **Crossed:** an unnamed stream

IDENTIFICATION

(4) Town (98) Border Bridge

(6A) Feature Intersected (A) State Code

(7) Facility Carried (B) Percent Responsibility

(9) Location (C) Border Town Name

(99) Border Bridge No.

	Deg.	Min.	Sec.
(16) Latitude	<input type="text" value="41"/>	<input type="text" value="59"/>	<input type="text" value="26.3"/>
(17) Longitude	<input type="text" value="-72"/>	<input type="text" value="46"/>	<input type="text" value="08"/>

STRUCTURE TYPE AND MATERIAL

(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 Protective Systems

A) Type of Wearing Surface

AGE AND SERVICE

(27) Year Built (29) Average Daily Traffic

(106) Year Reconstructed Is Above Half ADT?

(28) Number Of Lanes (A) On (30) Year Of ADT

GEOMETRIC DATA

(48) Length of Maximum Span ft in
(49) Structure Length ft in
(51) Bridge Roadway Width
 Curb to Curb ft in
(52) Deck Width, Out to Out* ** ft in

Deck Area* ** sq ft
(34) Skew Angle
(35) Structure Flared

Creation Date: 07/19/2017

Created By: Dobmeier, Robert

**Inventory Data
Reviewed By:**

David Tassavor

* Record measurements to the nearest whole number.

** Under the screening phase of the program, Bridge Width (Out-Out) and Deck Area are not applicable to culverts that are significantly wider than the roadway (i.e. inlet-to-Outlet measurement is significantly greater than the curb-to-curb measurement.)



SCREENING REPORT

Bridge: 139011 Town: 74540 - SUFFIELD Carried: Quarry Road Crossed: an unnamed stream

Inspection Date: 06/28/2017 Inspection Team: Prime

OVERLAY

Depression/Settlement	Sat/Better	Bituminous Concrete surface in good condition
Sidewalk	N/A	
Bridge Rail/Fence	Fair/Worse	Rusted bridge rail with section loss. Not connected to bottom flange at outlet. Metal beam rail with no anchors.

STRUCTURE

Deck	N/A	Not visible. Wood forms left in place.
Superstructure	Fair/Worse	Heavy lam rust along flanges of west fascia beam.
Substructure	Sat/Better	Loose and missing mortar on masonry abutment walls.

CULVERT

Cell	N/A	
Headwall/Wingwalls	N/A	

WATERWAY

Debris	Sat/Better	Large boulders and rip-rap block flow in downstream channel.
Stream Alignment	Fair/Worse	"S" curvature in channel through bridge area.
Embankment/Erosion	Fair/Worse	Retaining wall on west side of road; south of bridge is failing with loose stones falling into downstream channel.

COMMENTS

To be followed by full inspection Yes

Form: Asset Photos
Inspection type: Screening
Inspection Date: 7/19/2017
Inspected by: Prime

:Bridge No 139011

Town: SUFFIELD
Carried: Quarry Road
Crossed: an unnamed stream
Inventory Route: 8



Photo Number: 1

Photo Taken: 06/28/2017

Top of Deck
Looking south across bridge



Photo Number: 2

Photo Taken: 06/28/2017

West Elevation
Looking at outlet

Form: Asset Photos
Inspection type: Screening
Inspection Date: 7/19/2017
Inspected by: Prime

:Bridge No 139011

Town: SUFFIELD
Carried: Quarry Road
Crossed: an unnamed stream
Inventory Route: 8



Photo Number: 3

Photo Taken: 06/28/2017

Underside of Bridge
Looking upstream (east) from outlet



Photo Number: 4

Photo Taken: 06/28/2017

West fascia beam and rail attachment
At outlet

Town Bridges (Span of 20 FT & under) – Inventory and Screening Form

Town: Suffield Bridge No.: 139011 Date of Inspection: 06/28/2017

Lat.: 41.990663
Long.: -72.768900



Consultant Co Name: PRIME AE Group Inc.

Inspector: BD [Signature]
Inspector: MA [Signature]

Reviewed by: _____ Date: _____

Inventory Data

Road: Quarry Road Crossing: unnamed stream

Location to nearest intersection: 0.5 Miles (N/S/E/W) from Junction with Phelps Road

Is this a border bridge? Yes/ No Border Town (and state): _____

Functional Classification of Roadway: Rural principal arterial (interstate)/ Rural principal arterial (other)/ Rural minor arterial/ Rural major collector/ Rural minor collector/ Rural local/ Urban principal arterial (interstate)/ Urban principal arterial (other freeway)/ Urban other principal arterial/ Urban minor arterial/ Urban collector/ Urban local

ADT: _____ Date of ADT: _____

Source: CDOT Town ADT map, Town source, Project source, other _____
(Do not use the ADT from previous 1991 report and do not estimate ADT – if no source, leave blank)

Main Span:

-Bridge Material: Concrete/ Continuous Conc/ Pre-stressed Conc/ Continuous Pre-Stressed Conc/ Steel/ Continuous Steel/ Timber/ Masonry/ Aluminum/ Other _____

-Type of Bridge: Slab/ Multi-Beam/ Girder & Floorbeam/ Tee Beam/ Multiple Box Beam/ Spread box Beam/ Frame/ Deck Arch/ Pipe culvert or Box Culvert/ Channel Beam/ Other _____

Approach Span:

-Bridge Material: Concrete/ Continuous Conc/ Pre-stressed Conc/ Continuous Pre-Stressed Conc/ Steel/ Continuous Steel/ Timber/ Masonry/ Aluminum/ Other _____

-Type of Bridge: Slab/ Multi-Beam/ Girder & Floorbeam/ Tee Beam/ Multiple Box Beam/ Spread box Beam/ Frame/ Deck Arch/ Pipe culvert or Box Culvert/ Channel Beam/ Other _____

NBIS Bridge Length: 18.4' Structure Length: 22' ±

Number of Spans: 1 Span Lengths: Span1- 18.4 Span2- _____ Span3- _____ Span4- _____

Bridge Width (out-to-out)**: 43' (curb-to-curb): 21'

Deck Area**: 409 S.F. Number of Lanes on Structure: 2

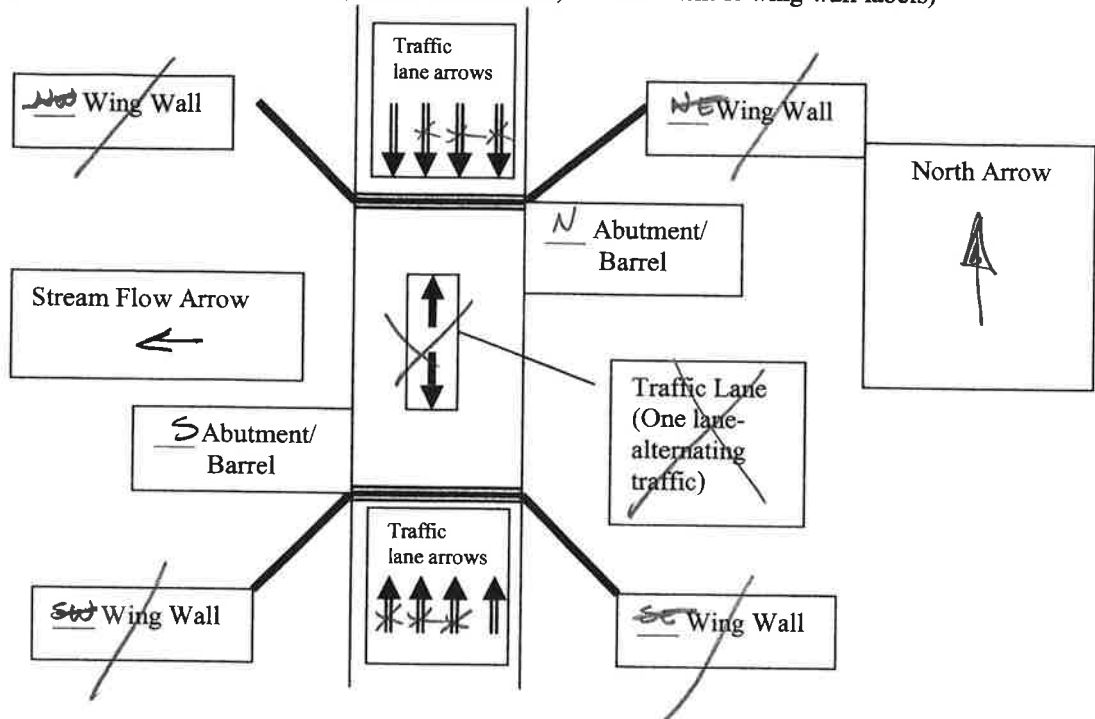
** Under the screening phase of the program, Bridge Width (out to out) and Deck Area are not applicable to culverts that are significantly wider than the roadway (i.e. inlet-to-outlet measurement is significantly greater than the roadway curb-to-curb measurement)

Town Bridges (Span of 20 FT & under)– Inventory and Screening Form

Town: Suffield Bridge No.: 139011 Date of Inspection: 06/28/2017

Basic Orientation Sketch:

(Add north arrow, stream flow arrow, traffic lane arrows, and abutment & wing wall labels)



Screening Data (Limited Inspection)

Was structure inspected under the previous CDOT project (#170-936)? Yes No
 Is structure new or significantly modified since last CDOT inspection? Yes No
 Has the structure been inspected by others since the last CDOT inspection? unkn. Yes No
 Date of last inspection by others: _____

Inspection Access

- Is there ready access to both sides of bridge (up & downstream)? Yes No
- Can stream be walked with waders? Yes No
- Items for full inspection - Boat or raft/ Divers/ Ladder/ Tidal/ Low FB/ Confined space/ Other _____

Topside (Bridge and Culvert)

- Condition of Topside (overlay, top of deck). Sat. Or Better Fair or worse _____
- Safety concerns of urgent nature on topside? (include parapets, railing, etc) No Yes _____

Underside (Bridge)

- Condition of underside of deck (not visible) Sat. Or Better _____ Fair or worse _____
- Condition of superstructure. Sat. Or Better _____ Fair or worse
- Condition of abutments Sat. Or Better Fair or worse _____
- Condition of wingwalls N/A Sat. Or Better _____ Fair or worse _____
- Safety concerns of urgent nature on underside? No _____ Yes _____

Underside (Culvert)

- Condition of roof Sat. Or Better _____ Fair or worse _____
- Condition of sidewalls. Sat. Or Better _____ Fair or worse _____
- Condition of invert Sat. Or Better _____ Fair or worse _____
- Condition of wingwalls Sat. Or Better _____ Fair or worse _____
- Safety concerns of urgent nature on underside? No _____ Yes _____

Town Bridges (Span of 20 FT & under) - Inventory and Screening Form

Town: Suffield Bridge No.: 139011 Date of Inspection: 06/28/2017

Channel

- Condition of scour Sat. Or Better Fair or worse
- Condition of channel Sat. Or Better Fair or worse
- Alignment of channel Sat. Or Better Fair or worse
- Adequacy of channel to carry high flow Sat. Or Better Fair or worse

General Assessment Based on Above:

- 58. Deck *not vis.* Sat. Or Better Fair or worse
- 59. Superstructure Sat. Or Better Fair or worse
- 60. Substructure Sat. Or Better Fair or worse
- 61. Channel Sat. Or Better Fair or worse
- 62. Culvert *N/A* Sat. Or Better Fair or worse
- 67. Structural Evaluation Sat. Or Better Fair or worse
- 71. Waterway adequacy Sat. Or Better Fair or worse

Safety Items:

Was town notified of any urgent safety concerns by e-mail (with photos) Yes No
 Date the town was notified: _____

Comments and Observations:

Topside - Bit. Conc. surface in good condition.
MBR, w/ no anchors or wrap arounds/sharp angles
No sidewalk
Rusted Bridge Rail / section loss @ attachments
not connected to bot. flange

Underside - Bridge @ large skew
Wood forms between beams; deck not visible
Heavy lam rust along top/bottom flanges fascia beam
Loose mortar between masonry abut

Channel - Curvature "S" curve in channel, both sides
Heavy / deep flow, difficult to fully access
Large boulders / riprap block some flow
in downstream channel
Retaining wall failing; loose masonry sw
corner, along roadway

Note: May be over 20' long (back-to-back)
 of steel beams, for structure length
 difficult to measure.

ORIGINAL

**CONNECTICUT
DEPARTMENT OF TRANSPORTATION**

Inspection of Town Owned Structures

Project No. 170-936

Town of Suffield

Quarry Road over Stream

Bridge No. 139011

STRUCTURAL LOAD RATING REPORT

RECEIVED

MAR 01 1991

STEINMAN BOYNTON GRONQUIST & BIRDSALL

STEINMAN BOYNTON GRONQUIST & BIRDSALL

ROCKY HILL, CT. 06067

STEINMAN BOYNTON GRONQUIST & BIRDSALL
 Rocky Hill, Connecticut

Project: Town-Owned Bridges Inspection

Town of Suffield
 Quarry Road over Stream
 Bridge No. 139011

OVERALL RATING SUMMARY

RATING	TRUCK		STRINGER	STRINGER	DECK	DECK	POSTING
TRUCK	WEIGHT	RATING	MOMENT	SHEAR	MOMENT	SHEAR	RECOMMENDED
	(TONS)		(TONS)	(TONS)	(TONS)	(TONS)	
HS20	36	INVENTORY	2414	36	N/R	N/R	
HS20	36	OPERATING	3821	49	N/R	N/R	No

N/R denotes Not Rated

Comments:

1. Thickness of flanges and web used in analysis has been reduced to reflect loss due to corrosion.
2. No structural repairs, except for cleaning and painting, are deemed necessary for a near future.



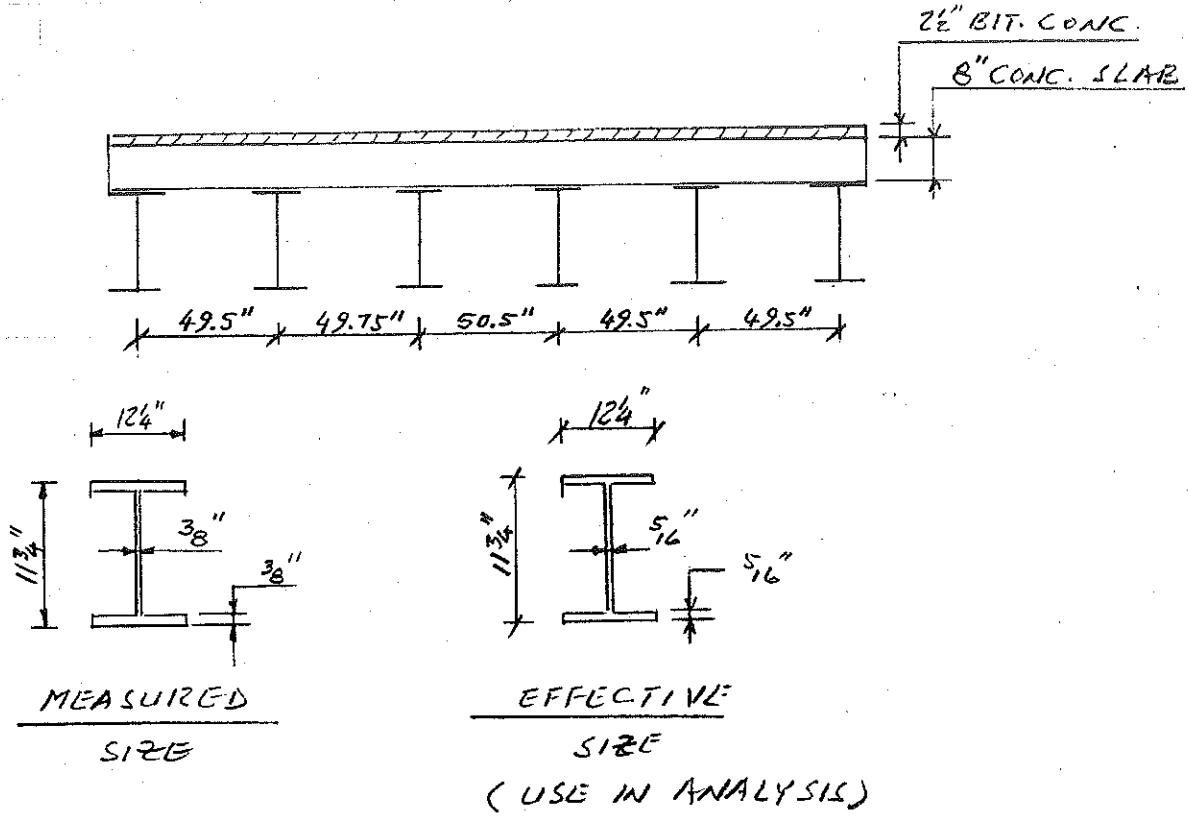
Registered Engineer:

Lisaman Malikasim

Lisaman Malikasim, P.E.
 Conn. P.E. License #16907

Steinman Boynton Gronquist & Birdsall

project 170-936 TOWN-OWNED BRIDGES INSPECTION job no. 9050 page 1 of
 by LM date 2-27-91 section SUFFIELD #139011
 chk ALH date 2/27/91 subject LOAD RATING



AVERAGE STRINGER SPACING = 49.75" or 4.15'

APPLIED DEAD LOAD PER STRINGER

$$\text{BIT. CONC. W.S.} = 30 \text{ PSF} \times 4.146' = 124 \text{ \#/l}$$

$$\text{CONC. SLAB} = \frac{8"}{12"/11} \times 4.15' \times 150 \text{ PCF} = 415$$

$$3" \times 10" \text{ TIMBER JOIST} = 8 \text{ \#/l} \times 4.15 \text{ \#/l} = 33$$

$$\text{TOTAL } w_{DL} = 572 \text{ \#/l}$$

M E M B E R P R O P E R T I E S
=====

Town of Suffield
Bridge no. 139011

DATE: 03/28/91

PLATE GIRDER w/o COVER PLATES

TOP FLANGE: 12.2500 x 0.3125
 BOTTOM FLANGE: 12.2500 x 0.3125
 WEB: 11.1250 x 0.3125

	AREA	A ²	IO	I (GROSS)
TOP FLANGE	3.83	125.20	0.0	125.2
BOT FLANGE	3.83	125.20	0.0	125.2
WEB	3.48	0.00	35.9	35.9
	11.13	250.39	35.9	286.3

TOTAL DEPTH = 11.75 in
 WEIGHT = 37.88 #/ft

Y(BOT) = 5.88 in
 Y(TOP) = 5.88 in

S(TOP) = 48.7 in³
 S(BOT) = 48.7 in³

STRUCTURAL RATING OF BRIDGES with TIMBER or STEEL I-BEAM STRINGERS
Version 1.0(91)

User: Lisaman Malikasim

Town of Suffield
Bridge No. 139011

DATE: 03/28/91

03/28/91

STRINGER MOMENT RATING
=====

STEEL I-BEAM w/ CONCRETE SLAB

NOTE: CONCRETE WAS NOT RATED

LIVE LOAD: HS20-44 TRUCK

NUMBER OF TRAFFIC LANE = 2

ALLOWABLE STEEL INVENTORY BENDING STRESS = 20000 PSI

ALLOWABLE STEEL OPERATING BENDING STRESS = 27000 PSI

STRINGER WIDTH = 12.25 IN

STRINGER DEPTH = 11.75 IN

STRINGER AREA = 11.13281 IN²

STRINGER WEIGHT = 37.88249 #/FT

AVERAGE STRINGER SPACING = 49.75 IN

APPLIED DEAD LOAD PER STRINGER = 572 #/FT (EXCLUDING BEAM WEIGHT)

STRINGER MOM. INERTIA = 286.3097 IN⁴

DESIGN STRINGER SPAN LENGTH = 19.5 FT

WHEEL LOAD DISTRIBUTION FACTOR = .753788

IMPACT = .3

DEAD LOAD MOMENT = 347861.8 IN-#

LIVE LOAD MOMENT + IMPACT = 917209.1 IN-#

DEAD LOAD BENDING STRESS = 7138.033 PSI

LIVE LOAD BENDING STRESS = 18820.89 PSI

STEEL STRINGER INVENTORY MOMENT RATING = 13.66775 TONS

(H20) = 24.6 (H5)
(HS20)

STEEL STRINGER OPERATING MOMENT RATING = 21.1063 TONS

(H20) = 38.0 (H5)
(HS20)

o.k. with 10 ton posting

*TDL
6/25/92*

Bridge No. 139011
03/28/91

STEEL STRINGER SHEAR RATING
=====

ALLOWABLE STEEL INVENTORY SHEAR STRESS = 12000 PSI
ALLOWABLE STEEL OPERATING SHEAR STRESS = 16000 PSI

AREA OF WEB = 3.476563 IN2

DEAD LOAD END SHEAR = 5946.355 LB

LIVE LOAD END SHEAR + IMPACT = 20088.45 LB

DEAD LOAD SHEAR STRESS = 1710.412 PSI

LIVE LOAD SHEAR STRESS = 5778.25 PSI

STEEL STRINGER INVENTORY SHEAR RATING = 35.6149 TONS (HS20)

STEEL STRINGER OPERATING SHEAR RATING = 49.45992 TONS (HS20)

ORIGINAL

**CONNECTICUT
DEPARTMENT OF TRANSPORTATION**

Inspection of Town Owned Structures

Project No. 170-936

Town of Suffield

Quarry Road Over Stream

Bridge No. 139011

STEINMAN BOYNTON GRONQUIST & BIRDSALL

ROCKY HILL, CT. 06067

JANUARY 28, 1991

050

BRIDGE NUMBER 139011	TOWN NAME SUFFIELD	NBIS BRG LGTH N 18.4
FACILITY CARRIED QUARRY RD.		FEATURE CROSSED STREAM

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
DIVISION OF BRIDGE SAFETY & EVALUATION
STRUCTURE INVENTORY
SHEET 1 OF 2 FORM BR19 REV 10/90

INSPECTED BY: DONALD P. WORST & MICHAEL J. WENDEK SHEET OF (INSP. REPORT)

LAST INSPECTED ON:
SUFFICIENCY RATING:

(30) INSPECTION DATE MONTH DAY YEAR 01 07 91	INSP. TEAM	INSP. FREQUENCY
IN-DEPTH INS DECK SURVEY	ACCESS	FLAG MAN
CRITICAL FEATURE INSPECTIONS (93) INSPECTION DATE (CODE IF CHANGED) Insp. Type (32) FREQU. (33) INSPECTION DATE (CODE IF CHANGED) A) B) C)		

IDENTIFICATION

AGE AND SERVICE

(4) TOWN NAME SUFFIELD PLACE CODE: 2270

EST. 1970

(5) INVENTORY ROUTE:
B) SIGNING PREFIX 4
C) LEVEL OF SERVICE 0
D) NUMBER 0

0

(6) FEATURE INTERSECTED
SUFFIELD

02
010

(7) FACILITY CARRIED
QUARRY RD.

050
1911

*(29) AVERAGE DAILY TRAFFIC EST 0000
*(109) PERCENT TRUCK 19
*(30) YEAR OF ADT 1991

(9) LOCATION
Miles 0.200

(19) BYPASS, DETOUR LENGTH 0.3

0.3

19

** (98) BORDER BRIDGE
A) STATE CODE
B) PERCENT RESPONSIBILITY
C) BORDER TOWN NAME

ft ft 00110
ft ft 00018

(99) BORDER BRIDGE STRUCTURE NO.
STRUCTURE TYPE AND MATERIAL

ft ft 000
ft ft 000

(43) STRUCTURE TYPE, MAIN
A) MATERIAL 3
B) DESIGN TYPE 0

ft ft 021.5
ft ft 022.0
ft ft 07.2

(44) STRUCTURE TYPE, APPROACH
A) MATERIAL 0
B) DESIGN TYPE 0

ft ft 0001
ft ft 11

(45) NUMBER OF SPANS, MAIN UNIT
(46) NUMBER OF APPROACH SPANS

ft ft 99-9.9
ft ft 21.5

+ ** (107) DECK STRUCTURE TYPE

ft ft 99-9.9
ft ft 00-010

+ ** (108) WEARING SURFACE / PROTECTIVE SYSTEM:
A) TYPE OF WEARING SURFACE 6
B) TYPE OF MEMBRANE 8
C) TYPE OF DECK PROTECTION 8

ft ft 99-9.9
ft ft 00-010

GEOMETRIC DATA

** (48) LENGTH OF MAXIMUM SPAN
** (49) STRUCTURE LENGTH

(50) CURB OR SIDEWALK WIDTHS
A) LEFT
B) RIGHT

** (51) BRG ROWY WIDTH, CURB-CURB
(52) DECK WIDTH, OUT TO OUT
(32) APPROACH ROADWAY WIDTH

(33) BRIDGE MEDIAN

DECK AREA

(34) SKEW ANGLE
(35) STRUCTURE FLARED

+(10) INV. RTE. MIN. VERT CLEAR
+(47) INV. RTE. TOTAL HORIZ CLEAR

+(53) MIN VERT CLEAR OVER BRG ROWY
+(54) MIN VERT UNDERCLEARANCE

+(55) MIN LAT UNDERCLEAR ON RIGHT
+(56) MIN LAT UNDERCLEAR ON LEFT

9.5' x 22'

ft ft 209
sq ft 590

ft ft 0
ft ft 0

ft ft 0
ft ft 0

ft ft 0
ft ft 0

ft ft 0
ft ft 0

ft ft 0
ft ft 0

BRIDGE NUMBER	TOWN NAME	NBIS BRG LGTH
137011	SUFFIELD	N 18.4'
FACILITY CARRIED	FEATURE CROSSED	
QUARRY RD.	STREAM	

INSPECTED BY: DPW & MJW

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

SHEET 2 OF 2 FORM BRI19 REV 10/90

LOAD RATING AND POSTING

- (31) DESIGN LOAD
- (64) OPERATING RATING
- (66) INVENTORY RATING
- (70) BRIDGE POSTING

0	0
238	224
234	214
	5
	P

*(41) STRUCTURE OPERATIONAL STATUS

TOL
6/25/92

SHEET OF (INSP. REPORT)

CONDITION

N	8								
0	9								
1	0								
2	0								
3	0								
4	3								
5	0								

- ** (112) NBIS BRIDGE LENGTH
- (104) HIGHWAY SYSTEM
- (26) FUNCTIONAL CLASS
- (100) DEFENSE HIGHWAY
- ** (101) PARALLEL STRUCTURE
- ** (102) DIRECTION OF TRAFFIC
- ** (103) TEMPORARY STRUCTURE
- ** (110) DESIGNATED NATIONAL NETWORK
- (20) TOLL
- (21) MAINTAIN
- (22) OWNER
- (37) HISTORICAL SIGNIFICANCE

- *(58) DECK
- ** (59) SUPERSTRUCTURE
- *(60) SUBSTRUCTURE
- *(61) CHANNEL & CHANNEL PROTECTION
- *(62) CULVERTS

Rating	By
8	DPW
7	DPW
7	DPW
7	DPW
N	DPW

APPRAISALS

- *(67) STRUCTURE EVALUATION
- ** (68) DECK GEOMETRY
- +(69) UNDERCLEARANCES VERT & HORIZ
- +(71) WATERWAY ADEQUACY
- +(72) APPROACH ROADWAY ALIGNMENT

Rating	By
4	LM
5	LM
N	LM
7	LM
8	LM

WATERWAY

- DRAINAGE BASIN WATERWAY CODE
- (38) NAVIGATION CONTROL
- (39) NAVIGATION VERT CLEAR
- (40) NAVIGATION HORIZ CLEAR
- ** (116) VERT-LIFT BRG NAV MIN
- ** (111) PIER NAV PROTECTION

0 0 0 0 0

ITEMS 58 THRU 72 CHECKED BY: M. J. W.

ADDITIONAL COMMENTS:

PROPOSED NEXT ROUTINE INSPECTION DATE:
PROPOSED NEXT UNDERWATER INSPECTION DATE:
PROPOSED NEXT INDEPTH INSPECTION YEAR:

M	D	Y

PROPOSED IMPROVEMENT

- (75A) TYPE OF WORK PROPOSED
- (75B) WORK DONE BY:
- (76) LENGTH OF STRU IMPROV
- (94) BRIDGE IMPROVEMENT COST
- (95) ROADWAY IMPROVEMENT COST
- (96) TOTAL PROJECT COST
- (97) YEAR OF IMPROV COST EST
- (114) FUTURE ADT
- (115) YEAR OF FUTURE ADT
- DOT BRIDGE PROGRAM LIST NO
- PROJECT NUMBER

POSTED SIGNS & UTILITIES

- POSTED LOAD FOR SINGLE UNIT TRUCK
- POSTED LOAD FOR SEMI-TRAILER TRUCK
- POSTED VERT CLEARANCE ON THE BRIDGE
- POSTED VERT UNDERCLEARANCE
- POSTED SPEED LIMIT AT THE BRIDGE
- OTHER POSTED SIGNS
- UTILITIES CARRIED BY BRIDGE

10							
20							



Lisaman Malikasiz

REVIEWED BY: Lisaman Malikasiz DATE: 1/23/91

- OFFICE CHECK 888.99.113
- + FILL OUT ON EVERY INSPECTION ... 29, 109, 30, 41, 58, 59, 60, 61, 62, 36
- + VERIFY EVERY INSPECTION ... 107, 108(A, B, C, D), 28(A, B), 10, 47, 53, 54, 55, 56 (ALL POSTED SIGNS + UTILITIES) 69, 71, 72, 103
- ** MUST BE FILLED OUT OR VERIFIED ON THE FIRST INSPECTION MADE BASED ON THE NEW FHWA CODING GUIDE.

98(A-B), 107, 108, 109, 112, 101, 102, 103, 116, 111, 113

BRIDGE INSPECTION

SHEET 1 of 2

BRI-18 REV. 11/83

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

SNOOPER REQUIRED YES NO

SNOOPER USED YES

ROUTE QUARRY ROAD	BRIDGE NO. 139011	TOWN SUFFIELD	TYPE STEEL STRINGER
OVER STREAM	YEAR BUILT 1970 ±	INSPECTED BY D. WURST & M. WEIDNER	DATE 1-7-91

58 DECK		RATING 9-0	INSP. RATING 9-0
1. OVERLAY	BIT.	8	
2. DECK-STR. COND.	CONC.	N	8
3. CURBS		N	
4. MEDIAN		N	
5. SIDEWALKS		N	
6. PARAPET		N	
7. RAILING STEEL WF & MBR		8	
8. PAINT		N	
9. DRAINS		 	
10. LIGHTING STANDARD		 	
11. UTILITIES - TYPE AND SIZE		 	
12. CONSTRUCTION JOINTS		 	
13. EXP. JOINT		N	

59 SUPERSTRUCTURE			INSP. RATING 9-0
1. BEARING DEVICES	N	STRINGERS DIRECTLY ON CONC. SEAT.	
2. STRINGERS	STEEL	7	7
3. GIRDERS	N	LIGHT SURFACE RUST	
4. FLOOR BEAMS	 		
5. TRUSSES - GENERAL	 		
PORTALS	 		
BRACING	N		
6. PAINT	7	FLAKING OFF IN PLACES	
7. MACHINERY MOV. SPAN	N		
8. RIVETS & BOLTS	N		
9. WELDS - CRACKS	N		
10. RUST	7	LIGHT SURFACE RUST	
11. TIMBER DECAY	N		
12. CONCRETE CRACKING	 		
13. COLLISION DAMAGE	 		
14. DEFLECTION UNDER LOAD	N	<input type="checkbox"/> NORMAL <input type="checkbox"/> EXCESSIVE	
15. ALIGNMENT OF MEMBERS	8		
16. VIBRATION UNDER LOAD	N	<input type="checkbox"/> NORMAL <input type="checkbox"/> EXCESSIVE	

60 SUBSTRUCTURE			INSP. RATING 9-0
1. ABUTMENTS STEM	ROUGH CUT STONE	7	7
BACKWALL	CONC	8	
FOOTING		N	NOT VISIBLE
EROSION		N	
SETTLEMENT		N	
STONE WINGWALLS	ROUGH CUT	7	SAME AS ABUTMENT
2. PIERS OR BENTS - CAPS		N	
COLUMNS		 	
FOOTING		 	
SCOUR		 	
SETTLEMENT		 	
3. PILE BENT		N	
4. CONCRETE CRACK - SPALL		8	SEAT & BACKWALL ONLY
5. STEEL CORROSION		N	NONE VISIBLE
6. TIMBER DECAY		N	
7. DEBRIS ON SEATS		7	SOME SAND & LEAVES
8. PAINT		N	
9. COLLISION DAMAGE		N	

BRIDGE INSPECTION

SHEET 2 of 2

BRI-18 REV. 11/83

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS

BRIDGE NO. 139011	OVERALL LENGTH 18 FT.	SUFFICIENCY RATING	DATE 1-7-91
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61 CHANNEL & CHANNEL PROTECTION			INSP. RATING 9-0
	RATING 9-0		
1. CHANNEL SCOUR	8		7
2. EMBANKMENT EROSION	8		
3. DEBRIS	7	LARGE LIMBS & STONES	
4. VEGETATION	8		
5. CHANNEL CHANGE	7	LARGE SKEW ON BRIDGE. CHANNEL FLOWS ALONG FACE OF S-W & NE. WINGWALLS.	
6. FENDER SYSTEM	N		
7. SPUR DIKES AND JETTIES	N		
8. RIP RAP	N		

62 CULVERT & RETAINING WALLS			INSP. RATING 9-0
1. BARREL	N		
CONCRETE			
STEEL			N
TIMBER			
2. HEADWALL			
3. CUTOFF WALL			
4. DEBRIS			
5. RETAINING WALL-STEM			
6. FOOTING	N		

63 ESTIMATED REMAINING LIFE	YEARS 20
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64. PERMIT CAPACITY

65 APPROACH CONDITION			INSP. RATING 9-0
1. APPROACH SLAB	N		
2. RELIEF JOINTS	N		
3. APPROACH - GUIDE RAIL	7	MOR ON WOOD POSTS. SOME LEANING POSTS	7
PAVEMENT BIT.	8		
EMBANKMENT	7	EROSION @ ENDS OF WINGS. WINGS LEANING SOME	
4. TRAFFIC SAFETY FEATURE	8	WEIGHT LIMIT SIGN.	

66. RATED LOADING			
		SINGLE UNIT	SEMI TRAILER
1. POSTED LOADING	8	TONS: 10	
2. ADVANCE WARNING	N	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
3. LEGIBILITY	8		
4. VISABILITY & LOCATION	8		

INSPECTOR'S APPRAISAL OF GENERAL CONDITION OF THE STRUCTURE			INSP. RATING 9-0
RECORD VERTICAL CLEARANCE IF 14'6" or less ()	RECORD POSTED CLEARANCE ()	ADVANCE WARNING: <input type="checkbox"/> YES <input type="checkbox"/> NO	
RECORD SPEED LIMIT AT BRIDGE IF ANY.	30 MPH		7
CHARACTER OF TRAFFIC:	LIGHT		
ADDITIONAL NOTES:	WOODEN DECK FORMS LEFT IN PLACE		

TOWN OF SUFFIELD

BRIDGE NO. 139011

QUARRY ROAD OVER STEAM

1. DEFICIENCIES: Loss of Paint on Steel Stringers. Light
Rust on Surface

RECOMMENDED REPAIRS: Remove Rust and Paint Affected

ESTIMATED COST: 616 S.F. x \$3.00/S.F. = \$1,848.00

2. DEFICIENCIES: Loss of Mortar and Loose Stones in Abutments
and Wingwalls

RECOMMENDED REPAIRS: Replace Loose Stones and Repoint

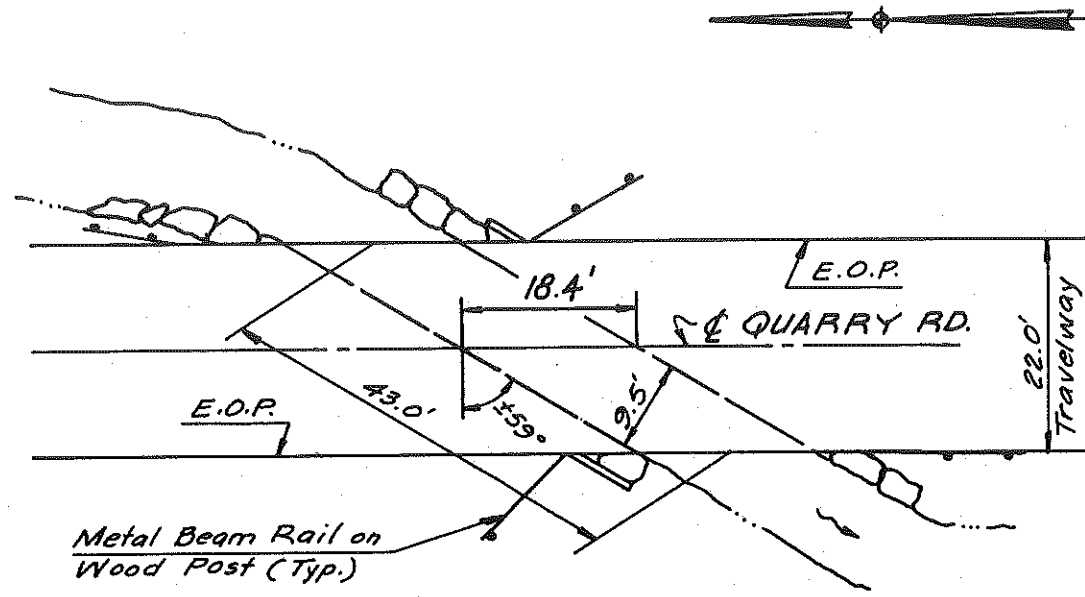
ESTIMATED COST: 616 S.F. x \$5.00/S.F. = \$3,080.00

3. DEFICIENCIES: Miscellaneous Debris in Channel

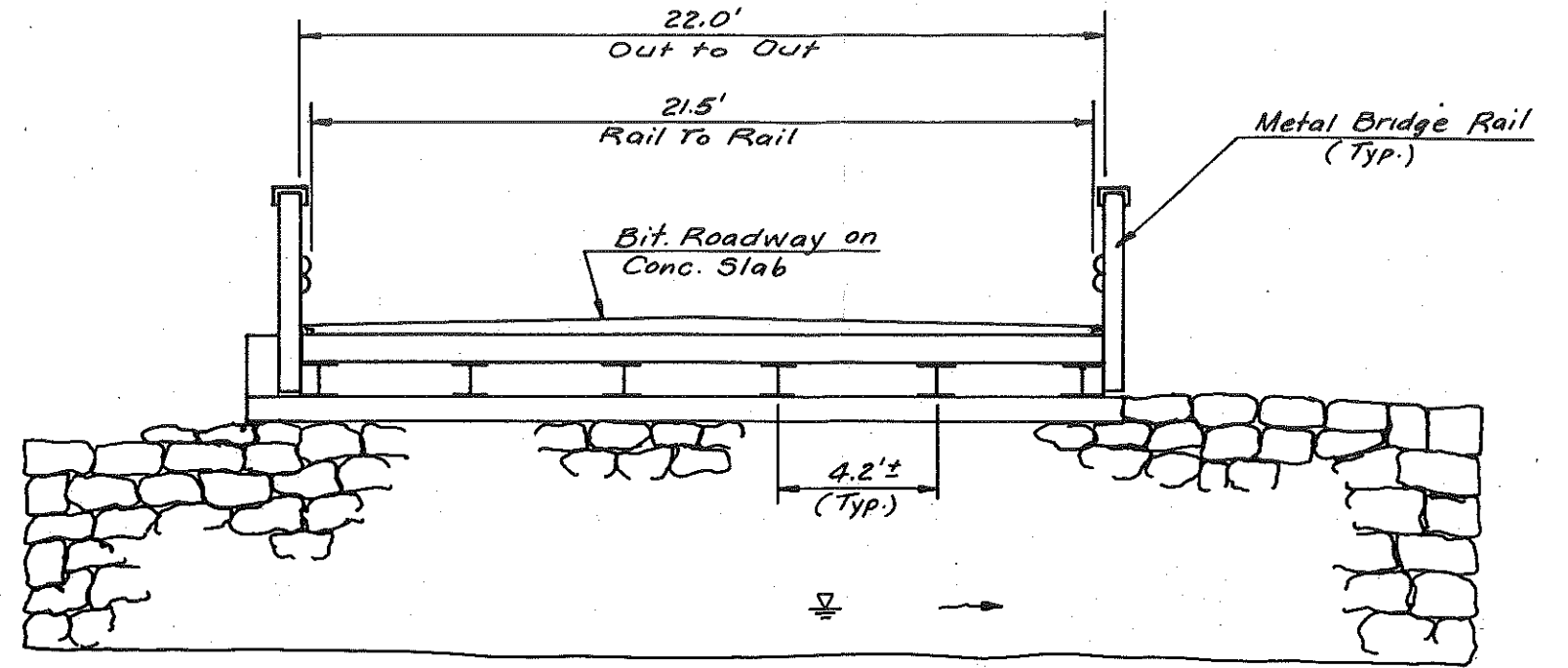
RECOMMENDED REPAIRS: Clean Channel

ESTIMATED COST: Say \$1,000.00

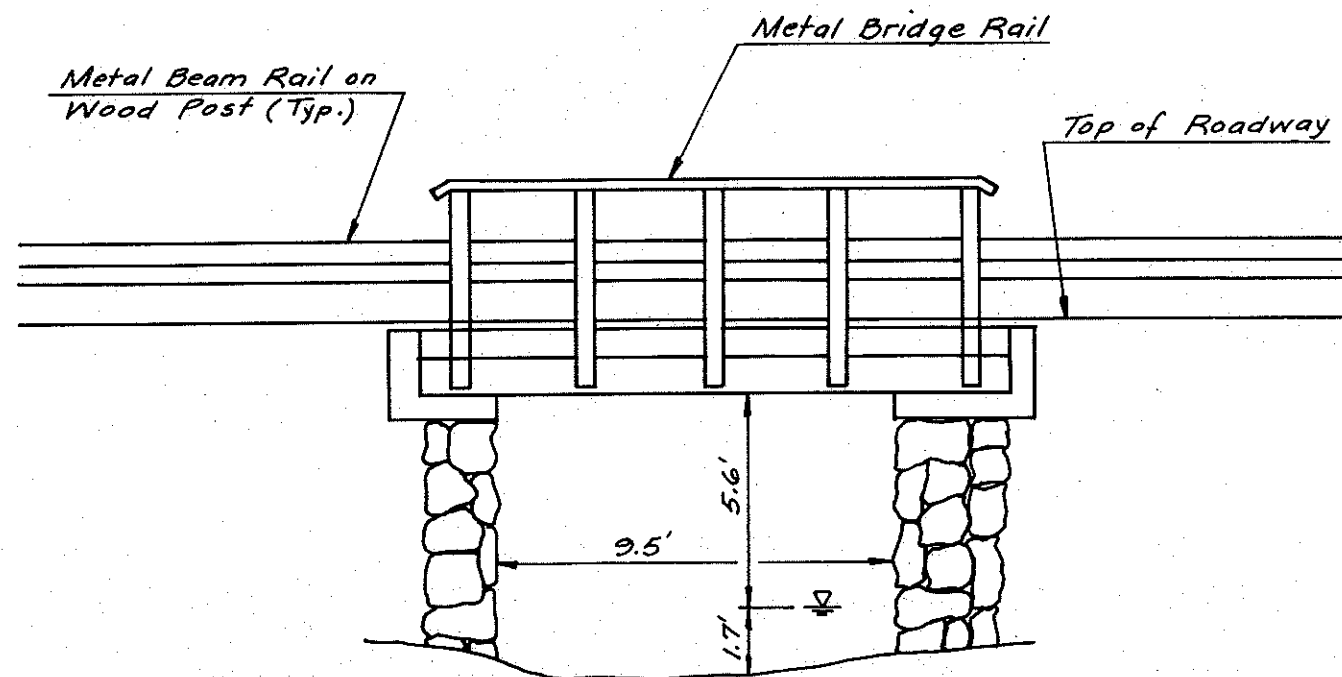
TOTAL ESTIMATED REPAIR COST: \$5,982.00 Say \$6,000.00



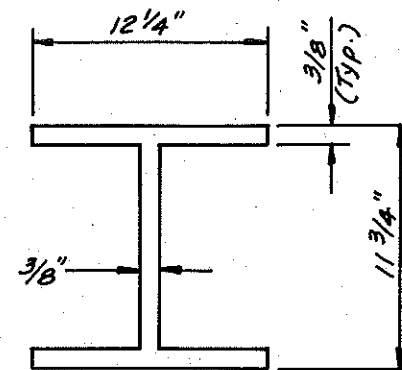
PLAN
SCALE: 1" = 20'



CROSS SECTION
SCALE: 1" = 5'



ELEVATION
SCALE: 1" = 5'



BEAM DETAIL
NOT TO SCALE

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		
SUFFIELD QUARRY ROAD OVER STREAM		
Steinman Boynton Gronquist & Birdsall 1880 Silas Deane Highway Rocky Hill, CT 06067		
SCALE: NOTED	DATE: 1/7/91	BR. NO. 139011

TOWN: SUFFIELD

BRIDGE NO.: 139011 - QUARRY ROAD OVER STREAM

LIST OF PHOTOGRAPHS

1. Approach (Looking South)
2. Approach (Looking North)
3. East Elevation (Looking Downstream)
4. North End of Stringer at East Fascia
5. West Elevation (Looking Upstream)
6. South End of Stringer at West Fascia
7. View Along North Abutment (Looking Upstream)
8. Concrete Seat on Top of North Abutment
9. Wooden Deck Forms Left in Place



STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		
SUFFIELD QUARRY ROAD OVER STREAM		
Steinman Boynton Gronquist & Birdsall 1880 Silas Deane Highway Rocky Hill, CT 06067		
SCALE N/A	DATE: 1/7/91	BR. NO. 139011



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STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		
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Steinman Boynton Gronquist & Birdsall 1880 Silas Deane Highway Rocky Hill, CT 06067		
SCALE N/A	DATE: 1/7/91	BR. NO. 139011



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Steinman Boynton Gronquist & Birdsall 1880 Silas Deane Highway Rocky Hill, CT 06067		
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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

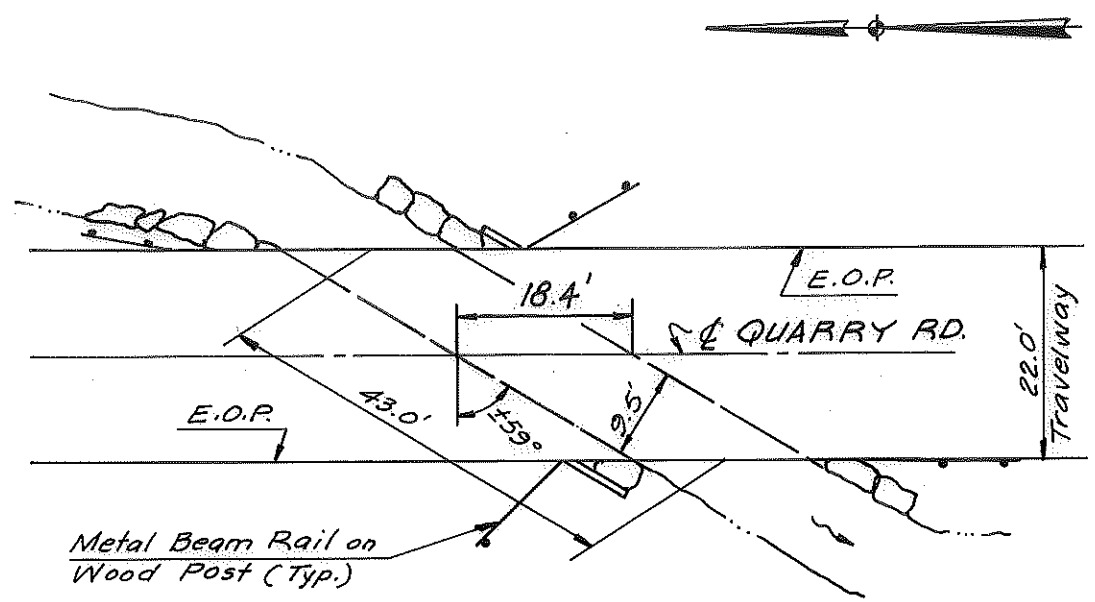
SUFFIELD
QUARRY ROAD OVER STREAM

Steinman Boynton Gronquist & Birdsall
1880 Silas Deane Highway Rocky Hill, CT 06067

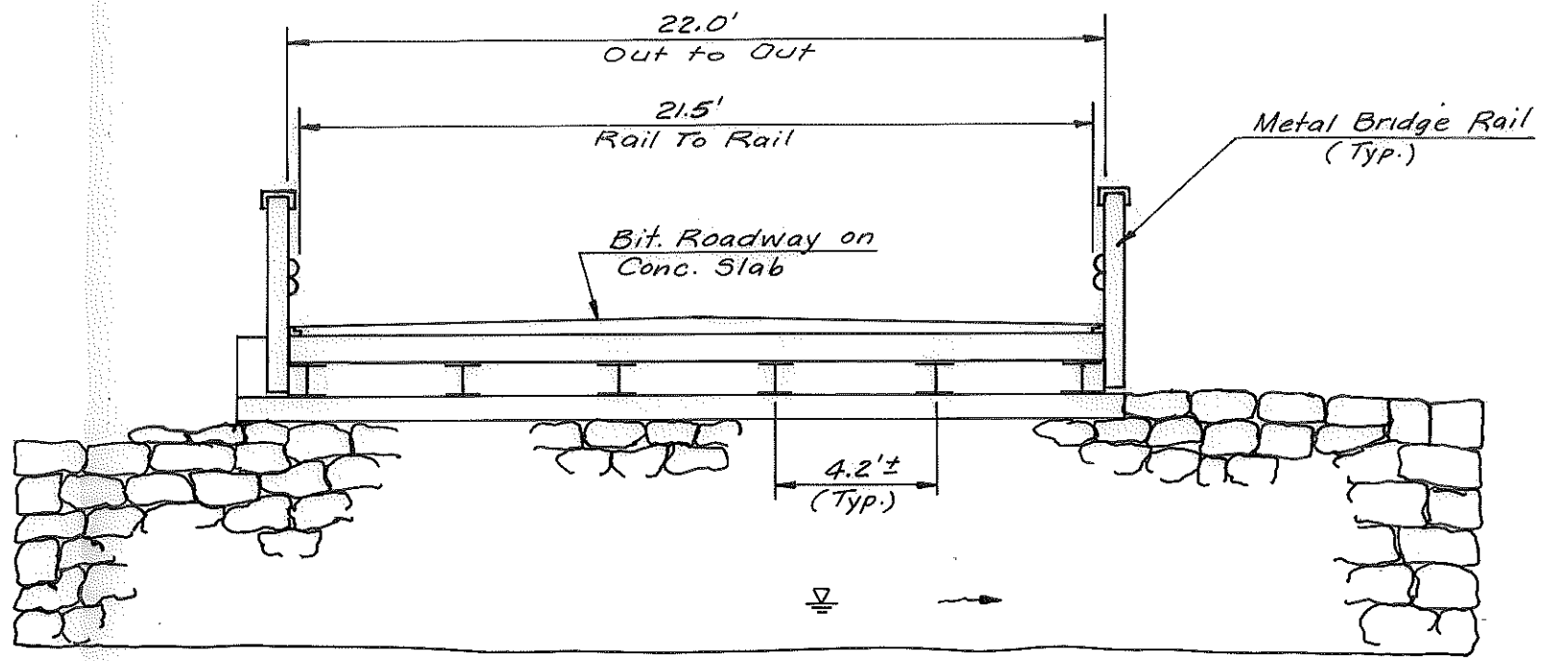
SCALE N/A

DATE: 1/7/91

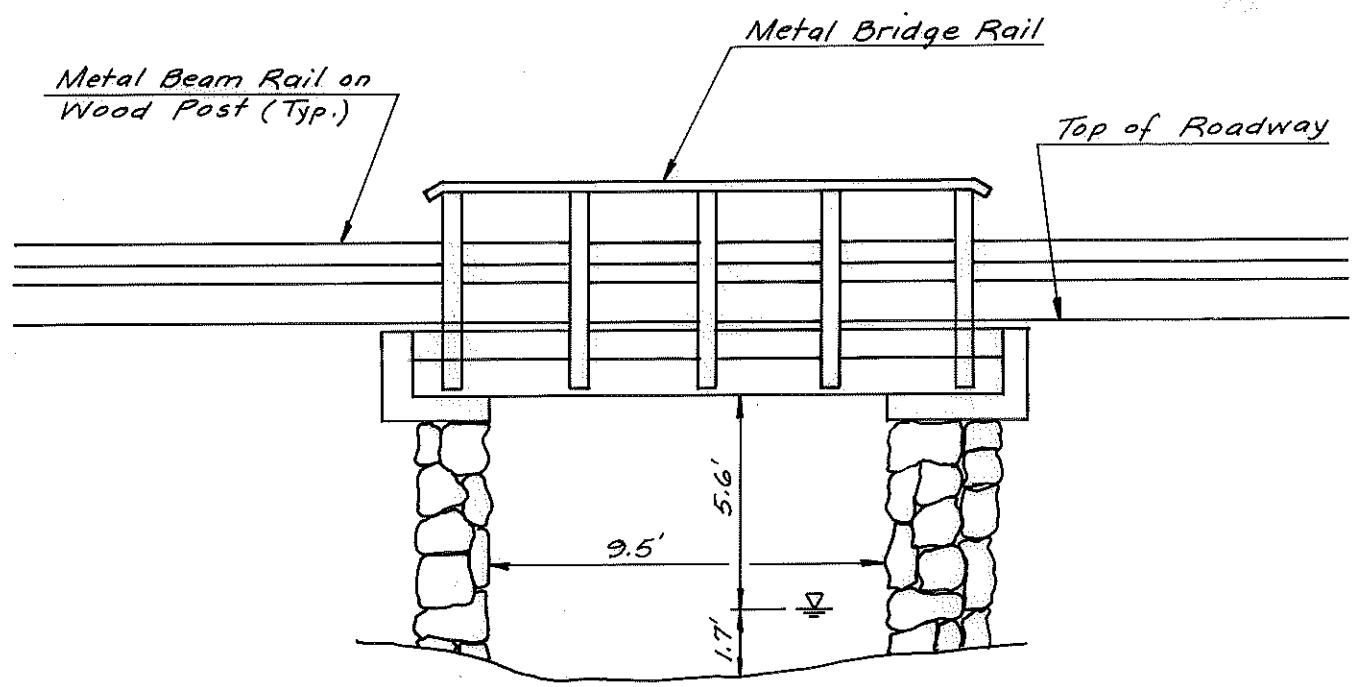
BR. NO. 139011



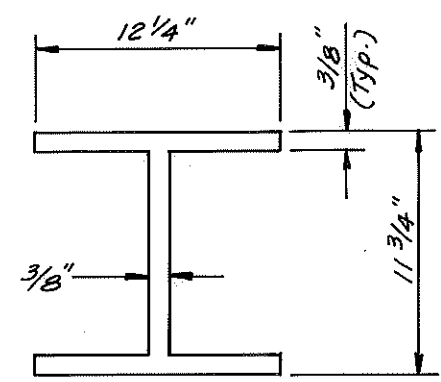
PLAN
SCALE: 1" = 20'



CROSS SECTION
SCALE: 1" = 5'



ELEVATION
SCALE: 1" = 5'



BEAM DETAIL
NOT TO SCALE

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		
SUFFIELD QUARRY ROAD OVER STREAM		
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