

PLAN  
Scale: 1"=100'

ELEVATION (Bridge No. 00524)  
Scale: 1"=100'

KEY (CONTINUED)  
 \* Denotes Bearing Shoe to be modified after painting. See "Modify Existing Structural Steel - Site No. 1", this sheet.

- KEY
- ◇ Denotes Channel Margins (180° Red)
  - ◆ Denotes Channel Center (360° Green)
  - 5 INDICATES SPAN NUMBERS
  - 10 INDICATES PIER NUMBERS
  - F INDICATES FIXED BEARING
  - E INDICATES EXPANSION BEARING
  - Existing Lighting. For Navigation lighting during construction see Special Provisions.

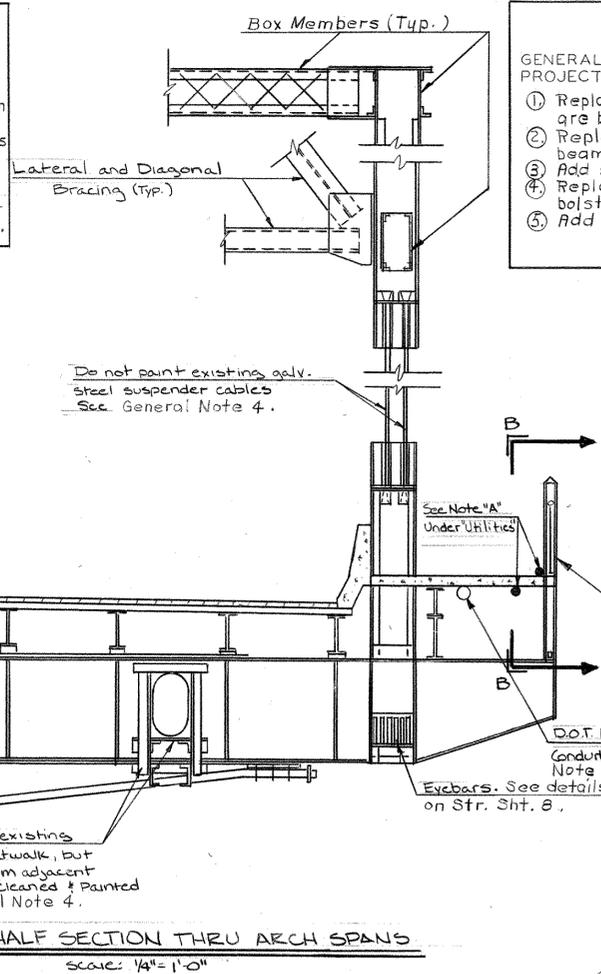
\* - The CL & P cables under spans 1, 3, and 7 are to be relocated underground by CL & P.

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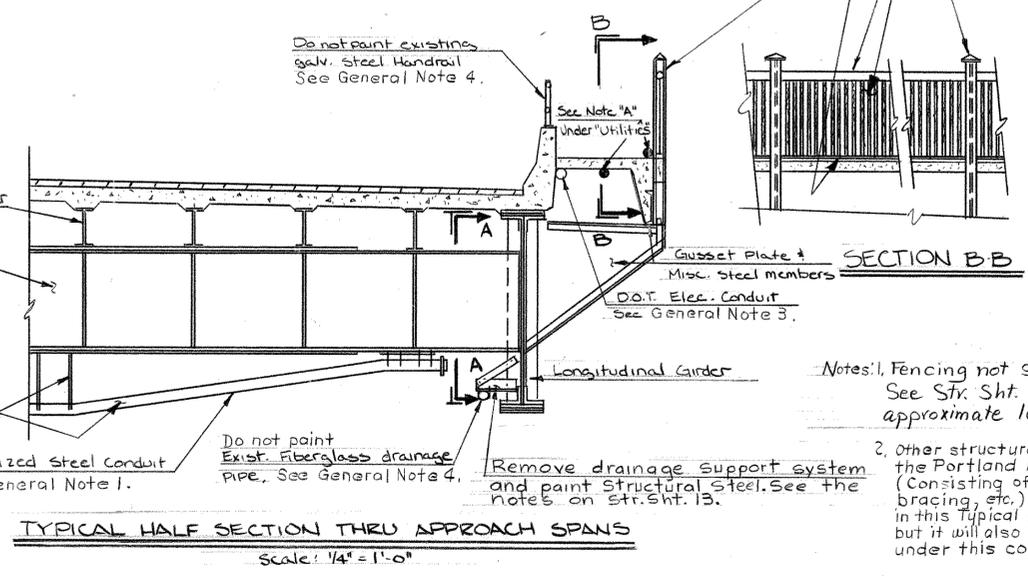
<b>STATE OF CONNECTICUT</b>			
<b>DEPARTMENT OF TRANSPORTATION</b>			
<b>MIDDLETOWN - PORTLAND</b>			
<b>PAINTING OF</b>			
<b>ARRIGONI BRIDGE</b>			
<b>ROUTE 66 OVER THE CONNECTICUT RIVER</b>			
<b>GENERAL PLAN</b>			
<b>ENGINEER BRIDGE DESIGN UNIT</b>			
DESIGNER	MAL	DRAFTER	JJC
CHECKER	RDD		
APPROVED	<i>[Signature]</i>		DATE 7/28/93
NO. DATE	DESCRIPTION	STRUCTURE NO.	BRIDGE LOG NO. STRUCTURE SHEET NO.
	REVISIONS		1 of 16

**SUMMARY OF WORK**  
PROJECT NO. 82-252

1. Clean and paint structural steel.
2. Field drill holes in low points of angles and gusset plates to eliminate water entrapment in these members.
3. Install netting to bird proof selected members of the arch spans.
4. Inject epoxy between the tops of steel flanges and the concrete slab to fill in gaps.
5. Modify bearing shoes with steel plates to prevent accumulation of debris inside the bearing shoes.



**TYPICAL HALF SECTION THRU ARCH SPANS**  
Scale: 1/4" = 1'-0"



**TYPICAL HALF SECTION THRU APPROACH SPANS**  
Scale: 1/4" = 1'-0"

**NOTE "A"**

GENERAL DESCRIPTION OF STEEL WORK INCLUDED IN CONSTR. ORDER FOR PROJECT 82-223 ( PLANS DATED JUNE 30, 1993).

1. Replace diagonals and struts of piers 13, 14, 16-29. Existing members are built up. Replacement members are I- Sections.
2. Replace rocker bearings with elastomeric bearings at lateral floor beams over Piers 1, 2, 4 thru 8. Also install brackets.
3. Add steel keeper blocks at piers 9 thru 11.
4. Replace existing bearings with elastomeric bearings, cap plates, & bolsters at Piers 13, 14, & 16.
5. Add welded bracket plates at miscellaneous floor beams.

**QUANTITIES - BR. NO. 00524**

ITEM	UNIT	AMOUNT
Abrasive Blast Cleaning and Field Painting of Structure (Site No. 1)	L.S.	L.S.
Class 1 Containment and Collection of Surface Preparation Debris (Site No. 1)	L.S.	L.S.
Disposal of Debris (Hazardous)	C.Y.	156
Disposal of Debris (Contaminated)	C.Y.	156
Epoxy Injection - Slab to Girder	L.F.	850
Epoxy Injection - Slab to Stringer	L.F.	331
Netting	S.F.	3900
Field Drilled Holes	Ea.	656
Modify Existing Structural Steel - Site No. 1	L.S.	L.S.

**NOTICE TO BRIDGE INSPECTORS**

The Department's Bridge Safety procedures require this bridge to be inspected for, but not limited to, all appropriate components indicated in the governing manuals for bridge inspection. Attention must be given to inspecting the following special components and details. (The listing of components for specific attention shall not be construed to reduce the importance of inspection of any other component of the structure). The frequency of inspection of this structure shall be in accordance with the governing manuals for bridge inspection, unless otherwise directed by the Manager of Bridge Safety and Evaluation.

COMPONENT OR DETAIL	BRIDGE SHEET REFERENCE
Follow normal inspection procedures.	

**INDEX TO STRUCTURE SHEETS**

TITLE	STR. SHT.
General Plan & Elevation of Bridge & Modify Struc. Steel	1
General Notes, Quantities & Typical Half Sections	2
Haunch Repairs by Epoxy Injection	3-6
Framing Plan of Typical Arch Span	7
Member Sections (Spans 10 & 11) & Miscellaneous Details	8
Installation of Bird Netting & Field Drilled Holes	9-12
Painting at Drainage Supports	13-16

**COLOR OF FIELD PAINTING**

Site No.	Bridge No.	Color of Bridge		Color of Railings & Fence	
		Federal Standard No.	Color	Federal Standard No.	Color
1	00524	<del>24172</del>	<del>Green</del>	<del>24172</del>	<del>Green</del>
		25526	Light Blue	25526	Light Blue

**INSPECTION OF FIELD WELDS**

METHOD	UNIT	AMOUNT
Ultrasonic	ln.	0
Magnetic Particle	L.F.	0

Notes: 1. Fencing not shown. See Str. Sht. 1 for approximate location.

2. Other structural steel on the Portland Approach. (Consisting of columns, bracing, etc.) is not shown in this Typical Half Section, but it will also be painted under this contract.

Note: Drainage piping not shown in Section A-A.

**GENERAL NOTES (CONTINUED)**

**TRAFFIC:** All work shall be done in accordance with the special provisions "Maintenance and Protection of Traffic" and "Prosecution and Progress".

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN	MIDDLETOWN	BHF-220(3)	82-252	1993	66	4	22

**GENERAL NOTES**

**SPECIFICATIONS:** Connecticut Department of Transportation Form 814 (1988), Supplemental Specifications and Special Provisions.

**PAINT:**  
Structural Steel: Except as noted in Notes 1-4 below, all steel of Bridge No. 00524 (Site No. 1) shall be abrasive blast cleaned and field painted in accordance with the special provision 'Abrasive Blast Cleaning and Field Painting of Structure (Site No. 1)'. Structural steel, including but not limited to floor stringers, girders, floor beams, lateral and diagonal bracing, gusset plates, stiffeners, box members, lacing, eyebars, bearings, keeper devices, steel pier caps, bents and columns, steel light standards, railing, and all components of the inspection access ladders on the arch spans, shall be abrasive blast cleaned and painted.

Zinc Primed Steel Installed under Project No. 82-223: This steel shall also be abrasive blast cleaned and field painted in accordance with the special provision 'Abrasive Blast Cleaning and Field Painting of Structure (Site No. 1)'.

Ongoing Steel Installations (being done under Project No. 82-223 by Construction Change Order): This steel is being installed with a zinc primer coat on it. This steel shall also be abrasive blast cleaned and field painted in accordance with the special provision 'Abrasive Blast Cleaning and Field Painting of Structure (Site No. 1)'. The Contractor is hereby advised that the plans for this construction change order (dated June 30, 1993) are available. See Note "A", this sheet.

All coating debris removed in the abrasive blast cleaning operations shall be contained and collected in accordance with the special provision 'Class I Containment and Collection of Surface Preparation Debris (Site No. 1)'.

The collected coating debris shall be sampled, tested and disposed of in accordance with the special provisions 'Disposal of Debris (Hazardous)' and 'Disposal of Debris (Contaminated)'.

**EXCEPTIONS TO ABRASIVE BLAST CLEANING OR 3-COAT PAINTING**

1. Galvanized Steel Post Tensioning Conduits: Shall receive intermediate and topcoats only after cleaning. See special provision 'Abrasive Blast Cleaning and Field Painting of Structure (Site No. 1)'.
2. Structural Steel in Contact with Drainage Supports: Shall receive primer and intermediate coats only. See details on str. shts. 13-16.
3. Fencing Mesh and D.O.T. Electrical Conduits: These shall receive intermediate and top coats only after cleaning. See special provision 'Abrasive Blast Cleaning and Field Painting of Structure (Site No. 1)'.

4. Galvanized Steel suspenders, galv. steel handrail, the galv. steel catwalk, & the fiberglass pipe shall not be painted, but shall be protected from adjacent areas being cleaned and painted.

**UTILITIES:**

A: Bridge No. 00524 carries the following utilities:

Utility	Owner
Cable TV	Comcast Cablevision of Middletown

Utilities shall not be painted, however, the structural steel utility supports, which are an integral part of the structure shall be cleaned and painted.

B: For utilities which pass under Br. No. 00524 see Str. Sht. 1

**PERMITS:** The Contractor will be required to obtain the necessary permits if he proposes to work within the Stream Channel Encroachment Lines or regulated flood plain areas. See Special Provision 'Notice to Contractor - Permits'.

Work to be completed within the navigation channel is subject to U.S. Coast Guard stipulations. See Special Provision 'Coast Guard Notification and Requirements'.

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

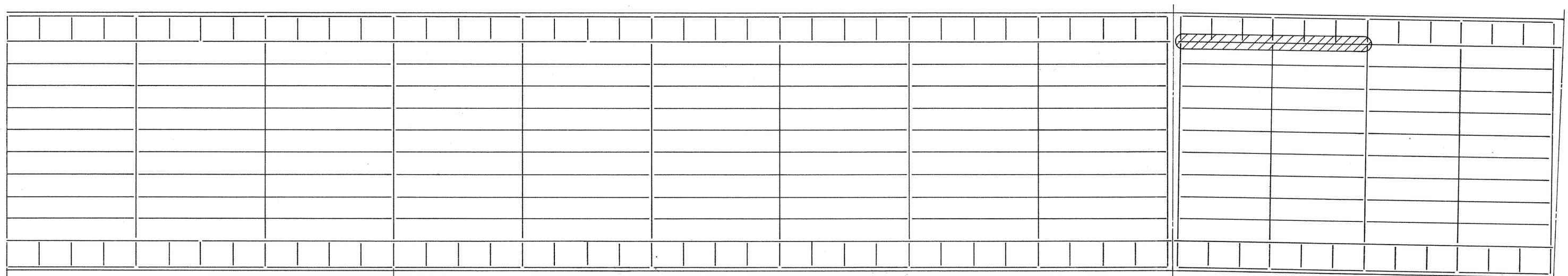
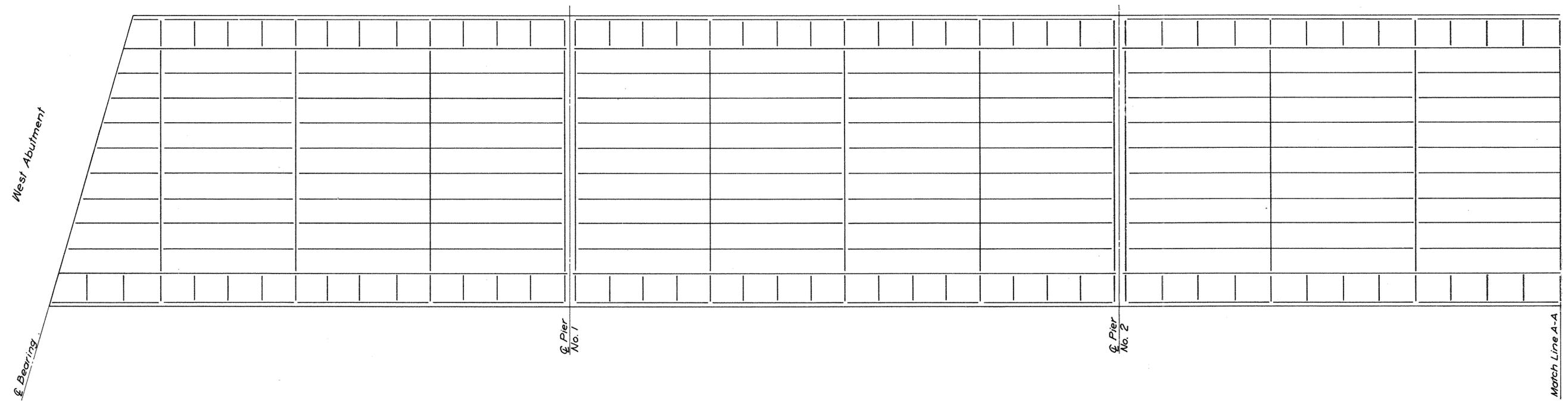
**MIDDLETOWN - PORTLAND**

**PAINTING OF**  
**ARRIGONI BRIDGE**  
**ROUTE 66 OVER THE CONNECTICUT RIVER**

**GENERAL NOTES, QUANTITIES & TYPICAL CROSS SECTIONS**

ENGINEER	BRIDGE DESIGN UNIT		
DESIGNER	RDD	DRAFTER	WSP
CHECKER	WJD		
DATE	7/28/93		
NO.	DATE	DESCRIPTION	APPROVED
			<i>[Signature]</i>
REVISIONS		STRUCTURE NO.	BRIDGE LOG NO.
			STRUCTURE SHEET NO.
			2 of 16

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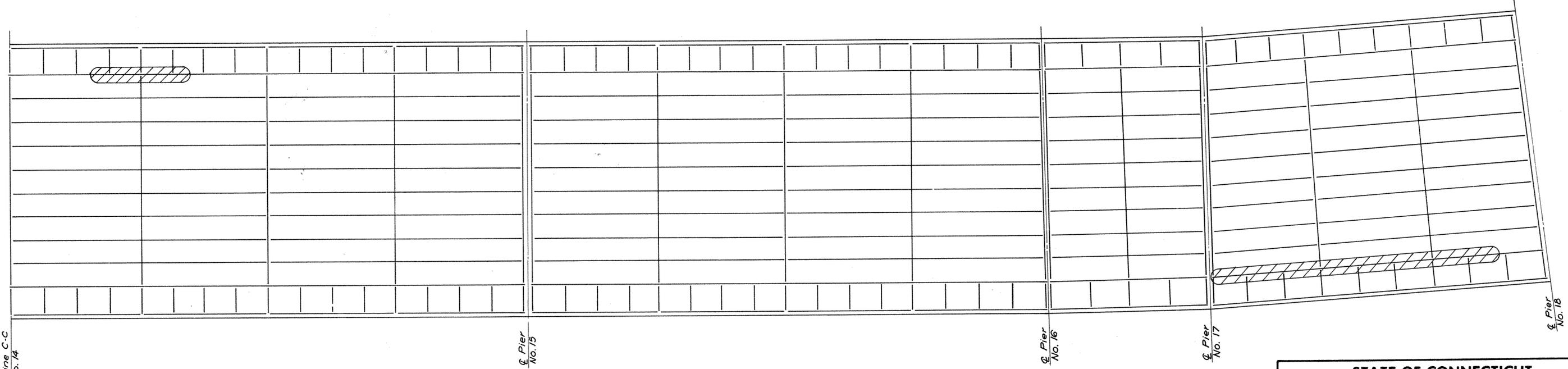
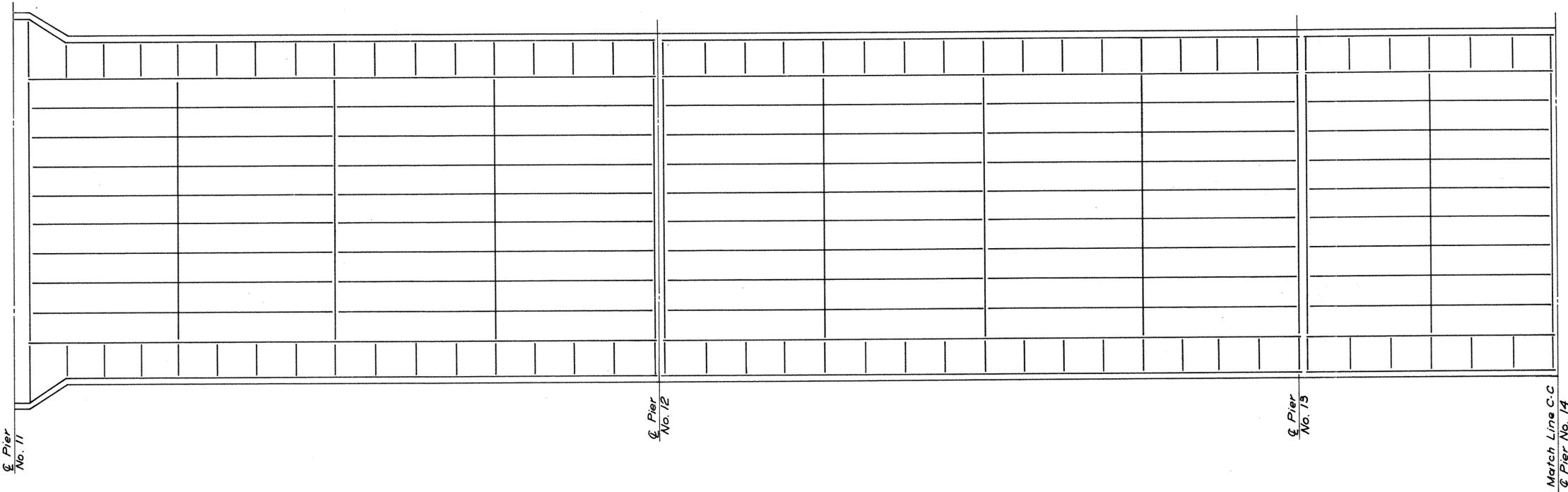


**LEGEND**

Gap to be filled between deck and Girder or Stringer.

**FRAMING PLAN**  
SCALE: 3/32" = 1'-0"

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION MIDDLETOWN - PORTLAND		
PAINTING OF ARRIGONI BRIDGE ROUTE 66 OVER THE CONNECTICUT RIVER HAUNCH REPAIRS		
ENGINEER HOWARD NEEDLES TAMMEN & BERGENDOFF		
DESIGNER K.G.D.	DRAFTER C.B.	CHECKER B.A.M.
APPROVED <i>Joseph E. Mearns</i>	DATE 7/19/93	
NO. DATE DESCRIPTION	STRUCTURE NO.	SHOULDER NO. SHEET NO.
REVISIONS	00524	3 of 16

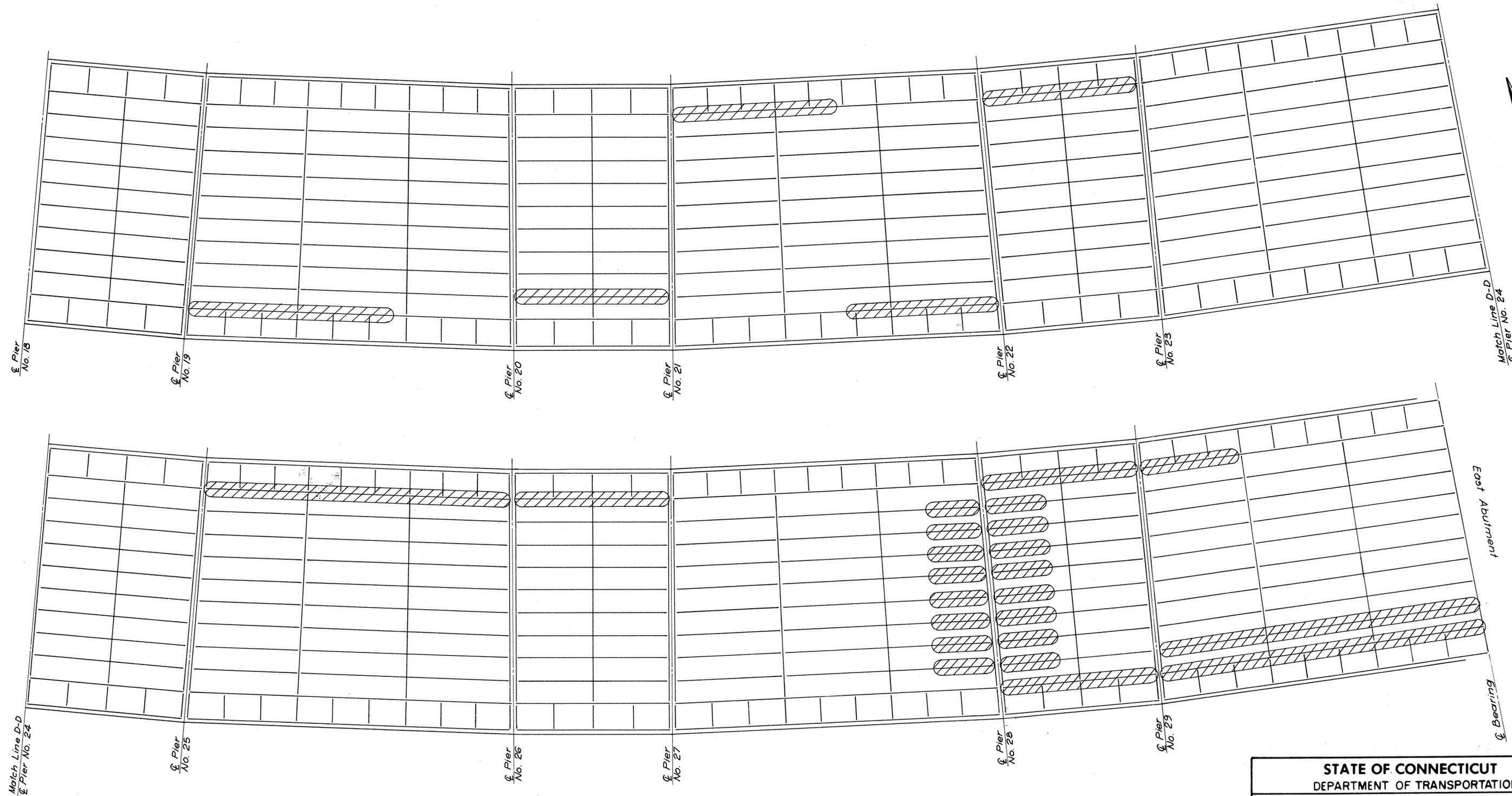


**FRAMING PLAN**  
SCALE: 3/32" = 1'-0"

**LEGEND**  
 Gap to be filled between deck and girder or stringer

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION MIDDLETOWN-PORTLAND		
PAINTING OF ARRIGONI BRIDGE ROUTE 66 OVER THE CONNECTICUT RIVER HAUNCH REPAIRS		
ENGINEER HOWARD NEEDLES TAMMEN & BERGENDOFF		
DESIGNER K.G.D.	DRAFTER C.B.	CHECKER B.A.M.
APPROVED <i>Joseph J. Merlino</i>	DATE 7/19/93	
BRIDGE LOG NO. 00524	STRUCTURE NO. 4	SHEET NO. 16

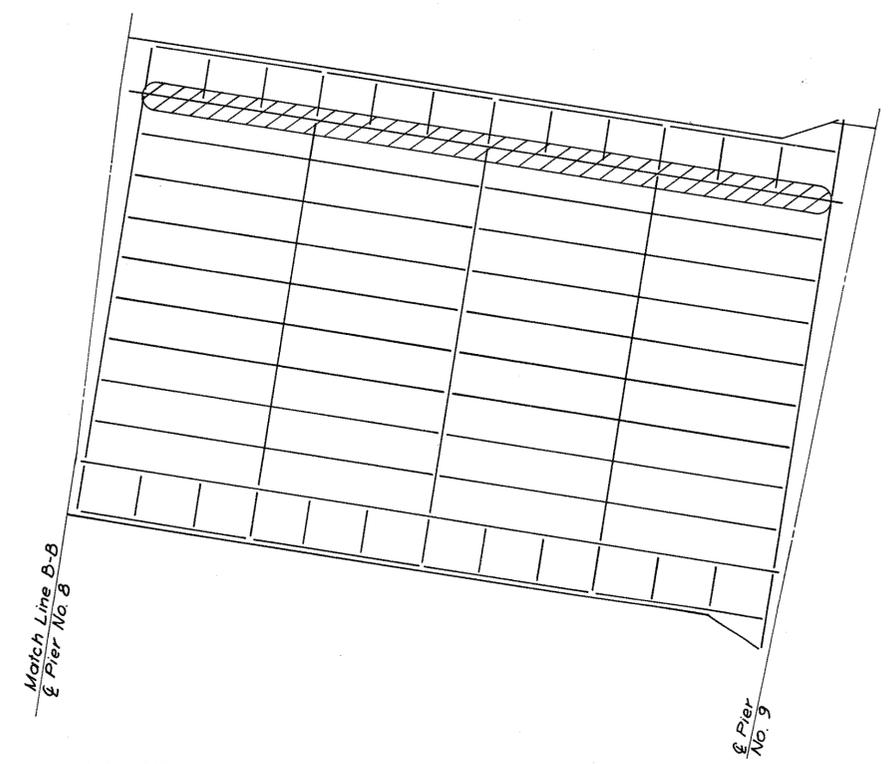
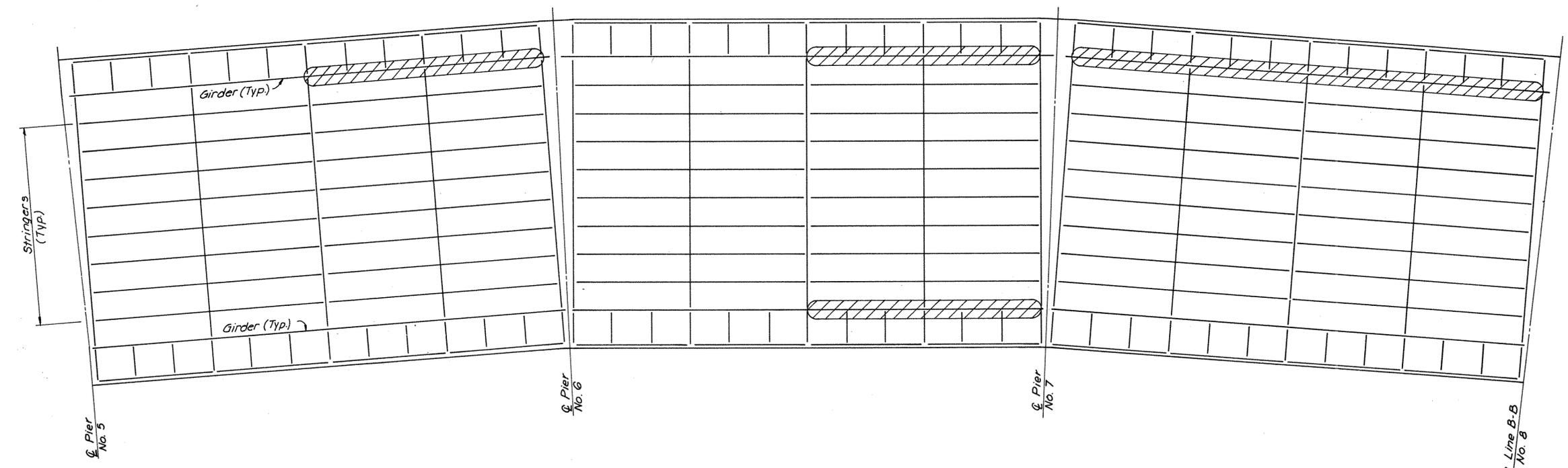
NO.	DATE	DESCRIPTION



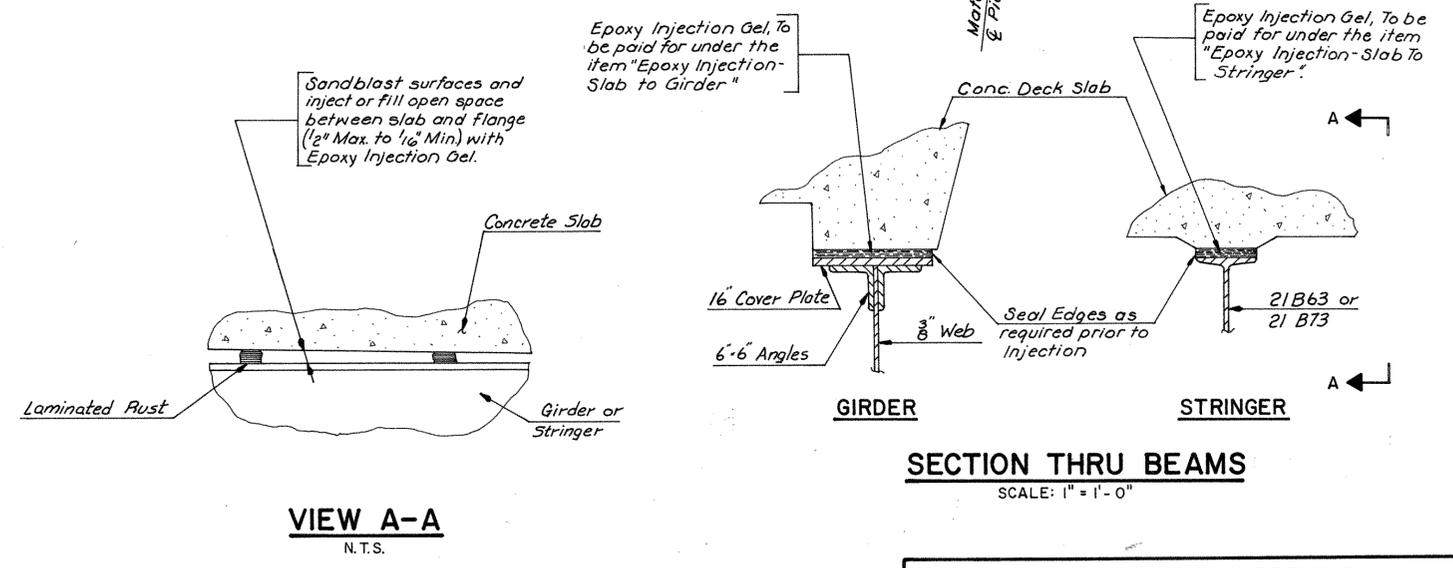
**FRAMING PLAN**  
SCALE: 3/32" = 1'-0"

**LEGEND**  
 Gap to be filled between deck and girder or stringer.

<b>STATE OF CONNECTICUT</b> DEPARTMENT OF TRANSPORTATION MIDDLETOWN-PORTLAND			
PAINTING OF <b>ARRIGONI BRIDGE</b> ROUTE 66 OVER THE CONNECTICUT RIVER HAUNCH REPAIRS			
ENGINEER HOWARD NEEDLES TAMMEN & BERGENDOFF			
DESIGNER K.G.D.	DRAFTER C.B.	CHECKER B.A.M.	
NO. DATE	DESCRIPTION	APPROVED <i>[Signature]</i>	DATE 2/19/93
REVISIONS		STRUCTURE NO.	BRIDGE LOG NO. 00524
			STRUCTURE SHEET NO. 5 of 16



**LEGEND**  
 Gap to be filled between deck and girder or stringer.



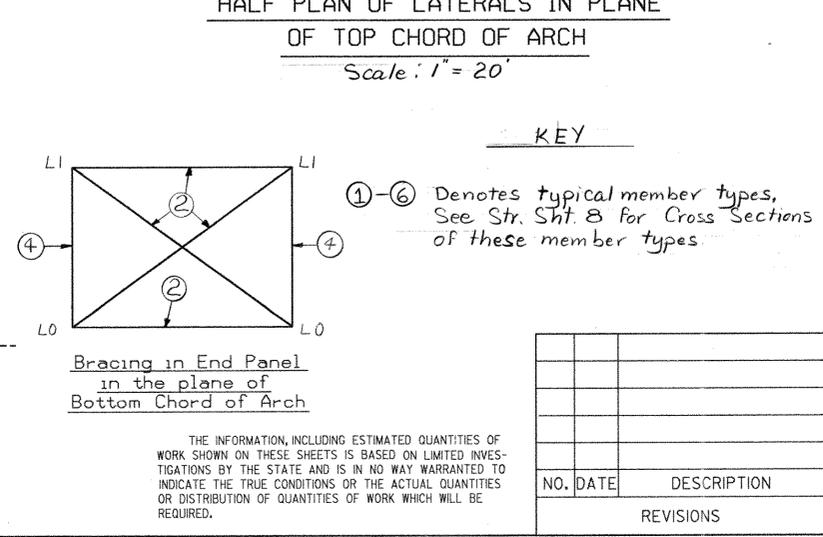
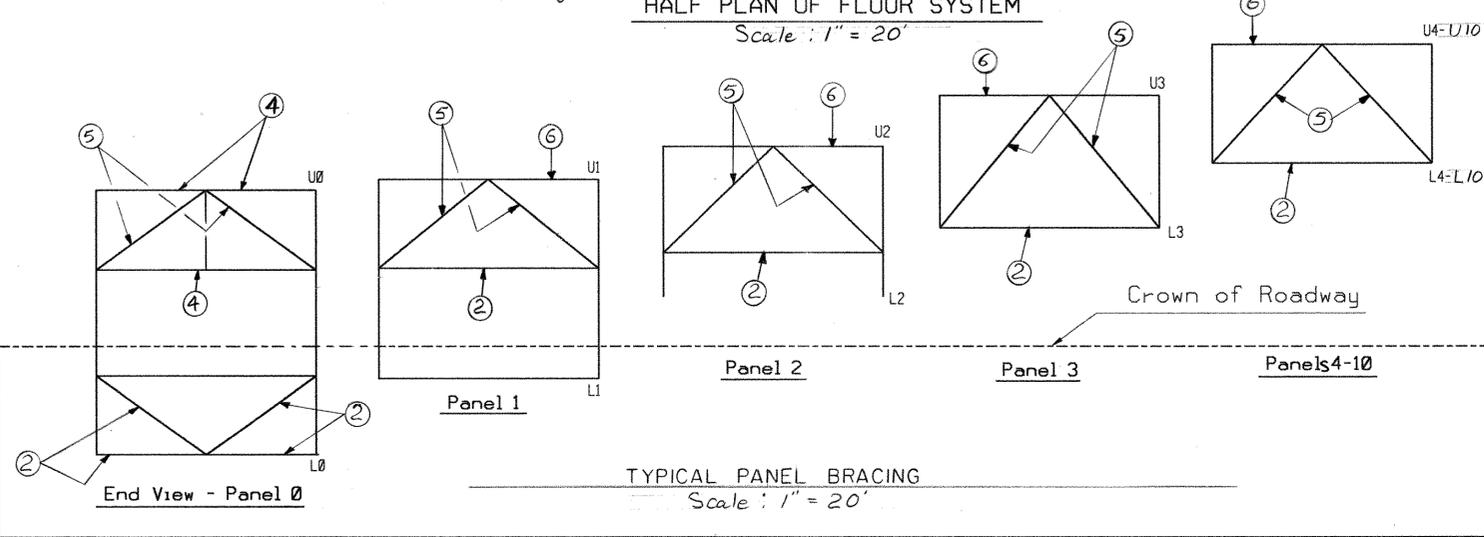
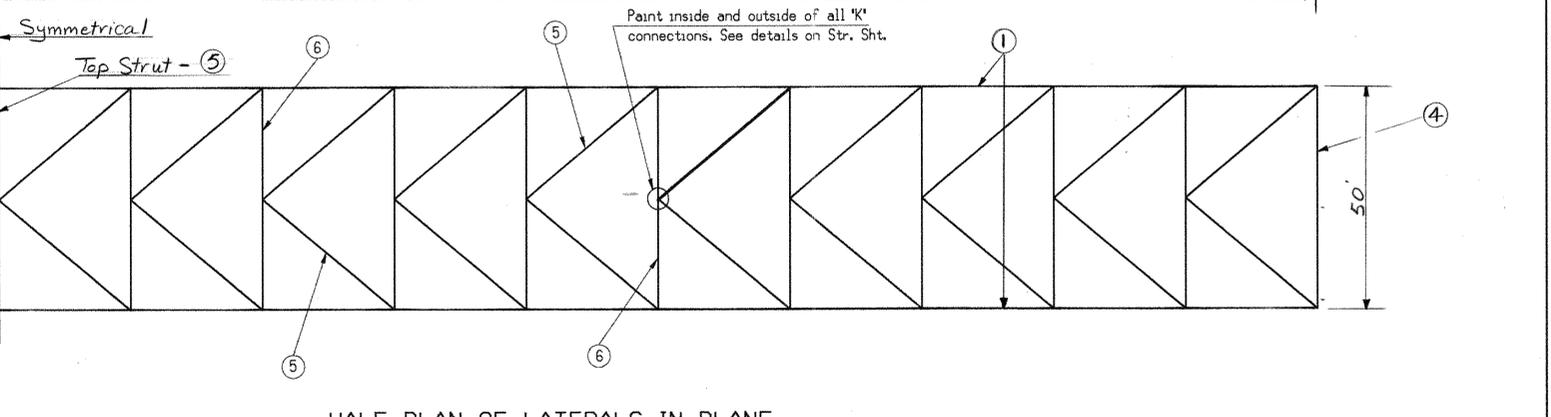
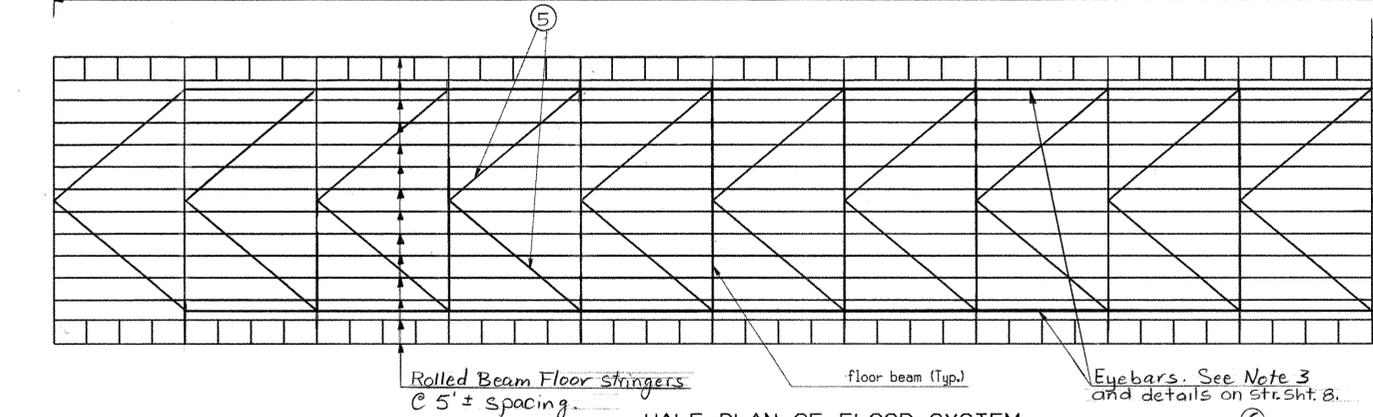
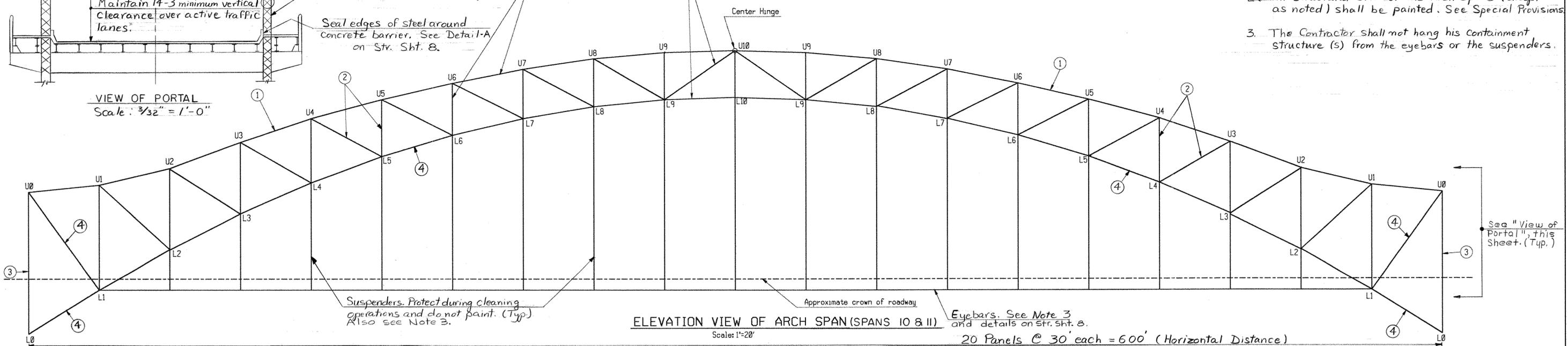
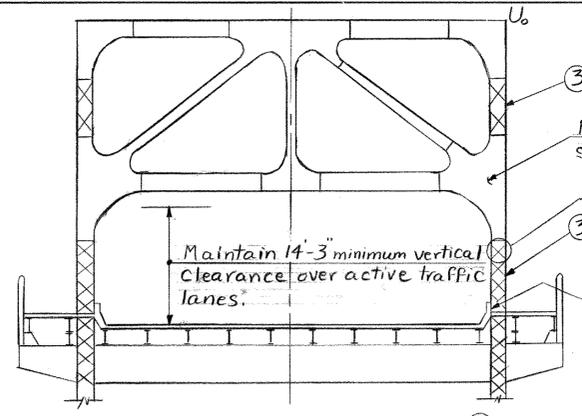
**FRAMING PLAN**  
 SCALE: 3/32" = 1'-0"

**SECTION THRU BEAMS**  
 SCALE: 1" = 1'-0"

<b>STATE OF CONNECTICUT</b>			
DEPARTMENT OF TRANSPORTATION			
MIDDLETOWN-PORTLAND			
PAINTING OF			
<b>ARRIGONI BRIDGE</b>			
ROUTE 66 OVER THE CONNECTICUT RIVER			
HAUNCH REPAIRS			
ENGINEER HOWARD NEEDLES TAMMEN & BERGENDOFF			
DESIGNER K.G.D.		DRAFTER C.B.	
CHECKER B.A.M.		DATE 7/19/93	
NO.	DATE	DESCRIPTION	APPROVED <i>Joseph J. Marotta</i>
REVISIONS		STRUCTURE NO.	00524
		BROOK LOG NO.	6 of 16

**NOTES**

1. This sheet is provided for the Contractor's reference and information only, and is in no way intended to show all the structural steel of the arch spans.
2. All structural steel of the Arch Spans (except as noted) shall be painted. See Special Provisions
3. The Contractor shall not hang his containment structure (5) from the eyebars or the suspenders.



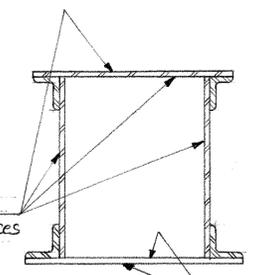
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STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION			
MIDDLETOWN - PORTLAND			
PAINTING OF ARRIGONI BRIDGE			
ROUTE 66 OVER THE CONNECTICUT RIVER			
SCHEMATIC STEEL FRAMING OF TYP. ARCH SPAN			
ENGINEER	BRIDGE DESIGN UNIT		
DESIGNER	RDD	DRAFTER	ASH
CHECKER	WJD		
APPROVED	<i>Paul D. Barton</i>		DATE 7/28/93
NO. DATE	DESCRIPTION	BRIDGE LOG NO.	STRUCTURE SHEET NO.
	REVISIONS		7 of 16

**NOTES**

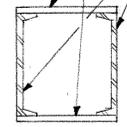
1. A.B.C. = Abrasive Blast Clean.
2. The details on this sheet are intended for illustrative purposes only and the actual dimensions of members may vary.
3. For locations of Member Types ① thru ⑥, see Str. Sht. 7.

A.B.C. and paint all internal and external surfaces of steel.



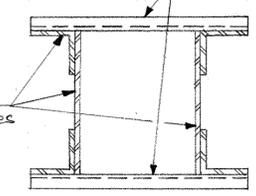
SECTION THRU TYPE ① MEMBER  
SCALE 3/4" = 1'-0"

A.B.C. and paint all surfaces of lacing.  
 A.B.C. and paint all internal and external surfaces of steel.



SECTION THRU TYPE ② MEMBER  
SCALE 3/4" = 1'-0"

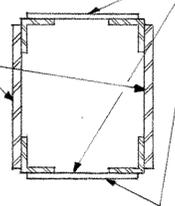
A.B.C. and paint all surfaces of lacing.



SECTION THRU TYPE ③ MEMBER  
SCALE 3/4" = 1'-0"

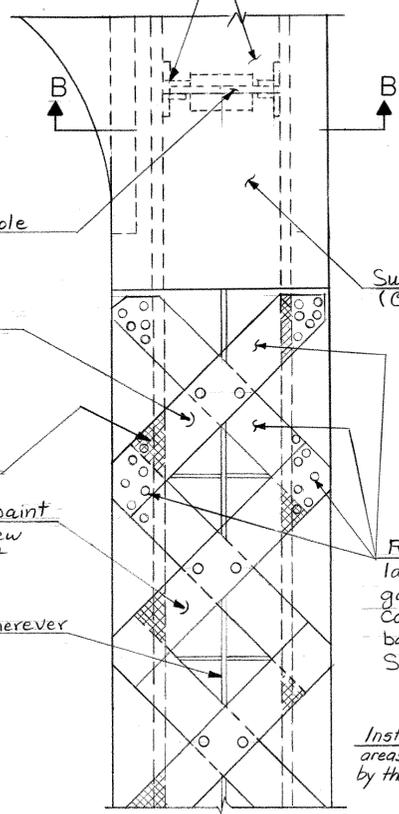
A.B.C. and paint all internal and external surfaces of steel.

A.B.C. and paint all internal and external surfaces of steel.



SECTION THRU TYPE ④ MEMBER  
SCALE 3/4" = 1'-0"

A.B.C. and paint all internal surfaces of column.



Original Lacing Member: A.B.C. and paint all surfaces (both internal and external).

Newly Installed Lacing Member: A.B.C. and paint all surfaces (both internal and external). (New lacing was previously installed under project No. 82-223).

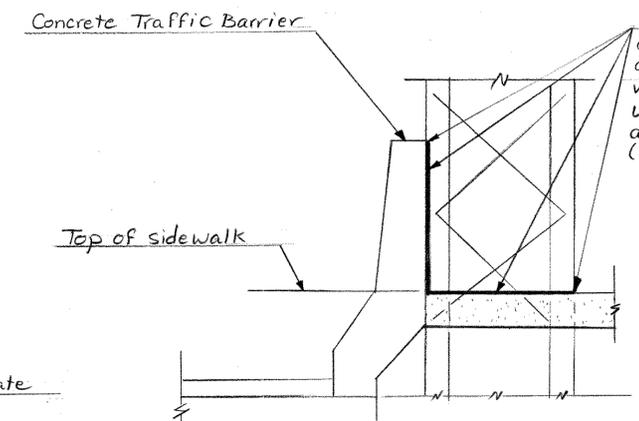
A.B.C. and paint steel rods inside lacing wherever present.

See Note (A)

Remove existing rivets and lacing bars if necessary to gain access to inside of column. Reinstall lacing bars with 7/8" φ H.S. Bolts. See Special Provisions.

Install Bird Netting at open areas of pinbox as ordered by the Engineer.

Clean out debris inside pinbox and paint as ordered by the Engineer.

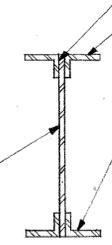


DETAIL - A  
SCALE 3/4" = 1'-0"

A.B.C. to remove rust along perimeter of joints between concrete and steel, and apply paint. Then seal joints with silicone all around. Paid for under item "Abrasive Blast Cleaning and Field Painting of Structure (site No. 1)". (Typical @ 8 locations).

Note: See "View of Portal" on Str. Sht. 7, for typical location of Detail "A"

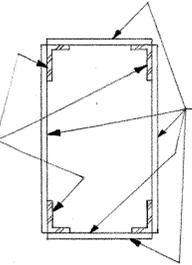
A.B.C. and paint all surfaces of lacing.



SECTION THRU TYPE ⑤ MEMBER  
SCALE 3/4" = 1'-0"

A.B.C. and paint all surfaces of angles.

A.B.C. and paint all internal and external surfaces of steel.

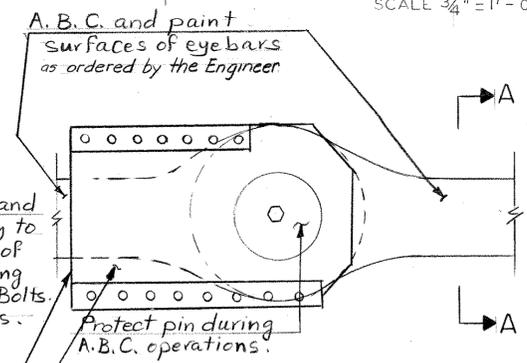


SECTION THRU TYPE ⑥ MEMBER  
SCALE 3/4" = 1'-0"

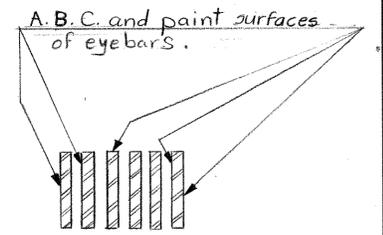
A.B.C. and paint all surfaces of lacing.

**NOTES FOR PAINTING OF LACING**  
(See Detail "B")

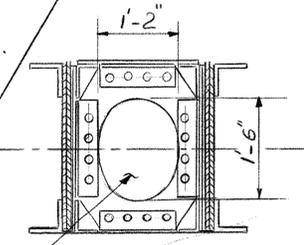
- (A) [Cross-hatched symbol]: This denotes surfaces located between the lacing and a structural member - to be abrasive blast cleaned and painted. (Typical of all lacing on all members in this Project).
- (B) Note that the lacing shown is illustrative only, the dimensions are not typical of all lacing in all locations.



ELEVATION VIEW OF EYEBARS  
SCALE 3/4" = 1'-0"



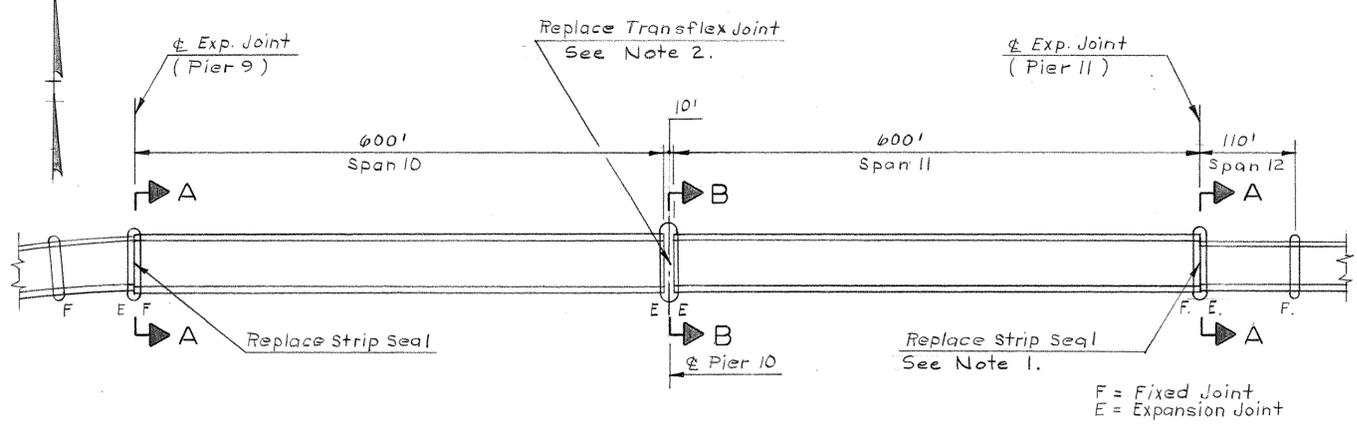
SECTION A - A  
SCALE 3/4" = 1'-0"



SECTION B - B  
SCALE 3/4" = 1'-0"

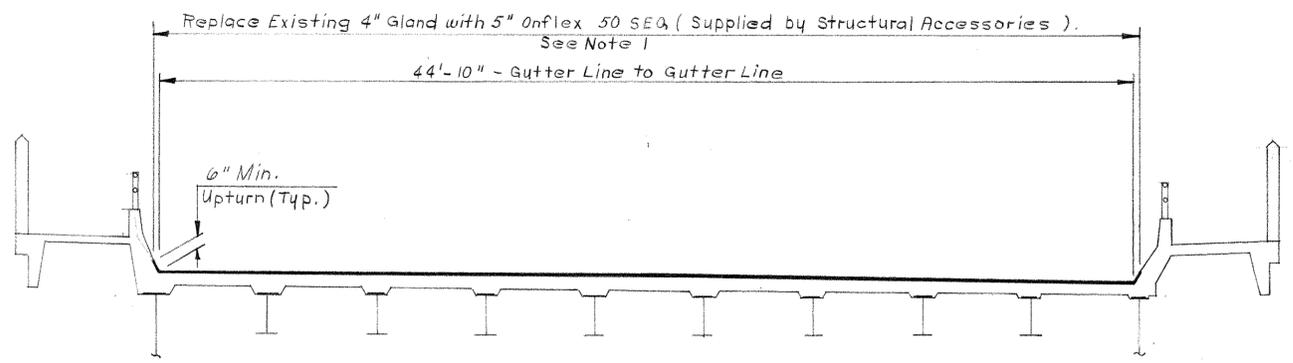
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STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION			
MIDDLETOWN		- PORTLAND	
PAINTING OF ARRIGONI BRIDGE			
ROUTE 66 OVER THE CONNECTICUT RIVER			
MEMB. SECTIONS ( SPANS 10 & 11 ) & MISC. DET'L'S.			
ENGINEER BRIDGE DESIGN UNIT			
DESIGNER	RDD	DRAFTER	RG/ASH
CHECKER	WJD		
NO.	DATE	DESCRIPTION	APPROVED
			DATE 7/25/93
REVISIONS		STRUCTURE NO.	BRIDGE LOG NO. STRUCTURE SHEET NO.
			8 of 16

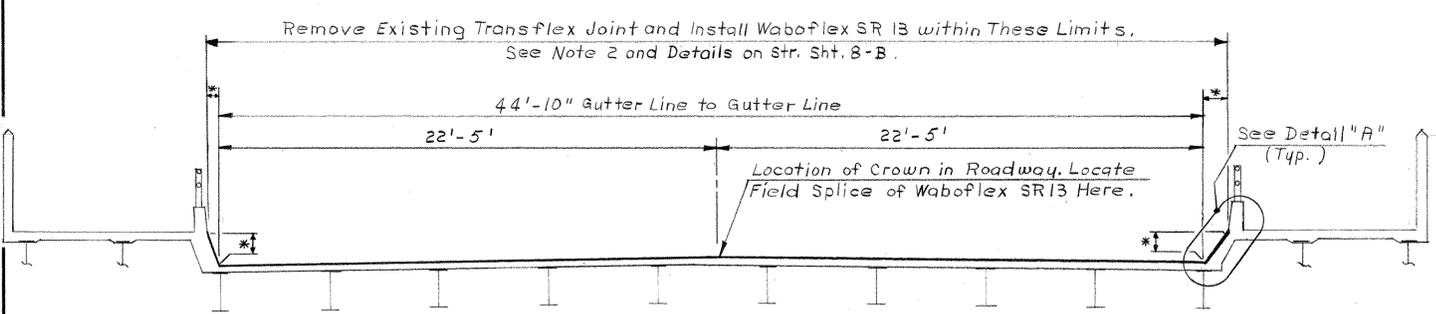


**PLAN: ARRIGONI BRIDGE**  
SCALE 1" = 100'

- NOTES**
1. Replacement of neoprene strip seal glands shall be paid for under item "Replace Bridge Joint Gland".
  2. Replacement of the Transflex Joint shall be paid for under item "Prefabricated Expansion Joint (Movement Capacity 13")".
  3. The Contractor's shop drawing shall include curb details of the new Waboflex SR13 Joint.
  4. The Waboflex SR13 Joint shall only be installed when the ambient temperature is between 30°F and 70°F.

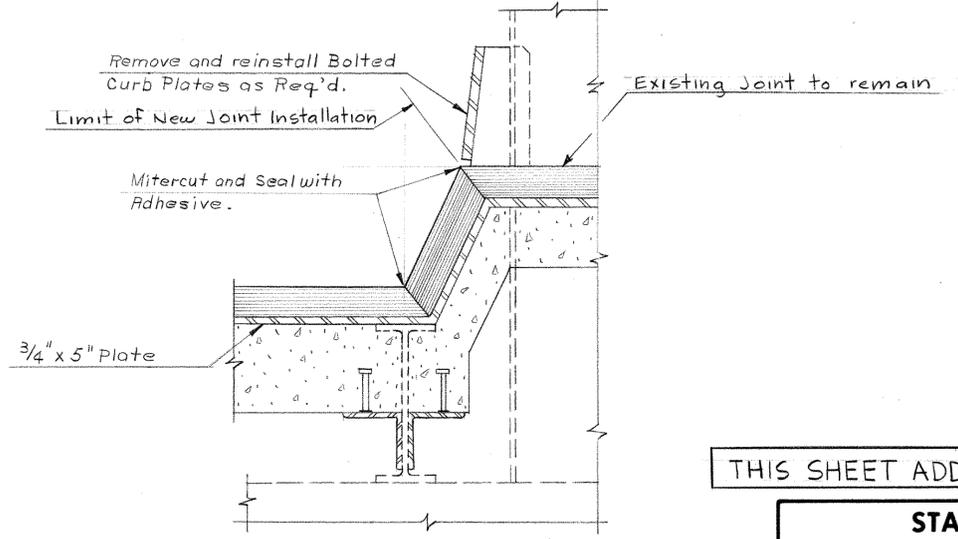


**SECTION A - A**  
SCALE 1/4" = 1'-0"



**SECTION B - B**  
SCALE 1/4" = 1'-0"

\*The Contractor shall field measure the curb dimensions prior to joint fabrication.



**DETAIL "A"**  
SCALE 1" = 1'-0"

THIS SHEET ADDED APRIL, 1995

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**  
MIDDLETOWN - PORTLAND

PAINTING OF  
ARRIGONI BRIDGE

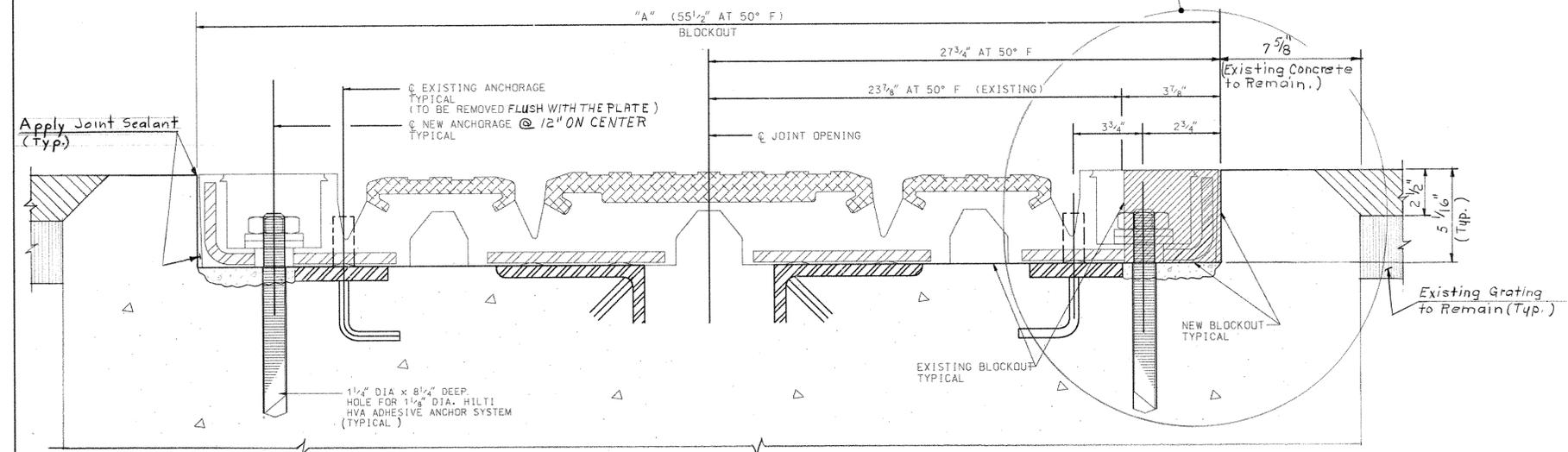
ROUTE 66 OVER THE CONNECTICUT RIVER

BRIDGE EXPANSION JOINT AT PIERS 9, 10 & 11

ENGINEER BRIDGE DESIGN UNIT	
DESIGNER A.S.H.	CHECKER RDD
DRAFTER Rg	DATE 4/17/95
APPROVED [Signature]	BRIDGE LOG NO. STRUCTURE SHEET NO.
NO. DATE	DESCRIPTION
REVISIONS	STRUCTURE NO. 8-A of 16

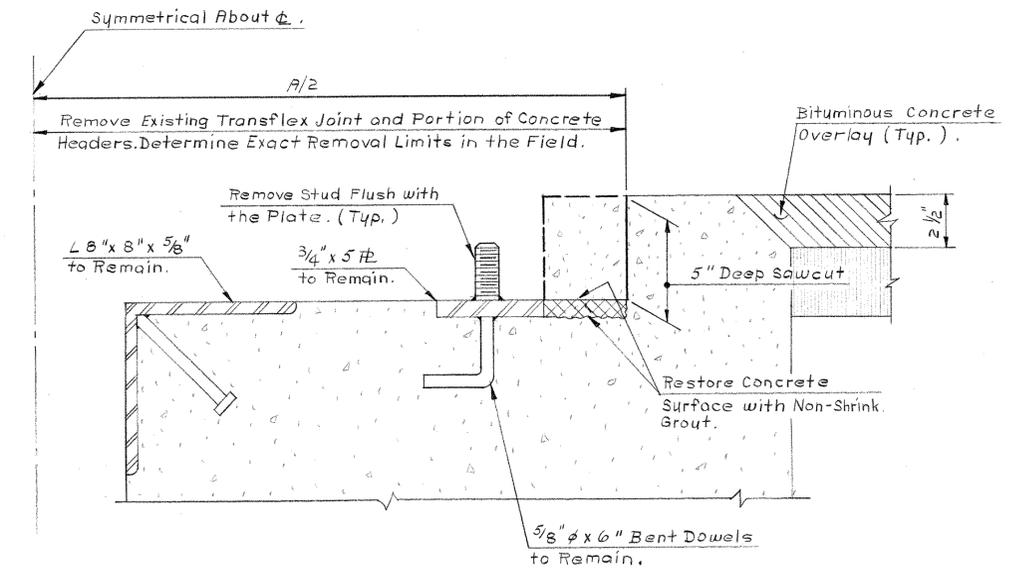
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

See Detail "B" for Typical Removal Details.



LENGTH OF DIMENSION "A"				
30°F	40°F	50°F	60°F	70°F
57.38"	56.44"	55.5"	54.5"	53.61"

FINAL CONDITION  
BRIDGE EXPANSION JOINT  
WABOFLEX MODEL SR 13  
Scale: 3" = 1'-0"



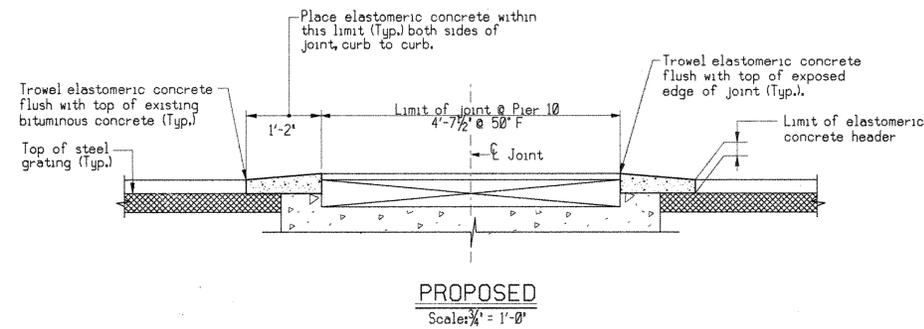
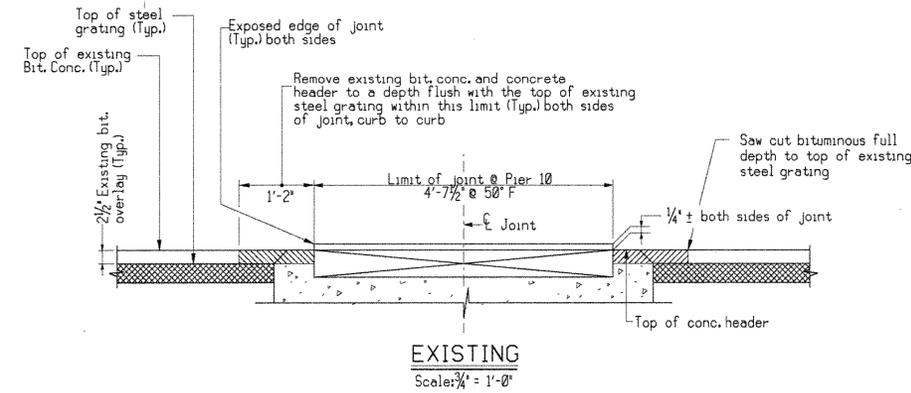
DETAIL "B"  
REMOVAL OF EXISTING TRANFLEX  
MODEL 1300 JOINT AT PIER 10  
SCALE 3" = 1'-0"

THIS SHEET ADDED APRIL, 1995

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		
MIDDLETOWN - PORTLAND		
PAINTING OF ARIGONI BRIDGE		
ROUTE 66 OVER THE CONNECTICUT RIVER		
BRIDGE EXPANSION JOINT AT PIER 10		
ENGINEER BRIDGE DESIGN UNIT		
DESIGNER ASH	DRAFTER RLG	CHECKER RDD
APPROVED <i>Alvin D. Banton</i>	DATE 4/17/95	
NO. DATE	DESCRIPTION	REVISIONS
STRUCTURE NO.	BRIDGE LOG NO.	STRUCTURE SHEET NO.
		8-B of 16

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR THE ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Note:  
This change order detail was added to protect the Waboflex Model SR 13 which is protruding approximately 1/4" above the existing header.



- New elastomeric concrete header (14' wide)
  - Existing Steel Grating  
 - Existing bituminous concrete and concrete header to be removed

**INSTALLATION OF ELASTOMERIC CONCRETE HEADER  
AT PIER 10, BR. NO. 00524**

THIS SHEET ADDED 9/96

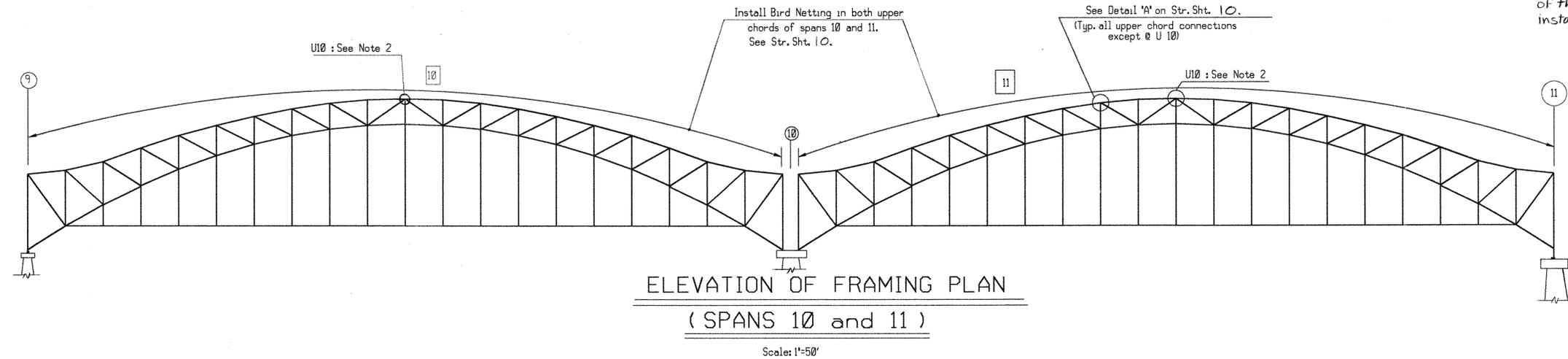
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION			
MIDDLETOWN - PORTLAND			
PAINTING OF ARIGONI BRIDGE ROUTE 66 OVER THE CONNECTICUT RIVER			
INSTALLATION OF ELASTOMERIC CONCRETE HEADER AT PIER 10, BR. NO. 00524			
ENGINEER		BRIDGE DESIGN UNIT	
DESIGNER	BRB	DRAFTER	BRB
CHECKER	RDD	DATE 7/3/96	
NO.	DATE	DESCRIPTION	APPROVED <i>[Signature]</i>
REVISIONS		STRUCTURE NO.	BRIDGE LOC. NO. STRUCTURE SHEET NO. 8-C of 16

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR THE ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

F.H.W.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN	MIDDLETOWN	BHF-22(13)	82-252	1993	66	11	22

**NOTES**

1. Cost of furnishing and installing bird netting to be paid for under item "Netting".
2. At U10 (on the top chords), the Contractor shall examine the situation in the field and make specific recommendations for a best installation of the bird netting. Subject to final approval of the Engineer, the bird netting will then be installed in accordance with these recommendations.

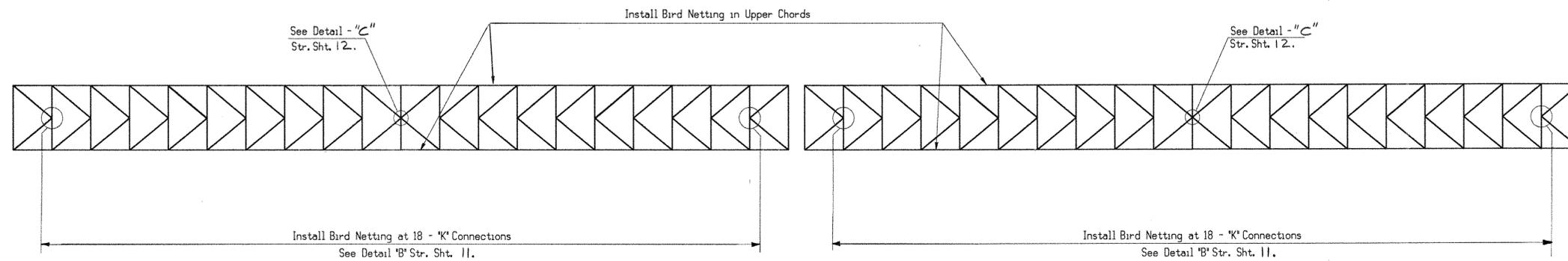


**ELEVATION OF FRAMING PLAN  
( SPANS 10 and 11 )**

Scale: 1"=50'

**KEY**

- 10 11 = Denote Span Numbers.  
 9 10 11 = Denote Pier Numbers.



**TOP VIEW OF FRAMING PLAN ( SPANS 10 & 11 )**

Scale: 1"=50'

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION			
MIDDLETOWN - PORTLAND			
PAINTING OF ARRIGONI BRIDGE ROUTE 66 OVER THE CONNECTICUT RIVER			
LOCATIONS OF BIRD NETTING			
ENGINEER		BRIDGE DESIGN UNIT	
DESIGNER	RDD	DRAFTER	ASH
CHECKER	WJD	DATE 7/25/93	
NO. DATE	DESCRIPTION	APPROVED	DATE
REVISIONS		STRUCTURE NO.	BRIDGE LOG NO.
		STRUCTURE SHEET NO. 9 of 16	

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NOTES

1. Materials

Netting: Netting shall be heavy-duty polyethylene or polypropylene with a maximum mesh size of 1-1/8" square.

Tensioned wires and clips: Shall be stainless steel.

2. Attachment of Netting to Tensioned Wire

Netting shall be installed taut and flat between the tensioned wires and held in place by clips. Spacing of clips shall be approximately 2' max.

3. Corners of Netting

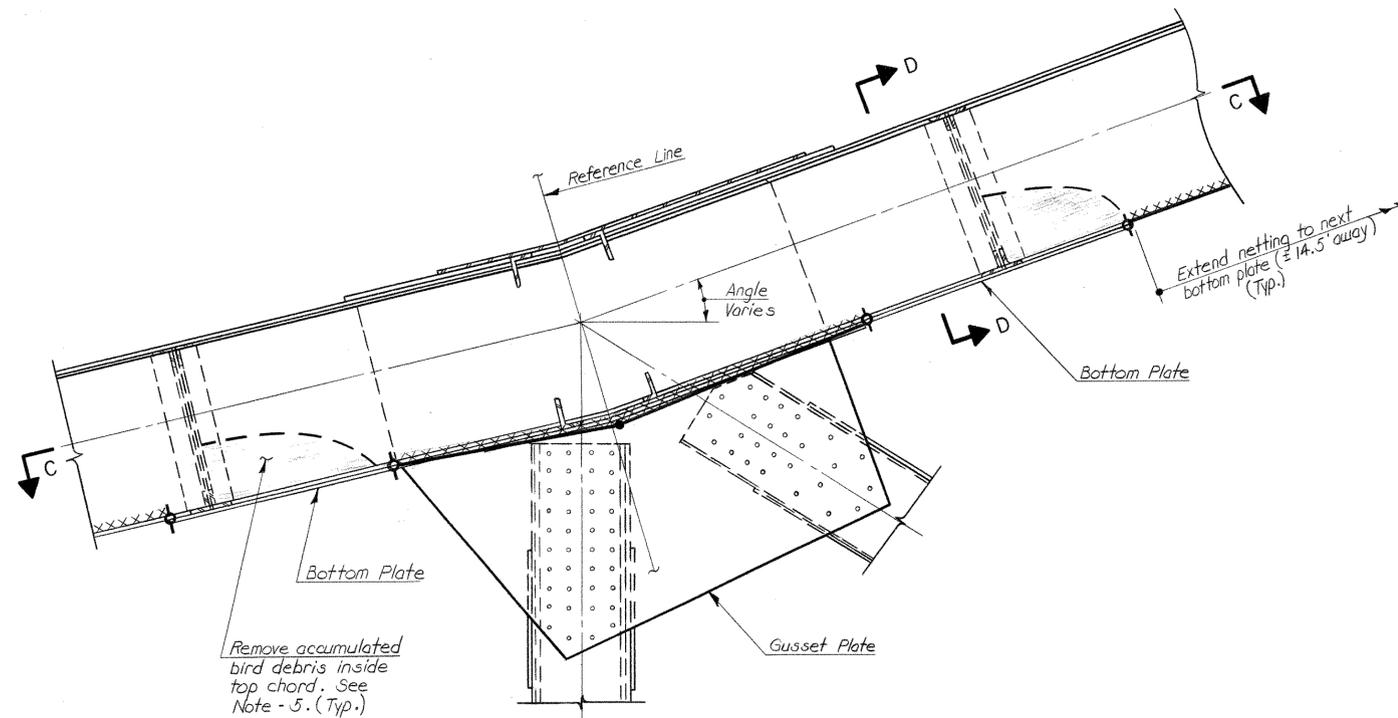
Special care shall be taken to seal corners of the netting.

4. Size of Field Drilled Holes for Tensioned Wires

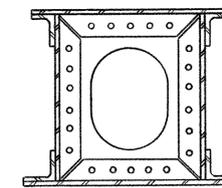
Size of holes shall be as recommended by the Installer, but in general will be approximately 1/16". In no case shall hole diam. exceed 1/4". Cost of drilling holes for tensioned wires to be included under item "Netting".

5. Removal of Bird Debris

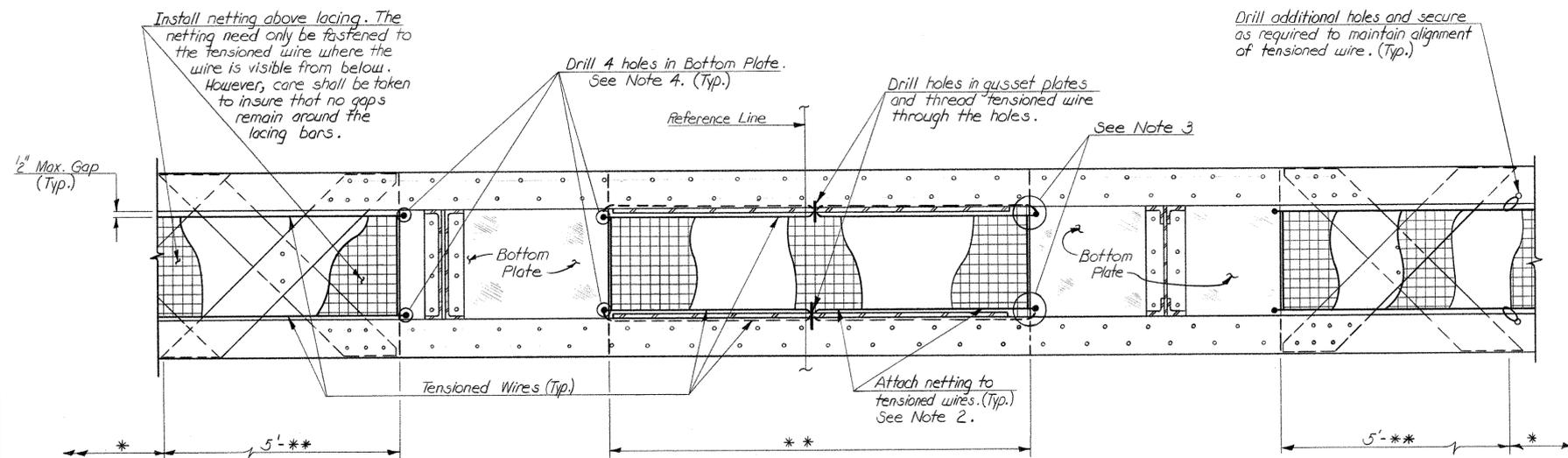
Prior to painting, all bird debris shall be removed in accordance with item "Abrasive Blast Cleaning and Field Painting of Structure (Site No. 1)".



DETAIL "A"  
ELEVATION VIEW OF TYPICAL UPPER CHORD JOINT  
Scale: 3/4" = 1'-0"



SECTION D - D  
Scale: 3/4" = 1'-0"

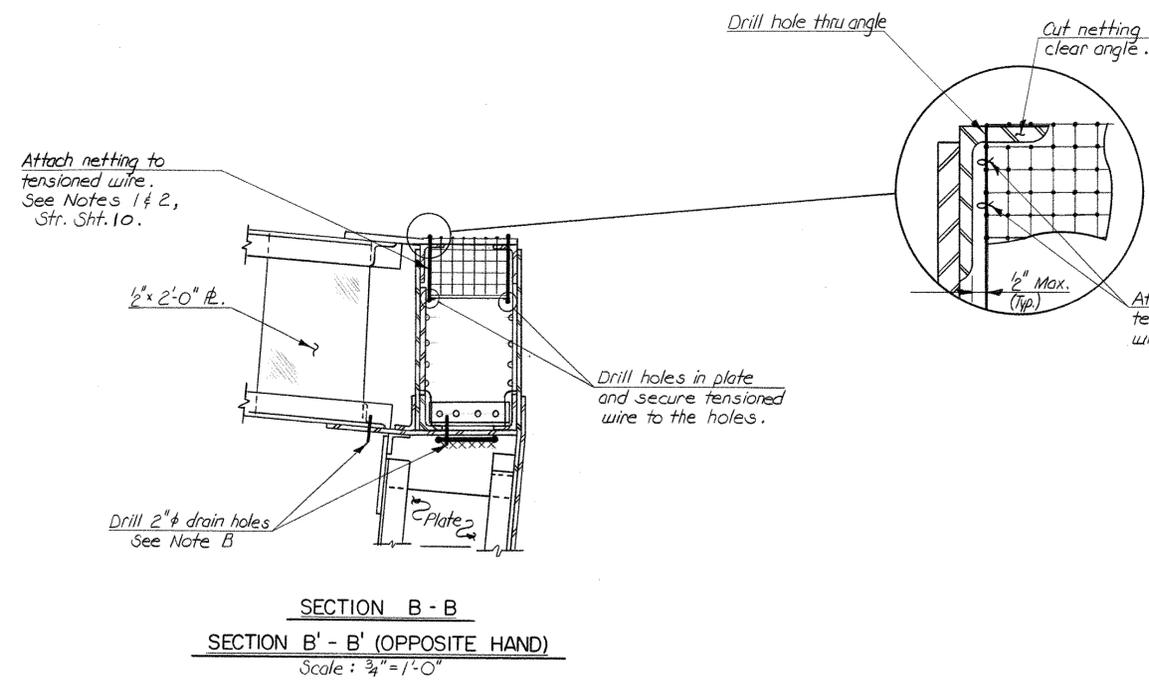
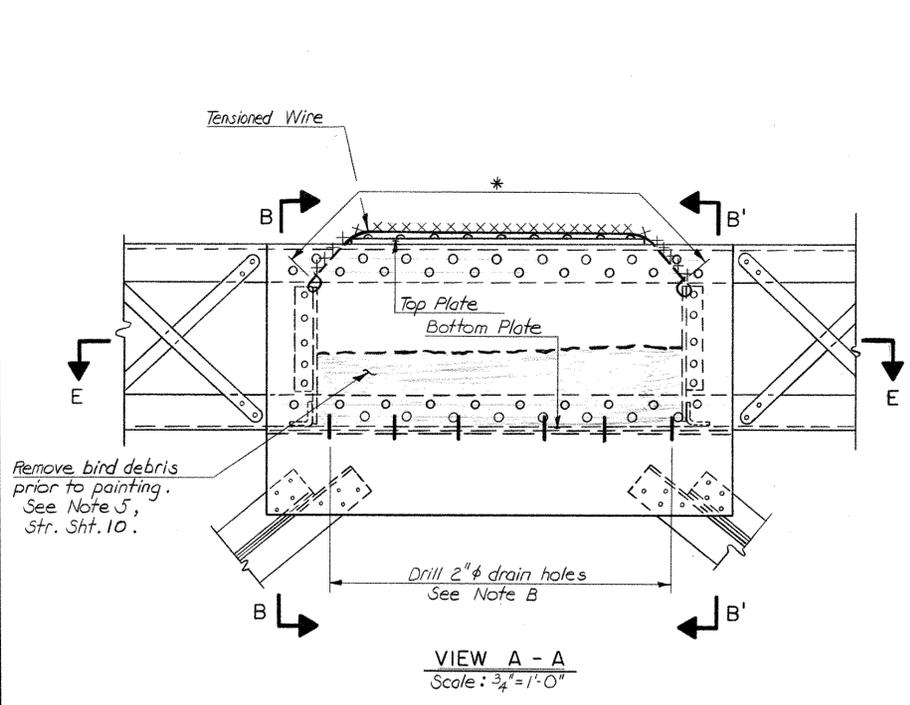


SECTION C - C  
Scale: 3/4" = 1'-0"

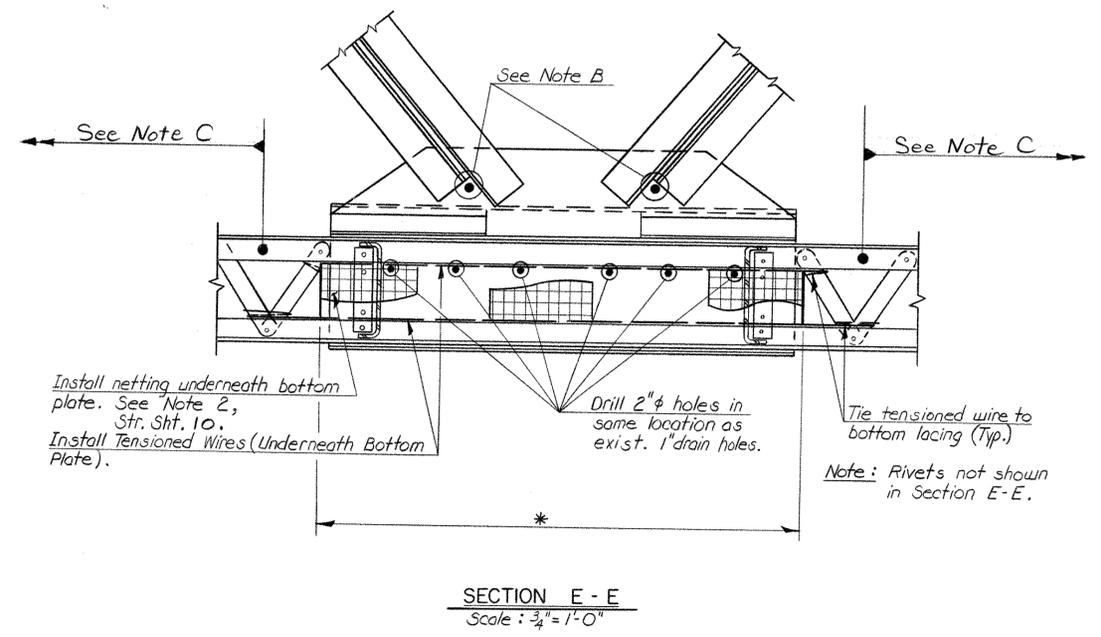
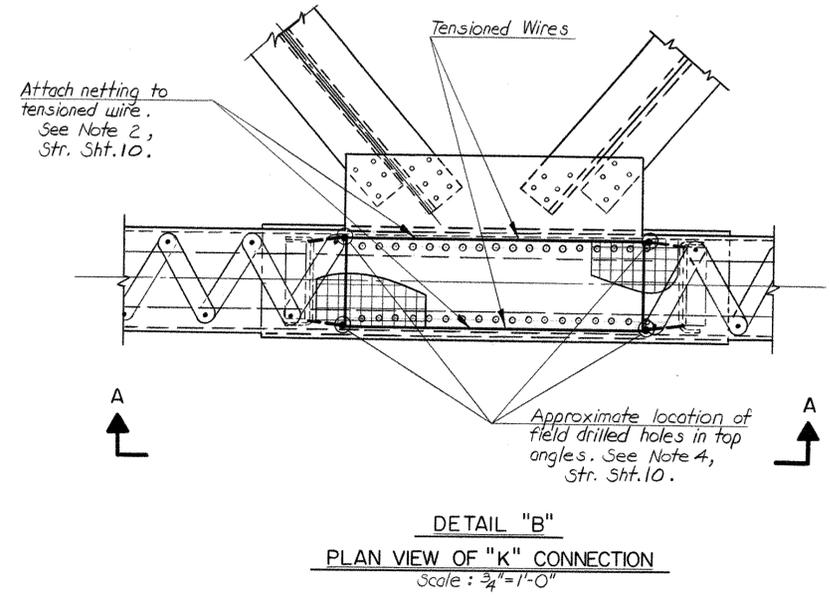
- \* - Within the limits indicated by this symbol, the netting shall be attached to the tensioned wire by non-removable clips.
- \*\* - Within the limits indicated by this symbol, the netting shall be attached to the tensioned wire by removable (and replaceable) clips. This is to allow future access by D.O.T. inspection personnel.

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION MIDDLETOWN - PORTLAND			
PAINTING OF ARRIGONI BRIDGE ROUTE 66 OVER THE CONNECTICUT RIVER			
DETAILS OF BIRD NETTING - I			
ENGINEER	BRIDGE DESIGN UNIT		
DESIGNER	RDD	DRAFTER	JJC
CHECKER	WJD		
APPROVED	<i>[Signature]</i>		DATE 7/25/93
NO.	DATE	DESCRIPTION	REVISIONS
STRUCTURE NO.		BRIDGE LOG NO.	STRUCTURE SHEET NO. 10 of 16

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- Notes:
- A) For location of "K" connections see str. sht. 9.
  - B) The Contractor shall drill 2" dia. holes in the lower gusset plate. Paid for under item "Field Drilled Holes".
  - C) The Contractor shall drill 1" dia. holes in the lower angle at a 5" spacing to the truss columns. Paid for under "Field Drilled Holes".
- Lower Angle. Drill here



\* - Within the limits indicated by this symbol, the netting shall be attached to the tensioned wire by non-removable clips.

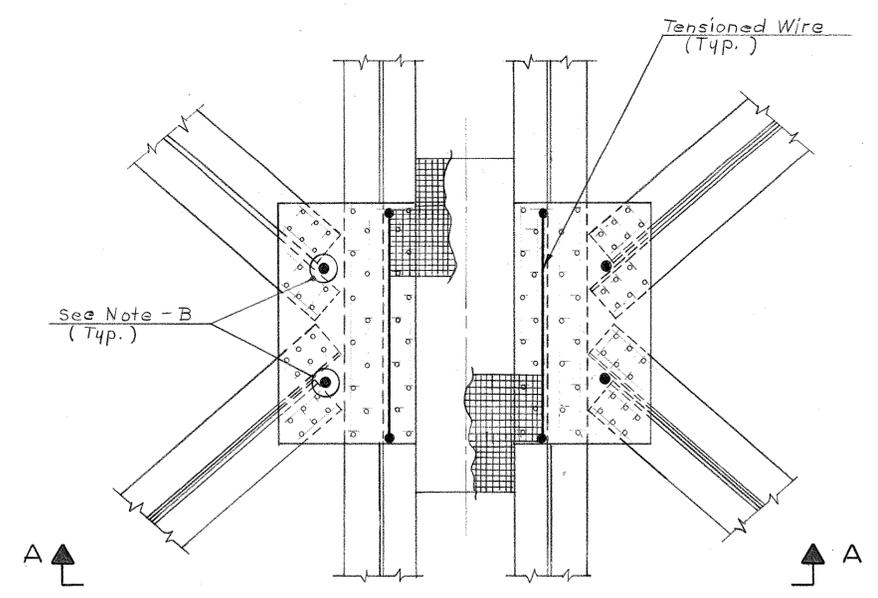
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

STATE OF CONNECTICUT  
 DEPARTMENT OF TRANSPORTATION  
 MIDDLETOWN - PORTLAND  
 PAINTING OF  
 ARRIGONI BRIDGE  
 ROUTE 66 OVER THE CONNECTICUT RIVER  
 DETAILS OF BIRD NETTING - 2

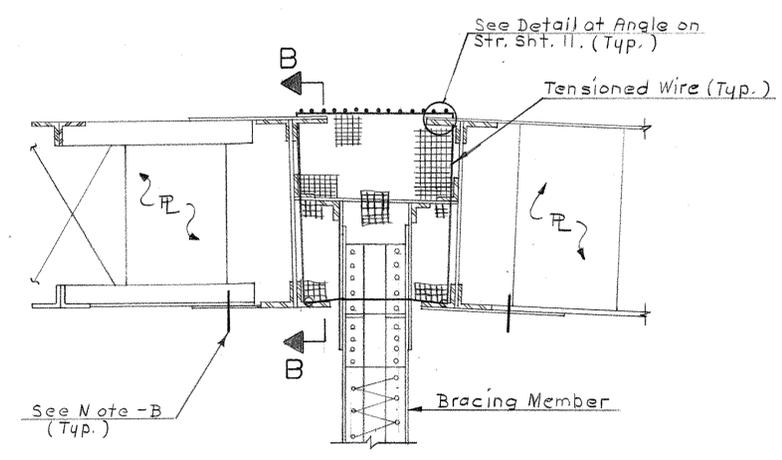
ENGINEER	BRIDGE DESIGN UNIT		
DESIGNER	RDD	DRAFTER	JJC
CHECKER	WJD		
APPROVED	<i>[Signature]</i>		DATE 7/25/92
NO.	DATE	DESCRIPTION	BRIDGE LOG NO. STRUCTURE SHEET NO.
		REVISIONS	11 of 16

**NOTES**

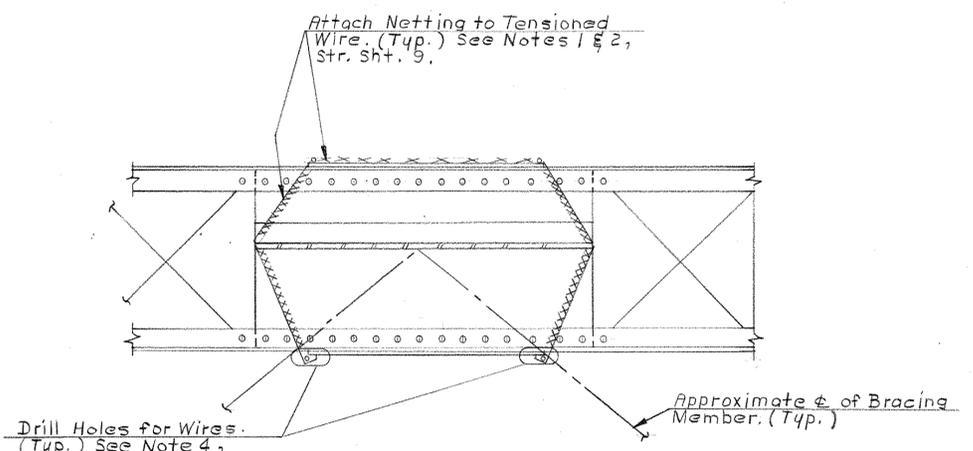
- A. For location of these details see Str. Sht. 9.
- B. The Contractor shall drill 2" dia. holes in the lower gusset plates. Paid for under item "Field Drilled Holes".
- C. Use non-removable clips at this location.



**DETAIL "C"**  
**PLAN VIEW OF CENTER STRUT AT UIO.**  
 SCALE 3/4" = 1'-0"



**VIEW A - A**  
 SCALE 3/4" = 1'-0"



**SECTION B - B**  
 SCALE 3/4" = 1'-0"

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**  
 MIDDLETOWN - PORTLAND

PAINTING OF  
 ARRIGONI BRIDGE

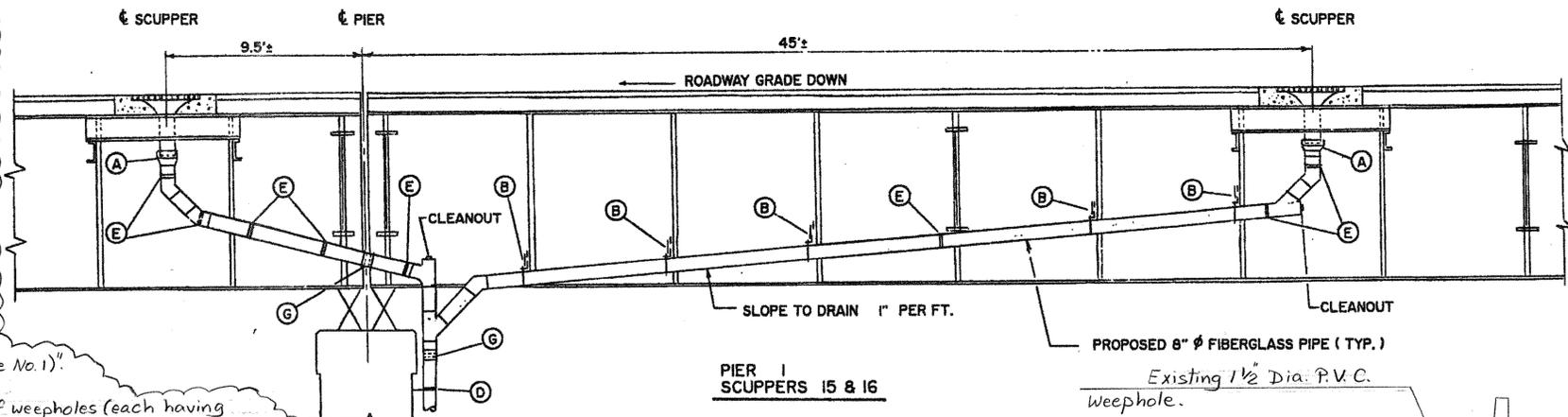
ROUTE 66 OVER THE CONNECTICUT RIVER

DETAILS OF BIRD NETTING - 3

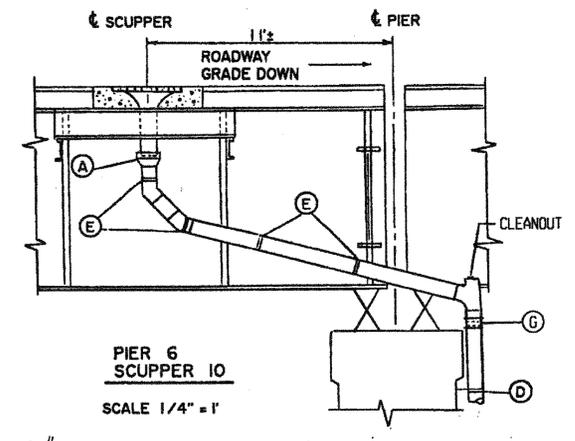
ENGINEER BRIDGE DESIGN UNIT	
DESIGNER R.D.D.	CHECKER WSD
DRAFTER R.G.	DATE 7/29/93
APPROVED [Signature]	
NO. DATE	DESCRIPTION
	REVISIONS
STRUCTURE NO.	BRIDGE LOG NO. STRUCTURE SHEET NO.
	12 of 16

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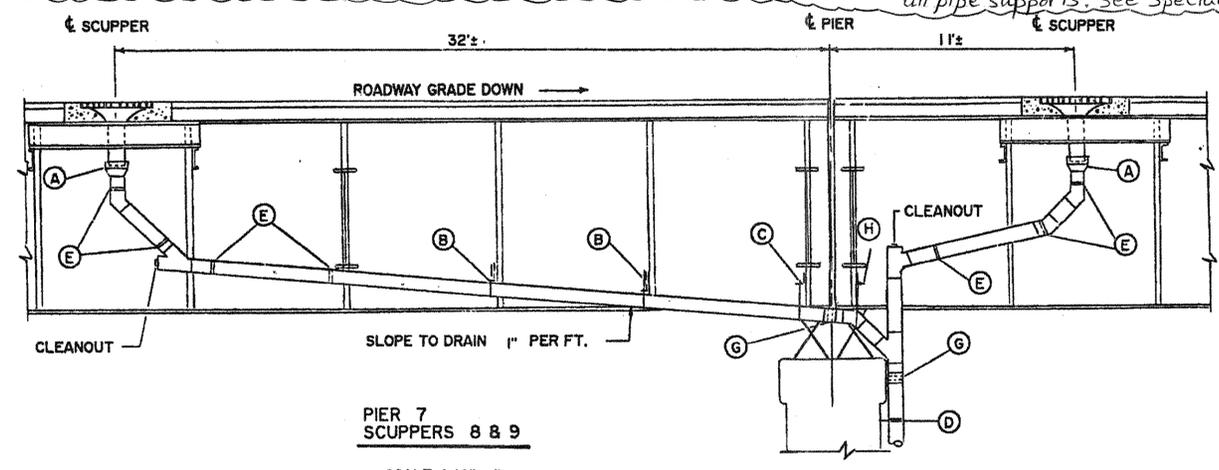
- NOTES**
- Structure sheets 13-16 are partially reproduced from the original contract plans of project No. 82-223 (designed by H.N.T.B. and L.C. Associates) with the addition of new details and notes in "clouds". Existing conditions should be verified by the Contractor.
  - Existing pipe supports (shown on Str. Shts. 13-16) shall be unbolted from the existing steel, and the drainage pipes temporarily supported. The existing structural steel shall be abrasive blast cleaned, then painted with the zinc rich primer and the intermediate coat. The pipe supports shall then be reattached.  
All to be paid for under item "Abrasive Blast Cleaning and Field Painting of Structure (Site No. 1)".
  - Number of weepholes: The approximate number of weepholes (each having two support brackets) which shall be removed and reinstalled in accordance with Note 2 is as follows: Middletown Approach: 36  
(See "Det. of Typ. Weephole", this Sheet) Portland Approach: 80
  - Note that new galvanized nuts, bolts, and washers shall be used for reattaching all pipe supports. See Special Provisions.



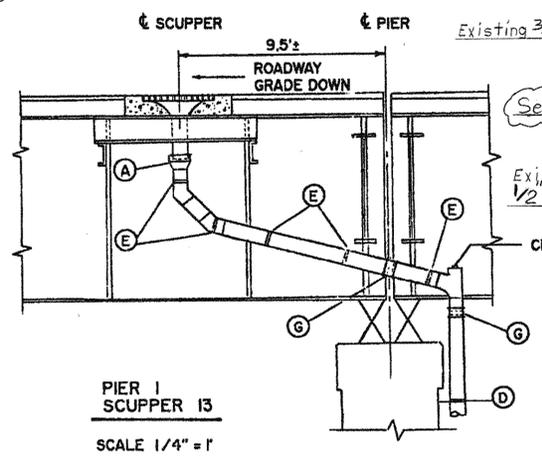
PIER 1  
SCUPPERS 15 & 16  
SCALE 1/4" = 1'



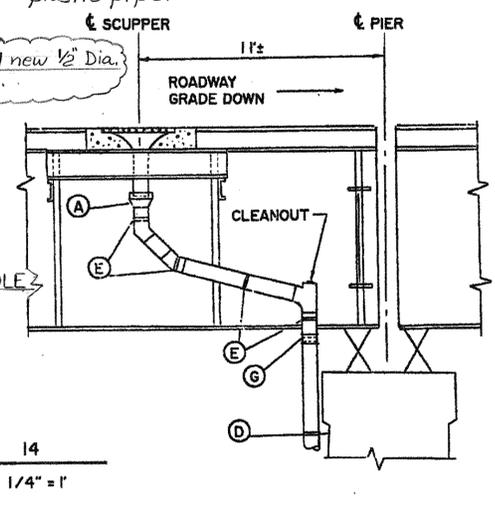
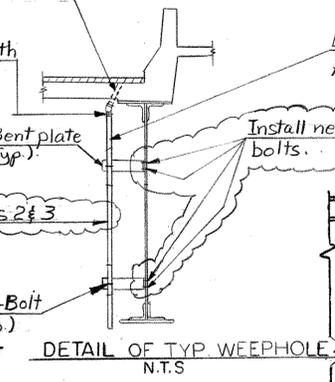
PIER 6  
SCUPPER 10  
SCALE 1/4" = 1'



PIER 7  
SCUPPERS 8 & 9  
SCALE 1/4" = 1'



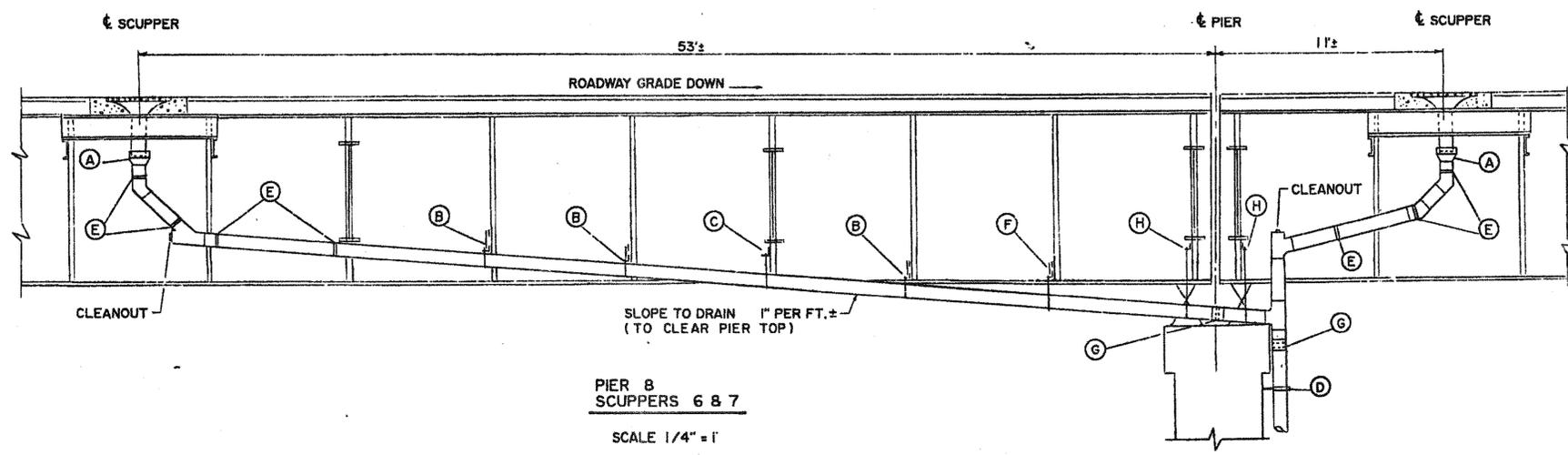
PIER 1  
SCUPPER 13  
SCALE 1/4" = 1'



PIER 2  
SCUPPER 14  
SCALE 1/4" = 1'

- LEGEND**
- (A) SEE "PIPE REDUCER"
  - (B) SEE "PIPE SUPPORT ON EXISTING STIFFENER" TYPE A
  - (C) SEE "PIPE SUPPORT BELOW FLOORBEAM" TYPE A
  - (D) SEE "PIPE CLAMP ON EXISTING PIER B STR. MEMBER"
  - (E) SEE "PIPE SUPPORT ON EXISTING WEB"
  - (F) SEE "PIPE SUPPORT ON EXISTING STIFFENER" TYPE B
  - (G) SEE "FLEXIBLE COUPLING"
  - (H) SEE "PIPE SUPPORT BELOW FLOORBEAM" TYPE B

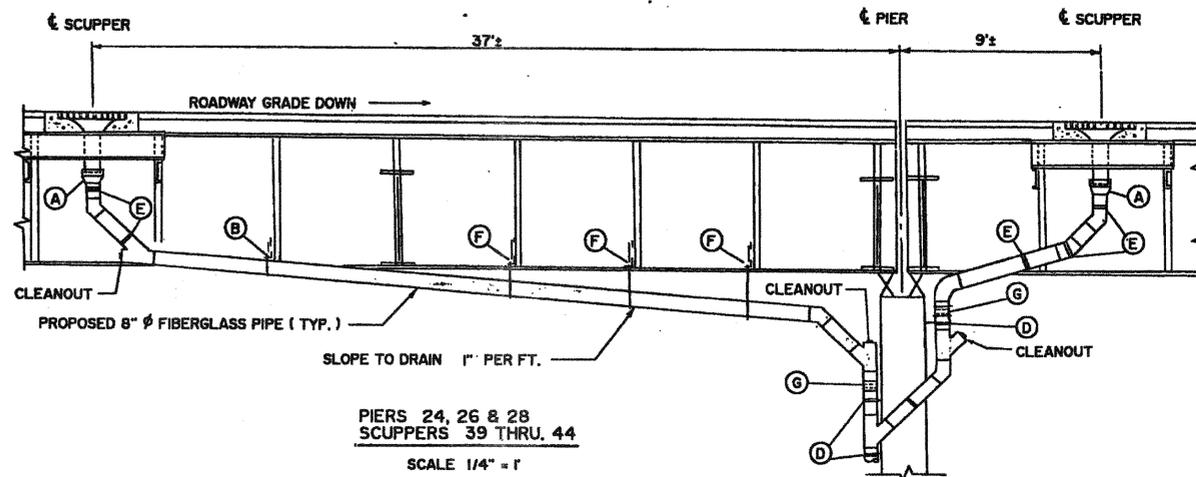
Remove and reinstall pipe supports at all locations indicated by (B), (C), (E), (F), & (H) on str. shts. 13 & 14. For details of these pipe supports see str. shts. 15 & 16. Also see Note 2, this sheet.



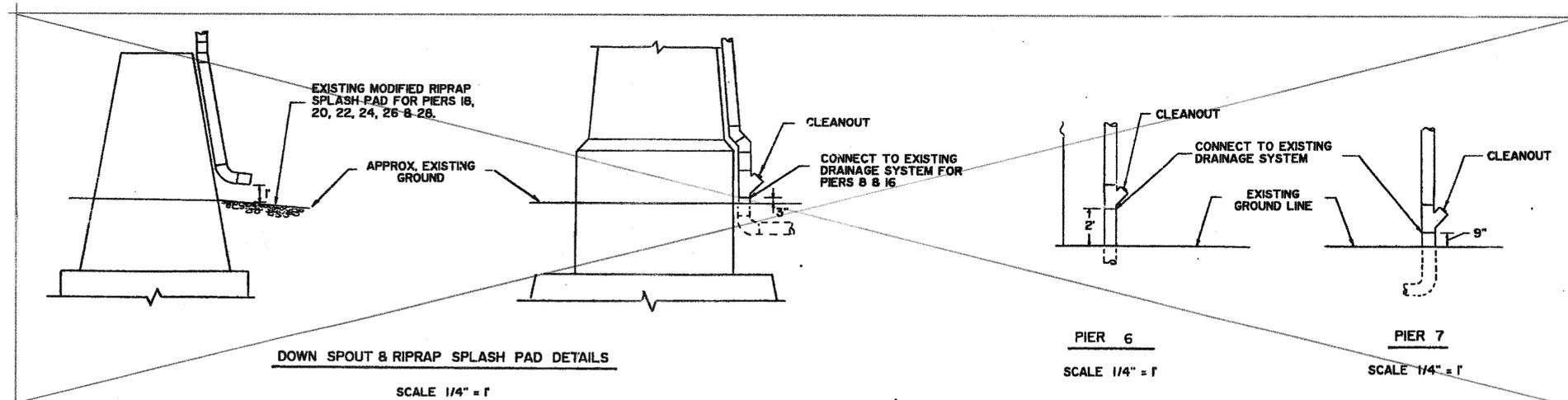
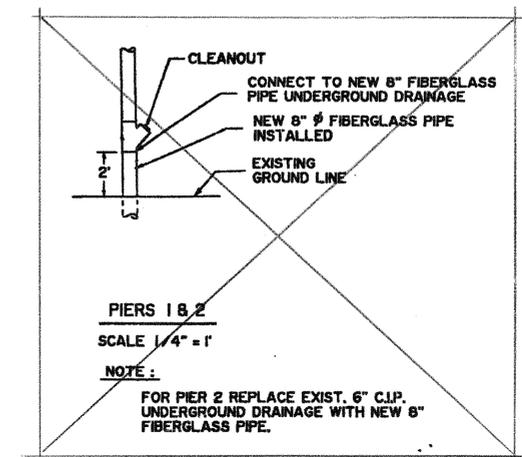
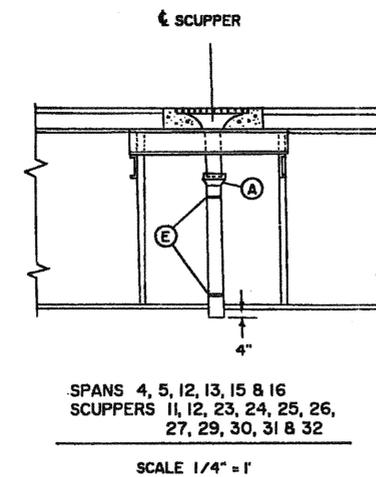
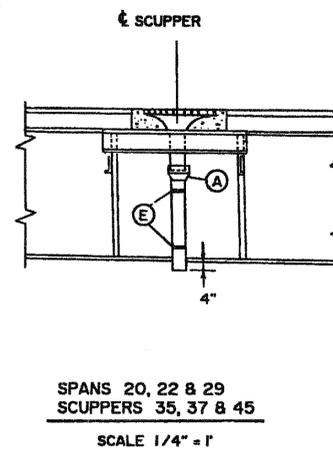
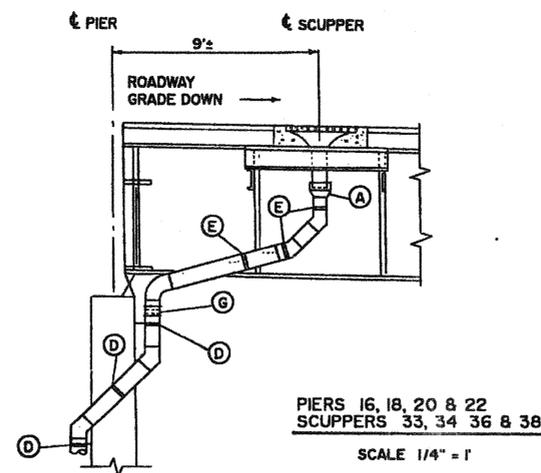
PIER 8  
SCUPPERS 6 & 7  
SCALE 1/4" = 1'

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STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION MIDDLETOWN - PORTLAND			
PAINTING OF ARRIGONI BRIDGE ROUTE 66 OVER THE CONNECTICUT RIVER			
PAINTING AT DRAINAGE SUPPORTS - I			
ENGINEER	BRIDGE DESIGN UNIT		
DESIGNER	ROD	DRAFTER	SCAN
APPROVED	<i>Robert D. Barton</i>		CHECKER <i>WJD</i>
NO.	DATE	DESCRIPTION	DATE <i>7/28/93</i>
REVISIONS		STRUCTURE NO.	BRIDGE LOG NO. <i>00524</i> STRUCTURE SHEET NO. <i>13 of 16</i>



NOTE: Work this sheet with str. sht. 13

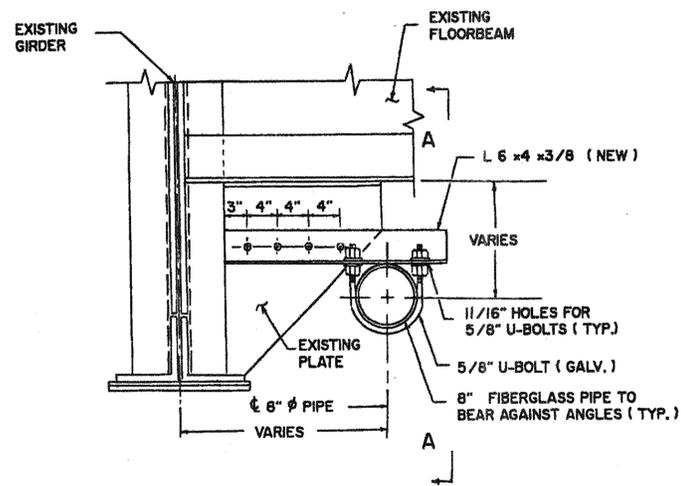


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STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION MIDDLETOWN - PORTLAND	
PAINTING OF ARRIGONI BRIDGE ROUTE 66 OVER THE CONNECTICUT RIVER	
PAINTING AT DRAINAGE SUPPORTS - 2	
ENGINEER	BRIDGE DESIGN UNIT
DESIGNER	RDD
DRAFTER	SCAN
CHECKER	WJD
APPROVED	DATE 7/25/93
NO. DATE	DESCRIPTION
REVISIONS	STRUCTURE NO.
BRIDGE LOG NO. 00524	STRUCTURE SHEET NO. 14 OF 16

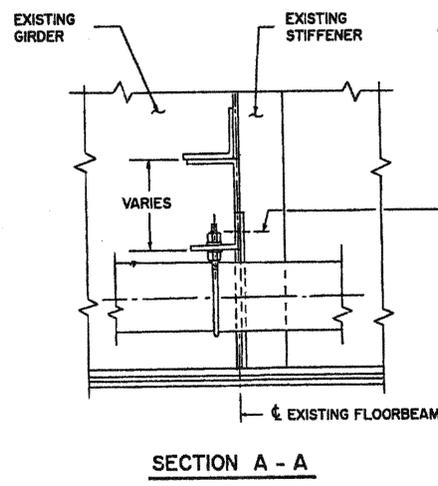
F.W.M.A. REGION	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN	MIDDLETOWN - PORTLAND	BHF-22(13)	82-252	1993	66	17	22

NOTES: 1. Work this sheet with Str. Sht. 13.  
2. Use 1/2"  $\phi$  Bolts for connections.



PIPE SUPPORT - BELOW FLOORBEAM (TYPE A)

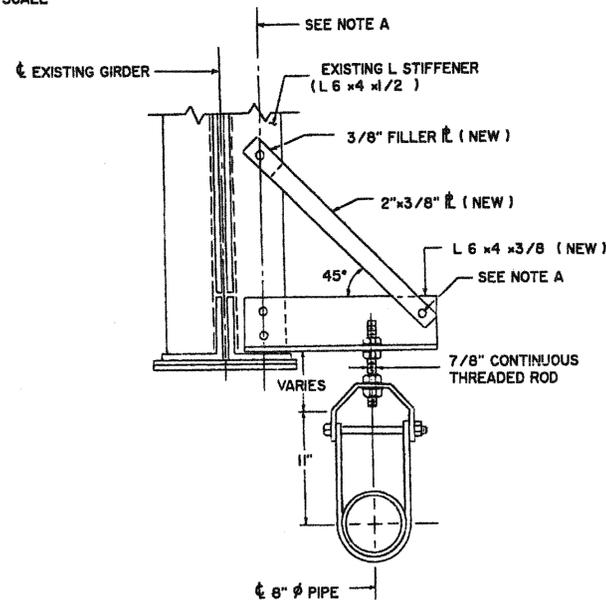
NOT TO SCALE



SECTION A - A

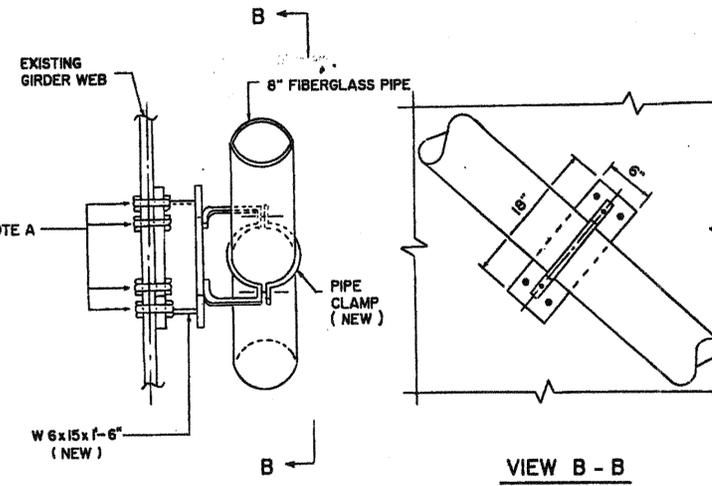
PIPE SUPPORT - ON EXISTING STIFFENER (TYPE A)

NOT TO SCALE



PIPE SUPPORT - ON EXISTING STIFFENER (TYPE B)

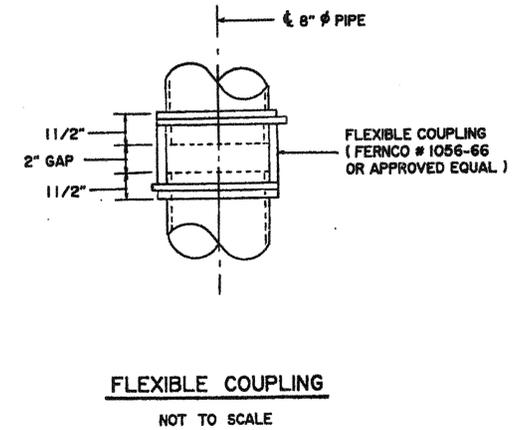
NOT TO SCALE



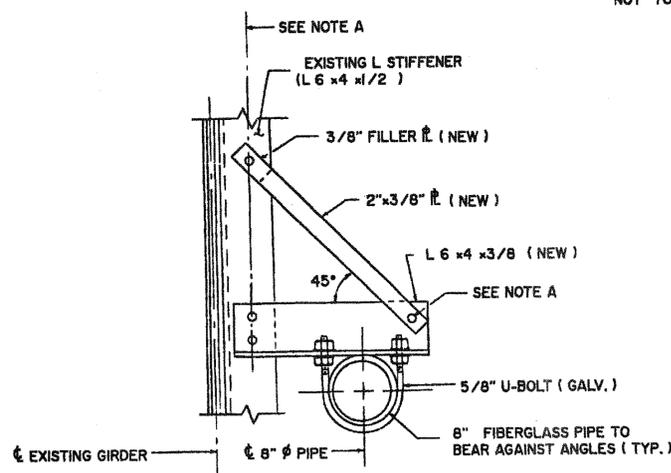
VIEW B - B

PIPE SUPPORT - ON EXISTING WEB

NOT TO SCALE

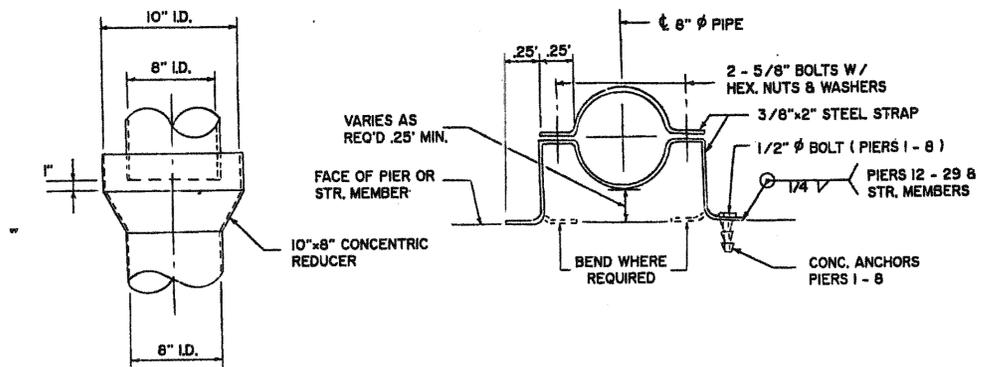


FLEXIBLE COUPLING NOT TO SCALE



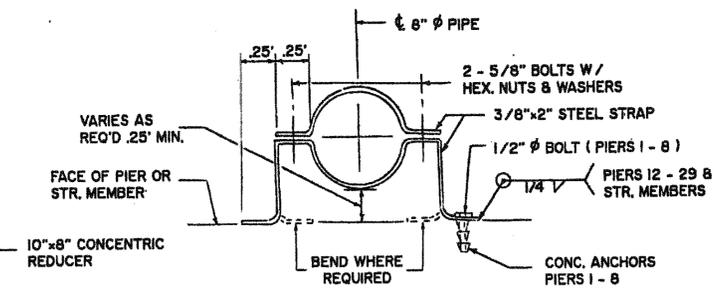
PIPE SUPPORT - ON EXISTING STIFFENER (TYPE A)

NOT TO SCALE



PIPE REDUCER

NOT TO SCALE

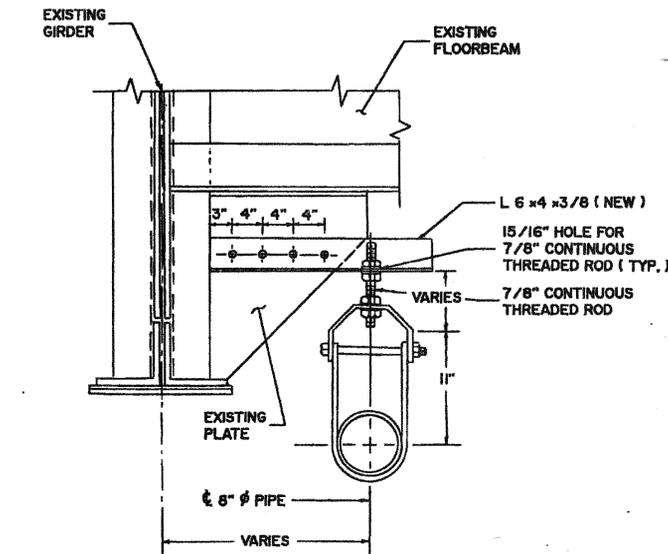


PIPE CLAMP - ON EXISTING PIER & STR. MEMBER

NOT TO SCALE

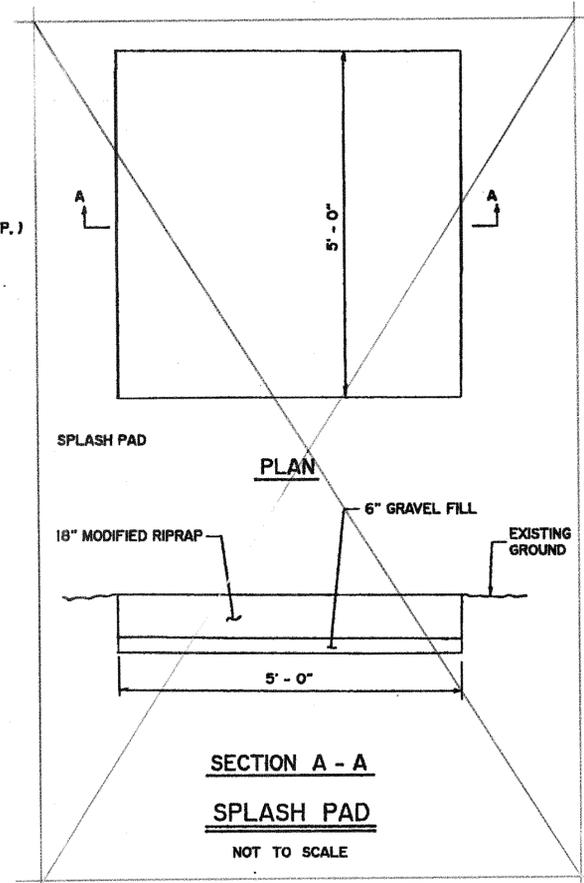
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION MIDDLETOWN - PORTLAND			
PAINTING OF ARRIGONI BRIDGE ROUTE 66 OVER THE CONNECTICUT RIVER			
PAINTING AT DRAINAGE SUPPORTS - 3			
ENGINEER	BRIDGE DESIGN UNIT		
DESIGNER	ROD	DRAFTER	SCAN
NO. DATE	DESCRIPTION	APPROVED	CHECKER WJD
REVISIONS	STRUCTURE NO.	DATE 7/28/93	DATE 7/28/93
		BRIDGE LOG NO. 00524	STRUCTURE SHEET NO. 15 OF 16

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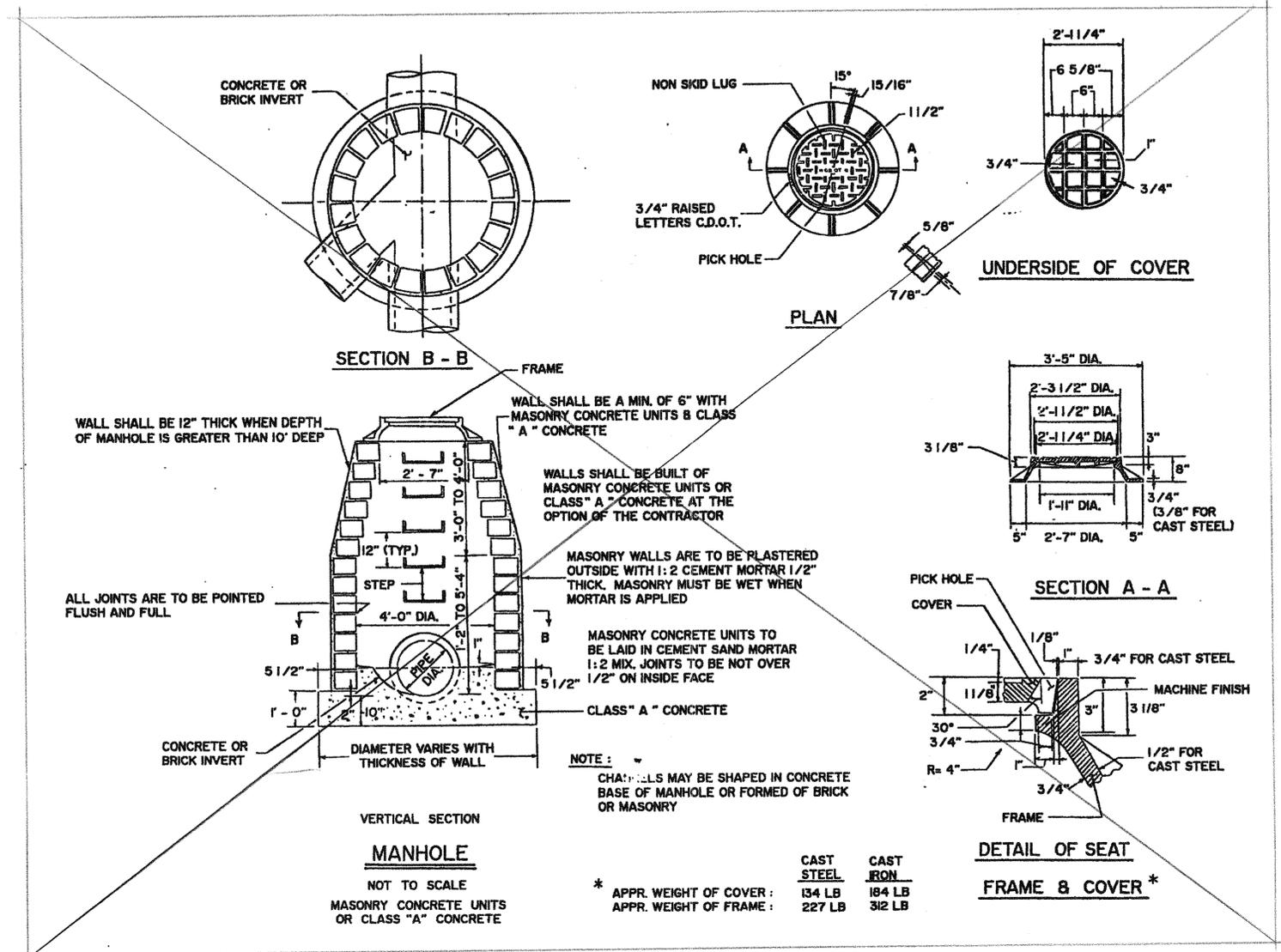
PIPE SUPPORT - BELOW FLOORBEAM (TYPE B)

NOT TO SCALE



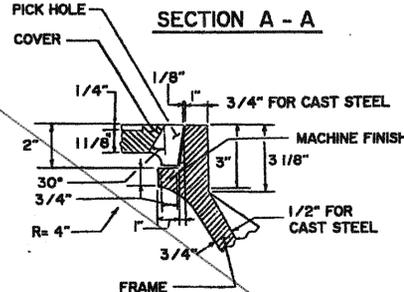
SECTION A - A  
SPLASH PAD

NOT TO SCALE



VERTICAL SECTION  
MANHOLE

NOT TO SCALE  
MASONRY CONCRETE UNITS  
OR CLASS "A" CONCRETE



DETAIL OF SEAT  
FRAME & COVER \*

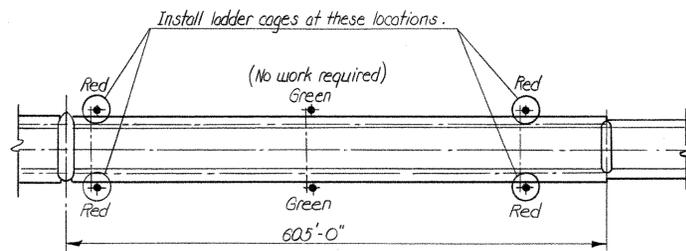
CAST STEEL	CAST IRON
APPR. WEIGHT OF COVER: 134 LB	184 LB
APPR. WEIGHT OF FRAME: 227 LB	312 LB

NOTE: Work this sheet with Str, Sht. 13.

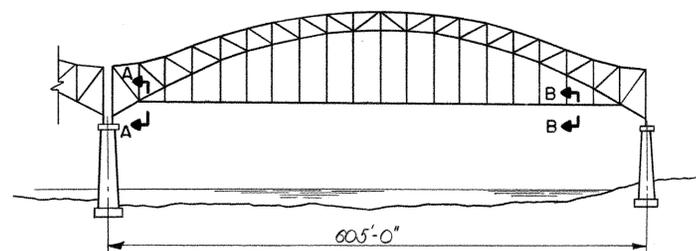
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR THE ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION			
MIDDLETOWN - PORTLAND			
PAINTING OF ARRIGONI BRIDGE			
ROUTE 66 OVER THE CONNECTICUT RIVER			
PAINTING AT DRAINAGE SUPPORTS - 4			
ENGINEER	BRIDGE DESIGN UNIT		
DESIGNER	RDD	DRAFTER	SCAN
APPROVED	<i>[Signature]</i>		CHECKER WJD
NO. DATE	DESCRIPTION	APPROVED	DATE 7/25/93
REVISIONS		STRUCTURE NO.	BRIDGE LOG NO. 00524
			STRUCTURE SHEET NO. 16 of 16

FHWA REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	Middletown/Portland	BHF-22(131)	82-252	1994	66	18A	22



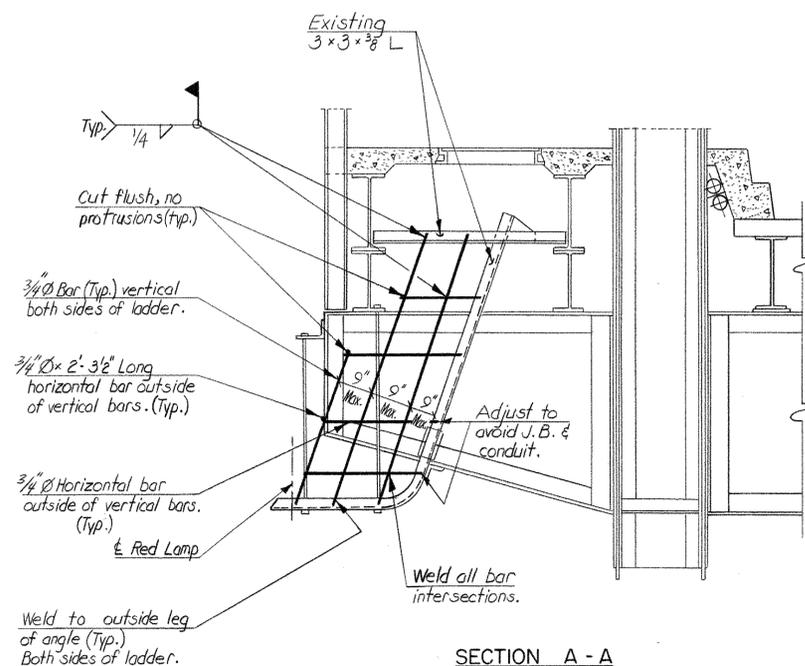
PLAN OF LADDER CAGE LOCATION  
Scale: 1"=100'



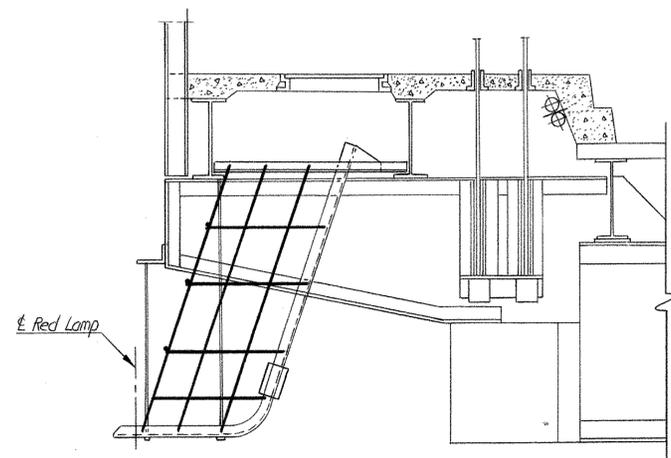
ELEVATION OF PORTLAND ARCH  
Scale: 1"=100'

LADDER CAGE GENERAL NOTES

- All reinforcement shall be uncoated 3/4"  $\phi$  bars and shall be weldable and conform to ASTM A36.
- Welding details and procedures shall conform to the ANSI/AASHTO/AWS D1.5-88 Bridge Welding Code.
- Cages shall be installed prior to the painting of the superstructure and painted along with the superstructure.
- Field verify all required dimensions prior to fabrication.
- Cost of this work to be paid for under "Structural Steel" (Hundred weight).



SECTION A - A



SECTION B - B

PROPOSED LADDER CAGE  
Scale: 1/2"=1'-0"

All notes same as Section A-A

THIS SHEET ADDED AUGUST, 1994

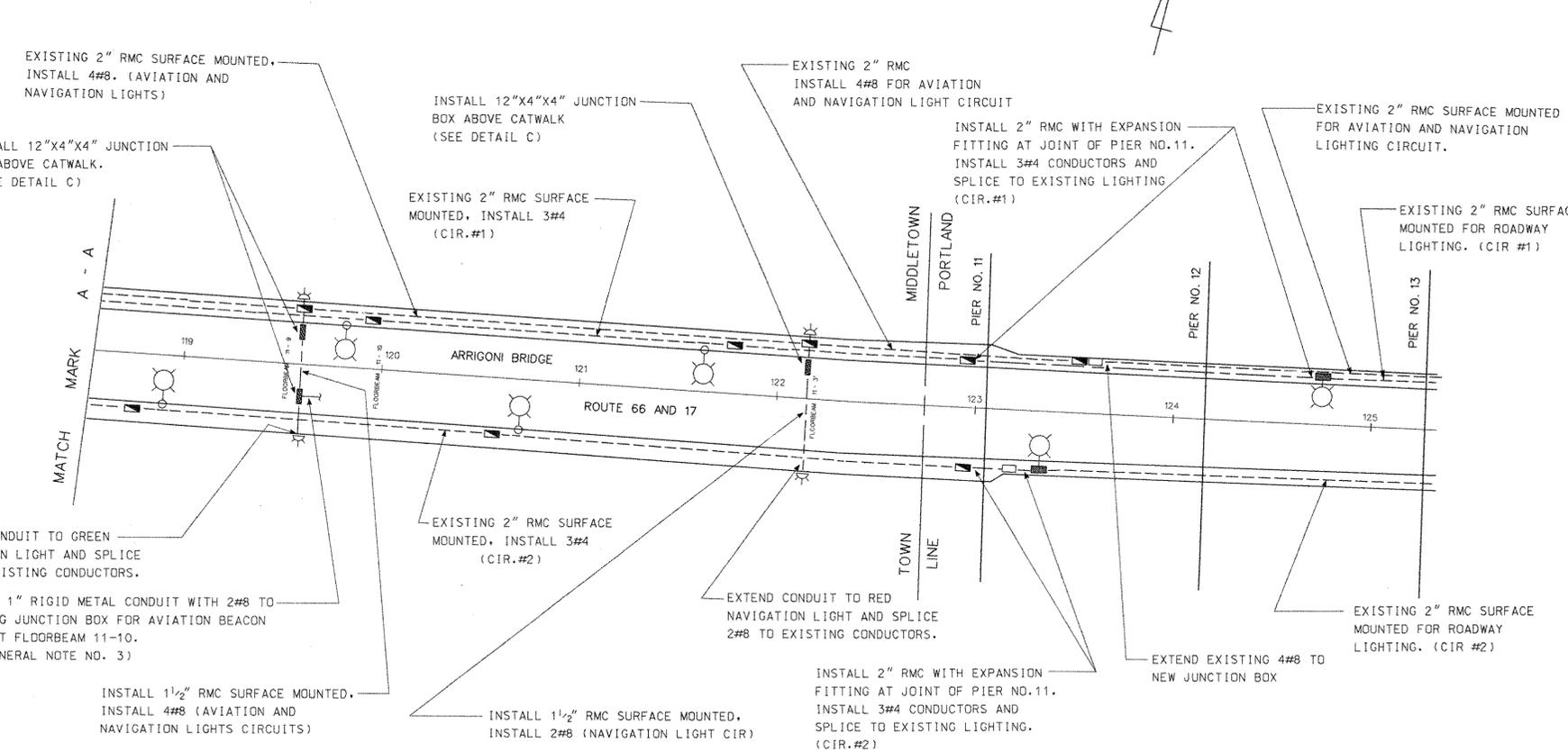
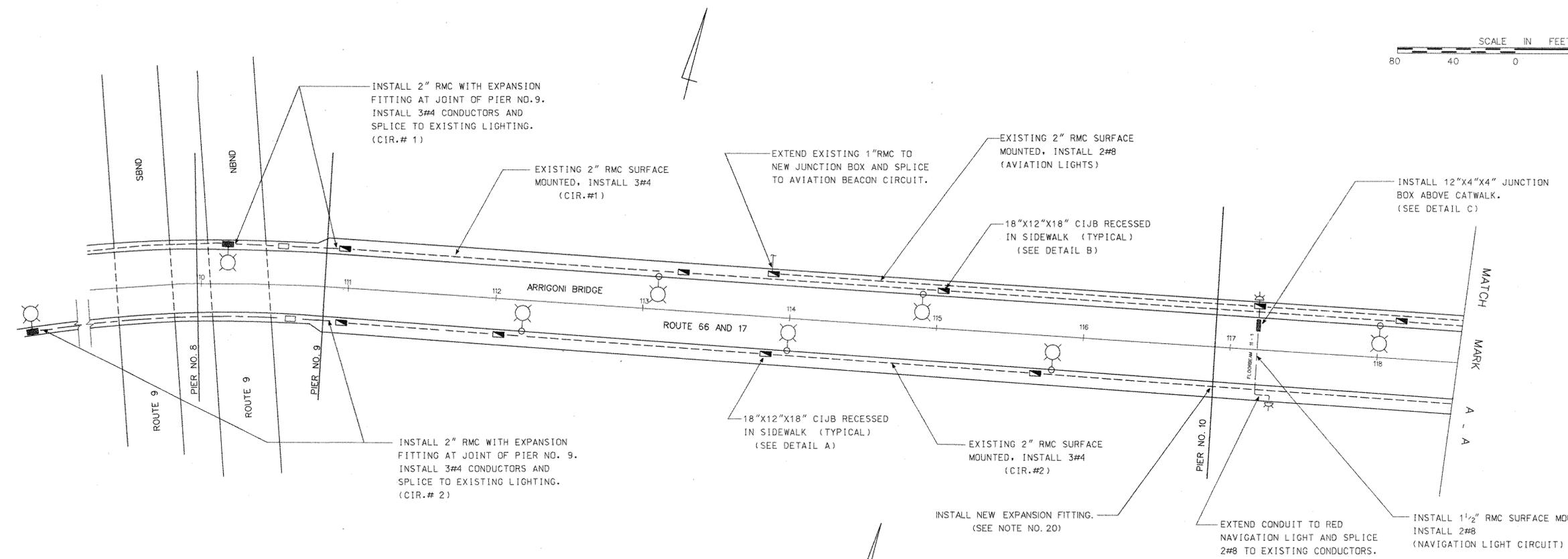
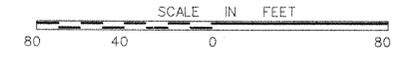
STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
MIDDLETOWN / PORTLAND  
ROUTE 66 & 17  
ARRIGONI BRIDGE  
OVER  
CONNECTICUT RIVER  
CHANNEL LIGHT LADDER CAGE

ENGINEER BRIDGE DESIGN UNIT	
DESIGNER KJB	CHECKER RDD
DRAFTER JJC	DATE 8/26/94
APPROVED [Signature]	BRIDGE LOG NO. 00524
STRUCTURE NO.	16A of 16

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE TRUE CONDITIONS OR ACTUAL QUANTITIES OR DISTRIBUTION OF QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NO.	DATE	DESCRIPTION

F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	MIDDLETOWN & PORTLAND	BHF-22(131)	82-252	1992	66/17	18B	22



**LEGEND:**

- NEW 18"x12"x18" CAST IRON JUNCTION BOX (RECESSED IN SIDEWALK)
- EXISTING JUNCTION BOX
- EXISTING SURFACE MTD. JUNCTION BOX TO BE REMOVED
- NEW 12"x4"x4" JUNCTION BOX
- EXISTING ROADWAY LUMINAIRE
- EXISTING NAVIGATION LIGHT
- EXISTING 2" RIGID METAL CONDUIT - SURFACE MTD.
- NEW 2" RIGID METAL CONDUIT - SURFACE MTD.

THIS SHEET ADDED DECEMBER 1994



CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUR. OF ENGINEERING & HWY. OPERATIONS  
DIVISION OF TRAFFIC ENGINEERING

MIDDLETOWN / PORTLAND  
ROUTE 66 & 17  
ARRIGONI BRIDGE  
ELECTRICAL

REVISIONS	
NO.	DESCRIPTION

SUBMITTED BY: *[Signature]* DATE: 12/94  
 APPROVED: *[Signature]* DATE: 12/94  
 ENGINEER OF TRAFFIC

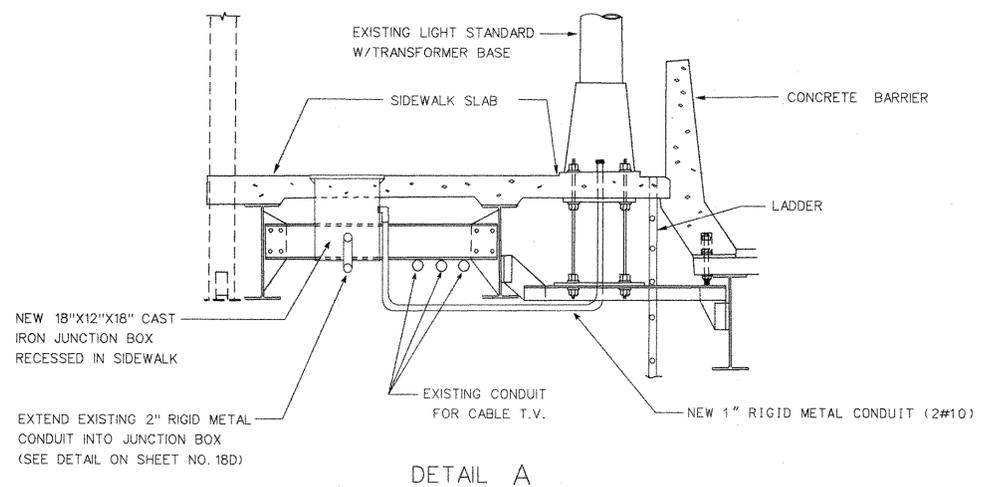
SCALE: NONE

DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE

F.H.W.A. REGION NO.	STATE	TOWN	FED. AD. PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	MIDDLETOWN/PORTLAND	BHF-22(131)	82-252	1994	66	18C	22

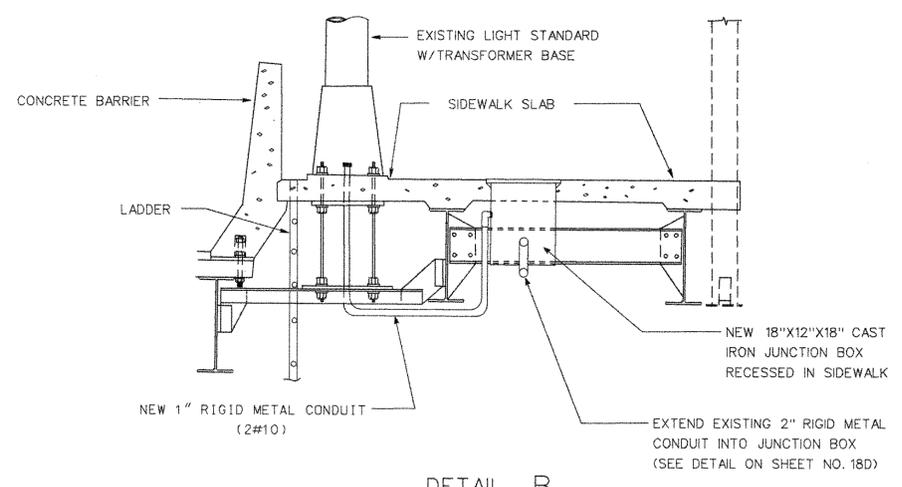
**GENERAL NOTES:**

- (1) ALL ELECTRICAL WORK SHALL CONFORM TO NATIONAL ELECTRICAL CODES, CONNECTICUT SPECIFICATIONS FORM 814, FORM 814 SUPPLEMENTS, AND UTILITY COMPANY REGULATIONS.
- (2) IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO CALL FOR A COMPLETE ELECTRICAL INSTALLATION. IT IS NOT THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO INCLUDE EVERY DETAIL OF ELECTRICAL WORK REQUIRED TO BE PERFORMED BY THE CONTRACTOR TO MAKE A COMPLETE INSTALLATION. ITEMS NOT SPECIFICALLY SHOWN ON THE DRAWINGS OR INCLUDED IN THE SPECIFICATIONS, THAT ARE REQUIRED TO BE PERFORMED BY THE CONTRACTOR TO PERFORM HIS WORK ARE CONSIDERED TO BE INCLUDED AS PART OF HIS WORK.
- (3) ACTUAL LENGTH AND LOCATION OF WIRE, CONDUIT AND JUNCTION BOXES MAY VARY FROM THAT SHOWN ON THE PLANS.
- (4) LOCATION OF EXISTING ILLUMINATION ON THE PLANS IS APPROXIMATE.
- (5) ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL MATERIALS SHALL BE OF THE BEST QUALITY FOR THE PURPOSE INTENDED.
- (6) ALL PROPOSED EQUIPMENT SHALL BE NEW AND UNDERWRITER'S LABORATORY APPROVED.
- (7) THE CONTRACTOR SHALL PROVIDE THE STATE A COMPLETE SET OF REPRODUCIBLE, AS-BUILT DRAWINGS CLEARLY INDICATING ANY DEVIATIONS FROM THE DESIGN AS SHOWN ON THESE DRAWINGS.
- (8) THE CONTRACTOR SHALL CONTACT THE CONN. D.O.T. DISTRICT 1 ELECTRICAL SUPERVISOR AT 566-3156 WHEN ACCESS TO A CIRCUIT IS REQUIRED.
- (9) TAPE ALL UNUSED CONDUCTORS.
- (10) CONDUCTORS SHALL BE COPPER, INSULATION TYPE XHHW AND RATED FOR 600 VOLTS. CONDUCTORS SHALL BE FACTORY COLORED CODED USING THE SAME CODE THROUGHOUT EACH LIGHTING CIRCUIT. COLORS SHALL BE AS FOLLOWS: BLACK, RED, AND BLUE.
- (11) INSTALL NO. 8 BARE COPPER GROUNDING CONDUCTOR THROUGHOUT ALL LIGHTING CIRCUITS AS REQUIRED.
- (12) CONTRACTOR SHALL MAINTAIN CONTINUOUS OPERATION OF ALL NAVIGATION, AVIATION AND ROADWAY LIGHTING AT ALL TIMES DURING CONSTRUCTION.
- (13) ALL EXISTING JUNCTION BOXES, USED FOR ROADWAY, NAVIGATION AND AVIATION LIGHTING UNDER THE ARCH SPAN STRUCTURE, SHALL BE REMOVED.
- (14) REMOVE EXISTING 1/2" RIGID METAL CONDUIT, WIRE AND JUNCTION BOX NORTH/SOUTH ALONG FLOORBEAM 11-3 AND REPLACE WITH NEW 1/2" RIGID METAL CONDUIT, WIRE AND 12"x4"x4" JUNCTION BOX FOR RED NAVIGATION LIGHT ON SOUTH SIDE. (JUNCTION BOX TO BE LOCATED ABOVE CATWALK)
- (15) REMOVE EXISTING 1/2" RIGID METAL CONDUIT, WIRE AND JUNCTION BOX NORTH/SOUTH ALONG FLOORBEAM 11-9 AND REPLACE WITH NEW 1/2" RIGID METAL CONDUIT, WIRE AND 12"x4"x4" JUNCTION BOX FOR GREEN NAVIGATION LIGHT. (JUNCTION BOX TO BE LOCATED ABOVE CATWALK)
- (16) REMOVE EXISTING 1" RIGID METAL CONDUIT AND WIRE NORTH/SOUTH ALONG FLOORBEAM 11-10. INSTALL 1" RIGID METAL CONDUIT, WITH 2#8 BETWEEN NEW 12"x4"x4" JUNCTION BOX ON SOUTH SIDE OF FLOORBEAM 11-9 TO EXISTING JUNCTION BOX ON SOUTH SIDE OF FLOORBEAM 11-10, AND SPLICE 2#8 TO EXISTING CONDUCTORS FOR AVIATION LIGHTS.
- (17) REMOVE EXISTING 1/2" RIGID METAL CONDUIT, WIRE AND JUNCTION BOX NORTH/SOUTH ALONG FLOORBEAM 11-1 AND REPLACE WITH NEW 1/2" RIGID METAL CONDUIT, WIRE AND 12"x4"x4" JUNCTION BOX FOR RED NAVIGATION LIGHT. (JUNCTION BOX TO BE LOCATED ABOVE CATWALK)
- (18) AT PIER NO. 9, REMOVE JUNCTION BOX, WHERE INDICATED ON THE PLANS, AND EXTEND 2" RIGID METAL CONDUIT TO NEW JUNCTION BOX RECESSED IN SIDEWALK OF ARCH SPAN. TYPICAL TO NORTH AND SOUTH SIDE OF BRIDGE.
- (19) AT PIER NO. 11, REMOVE JUNCTION BOX, WHERE INDICATED ON THE PLANS, AND EXTEND 2" RIGID METAL CONDUIT TO NEW JUNCTION BOX RECESSED IN SIDEWALK OF ARCH SPAN. TYPICAL TO NORTH AND SOUTH SIDE OF BRIDGE.
- (20) AT PIER NO. 10, REMOVE EXISTING EXPANSION FITTING ON THE SOUTH SIDE OF BRIDGE, REALIGN EXISTING 2" RIGID METAL CONDUIT AND INSTALL NEW EXPANSION FITTING. THE (2) EXPANSION FITTINGS ON THE NORTH SIDE OF BRIDGE SHALL BE REPLACED AT THE DISCRETION OF THE ENGINEER.



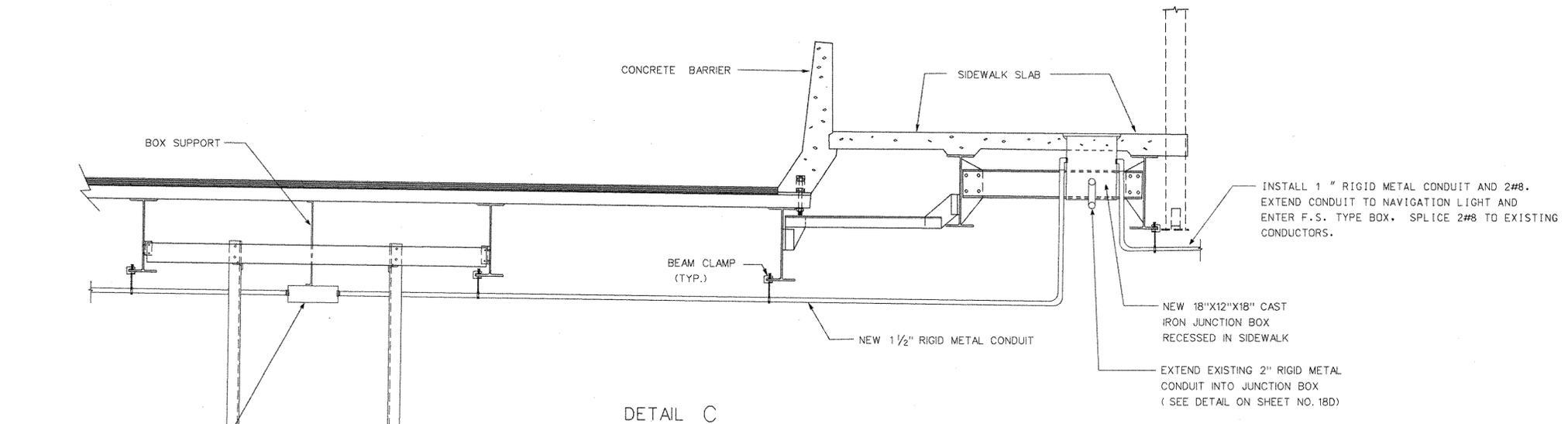
DETAIL A

JUNCTION BOX RECESSED IN SIDEWALK FOR ROADWAY LIGHTING - SOUTH SIDE (TYPICAL)



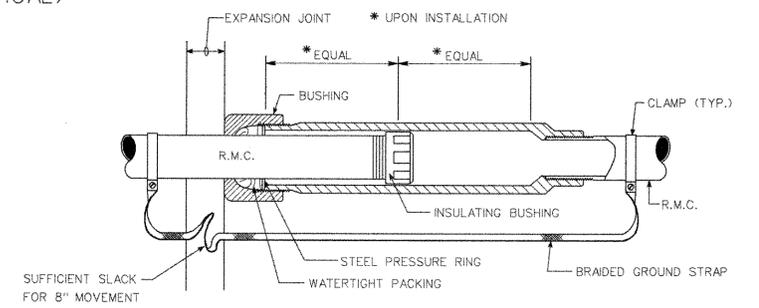
DETAIL B

JUNCTION BOX RECESSED IN SIDEWALK FOR ROADWAY LIGHTING - NORTH SIDE (TYPICAL)



DETAIL C

JUNCTION BOX RECESSED IN SIDEWALK FOR AVIATION AND NAVIGATION BEACON (TYPICAL)



EXPANSION FITTING (8" MOVEMENT)  
TO BE USED AT ALL EXPANSION JOINTS

DESIGNED BY	DATE
ENGINEERING	11/94
NAME	11/94
PJS	11/94
DRWN BY	11/94
PJS	11/94
CHEK BY	11/94
SJN	11/94



THIS SHEET ADDED DECEMBER 1994

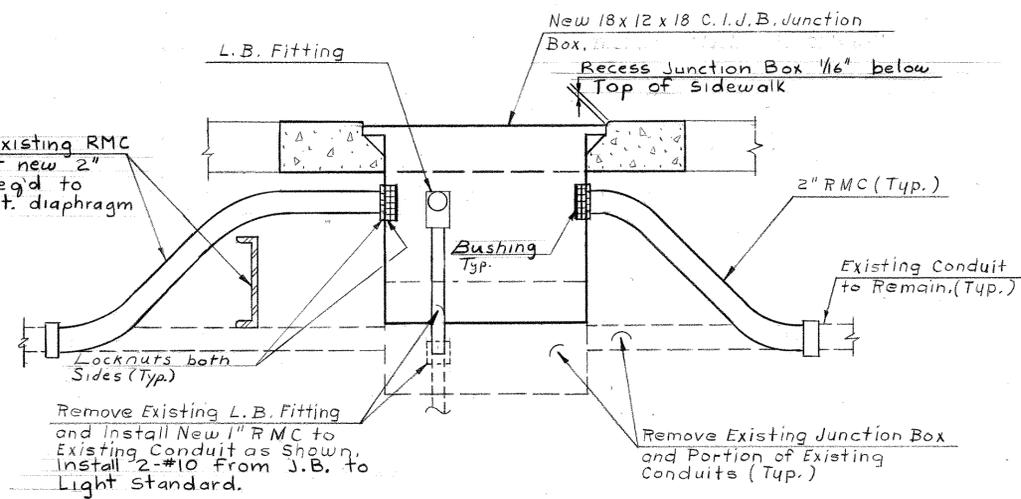
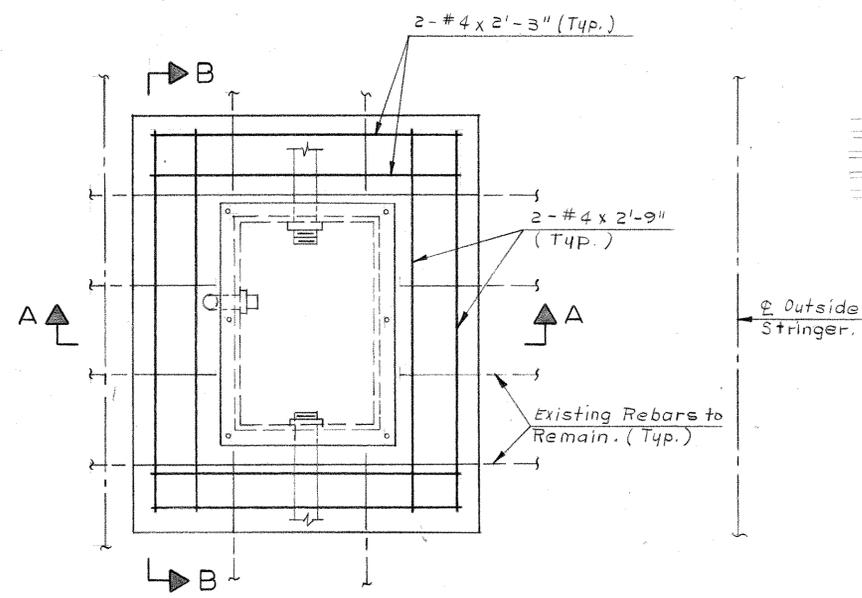
REVISIONS	
NO.	DESCRIPTION

CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUR. OF ENGINEERING & HWY. OPERATIONS  
DIVISION OF TRAFFIC ENGINEERING

MIDDLETOWN / PORTLAND  
ROUTE 66 & 17  
ARRIGONI BRIDGE  
ELECTRICAL

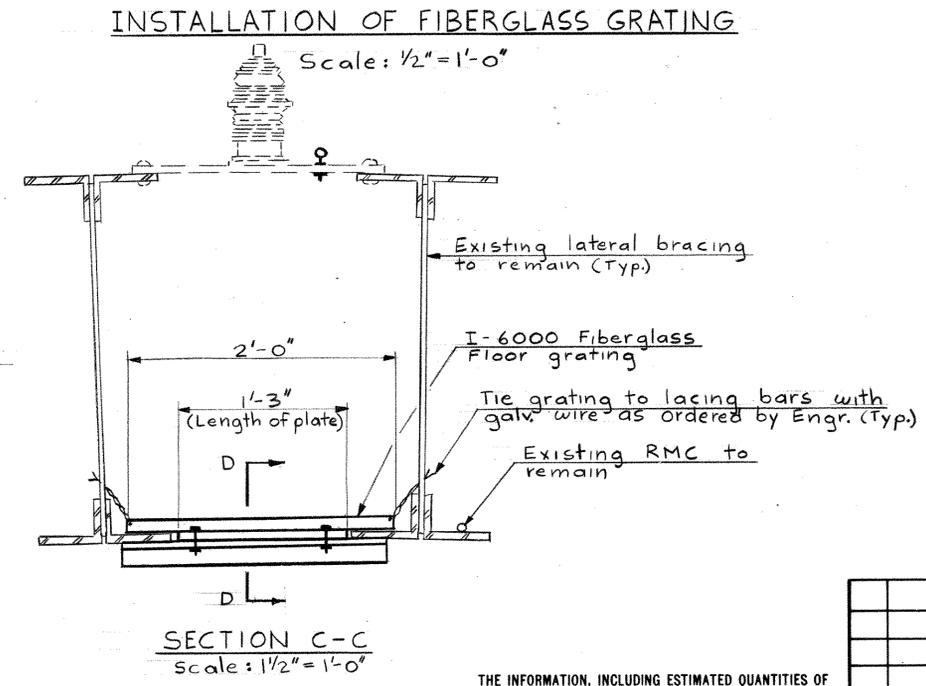
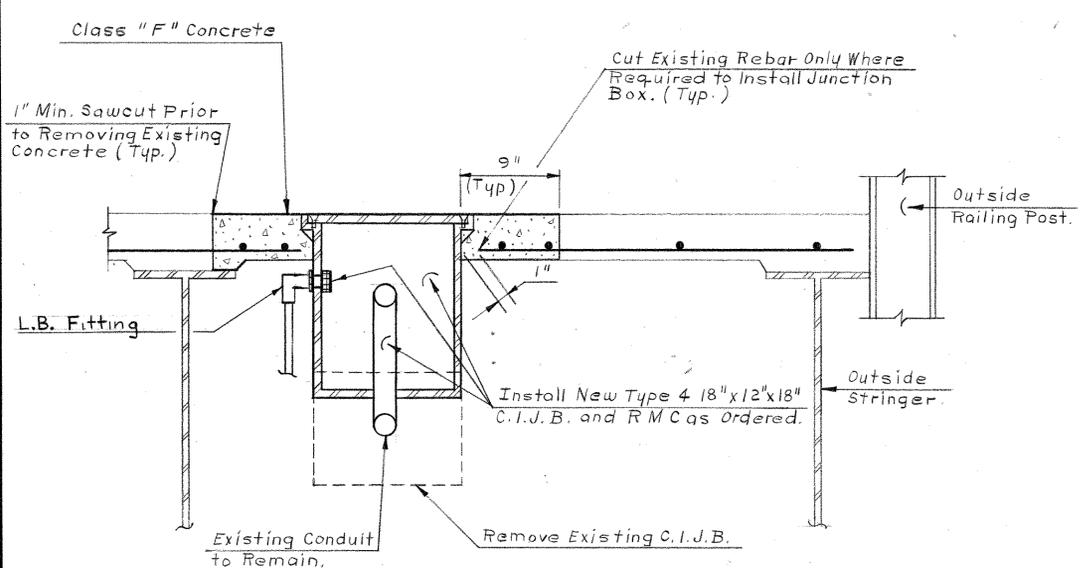
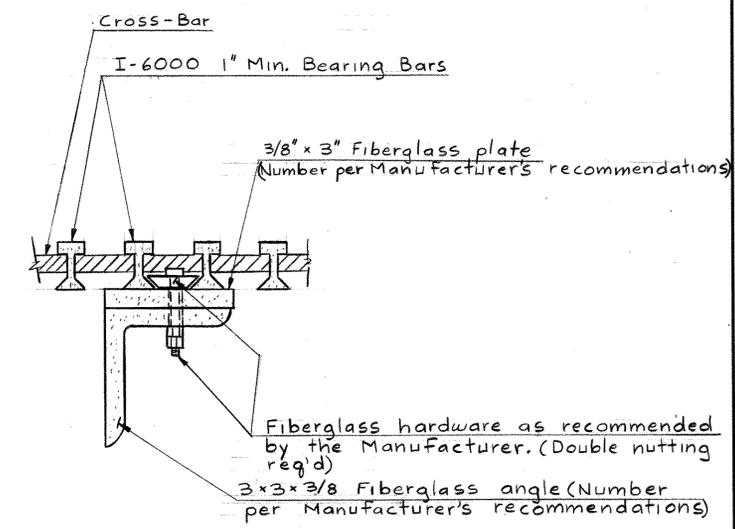
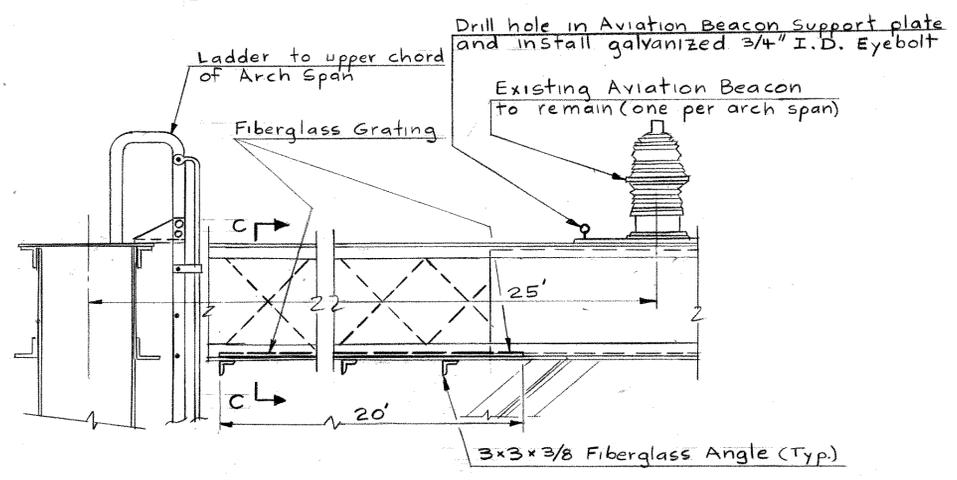
SUBMITTED BY *[Signature]* DATE *12/94*  
APPROVED *[Signature]* DATE *12/94*  
ENGINEER OF TRAFFIC

SCALE NONE



- NOTES**
- The top plate of the new junction boxes shall be "checked" to accommodate pedestrian traffic.
  - Rebars shall be ASTM A615, GR. 60.
  - The junction boxes shall have a minimum of four 1/4"  $\phi$  holes drilled in the bottom to drain out water.
  - 19 junction boxes will be replaced. For locations see Electrical Sheets.
  - 15# Max. Hammer weight for concrete removal.
  - Junction Box screws shall be "vandal-proof".
  - The work indicated shall be paid for under the item "18"x12"x18" C.I.J.B." or "Fiberglass Grating".
  - Install fiberglass grating for access to Aviation Beacons on Arch Spans (Spans 10 & 11) after painting.

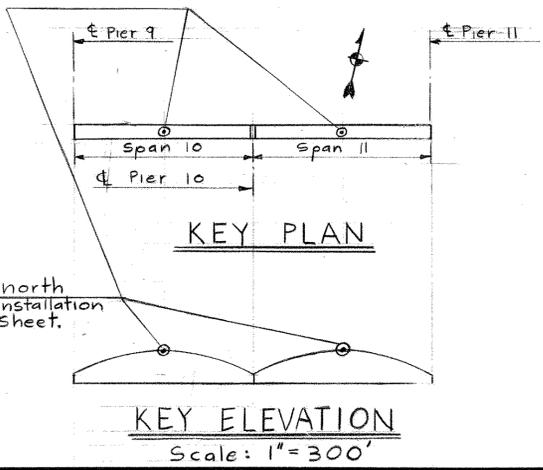
PLAN - JUNCTION BOX REPLACEMENT - (SEE NOTE 4)  
 SCALE 1 1/2" = 1'-0"



SECTION D-D (HALF-SCALE)

THIS SHEET ADDED DECEMBER, 1994

SECTION A - A SCALE 1 1/2" = 1'-0"

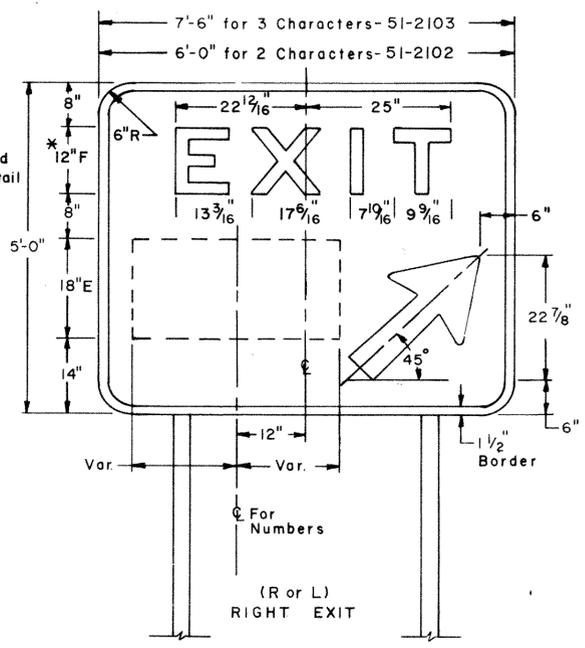
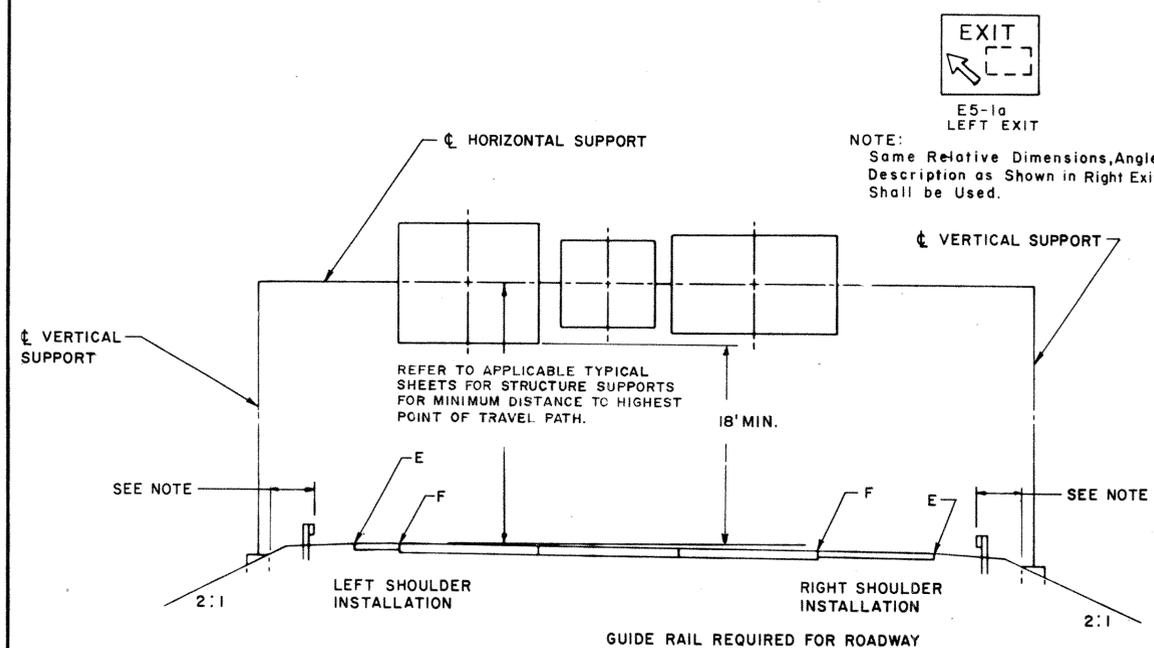


Install Fiberglass Grating north of Aviation Beacons. See "Installation of Fiberglass Grating", this sheet.

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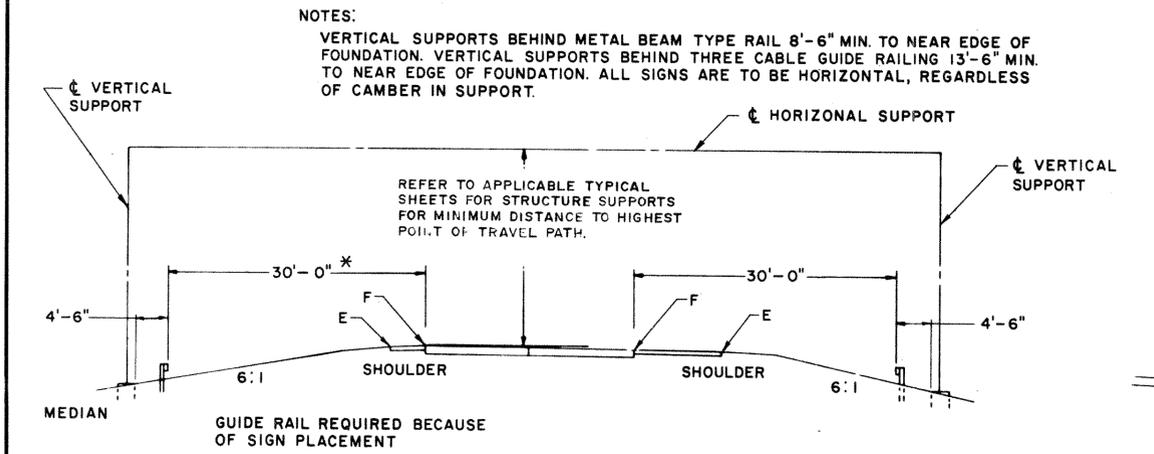
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION MIDDLETOWN - PORTLAND			
PAINTING OF ARRIGONI BRIDGE			
ROUTE 66 OVER THE CONNECTICUT RIVER			
ELEC. JUNC. BOX REPLACEMENTS & F.G. GRATING			
ENGINEER BRIDGE DESIGN UNIT			
DESIGNER R.D.D.	DRAFTER R.C.	CHECKER R.D.D.	
APPROVED		DATE 12/5/94	
NO. DATE	DESCRIPTION	BRIDGE LOG NO. 00524	STRUCTURE SHEET NO. 1 of 1
REVISIONS		STRUCTURE NO.	

PAINTING OF ARRIGONI BRIDGE CARRYING ROUTE 66 OVER THE CONNECTICUT RIVER

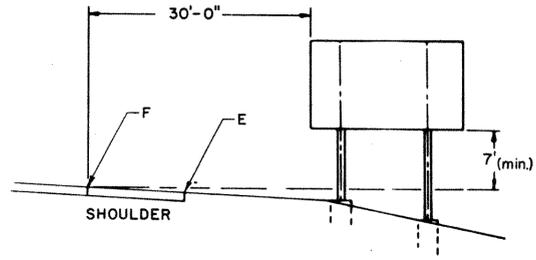


**GORE EXIT SIGN (WITH EXIT NUMBER)**

SIGN PANEL - .125 Thk. Sheet Aluminum  
 COPY, ARROW & BORDER - Silver ReflectORIZED-Enclosed Lens.  
 BACKGROUND - Green ReflectORIZED-Enclosed Lens.  
 \* Double Spaced  
 SIGN SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.  
 ARROW - CONN. D.O.T. E-4 TYPE

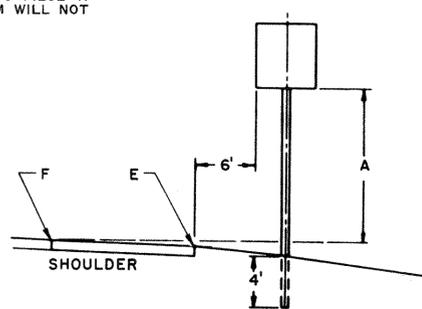


NOTES:  
 \* IF MEDIAN WIDTH DOES NOT PERMIT DIMENSION SHOWN SIGN FOUNDATION IS TO BE IN CENTER OF MEDIAN.  
 FOR PLACEMENT OF CANTILEVER SIGN SUPPORT USE APPLICABLE PORTION OF ABOVE DETAILS.

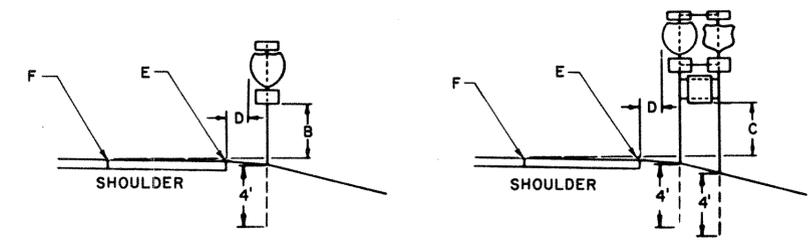


**TYPICAL DIRECTIONAL SIGN PLACEMENT**

NOTES:  
 MIN. VERTICAL CLEARANCE ABOVE SIDEWALKS SHALL BE 8'-6"  
 WHERE RAILING IS USED, THE OFFSET TO THE NEAR EDGE OF SIGN FACE SHALL BE AS FOLLOWS:  
 METAL BEAM RAIL - 8'-6"  
 CABLE GUIDE RAILING - 13'-6"  
 ON INTERSECTING ROADS AT RAMP TERMINI - 6' FROM POINT "E"  
 ON CUT SLOPES MAINTAIN A 6'-0" MINIMUM GROUND CLEARANCE AT RIGHT SUPPORT, EXCEPT WHERE HEIGHT OF SIGN ABOVE TRAVELWAY EXCEEDS 12'-0". SIGN TO BE HORIZONTAL.



**TYPICAL REGULATORY & WARNING SIGN PLACEMENT**



**TYPICAL ROUTE MARKER DIRECTIONAL ASSEMBLIES (NON-EXPRESSWAY)**

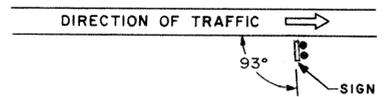
ALL SIGNS AND SHIELDS ON DIRECTIONAL ASSEMBLIES SHALL ABUT VERTICALLY

DIM. "A"	DIM. "B"	DIM. "C"	DIM. "D" *	ASSEMBLY LOCATION
6'	5'	5'	5'	RURAL DISTRICTS & EXPRESSWAYS
7'	7'	6'	1'	BUSINESS AND RESIDENTIAL DISTRICTS - WHERE PARKING OR OTHER OBSTRUCTIONS LIMIT VISIBILITY

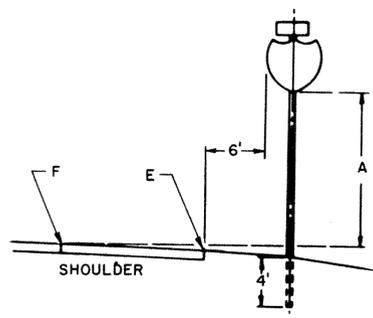
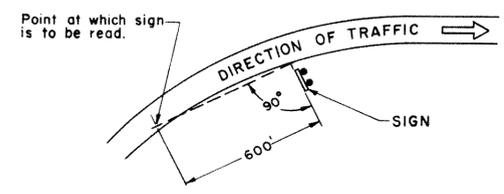
\* OR AS DIRECTED BY THE ENGINEER

NOTE:  
 8'-6" Min. Vert. Clearance for any Signs Located over Sidewalks.

ERECTION NOTE: FOR MAXIMUM EFFECTIVENESS AND TO ELIMINATE OR MINIMIZE SPECULAR GLARE, POSITION SIGNS AS FOLLOWS:  
 A. On tangent section, position the sign such that the vertical axis is plumb and the horizontal axis is at an angle of 93° with the traffic lane which the sign serves: See diagram.



B. On horizontal curve section, position the sign so the vertical axis is plumb and the horizontal axis is at an angle of 90° with a straight line between the sign and the point at which the sign is to be read.



**TYPICAL CONFIRMATORY ROUTE MARKER PLACEMENT**

"E" DENOTES EDGE OF SHOULDER OR FACE OF CURB.  
 "F" DENOTES EDGE OF TRAVELWAY.

REVISIONS	
NO.	DATE
1	10-86
2	11-87
3	9-90

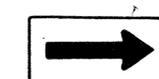
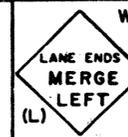
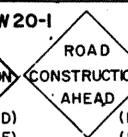
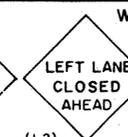
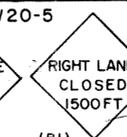
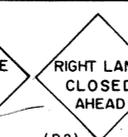
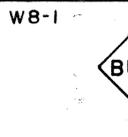
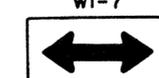
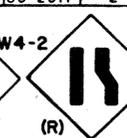
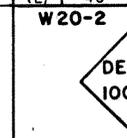
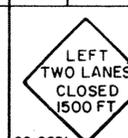
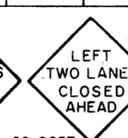
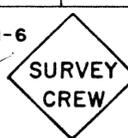
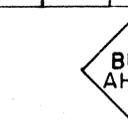
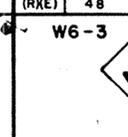
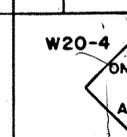
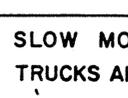
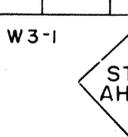
CONNECTICUT DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS  
 DIVISION OF TRAFFIC

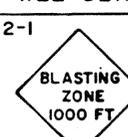
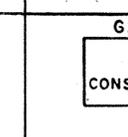
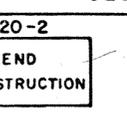
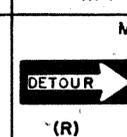
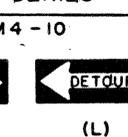
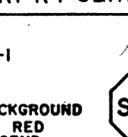
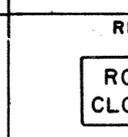
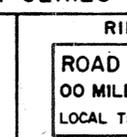
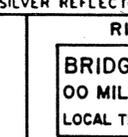
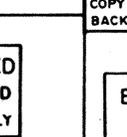
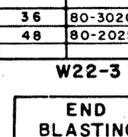
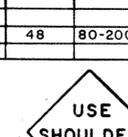
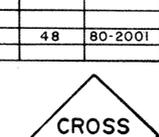
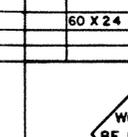
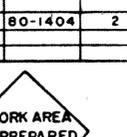
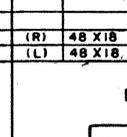
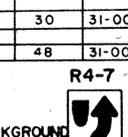
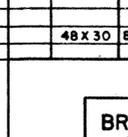
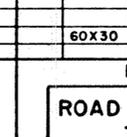
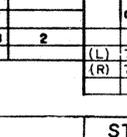
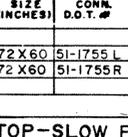
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 GORE EXIT SIGN

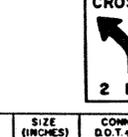
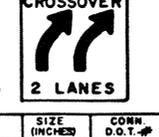
SCALE NONE

8



WI SERIES			W4 - W9 SERIES			W13 SERIES			W20 SERIES			PAINTING OF ARRIGONI BRIDGE CARRYING ROUTE 66 OVER THE CONNECTICUT RIVER			W21 SERIES			W3, W8 SERIES											
<b>WI-1L</b>  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (D) 36 80-3011 1 (E) 48 80-2031 2			<b>WI-1R</b>  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (D) 36 80-3010 1 (E) 48 80-2030 2			<b>WI-6</b>  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (D) 36 X 18 80-1410 1 (E) 48 X 24 80-1409 2			<b>W9-2</b> LANE ENDS MERGE LEFT (L)  LANE ENDS MERGE RIGHT (R)  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (L) (D) 48 80-2010 2 (R) (E) 48 80-2011 2			<b>W13-1</b>  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (A) 18 X 18 80-3016 1 (B) 24 X 24 80-2022 1			<b>W20-1</b> ROAD CONSTRUCTION 1500 FT (D)  ROAD CONSTRUCTION AHEAD (E)  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (D) 36 80-9813 1 (D) 36 80-3001 1 (IE) 48 80-9814 2 (E) 48 80-2005 2			<b>W20-7a</b>  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (D) 36 80-9803 1 (E) 48 80-9804 2			<b>W20-5</b> LEFT LANE CLOSED 1500 FT (L1)  LEFT LANE CLOSED AHEAD (L2)  RIGHT LANE CLOSED 1500 FT (R1)  RIGHT LANE CLOSED AHEAD (R2)  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (L1) 48 80-9841 2 (R1) 48 80-9842 2 (L2) 48 80-9847 2 (R2) 48 80-9848 2			<b>W21-4</b> ROAD WORK AHEAD  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (C) 30 80-9602 1 (D) 36 80-9603 1 (E) 48 80-9604 2			<b>W8-1</b> BUMP  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (D) 36 80-9901 1 (E) 48 80-9902 2		
<b>WI-2L</b>  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (D) 36 80-3013 1 (E) 48 80-2033 2			<b>WI-2R</b>  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (D) 36 80-3012 1 (E) 48 80-2032 2			<b>WI-7</b>  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (E) 48 X 24 80-1408 2			<b>W4-2</b> LANE ENDS MERGE LEFT (L)  LANE ENDS MERGE RIGHT (R)  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (L) (E) 48 80-2028 2 (R) (E) 48 80-2027 2			REDUCE SPEED TO 00 MPH  SIZE (INCHES) CONN. D.O.T.# SUPPORT # 36 80-3006 1 48 80-2008 2			<b>W20-2</b> DETOUR 1000 FT  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (D) 36 80-3002 1 (E) 48 80-2006 2			CROSSOVER 1000 FT AHEAD  SIZE (INCHES) CONN. D.O.T.# SUPPORT # 48 80-2017 2			LEFT TWO LANES CLOSED 1500 FT  LEFT TWO LANES CLOSED AHEAD  RIGHT TWO LANES CLOSED 1500 FT  RIGHT TWO LANES CLOSED AHEAD  SIZE (INCHES) CONN. D.O.T.# SUPPORT # 80-9831 80-9837 80-9832 80-9838			<b>W21-6</b> SURVEY CREW  SIZE (INCHES) CONN. D.O.T.# SUPPORT # 36 80-3007 1			BUMP AHEAD  SIZE (INCHES) CONN. D.O.T.# SUPPORT # 36 80-9801 1 48 80-9802 2		
<b>WI-4L</b>  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (D) 36 80-3022 1 (E) 48 80-2020 2			<b>WI-4R</b>  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (D) 36 80-3021 1 (E) 48 80-2019 2			<b>WI-8</b>  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (A) 12 X 18 80-4202 1			<b>W6-3</b>  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (E) 48 80-2015 2			<b>W20-4</b> ONE LANE ROAD AHEAD  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (D) 36 80-3004 1 (E) 48 80-2007 2			SLOW MOVING TRUCKS AHEAD  SIZE (INCHES) CONN. D.O.T.# SUPPORT # 96 X 48 80-1415			(A) AHEAD (B) 1/2 MILE (C) 1 MILE SIZE (INCHES) CONN. D.O.T.# SUPPORT # 30 X 8 80-6102			<b>W3-1</b> STOP AHEAD  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (D) 36 80-9808 1								

W22 SERIES			G20 SERIES			M4 SERIES			RI-R4 SERIES			R11 SERIES			E5 SERIES											
<b>W22-1</b> BLASTING ZONE 1000 FT  SHOULDER CLOSED  STAY IN LINE  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (D) 36 80-3020 1 (E) 48 80-2025 2			<b>G20-2</b> END CONSTRUCTION  SIZE (INCHES) CONN. D.O.T.# SUPPORT # 60 X 24 80-1404 2			<b>G20-2a</b> END ROAD WORK  SIZE (INCHES) CONN. D.O.T.# SUPPORT # 48 X 24 80-1412 2			<b>M4-10</b> DETOUR (R)  DETOUR (L)  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (R) 48 X 18 80-1401 2 (L) 48 X 18 80-1402 2			<b>RI-1</b> BACKGROUND RED LEGEND SILVER  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (B) 30 31-0002 1			<b>R11-2</b> ROAD CLOSED  SIZE (INCHES) CONN. D.O.T.# SUPPORT # 48 X 30 80-0280 2			<b>R11-3a</b> ROAD CLOSED 00 MILES AHEAD LOCAL TRAFFIC ONLY  SIZE (INCHES) CONN. D.O.T.# SUPPORT # 60 X 30 80-0277 2			<b>R11-3b</b> BRIDGE CLOSED 00 MILES AHEAD LOCAL TRAFFIC ONLY  SIZE (INCHES) CONN. D.O.T.# SUPPORT # 60 X 30 80-0278 2			<b>E5-1</b> EXIT (L)  EXIT (R)  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (L) 72 X 60 51-1755 L 2-TYPE B (R) 72 X 60 51-1755 R 2-TYPE B		
<b>W22-3</b> END BLASTING ZONE  USE SHOULDER  CROSS OVER  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (D) 36 X 30 80-1422 2 (E) 42 X 36 80-1421 2			WORK AREA BE PREPARED TO STOP  SIZE (INCHES) CONN. D.O.T.# SUPPORT # 36 80-3019 1 48 80-2012 2			NEXT 0 MILES  SIZE (INCHES) CONN. D.O.T.# SUPPORT # 72 X 14 80-1420			<b>M4-8</b> DETOUR  SIZE (INCHES) CONN. D.O.T.# SUPPORT # 24 X 12 80-1407			<b>R4-7</b> BACKGROUND SILVER LEGEND BLACK  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (B) 24 X 30 31-0526 1			BRIDGE OUT  SIZE (INCHES) CONN. D.O.T.# SUPPORT # 48 X 30 80-0282 2			<b>R11-4</b> ROAD CLOSED TO THRU TRAFFIC  SIZE (INCHES) CONN. D.O.T.# SUPPORT # 60 X 30 80-0281 2			STOP-SLOW PADDLE SIDE A  SIDE B  AREA S.F. (2) 3.90 (4) 10.83 BACKGROUND SILVER LEGEND RED COPY & BORDER - SILVER COPY & BORDER - ORANGE COPY & BORDER - BLACK PLAIN SIZE (INCHES) CONN. D.O.T.# SUPPORT # (2) 36 31-0215 1 (4) 60 31-0267 2 19 80-9950 HANDLE					

W22-2			ROAD CONSTRUCTION NEXT 0 MI BE PREPARED TO STOP		
TURN OFF 2-WAY RADIO  CROSSOVER 2 LANES  CROSSOVER 2 LANES  SIZE (INCHES) CONN. D.O.T.# SUPPORT # (D) 36 X 30 80-1424 2 (E) 42 X 36 80-1423 2			ROAD CONSTRUCTION NEXT 0 MI BE PREPARED TO STOP  NOTE: THIS SIGN SHALL BE FABRICATED WITH BATTENS CONN. D.O.T.# SIZE (INCHES) SUPPORT # 80-1428 120 X 108 BREAKAWAY		
(VARIABLE LEGEND) SIZE (INCHES) CONN. D.O.T.# SUPPORT # 60 X 10 80-9913 1 96 X 18 80-1414			BLANK OR VARIABLE LEGEND SIZE (INCHES) CONN. D.O.T.# SUPPORT # 36 80-3014 1 48 80-2014 2		

NOTES: \* SUPPORTS NOTED ARE FOR LONG TERM INSTALLATION (SEE STD. SHEET "TYPICAL SIGN POSTS & SIGN MOUNTING DETAILS") FOR TEMPORARY SUPPORTS SEE STD. SHEET "TYPICAL CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES."  
 FOR SPECIFIC SIGN DESIGN, CONTACT CONN. D.O.T. TRAFFIC DIVISION FOR BOLT HOLE PATTERN REFER TO F.H.W.A. PUBLICATION "STANDARD HIGHWAY SIGNS AS SPECIFIED IN THE M.U.T.C.D. 1988."  
 SIGNS OF DIFFERENT DIMENSIONS TO BE ERRECTED ON THE SAME SUPPORTS MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.  
 WHERE (0-00) SHOWN ON SIGN-INDICATES VARIABLE NUMBER(S) LEGEND.  
 COLORS OF SIGNS (UNLESS OTHERWISE SPECIFIED) LEGEND- BLACK PLAIN BACKGROUND-ORANGE REFLECTORIZED.  
 COLOR & MATERIALS SHALL CONFORM TO STATE SPECIFICATIONS.  
 MATERIALS: ALUMINUM THICKNESS FOR ALL SIGNS SHALL BE .006 EXCEPT SIGNS NOS. 80-1415, 80-1426, 80-1427, 80-1428 & E5-1 WHICH SHALL BE .125. PLYWOOD THICKNESS 1/2" EXTERIOR GRADE A-C OR BETTER, SIGN BLANKS SHALL HAVE ONE COAT OF PRIMER PAINT PRIOR TO APPLICATION OF REFLECTORIZATION AND COPY.  
 ON RI-SERIES SIGN THE LEGEND "STC" SHALL APPEAR.  
 \*SUPPORTS - TYPE A (EXCEPT WHERE NOTED)

REVISIONS		
NO.	DATE	DESCRIPTION
1	6-83	W20-1 DESIG. REVISED
2	4-84	ADD 2, W8 SERIES SIGNS
3	5-84	ADDED W3-1 SIGN
4	2-85	REMOVE SUB PANELS FOR W3-3 & R4-7
5	3-87	REVISE NOTE- SIGN DESIGN ADD 80-9913
6	2-89	ADD 80-9950 SIGN

CONNECTICUT DEPARTMENT OF TRANSPORTATION  
 BUREAU OF HIGHWAYS DIVISION OF TRAFFIC  
 SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS

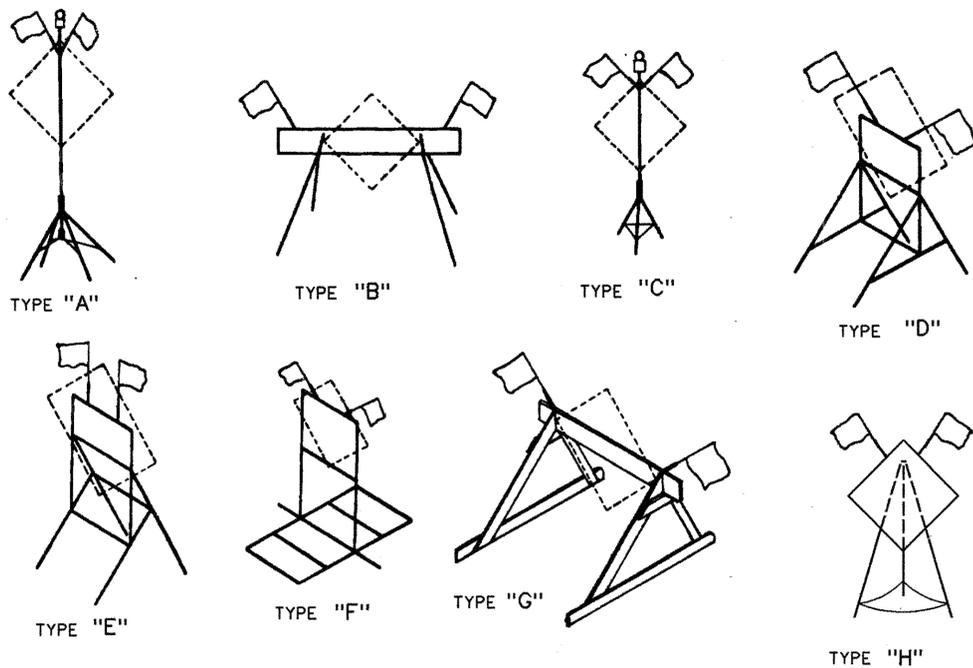
SUBMITTED BY *[Signature]* DATE 4-8-83  
 ENG. OF TRAFFIC

SUBMITTED BY *[Signature]* DATE  
 ENG. OF TRAFFIC

APPROVED *[Signature]* DATE 6-12-83  
 CHIEF OF TRAFFIC ENGINEERING

SCALE NONE

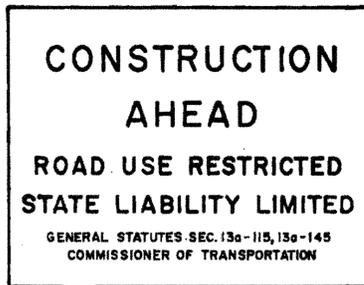
F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CONN.	MIDDLETOWN PORTLAND	BHF-22(132)	82-252	1993	66	22	27



PORTABLE SIGN SUPPORTS

NOTES:

- SIGN SUPPORTS SHALL BE CONSTRUCTED OF A SUITABLE MATERIAL. BREAK-AWAY AND/OR COLLAPSIBLE FEATURES SHALL BE INCORPORATED IN THE DESIGN SO THAT THE SUPPORT WILL NOT CONSTITUTE A HAZARD TO THE MOTORIST AND/OR WORKERS IN THE WORK AREA.
- MOUNTING HEIGHT OF SIGN UTILIZING STRUCTURES DEPICTED ABOVE SHALL BE A MINIMUM OF 12", WITH A RECOMMENDED HEIGHT OF 18" ABOVE PAVEMENT.
- WHEN CALLED FOR ON THE PLANS OR DIRECTED BY THE ENGINEER, THE MOUNTING HEIGHT OF SIGNS ON PORTABLE SUPPORTS SHALL BE NOT LESS THAN 4' ABOVE THE PAVEMENT.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED A HAZARD OR NOT IN THE BEST INTEREST OF THE MOTORING PUBLIC.
- FLAGS AND/OR BARRICADE WARNING LIGHTS SHALL BE USED AS SHOWN ON THE TRAFFIC CONTROL PLANS AND AS DIRECTED BY THE ENGINEER.
- PORTABLE SIGN SUPPORTS SHALL BE STABILIZED WITH THE USE OF SANDBAGS OR OTHER APPROVED MEANS.



16-E, 16-H, 16-M



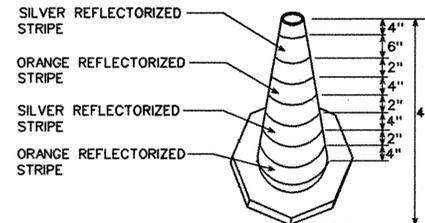
16-S

SERIES 16 SIGNS

NOTES:

- SIGN COLORS:  
BACKGROUND-ORANGE REFLECTORIZED ENCAPSULATED LENS  
LEGEND-BLACK PLAIN
- FOR SPECIFIC SIGN DESIGN REFER TO CONN. DEPT. OF TRANS. TRAFFIC DIVISION'S DETAILED DRAWINGS.
- 16-E, 16-H AND 16-S SIGNS ARE TO BE ERECTED ON TWO 3 LB. BREAK-AWAY SIGN POSTS UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

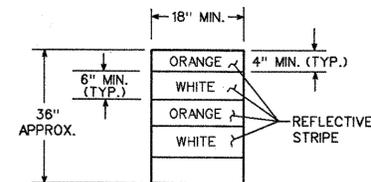
	HORIZ.	VERT.
16-E	84"	60"
16-H	60"	42"
16-M	30"	24"



42" TRAFFIC CONE

NOTES:

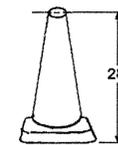
- TRAFFIC CONES SHALL BE DESIGNED IN ACCORDANCE WITH THE M.U.T.C.D., CHAPTER VI, SECTION 6C-3, CONE DESIGN.
- CONES SHALL BE PREDOMINATELY FEDERAL ORANGE IN COLOR AND REFLECTORIZED AS REQUIRED IN THE SPECIFICATIONS.
- RUBBER CONES SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- PLASTIC CONES SHALL BE COLOR IMPREGNATED.
- CONES SHALL BE OF A THICKNESS NECESSARY TO WITHSTAND IMPACT WITHOUT DAMAGE TO EITHER CONE OR IMPACTING VEHICLE.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.



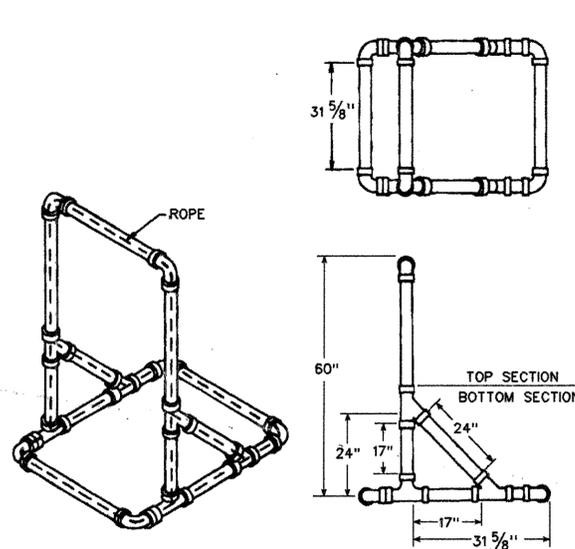
TRAFFIC DRUM  
FRONT VIEW

NOTES:

- TRAFFIC DRUM SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION M.U.T.C.D.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED, AS REQUIRED IN THE SPECIFICATIONS.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE REFLECTIVE SHEETING.
- REFLECTORIZED STRIPES SHOULD NOT BE PLACED OVER THE PROTRUDING CIRCUMFERENCIAL RIBS OF DRUMS.
- THE SECTIONS OF DRUMS NOT COVERED WITH REFLECTORIZED STRIPES SHALL BE ORANGE.
- THE DESIGN OF THE DRUM WILL ALLOW FOR THE ATTACHMENT OF A BARRICADE WARNING LIGHT.



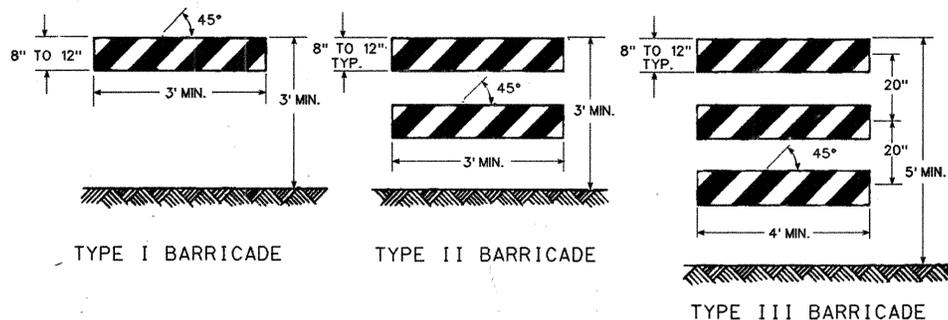
28" TRAFFIC CONE



TYPICAL 3" OR 4" PLASTIC SIGN/BARRICADE SUPPORT

NOTES:

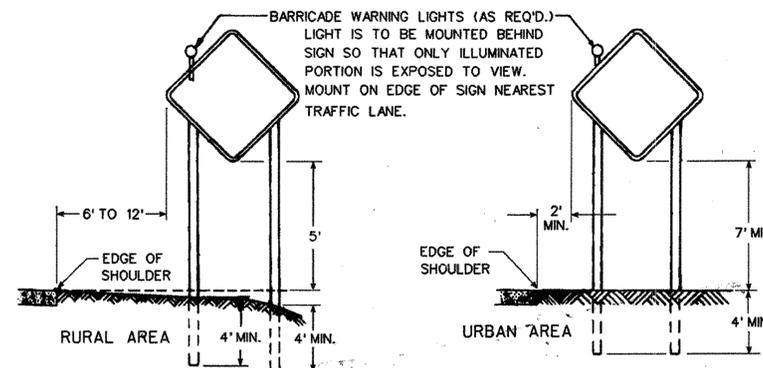
- DIMENSIONS ARE APPROXIMATE.
- BOTTOM SECTION MAY BE FILLED WITH SAND FOR BALLAST.
- SUPPORT SHALL BE LOOSELY THREADED WITH ROPE, KNOTTED AS REQUIRED.



CONSTRUCTION BARRICADES

NOTES:

- MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE REFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. RAILS FOR TYPE I AND TYPE II BARRICADES SHALL BE REFLECTORIZED ON BOTH SIDES. WHERE TRAFFIC PASSES ONLY IN ONE DIRECTION OF TRAVEL, ONLY THE SIDE FACING TRAFFIC SHALL BE REFLECTORIZED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED A HAZARD, OR NOT IN THE BEST INTEREST OF THE MOTORING PUBLIC.
- CORNERS OF ALUMINUM BARRICADE RAILS SHALL BE ROUNDED.



PLACEMENT OF ROADSIDE SIGNS

TYPICAL LONG TERM INSTALLATION

NOTES:

- SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAKAWAY FEATURES. SEE TYPICAL SHEETS: "TYPICAL SIGN SUPPORT AND SIGN PLACEMENT DETAILS"
- "TYPICAL METAL SIGN POSTS FOR SIGN FACE SHEET ALUMINUM"

REVISIONS	
NO.	DESCRIPTION

CONNECTICUT  
DEPARTMENT OF TRANSPORTATION  
BUR. OF ENGINEERING & HWY. OPERATIONS  
DIVISION OF TRAFFIC ENGINEERING

TYPICAL CONSTRUCTION  
SIGN SUPPORTS AND  
CHANNELIZING DEVICES

SUBMITTED BY *Vincent Quinn* DATE *1/13/93*  
ENGINEER OF TRAFFIC

APPROVED *Walter H. Paul* DATE *1/13/93*  
MANAGER OF TRAFFIC ENGINEERING

SCALE NONE 23A